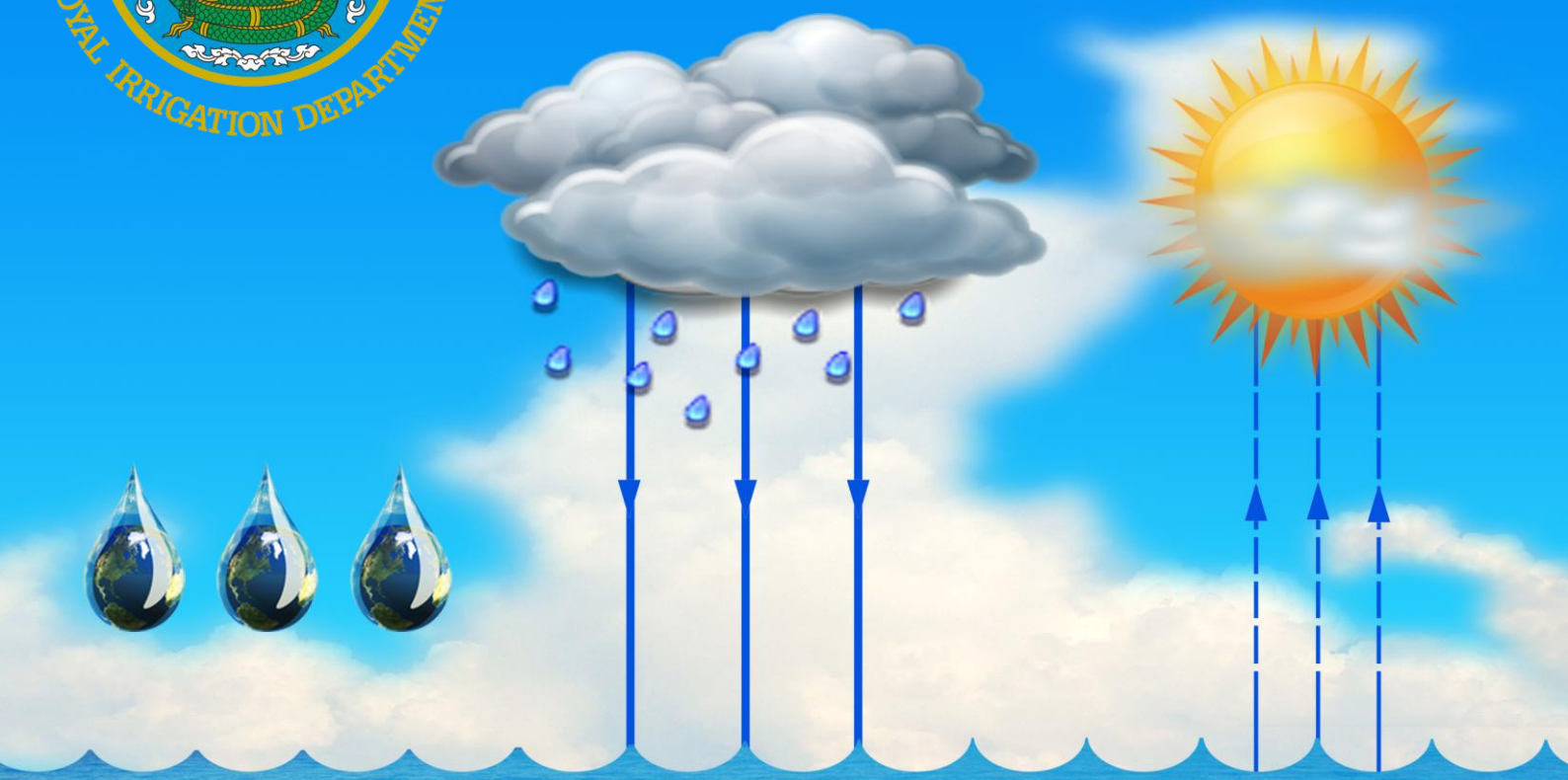
THAILAND

HYDROLOGICAL YEARBOOK

WATER YEAR 2014

VOLUME 57

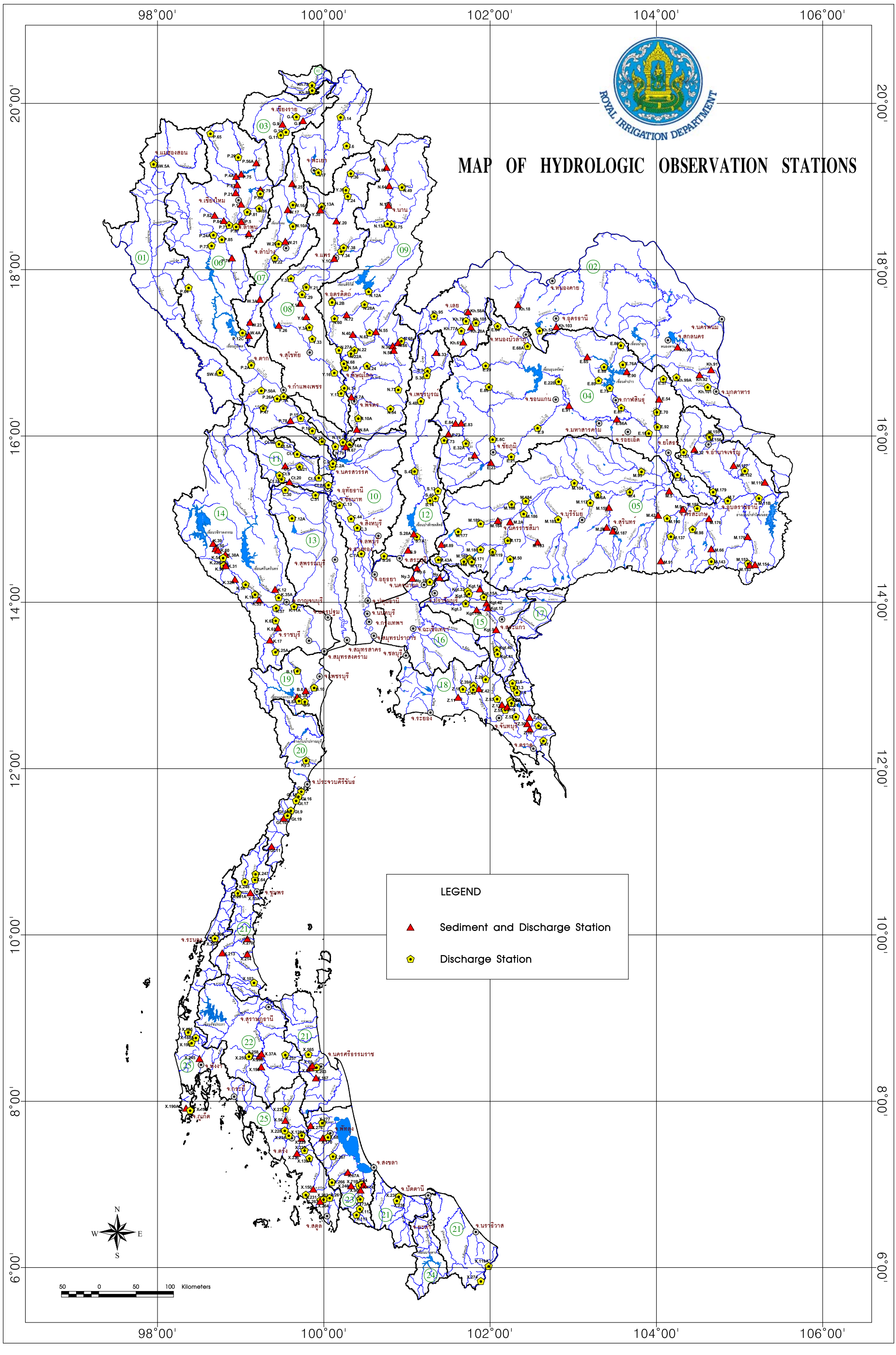
ROYAL IRRIGATION DEPARTMENT

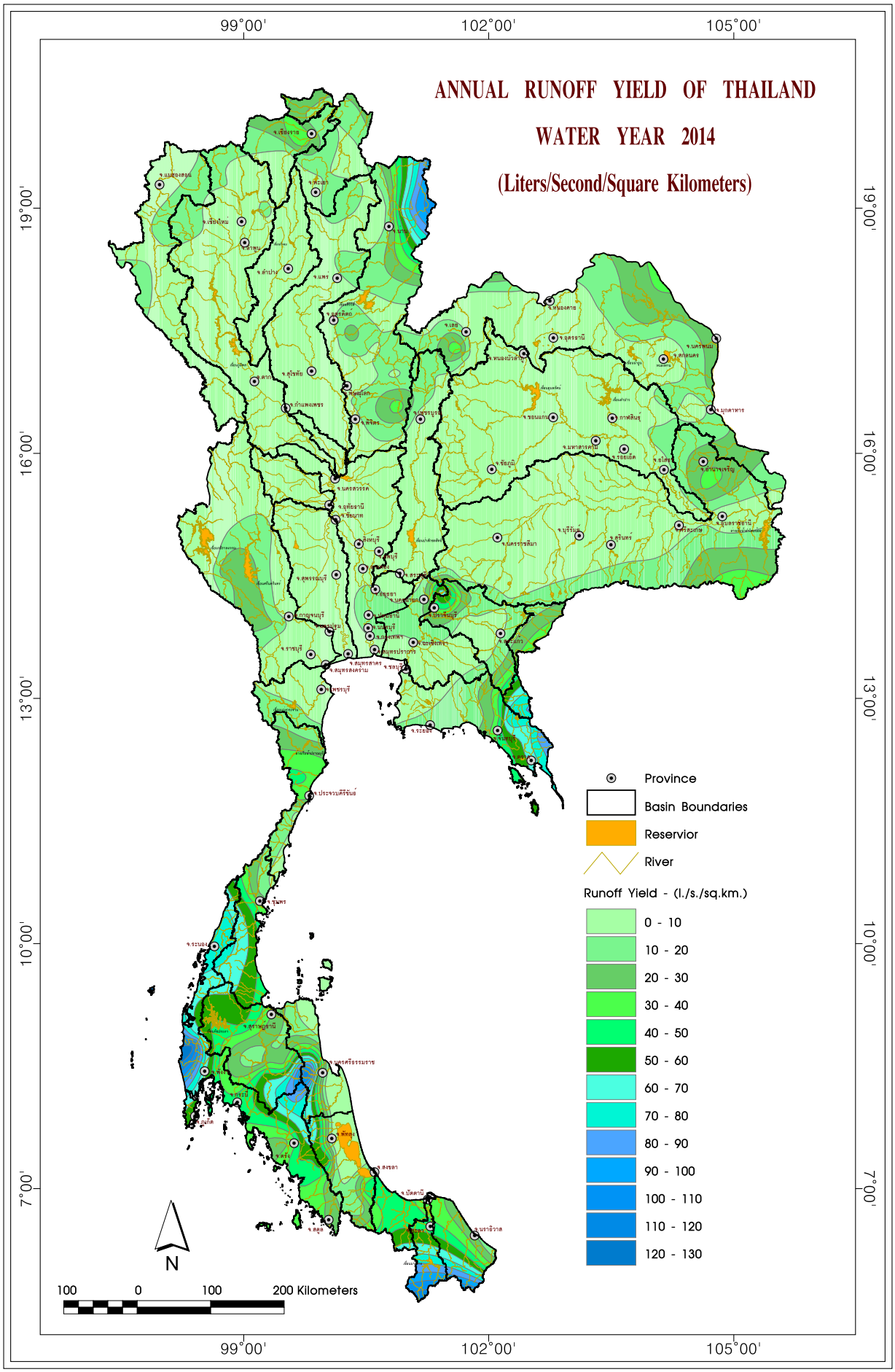


HYDROLOGY DIVISION

OFFICE OF WATER MANAGEMENT AND HYDROLOGY

ROYAL IRRIGATION DEPARTMENT


MAP OF HYDROLOGIC OBSERVATION STATIONS
ROYAL IRRIGATION DEPARTMENT
LEGEND
Sediment and Discharge Station
Discharge Station
Kilometers
N
S
E
W
98°00'
100°00'
102°00'
104°00'
106°00'
20°00'
18°00'
16°00'
14°00'
12°00'
10°00'
8°00'
6°00'


ANNUAL RUNOFF YIELD OF THAILAND
WATER YEAR 2014
(Liters/Second/Square Kilometers)
99°00'
102°00'
105°00'
19°00'
16°00'
13°00'
10°00'
7°00'
Province
Basin Boundaries
Reservior
River
Runoff Yield - (l./s./sq.km.)
0 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
90 - 100
100 - 110
110 - 120
120 - 130
N
100 0 100 200 Kilometers

Thailand

Hydrological Yearbook

Water Year 2014

Volume 57

Royal Irrigation Department

Hydrology Division

Office of Water Management and Hydrology

Bangkok

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EAST COAST-GULF BASIN

110	Z.10	Khlong Yai at Ban Si Bua Thong, Trat	831
111	Z.11	Khlong Prasae at Ban Khao Chik, Rayong	832
112	Z.14	Khlong Phayat at Ban Chaman, Chanthaburi	833
113	Z.42	Khlong Prakaet at Ban Prakaet , Chanthaburi	834
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120	Gt.10	Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan	841
121	Gt.11	Khlong Yai at Ban Chang Laek, Prachuap Khiri Khan	842
122	Gt.15	Huai Sai at Ban Suan Son Huai Sai, Prachuap Khiri Khan	843

SOUTHERN PENINSULA EAST COAST

123	X.53A	Khlong Chumphon at Ban Wang Phai, Chumphon	844
124	X.55	Khlong Tha Di at Ban Tha Yai, Nakhon Si Thammarat	845
125	X.70	Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat	846
126	X.149	Khlong Klai at Ban Hua Na , Nakhon Si Thammarat	847
127	X.158	Khlong Tha Taphao at Ban Wang Khrok, Chumphon	848
128	X.167	Khlong Sao Thong at Ban Sao Thong, Nakhon Si Thammarat	849
129	X.248	Khlong Rap Ro at Ban Hat Nai, Chumphon	850

TAPI RIVER BASIN

130	X.36	Khlong Phum Duang at Ban Tha Khanon, Surat Thani	851
131	X.37A	Tapi River at Ban Yan Din Daeng, Surat Thani	852
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THALE SAP SONGKHLA BASIN

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138	X.113	Khlong La Pang at Ban Thung Prap, Songkhla	859
139	X.267	Khlong Tamot at Ban Mae Khree, Phatthalung	860
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SOUTHERN PENINSULA WEST COAST

141	X.56	Trang River at Ban Tha Pradu , Trang	862
142	X.150	Khlong Langu at Ban Wang Pa Khian, Satun	863
143	X.187	Khlong Ta Kuaw Pa at Ban Hin Dan, Phangnga	864
144	X.191	Khlong Bang Yai at Satree Phuket School, Phuket	865
145	X.236	Lower Khlong Palian at Ban Yan Ta Khaow, Trang	866
146	X.245	Khlong Phangnga at Ban Bang Tong, Phangnga	867
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APPENDIX

Flow Duration Curve for Daily Discharge (2004 - 2014)

HYDROLOGICAL YEAR BOOK PUBLICATION

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

Introduction

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

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXX Terms related to stream flow and other hydrologic data, as used in this report, are defined as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The water year is designated by the calendar year in which it begins and which includes 3 of 12 months. Thus, the year began April 1, 1969 is called the “1969 water year”.

Order of listing of gauging data

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

Series of yearbook publications

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

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
52	2009	368	December 2012
53	2010	347	February 2013
54	2011	360	April 2013
55	2012	348	October 2013
56	2013	369	October 2014
57	2014	359	October 2015

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

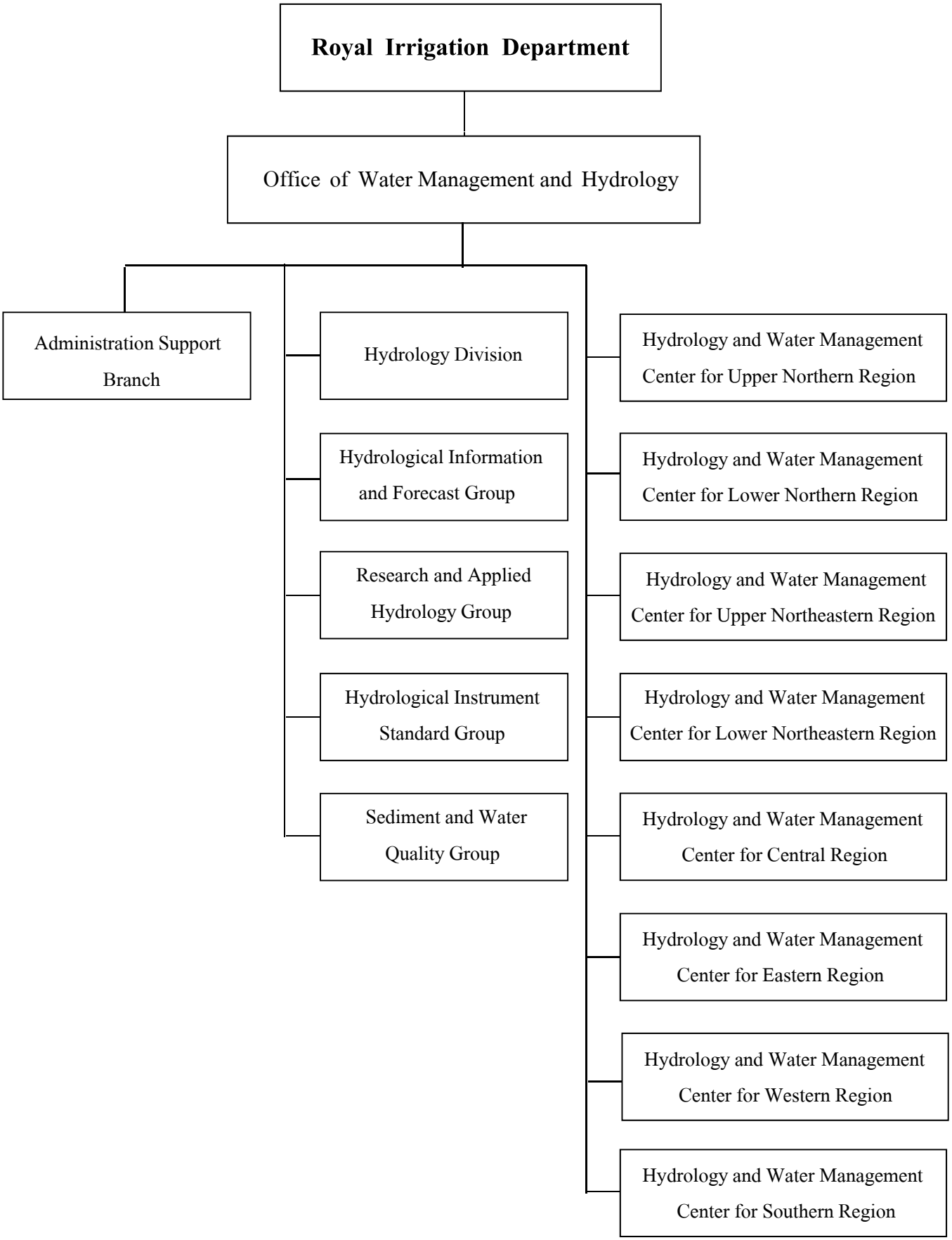
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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
Administration Support Branch
Hydrology Division
Hydrological Information and Forecast Group
Research and Applied Hydrology Group
Hydrological Instrument Standard Group
Sediment and Water Quality Group
Hydrology and Water Management Center for Upper Northern Region
Hydrology and Water Management Center for Lower Northern Region
Hydrology and Water Management Center for Upper Northeastern Region
Hydrology and Water Management Center for Lower Northeastern Region
Hydrology and Water Management Center for Central Region
Hydrology and Water Management Center for Eastern Region
Hydrology and Water Management Center for Western Region
Hydrology and Water Management 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 2014

WATER YEAR : 2014

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

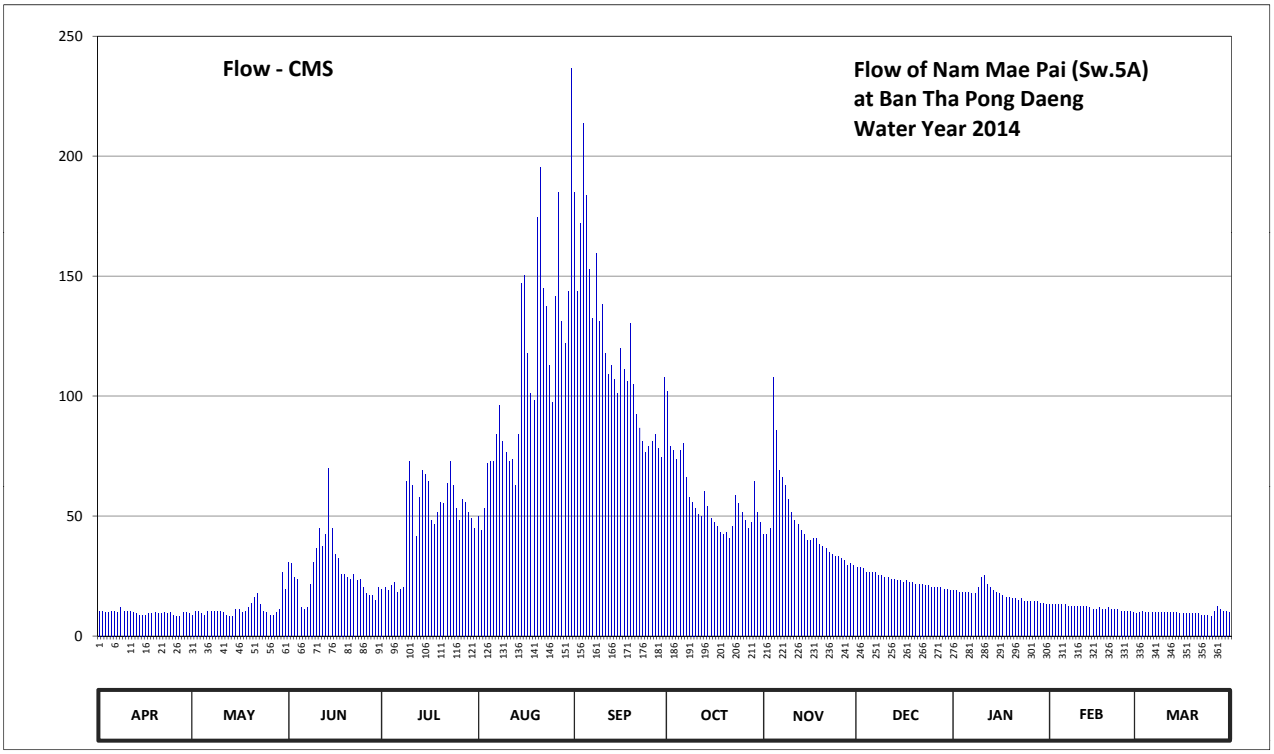
Location : on left bank at Ban Tha Pong Daeng.

	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** +187.423 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 129 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.51	175.48	175.81	175.65	176.04	177.38	176.61	175.95	175.78	175.64	175.55	175.49	
2	175.51	175.51	175.80	175.66	175.97	177.02	176.37	175.95	175.78	175.64	175.55	175.50	
3	175.50	175.51	175.72	175.64	176.08	177.27	176.35	175.98	175.77	175.63	175.55	175.51	
4	175.50	175.49	175.71	175.67	176.29	177.63	176.31	176.67	175.75	175.63	175.55	175.50	
5	175.51	175.48	175.53	175.69	176.30	177.37	176.35	176.44	175.75	175.63	175.55	175.50	
6	175.51	175.51	175.52	175.63	176.30	177.10	176.38	176.26	175.75	175.63	175.55	175.50	
7	175.50	175.51	175.53	175.65	176.42	176.91	176.23	176.23	175.75	175.62	175.54	175.50	
8	175.53	175.51	175.68	175.66	176.55	177.16	176.13	176.19	175.73	175.62	175.54	175.50	
9	175.51	175.51	175.81	176.21	176.39	176.90	176.11	176.12	175.73	175.66	175.54	175.50	
10	175.51	175.51	175.88	176.30	176.34	176.97	176.08	176.06	175.72	175.72	175.54	175.50	
11	175.51	175.50	175.98	176.19	176.30	176.77	176.05	176.02	175.72	175.73	175.54	175.50	
12	175.50	175.48	175.89	175.94	176.31	176.68	176.04	176.00	175.71	175.68	175.54	175.50	
13	175.49	175.47	175.95	176.13	176.19	176.72	176.16	175.97	175.71	175.66	175.54	175.50	
14	175.48	175.47	176.27	176.26	176.42	176.66	176.09	175.95	175.70	175.64	175.53	175.50	
15	175.48	175.52	175.98	176.24	177.05	176.60	176.03	175.92	175.70	175.63	175.52	175.49	
16	175.48	175.52	175.85	176.21	177.08	176.79	176.01	175.92	175.69	175.62	175.52	175.49	
17	175.49	175.50	175.83	176.02	176.77	176.70	175.99	175.93	175.70	175.61	175.53	175.49	
18	175.49	175.51	175.74	176.00	176.60	176.65	175.96	175.93	175.69	175.60	175.52	175.49	
19	175.50	175.53	175.74	176.06	176.57	176.89	175.95	175.90	175.69	175.60	175.52	175.49	
20	175.49	175.56	175.72	176.11	177.29	176.64	175.96	175.89	175.68	175.59	175.53	175.49	
21	175.49	175.60	175.71	176.10	177.47	176.51	175.93	175.88	175.68	175.59	175.52	175.49	
22	175.50	175.62	175.74	176.20	177.03	176.45	175.99	175.86	175.68	175.58	175.52	175.48	
23	175.49	175.55	175.70	176.30	176.96	176.39	176.14	175.85	175.67	175.59	175.52	175.48	
24	175.50	175.51	175.71	176.19	176.72	176.34	176.10	175.84	175.67	175.57	175.51	175.48	
25	175.48	175.50	175.66	176.08	176.56	176.37	176.06	175.84	175.66	175.57	175.51	175.47	
26	175.47	175.48	175.62	176.02	177.00	176.39	176.02	175.83	175.66	175.57	175.51	175.51	
27	175.47	175.48	175.61	176.12	177.38	176.42	175.98	175.82	175.66	175.57	175.51	175.54	
28	175.50	175.50	175.61	176.11	176.90	176.36	176.01	175.79	175.66	175.57	175.50	175.52	
29	175.50	175.52	175.58	176.06	176.81	176.32	176.21	175.80	175.65	175.56		175.51	
30	175.49	175.75	175.66	176.03	177.02	176.67	176.06	175.79	175.65	175.56		175.51	
31		175.65		175.98	177.83		176.01		175.64	175.55		175.50	
Mean	175.50	175.52	175.75	176.00	176.68	176.77	176.12	175.99	175.70	175.61	175.53	175.50	
Max	175.53	175.75	176.27	176.30	177.83	177.63	176.61	176.67	175.78	175.73	175.55	175.54	177.83
Min	175.47	175.47	175.52	175.63	175.97	176.32	175.93	175.79	175.64	175.55	175.50	175.47	175.47

Annual Max Momentary Gage Height	177.98	m. (MSL.) ,	at 09.00 Hours , on Aug 31 , 2014		
Zero Gage at Bottom Elevation	175.76	m. (MSL.) ,	River Bed	174.70	m. (MSL.)
Left Bank Elevation	183.87	m. (MSL.) ,			
Right Bank Elevation	181.48	m. (MSL.) ,	Drainage Area	4470	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.44	8.82	30.89	19.60	49.92	184.70	102.00	42.25	28.68	18.92	13.00	9.31		
2	10.44	10.44	30.10	20.28	43.95	143.75	79.24	42.25	28.68	18.92	13.00	9.80		
3	9.80	10.44	24.42	18.92	53.34	172.05	77.40	44.80	27.97	18.24	13.00	10.44		
4	9.80	9.31	23.71	20.96	71.88	213.45	73.72	108.00	26.55	18.24	13.00	9.80		
5	10.44	8.82	11.72	22.32	72.80	183.55	77.40	85.80	26.55	18.24	13.00	9.80		
6	10.44	10.44	11.08	18.24	72.80	152.75	80.16	69.12	26.55	18.24	13.00	9.80		
7	9.80	10.44	11.72	19.60	83.90	132.28	66.36	66.36	26.55	17.56	12.36	9.80		
8	11.72	10.44	21.64	20.28	96.25	159.50	57.62	62.75	25.13	17.56	12.36	9.80		
9	10.44	10.44	30.89	64.52	81.08	131.25	55.91	56.76	25.13	20.28	12.36	9.80		
10	10.44	10.44	36.42	72.80	76.48	138.43	53.34	51.63	24.42	24.42	12.36	9.80		
11	10.44	9.80	44.80	62.75	72.80	118.00	50.78	48.21	24.42	25.13	12.36	9.80		
12	9.80	8.82	37.21	41.40	73.72	109.00	49.92	46.50	23.71	21.64	12.36	9.80		
13	9.31	8.33	42.25	57.62	62.75	113.00	60.18	43.95	23.71	20.28	12.36	9.80		
14	8.82	8.33	70.04	69.12	83.90	107.00	54.19	42.25	23.00	18.92	11.72	9.80		
15	8.82	11.08	44.80	67.28	147.13	101.00	49.06	39.70	23.00	18.24	11.08	9.31		
16	8.82	11.08	34.05	64.52	150.50	120.00	47.35	39.70	22.32	17.56	11.08	9.31		
17	9.31	9.80	32.47	48.21	118.00	111.00	45.65	40.55	23.00	16.88	11.72	9.31		
18	9.31	10.44	25.84	46.50	101.00	106.00	43.10	40.55	22.32	16.20	11.08	9.31		
19	9.80	11.72	25.84	51.63	98.15	130.22	42.25	38.00	22.32	16.20	11.08	9.31		
20	9.31	13.64	24.42	55.91	174.35	105.00	43.10	37.21	21.64	15.56	11.72	9.31		
21	9.31	16.20	23.71	55.05	195.05	92.45	40.55	36.42	21.64	15.56	11.08	9.31		
22	9.80	17.56	25.84	63.60	144.87	86.75	45.65	34.84	21.64	14.92	11.08	8.82		
23	9.31	13.00	23.00	72.80	137.40	81.08	58.47	34.05	20.96	15.56	11.08	8.82		
24	9.80	10.44	23.71	62.75	113.00	76.48	55.05	33.26	20.96	14.28	10.44	8.82		
25	8.82	9.80	20.28	53.34	97.20	79.24	51.63	33.26	20.28	14.28	10.44	8.33		
26	8.33	8.82	17.56	48.21	141.50	81.08	48.21	32.47	20.28	14.28	10.44	10.44		
27	8.33	8.82	16.88	56.76	184.70	83.90	44.80	31.68	20.28	14.28	10.44	12.36		
28	9.80	9.80	16.88	55.91	131.25	78.32	47.35	29.39	20.28	14.28	9.80	11.08		
29	9.80	11.08	14.92	51.63	122.02	74.64	64.52	30.10	19.60	13.64		10.44		
30	9.31	26.55	20.28	49.06	143.75	108.00	51.63	29.39	19.60	13.64		10.44		
31		19.60		44.80	236.60		47.35		18.92	13.00		9.80		
Total	290.11	354.74	817.37	1476.37	3432.04	3573.87	1763.94	1371.20	720.09	534.95	328.80	301.87	14965.35	CMSDAY
Mean	9.67	11.44	27.25	47.62	110.71	119.13	56.90	45.71	23.23	17.26	11.74	9.74	41.00	CMS
Max	11.72	26.55	70.04	72.80	236.60	213.45	102.00	108.00	28.68	25.13	13.00	12.36	236.60	CMS
Min	8.33	8.33	11.08	18.24	43.95	74.64	40.55	29.39	18.92	13.00	9.80	8.33	8.33	CMS
Runoff	25.07	30.65	70.62	127.56	296.53	308.78	152.40	118.47	62.22	46.22	28.41	26.08	1293.01	MCM

Momentary Peak 254.60 CMS. at 177.98 m. (MSL.) at 09.00 Hours , on Aug 31 , 2014

Runoff Yield 9.17 Liters/Second/Square KM. Momentary Peak Yield 56.957 Liters/Second/Square KM.

WATER YEAR : 2014

SALAWIN RIVER BASIN

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

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

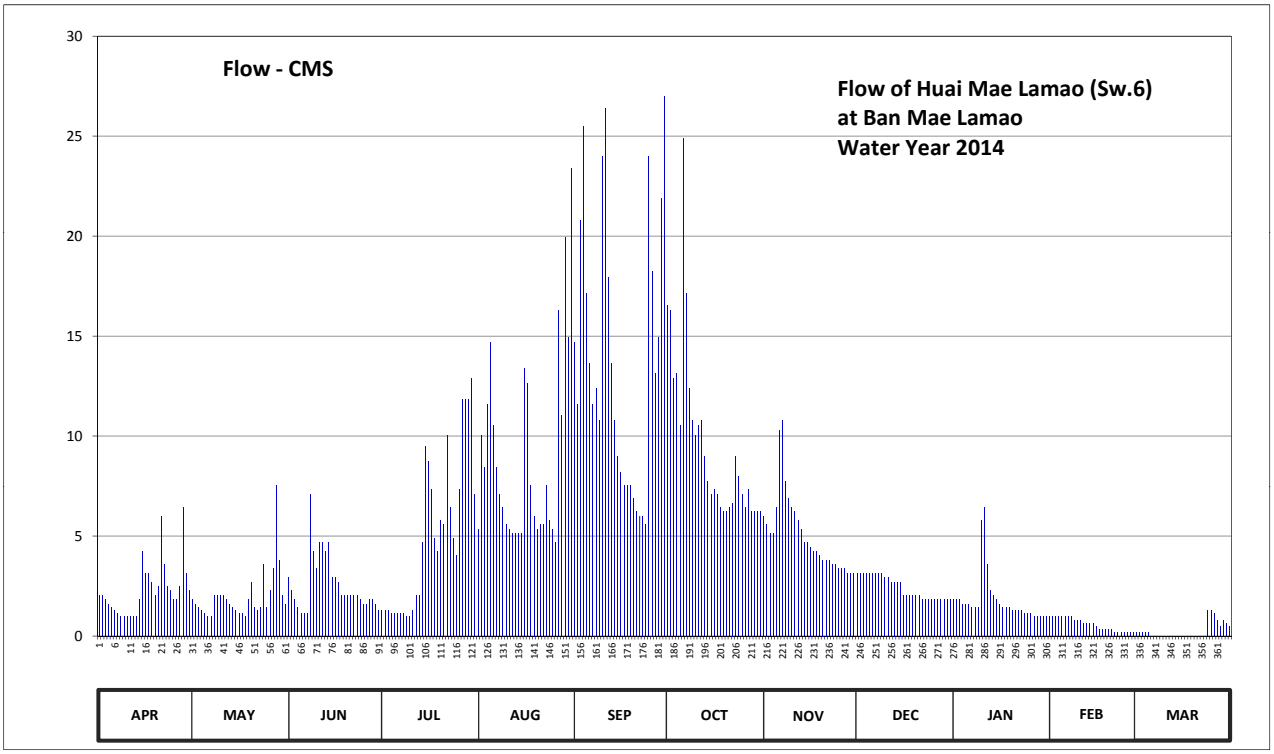
Location : on left bank downstream from the bridge on highway.

	Ban Mae Lamao	**Amphoe** Mae Sot	**Changwat** Tak
Drainge Area	1,009 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1971 to date		
Rated by Flot	-		
Rated by Current Meter	1971 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.62	268.61	268.66	268.58	268.77	269.15	269.22	268.80	268.67	268.61	268.56	268.51	
2	268.62	268.60	268.63	268.58	268.97	269.03	269.21	268.78	268.67	268.61	268.56	268.51	
3	268.61	268.59	268.61	268.58	268.91	269.37	269.08	268.76	268.67	268.61	268.56	268.51	
4	268.60	268.58	268.59	268.57	269.03	269.53	269.09	268.76	268.67	268.60	268.56	268.51	
5	268.59	268.57	268.57	268.57	269.15	269.24	268.99	268.82	268.67	268.60	268.56	268.51	
6	268.58	268.56	268.57	268.57	268.99	269.11	269.51	268.98	268.67	268.60	268.56	268.50	
7	268.57	268.56	268.57	268.57	268.91	269.03	269.24	269.00	268.67	268.59	268.56	268.50	
8	268.56	268.62	268.85	268.57	268.85	269.06	269.06	268.88	268.67	268.59	268.56	268.50	
9	268.56	268.62	268.72	268.56	268.82	269.00	269.00	268.84	268.67	268.59	268.55	268.50	
10	268.56	268.62	268.68	268.56	268.78	269.48	268.97	268.82	268.66	268.79	268.55	268.50	
11	268.56	268.62	268.74	268.58	268.77	269.56	268.99	268.81	268.66	268.82	268.55	268.50	
12	268.56	268.61	268.74	268.62	268.76	269.27	269.00	268.79	268.65	268.69	268.54	268.50	
13	268.56	268.60	268.72	268.62	268.76	269.11	268.93	268.77	268.65	268.63	268.54	268.50	
14	268.61	268.59	268.74	268.74	268.76	269.00	268.88	268.74	268.65	268.62	268.54	268.50	
15	268.72	268.58	268.66	268.95	268.76	268.93	268.85	268.74	268.65	268.61	268.54	268.50	
16	268.67	268.57	268.66	268.92	269.10	268.90	268.86	268.73	268.62	268.60	268.53	268.50	
17	268.67	268.57	268.65	268.86	269.07	268.87	268.85	268.72	268.62	268.59	268.52	268.50	
18	268.65	268.56	268.62	268.75	268.87	268.87	268.82	268.72	268.62	268.59	268.52	268.50	
19	268.62	268.61	268.62	268.72	268.80	268.87	268.81	268.71	268.62	268.59	268.52	268.49	
20	268.64	268.65	268.62	268.79	268.77	268.84	268.81	268.70	268.62	268.58	268.52	268.49	
21	268.80	268.59	268.62	268.78	268.78	268.81	268.82	268.70	268.62	268.58	268.52	268.49	
22	268.69	268.58	268.62	268.97	268.78	268.80	268.83	268.70	268.61	268.58	268.51	268.49	
23	268.64	268.59	268.62	268.82	268.87	268.80	268.93	268.69	268.61	268.58	268.51	268.49	
24	268.63	268.69	268.61	268.75	268.79	268.78	268.89	268.69	268.61	268.57	268.51	268.58	
25	268.61	268.59	268.60	268.71	268.77	269.48	268.85	268.68	268.61	268.57	268.51	268.58	
26	268.61	268.63	268.60	268.86	268.74	269.28	268.82	268.68	268.61	268.57	268.51	268.57	
27	268.64	268.68	268.61	269.04	269.21	269.09	268.86	268.68	268.61	268.56	268.51	268.55	
28	268.82	268.87	268.61	269.04	269.01	269.16	268.81	268.67	268.61	268.56	268.51	268.53	
29	268.67	268.70	268.60	269.04	269.34	269.41	268.81	268.67	268.61	268.56		268.55	
30	268.63	268.62	268.58	269.08	269.16	269.58	268.81	268.67	268.61	268.56		268.54	
31		268.60		268.85	269.46		268.81		268.61	268.56		268.53	
Mean	268.63	268.61	268.64	268.75	268.92	269.11	268.95	268.76	268.64	268.61	268.54	268.51	
Max	268.82	268.87	268.85	269.08	269.46	269.58	269.51	269.00	268.67	268.82	268.56	268.58	269.58
Min	268.56	268.56	268.57	268.56	268.74	268.78	268.81	268.67	268.61	268.56	268.51	268.49	268.49

Annual Max Momentary Gage Height	269.94	m. (MSL.) ,	at 06.00 Hours , on Sep 11 , 2014		
Zero Gage at Bottom Elevation	268.47	m. (MSL.) ,	River Bed	268.66	m. (MSL.)
Left Bank Elevation	281.32	m. (MSL.) ,			
Right Bank Elevation	281.35	m. (MSL.) ,	Drainage Area	1009	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.04	1.82	2.92	1.28	5.34	14.70	16.56	6.00	3.14	1.82	0.96	0.16		
2	2.04	1.60	2.26	1.28	10.02	11.58	16.28	5.56	3.14	1.82	0.96	0.16		
3	1.82	1.44	1.82	1.28	8.46	20.76	12.88	5.12	3.14	1.82	0.96	0.16		
4	1.60	1.28	1.44	1.12	11.58	25.50	13.14	5.12	3.14	1.60	0.96	0.16		
5	1.44	1.12	1.12	1.12	14.70	17.12	10.54	6.44	3.14	1.60	0.96	0.16		
6	1.28	0.96	1.12	1.12	10.54	13.66	24.90	10.28	3.14	1.60	0.96	0.00		
7	1.12	0.96	1.12	1.12	8.46	11.58	17.12	10.80	3.14	1.44	0.96	0.00		
8	0.96	2.04	7.10	1.12	7.10	12.36	12.36	7.76	3.14	1.44	0.96	0.00		
9	0.96	2.04	4.24	0.96	6.44	10.80	10.80	6.88	3.14	1.44	0.80	0.00		
10	0.96	2.04	3.36	0.96	5.56	24.00	10.02	6.44	2.92	5.78	0.80	0.00		
11	0.96	2.04	4.68	1.28	5.34	26.40	10.54	6.22	2.92	6.44	0.80	0.00		
12	0.96	1.82	4.68	2.04	5.12	17.96	10.80	5.78	2.70	3.58	0.64	0.00		
13	0.96	1.60	4.24	2.04	5.12	13.66	8.98	5.34	2.70	2.26	0.64	0.00		
14	1.82	1.44	4.68	4.68	5.12	10.80	7.76	4.68	2.70	2.04	0.64	0.00		
15	4.24	1.28	2.92	9.50	5.12	8.98	7.10	4.68	2.70	1.82	0.64	0.00		
16	3.14	1.12	2.92	8.72	13.40	8.20	7.32	4.46	2.04	1.60	0.48	0.00		
17	3.14	1.12	2.70	7.32	12.62	7.54	7.10	4.24	2.04	1.44	0.32	0.00		
18	2.70	0.96	2.04	4.90	7.54	7.54	6.44	4.24	2.04	1.44	0.32	0.00		
19	2.04	1.82	2.04	4.24	6.00	7.54	6.22	4.02	2.04	1.44	0.32	0.00		
20	2.48	2.70	2.04	5.78	5.34	6.88	6.22	3.80	2.04	1.28	0.32	0.00		
21	6.00	1.44	2.04	5.56	5.56	6.22	6.44	3.80	2.04	1.28	0.32	0.00		
22	3.58	1.28	2.04	10.02	5.56	6.00	6.66	3.80	1.82	1.28	0.16	0.00		
23	2.48	1.44	2.04	6.44	7.54	6.00	8.98	3.58	1.82	1.28	0.16	0.00		
24	2.26	3.58	1.82	4.90	5.78	5.56	7.98	3.58	1.82	1.12	0.16	1.28		
25	1.82	1.44	1.60	4.02	5.34	24.00	7.10	3.36	1.82	1.12	0.16	1.28		
26	1.82	2.26	1.60	7.32	4.68	18.24	6.44	3.36	1.82	1.12	0.16	1.12		
27	2.48	3.36	1.82	11.84	16.28	13.14	7.32	3.36	1.82	0.96	0.16	0.80		
28	6.44	7.54	1.82	11.84	11.06	14.96	6.22	3.14	1.82	0.96	0.16	0.48		
29	3.14	3.80	1.60	11.84	19.92	21.90	6.22	3.14	1.82	0.96		0.80		
30	2.26	2.04	1.28	12.88	14.96	27.00	6.22	3.14	1.82	0.96		0.64		
31		1.60		7.10	23.40		6.22		1.82	0.96		0.48		
Total	68.94	60.98	77.10	155.62	279.00	420.58	298.88	152.12	75.34	55.70	15.84	7.68	1667.78	CMSDAY
Mean	2.30	1.97	2.57	5.02	9.00	14.02	9.64	5.07	2.43	1.80	0.57	0.25	4.57	CMS
Max	6.44	7.54	7.10	12.88	23.40	27.00	24.90	10.80	3.14	6.44	0.96	1.28	27.00	CMS
Min	0.96	0.96	1.12	0.96	4.68	5.56	6.22	3.14	1.82	0.96	0.16	0.00	0.00	CMS
Runoff	5.96	5.27	6.66	13.45	24.11	36.34	25.82	13.14	6.51	4.81	1.37	0.66	144.10	MCM

Momentary Peak 39.24 CMS. at 269.94 m. (MSL.) at 06.00 Hours , on Sep 11 , 2014

Runoff Yield 4.53 Liters/Second/Square KM. Momentary Peak Yield 38.890 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

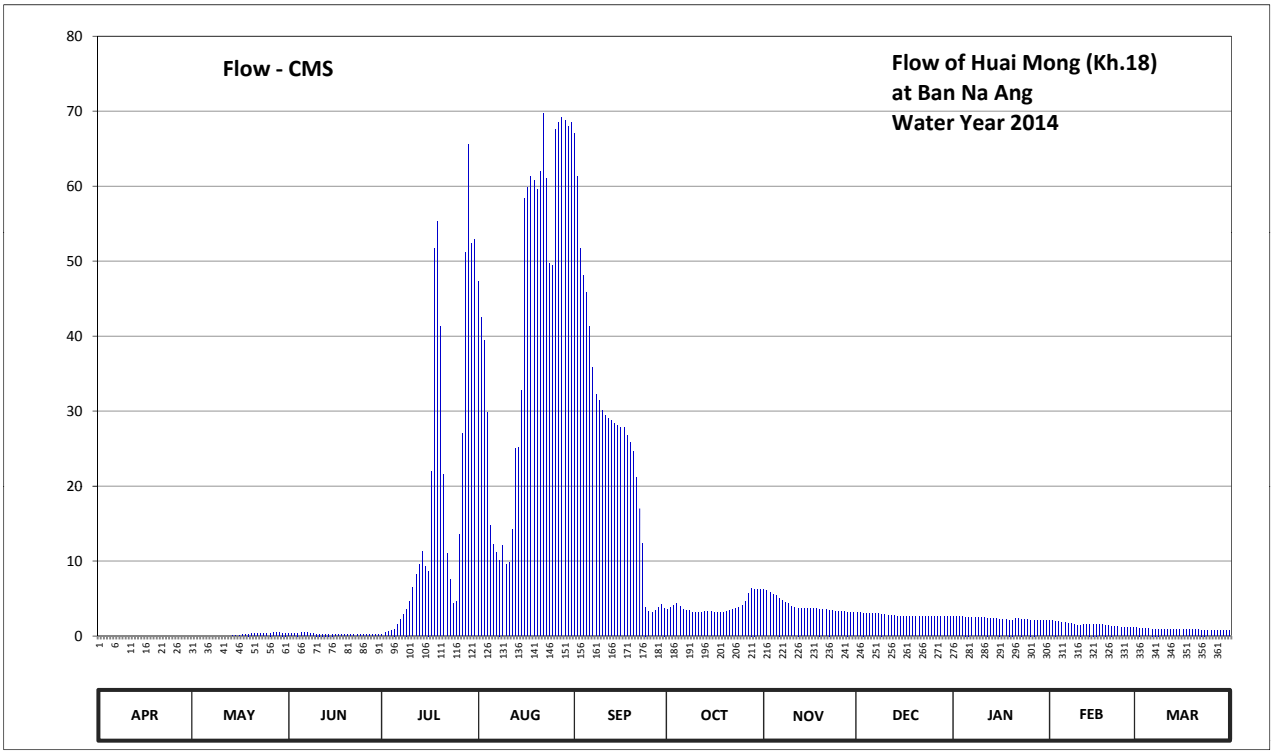
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.81	183.73	184.79	184.69	188.83	189.50	186.36	186.68	186.23	186.08	185.93	185.63	
2	183.81	183.84	184.76	184.90	188.66	189.31	186.43	186.67	186.23	186.08	185.93	185.62	
3	183.81	183.97	184.83	185.11	188.55	188.99	186.51	186.65	186.22	186.07	185.90	185.60	
4	183.81	184.06	184.87	185.33	188.13	188.86	186.53	186.63	186.21	186.07	185.87	185.57	
5	183.81	184.09	184.93	185.53	187.34	188.78	186.48	186.62	186.21	186.06	185.84	185.54	
6	183.81	184.15	184.93	185.75	187.16	188.62	186.37	186.59	186.20	186.06	185.83	185.53	
7	183.81	184.21	184.92	185.96	187.08	188.40	186.33	186.56	186.20	186.05	185.82	185.53	
8	183.81	184.27	184.83	186.17	187.01	188.24	186.31	186.54	186.19	186.05	185.79	185.52	
9	183.81	184.29	184.79	186.38	187.15	188.20	186.25	186.53	186.18	186.04	185.76	185.51	
10	183.81	184.32	184.73	186.55	186.96	188.14	186.23	186.49	186.17	186.04	185.73	185.50	
11	183.80	184.36	184.73	186.71	186.98	188.11	186.23	186.43	186.13	186.03	185.74	185.49	
12	183.80	184.38	184.73	186.85	187.30	188.09	186.23	186.42	186.13	186.02	185.75	185.48	
13	183.80	184.39	184.73	186.96	187.90	188.08	186.27	186.41	186.11	186.01	185.77	185.46	
14	183.79	184.41	184.73	187.09	187.91	188.06	186.28	186.40	186.09	186.01	185.78	185.45	
15	183.79	184.44	184.72	186.94	188.26	188.05	186.27	186.40	186.08	186.00	185.78	185.44	
16	183.79	184.54	184.68	186.89	189.21	188.04	186.24	186.40	186.08	185.98	185.78	185.43	
17	183.78	184.61	184.66	187.75	189.26	188.04	186.23	186.39	186.08	185.97	185.76	185.41	
18	183.78	184.68	184.63	188.99	189.31	187.99	186.23	186.39	186.08	185.95	185.75	185.41	
19	183.78	184.73	184.63	189.11	189.29	187.94	186.25	186.38	186.08	185.94	185.74	185.40	
20	183.78	184.75	184.63	188.62	189.25	187.88	186.28	186.37	186.08	185.94	185.73	185.40	
21	183.77	184.78	184.63	187.73	189.33	187.71	186.32	186.36	186.08	186.00	185.70	185.38	
22	183.77	184.80	184.63	187.07	189.59	187.50	186.37	186.34	186.08	185.99	185.68	185.37	
23	183.76	184.81	184.63	186.80	189.30	187.17	186.40	186.32	186.08	185.98	185.67	185.36	
24	183.76	184.83	184.63	186.53	188.92	186.46	186.45	186.30	186.08	185.97	185.66	185.34	
25	183.75	184.84	184.63	186.55	188.91	186.27	186.51	186.29	186.08	185.95	185.65	185.31	
26	183.75	184.87	184.63	187.25	189.52	186.24	186.55	186.28	186.08	185.94	185.66	185.28	
27	183.74	184.90	184.63	188.00	189.55	186.33	186.64	186.27	186.08	185.94	185.64	185.26	
28	183.74	184.92	184.62	188.97	189.57	186.43	186.70	186.26	186.08	185.93	185.63	185.25	
29	183.73	184.90	184.62	189.45	189.56	186.52	186.69	186.25	186.08	185.93		185.25	
30	183.73	184.88	184.63	189.01	189.53	186.42	186.68	186.23	186.08	185.93		185.23	
31		184.89		189.03	189.55		186.68		186.08	185.93		185.23	
Mean	183.78	184.50	184.72	187.05	188.54	187.81	186.40	186.43	186.12	186.00	185.76	185.43	
Max	183.81	184.92	184.93	189.45	189.59	189.50	186.70	186.68	186.23	186.08	185.93	185.63	189.59
Min	183.73	183.73	184.62	184.69	186.96	186.24	186.23	186.23	186.08	185.93	185.63	185.23	183.73

Annual Max Momentary Gage Height 189.73 m. (MSL.) , at 06.00 Hours , on Jul 29 , 2014

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 Area 1309 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.32	0.24	47.24	67.00	3.53	6.16	3.10	2.60	2.10	1.10		
2	0.00	0.00	0.30	0.42	42.48	61.30	3.77	6.04	3.10	2.60	2.10	1.07		
3	0.00	0.00	0.36	0.59	39.40	51.72	4.12	5.80	3.07	2.57	2.00	1.00		
4	0.00	0.00	0.39	0.77	29.86	48.08	4.36	5.56	3.03	2.57	1.90	0.98		
5	0.00	0.00	0.44	0.94	14.76	45.84	3.93	5.44	3.03	2.53	1.80	0.95		
6	0.00	0.00	0.44	1.50	12.24	41.36	3.57	5.08	3.00	2.53	1.77	0.94		
7	0.00	0.00	0.43	2.20	11.12	35.80	3.43	4.72	3.00	2.50	1.73	0.94		
8	0.00	0.00	0.36	2.90	10.14	32.28	3.37	4.48	2.97	2.50	1.63	0.93		
9	0.00	0.00	0.32	3.60	12.10	31.40	3.17	4.36	2.93	2.47	1.53	0.92		
10	0.00	0.00	0.27	4.60	9.52	30.08	3.10	3.97	2.90	2.47	1.43	0.92		
11	0.00	0.00	0.27	6.52	9.76	29.42	3.10	3.77	2.77	2.43	1.47	0.91		
12	0.00	0.00	0.27	8.20	14.20	28.98	3.10	3.73	2.77	2.40	1.50	0.90		
13	0.00	0.00	0.27	9.52	25.00	28.76	3.23	3.70	2.70	2.37	1.57	0.88		
14	0.00	0.01	0.27	11.26	25.20	28.32	3.27	3.67	2.63	2.37	1.60	0.87		
15	0.00	0.03	0.27	9.28	32.72	28.10	3.23	3.67	2.60	2.33	1.60	0.87		
16	0.00	0.12	0.23	8.68	58.30	27.88	3.13	3.67	2.60	2.27	1.60	0.86		
17	0.00	0.18	0.22	22.00	59.80	27.88	3.10	3.63	2.60	2.23	1.53	0.84		
18	0.00	0.23	0.19	51.72	61.30	26.80	3.10	3.63	2.60	2.17	1.50	0.84		
19	0.00	0.27	0.19	55.30	60.70	25.80	3.17	3.60	2.60	2.13	1.47	0.83		
20	0.00	0.29	0.19	41.36	59.50	24.60	3.27	3.57	2.60	2.13	1.43	0.83		
21	0.00	0.32	0.19	21.60	61.90	21.20	3.40	3.53	2.60	2.33	1.33	0.82		
22	0.00	0.33	0.19	10.98	69.70	17.00	3.57	3.47	2.60	2.30	1.27	0.81		
23	0.00	0.34	0.19	7.60	61.00	12.38	3.67	3.40	2.60	2.27	1.23	0.80		
24	0.00	0.36	0.19	4.36	49.76	3.87	3.83	3.33	2.60	2.23	1.20	0.78		
25	0.00	0.37	0.19	4.60	49.48	3.23	4.12	3.30	2.60	2.17	1.17	0.76		
26	0.00	0.39	0.19	13.50	67.60	3.13	4.60	3.27	2.60	2.13	1.20	0.73		
27	0.00	0.42	0.19	27.00	68.50	3.43	5.68	3.23	2.60	2.13	1.13	0.72		
28	0.00	0.43	0.18	51.16	69.10	3.77	6.40	3.20	2.60	2.10	1.10	0.71		
29	0.00	0.42	0.18	65.50	68.80	4.24	6.28	3.17	2.60	2.10		0.71		
30	0.00	0.40	0.19	52.30	67.90	3.73	6.16	3.10	2.60	2.10		0.69		
31		0.41		52.90	68.50		6.16		2.60	2.10		0.69		
Total	0.00	5.32	7.88	553.10	1337.58	797.38	121.92	121.25	85.20	72.13	42.89	26.60	3171.25	CMSDAY
Mean	0.00	0.17	0.26	17.84	43.15	26.58	3.93	4.04	2.75	2.33	1.53	0.86	8.69	CMS
Max	0.00	0.43	0.44	65.50	69.70	67.00	6.40	6.16	3.10	2.60	2.10	1.10	69.70	CMS
Min	0.00	0.00	0.18	0.24	9.52	3.13	3.10	3.10	2.60	2.10	1.10	0.69	0.00	CMS
Runoff	0.00	0.46	0.68	47.79	115.57	68.89	10.53	10.48	7.36	6.23	3.71	2.30	274.00	MCM

Momentary Peak 73.90 CMS. at 189.73 m. (MSL.) at 06.00 Hours , on Jul 29 , 2014

Runoff Yield 6.64 Liters/Second/Square KM. Momentary Peak Yield 56.455 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

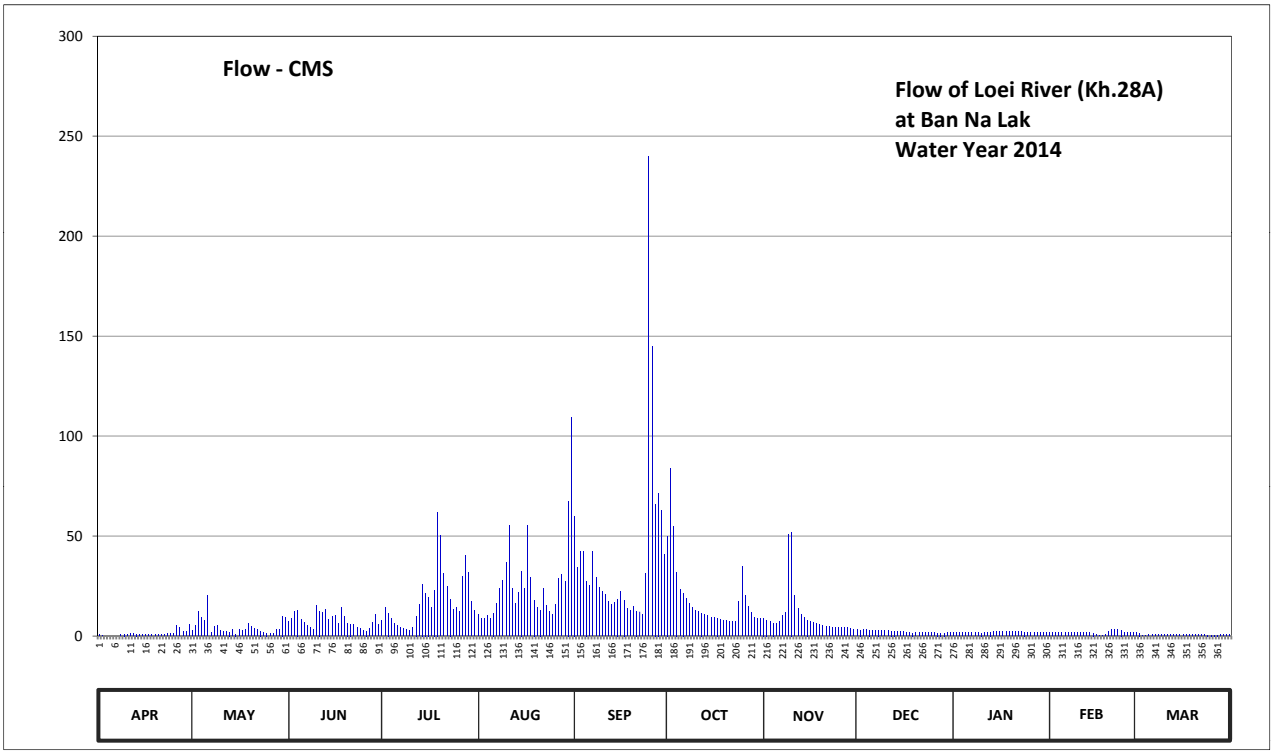
Location : on right bank at the bridge of Wang Saphung - Loei Highway.

	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 Flot	-		
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 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.25	239.38	239.67	239.70	239.84	241.38	241.15	239.76	239.42	239.31	239.31	239.32	
2	239.21	239.55	239.74	240.02	239.74	240.71	241.86	239.71	239.40	239.31	239.31	239.30	
3	239.19	239.91	239.92	239.88	239.74	240.96	241.27	239.66	239.42	239.31	239.31	239.24	
4	239.15	239.78	239.95	239.74	239.83	240.96	240.63	239.63	239.41	239.31	239.31	239.35	
5	239.15	239.69	239.72	239.62	239.75	240.48	240.34	239.62	239.40	239.31	239.31	239.97	
6	239.15	240.23	239.65	239.56	239.88	240.40	240.28	239.67	239.39	239.31	239.31	239.87	
7	239.14	239.31	239.56	239.50	240.10	240.96	240.19	239.83	239.39	239.31	239.31	239.93	
8	239.25	239.52	239.47	239.45	240.35	240.54	240.10	239.89	239.40	239.31	239.31	239.89	
9	239.27	239.55	239.41	239.41	240.49	240.37	240.01	241.17	239.39	239.31	239.32	239.89	
10	239.26	239.38	240.05	239.38	240.79	240.30	239.94	241.20	239.38	239.30	239.32	239.88	
11	239.28	239.35	239.93	239.49	241.28	240.25	239.91	240.23	239.38	239.31	239.32	239.85	
12	239.29	239.34	239.90	239.81	240.35	240.13	239.88	239.99	239.37	239.31	239.32	239.86	
13	239.27	239.33	239.96	240.07	240.10	240.08	239.85	239.85	239.37	239.33	239.32	239.83	
14	239.26	239.41	239.72	240.43	240.29	240.12	239.82	239.77	239.36	239.34	239.31	239.82	
15	239.24	239.27	239.80	240.28	240.65	240.18	239.78	239.71	239.36	239.34	239.30	239.82	
16	239.24	239.42	239.83	240.21	240.35	240.30	239.77	239.67	239.35	239.34	239.25	239.83	
17	239.24	239.38	239.62	240.01	241.28	240.16	239.76	239.64	239.32	239.34	239.21	239.91	
18	239.24	239.42	240.02	240.33	240.54	239.99	239.72	239.61	239.32	239.34	239.23	239.89	
19	239.24	239.61	239.80	241.42	240.16	239.94	239.70	239.57	239.30	239.34	239.25	239.87	
20	239.24	239.53	239.63	241.16	240.01	240.04	239.70	239.54	239.32	239.34	239.34	239.86	
21	239.24	239.46	239.60	240.60	239.95	239.93	239.68	239.53	239.32	239.34	239.43	239.83	
22	239.25	239.43	239.58	240.39	240.35	239.91	239.68	239.52	239.32	239.34	239.43	239.83	
23	239.29	239.37	239.49	240.18	240.06	239.84	239.67	239.50	239.32	239.34	239.42	239.82	
24	239.29	239.31	239.46	239.97	239.92	240.60	240.14	239.50	239.32	239.33	239.40	239.77	
25	239.29	239.30	239.39	240.01	239.84	243.94	240.72	239.49	239.32	239.32	239.32	239.75	
26	239.54	239.29	239.37	239.92	240.08	242.83	240.24	239.49	239.32	239.32	239.32	239.75	
27	239.47	239.29	239.46	240.55	240.53	241.50	240.04	239.48	239.30	239.32	239.32	239.74	
28	239.35	239.41	239.65	240.91	240.59	241.61	239.90	239.49	239.30	239.31	239.32	239.88	
29	239.36	239.43	239.84	240.62	240.47	241.44	239.78	239.45	239.30	239.31		239.86	
30	239.59	239.81	239.58	240.14	241.53	240.92	239.75	239.42	239.31	239.31		239.85	
31		239.78		239.94	242.32		239.74		239.31	239.31		239.85	
Mean	239.27	239.49	239.69	240.09	240.36	240.69	240.10	239.75	239.35	239.32	239.32	239.78	
Max	239.59	240.23	240.05	241.42	242.32	243.94	241.86	241.20	239.42	239.34	239.43	239.97	243.94
Min	239.14	239.27	239.37	239.38	239.74	239.84	239.67	239.42	239.30	239.30	239.21	239.24	239.14

Annual Max Momentary Gage Height	244.20	m. (MSL.) ,	at 09.00 Hours , on Sep 25 , 2014		
Zero Gage at Bottom Elevation	239.62	m. (MSL.) ,	River Bed	237.28	m. (MSL.)
Left Bank Elevation	253.80	m. (MSL.) ,			
Right Bank Elevation	253.82	m. (MSL.) ,	Drainage Area	1271	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	2.70	7.26	7.80	10.65	60.00	50.00	9.00	3.30	1.65	1.65	1.80		
2	0.15	5.25	8.60	14.49	8.60	34.35	84.00	8.00	3.00	1.65	1.65	1.50		
3	0.00	12.15	12.36	11.51	8.60	42.40	54.80	7.08	3.30	1.65	1.65	0.04		
4	0.00	9.40	13.00	8.60	10.44	42.40	31.97	6.54	3.15	1.65	1.65	0.15		
5	0.00	7.62	8.20	6.36	8.80	27.50	23.34	6.36	3.00	1.65	1.65	0.77		
6	0.00	20.07	6.90	5.40	11.51	25.12	21.55	7.26	2.85	1.65	1.65	0.67		
7	0.00	1.65	5.40	4.50	16.20	42.40	18.88	10.44	2.85	1.65	1.65	0.73		
8	0.75	4.80	4.05	3.75	23.64	29.29	16.20	11.72	3.00	1.65	1.65	0.69		
9	1.05	5.25	3.15	3.15	27.80	24.23	14.28	50.80	2.85	1.65	1.80	0.69		
10	0.90	2.70	15.13	2.70	36.73	22.15	12.79	52.00	2.70	1.50	1.80	0.68		
11	1.20	2.25	12.57	4.35	55.20	20.66	12.15	20.07	2.70	1.65	1.80	0.65		
12	1.35	2.10	11.93	10.01	23.64	17.09	11.51	13.85	2.55	1.65	1.80	0.66		
13	1.05	1.95	13.21	15.56	16.20	15.77	10.87	10.87	2.55	1.95	1.80	0.63		
14	0.90	3.15	8.20	26.02	21.85	16.79	10.23	9.20	2.40	2.10	1.65	0.62		
15	0.60	1.05	9.80	21.55	32.56	18.58	9.40	8.00	2.40	2.10	1.50	0.62		
16	0.60	3.30	10.44	19.47	23.64	22.15	9.20	7.26	2.25	2.10	0.75	0.63		
17	0.60	2.70	6.36	14.28	55.20	17.98	9.00	6.72	1.80	2.10	0.15	0.71		
18	0.60	3.30	14.49	23.04	29.29	13.85	8.20	6.18	1.80	2.10	0.45	0.69		
19	0.60	6.18	9.80	62.00	17.98	12.79	7.80	5.55	1.50	2.10	0.75	0.67		
20	0.60	4.95	6.54	50.40	14.28	14.92	7.80	5.10	1.80	2.10	2.10	0.66		
21	0.60	3.90	6.00	31.08	13.00	12.57	7.44	4.95	1.80	2.10	3.45	0.63		
22	0.75	3.45	5.70	24.83	23.64	12.15	7.44	4.80	1.80	2.10	3.45	0.63		
23	1.35	2.55	4.35	18.58	15.35	10.65	7.26	4.50	1.80	2.10	3.30	0.62		
24	1.35	1.65	3.90	13.43	12.36	31.08	17.39	4.50	1.80	1.95	3.00	0.57		
25	1.35	1.50	2.85	14.28	10.65	239.72	34.65	4.35	1.80	1.80	1.80	0.55		
26	5.10	1.35	2.55	12.36	15.77	145.10	20.37	4.35	1.80	1.80	1.80	0.55		
27	4.05	1.35	3.90	29.59	28.99	66.00	14.92	4.20	1.50	1.80	1.80	0.54		
28	2.25	3.15	6.90	40.40	30.78	71.50	11.93	4.35	1.50	1.65	1.80	0.68		
29	2.40	3.45	10.65	31.67	27.21	63.00	9.40	3.75	1.50	1.65		0.66		
30	5.85	10.01	5.70	17.39	67.50	40.80	8.80	3.30	1.65	1.65		0.65		
31		9.40		12.79	109.40		8.60		1.65	1.65		0.65		
Total	36.75	144.28	239.89	561.34	807.46	1212.99	572.17	305.05	70.35	56.55	49.95	20.99	4077.77	CMSDAY
Mean	1.23	4.65	8.00	18.11	26.05	40.43	18.46	10.17	2.27	1.82	1.78	0.68	11.17	CMS
Max	5.85	20.07	15.13	62.00	109.40	239.72	84.00	52.00	3.30	2.10	3.45	1.80	239.72	CMS
Min	0.00	1.05	2.55	2.70	8.60	10.65	7.26	3.30	1.50	1.50	0.15	0.04	0.00	CMS
Runoff	3.18	12.47	20.73	48.50	69.77	104.80	49.44	26.36	6.08	4.89	4.32	1.81	352.32	MCM

Momentary Peak 265.00 CMS. at 244.20 m. (MSL.) at 09.00 Hours , on Sep 25 , 2014

Runoff Yield 8.79 Liters/Second/Square KM. Momentary Peak Yield 208.497 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

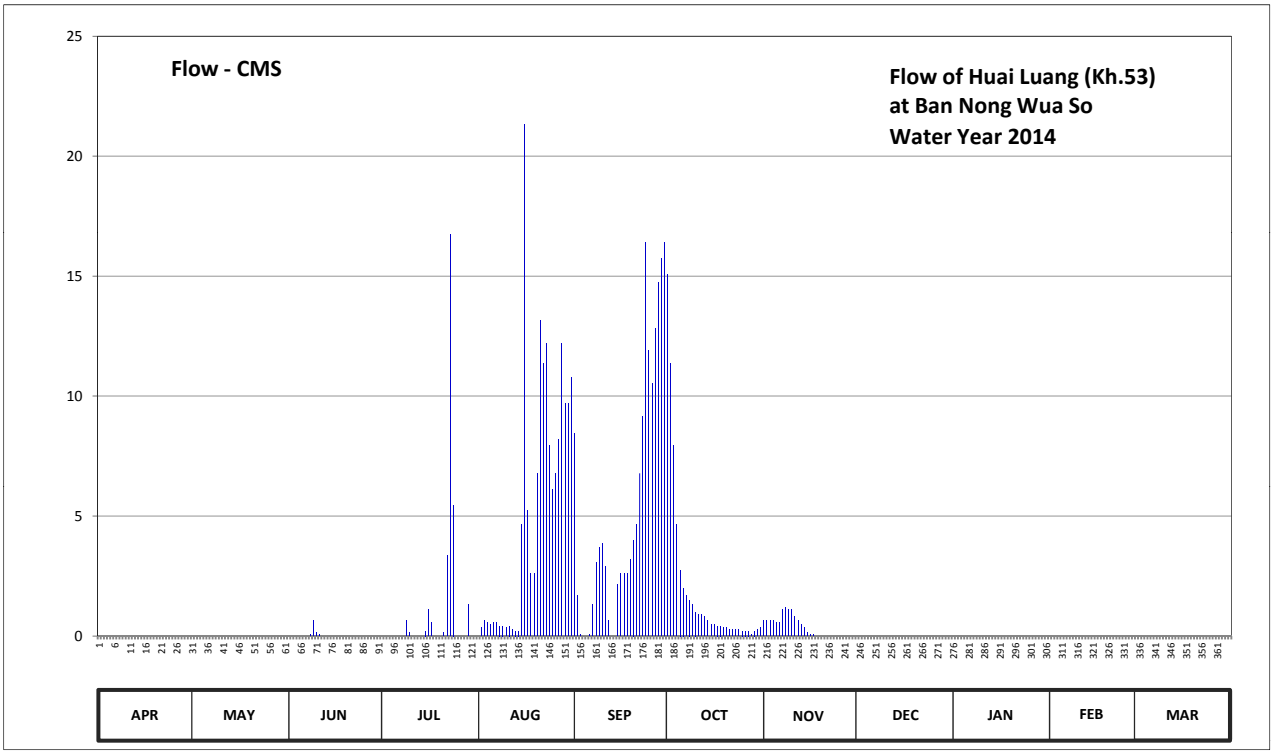
Location : on right bank at the bridge of Udon Thani - Nong Bua Lamphu Highway at guidepost 26.5

	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 Flot	-		
Rated by Current Meter	1975 - 1986 , 1997 to date		
Stability of Channel Regimes	Rather unstable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Huai Luang barrage.		
	Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.70	203.91	203.95	203.95	203.94	204.66	204.89	204.19	204.03	204.01	203.89	203.62	
2	203.70	203.92	203.98	203.97	204.15	204.30	204.77	204.19	204.03	204.01	203.86	203.64	
3	203.70	203.93	204.02	204.02	204.19	204.11	204.64	204.19	204.04	204.03	203.84	203.65	
4	203.64	203.94	204.06	204.05	204.18	204.01	204.49	204.19	204.04	204.02	203.81	203.66	
5	203.64	203.95	204.07	204.07	204.17	204.06	204.37	204.18	204.03	204.01	203.80	203.68	
6	203.63	203.95	204.06	204.07	204.18	204.11	204.32	204.18	204.03	204.01	203.77	203.70	
7	203.63	203.93	204.07	204.07	204.18	204.26	204.30	204.24	204.02	204.00	203.74	203.73	
8	203.63	203.91	204.11	204.10	204.16	204.39	204.28	204.25	204.02	203.99	203.72	203.76	
9	203.63	203.91	204.19	204.19	204.16	204.43	204.26	204.24	204.02	203.98	203.72	203.76	
10	203.62	203.95	204.12	204.12	204.15	204.44	204.23	204.24	204.02	203.98	203.71	203.76	
11	203.62	203.86	204.11	204.10	204.16	204.38	204.22	204.21	204.02	203.97	203.72	203.78	
12	203.62	203.85	204.08	204.08	204.14	204.19	204.22	204.19	204.03	203.96	203.74	203.79	
13	203.62	203.85	204.08	204.08	204.13	203.86	204.21	204.17	204.03	203.95	203.75	203.80	
14	203.62	203.88	204.08	204.08	204.13	204.02	204.19	204.15	204.03	203.94	203.74	203.81	
15	203.61	203.92	204.08	204.13	204.49	204.33	204.17	204.12	204.04	203.93	203.72	203.81	
16	203.61	203.92	204.08	204.24	205.06	204.36	204.17	204.11	204.05	203.92	203.71	203.81	
17	203.61	203.90	204.09	204.18	204.52	204.36	204.16	204.11	204.05	203.92	203.72	203.78	
18	203.61	203.89	204.09	204.09	204.36	204.36	204.16	204.09	204.06	203.94	203.71	203.77	
19	203.61	203.84	204.08	204.08	204.36	204.40	204.15	204.09	204.06	203.93	203.70	203.77	
20	203.61	203.82	204.08	204.07	204.59	204.45	204.15	204.09	204.06	203.94	203.68	203.75	
21	203.60	203.87	204.05	204.12	204.83	204.49	204.14	204.09	204.05	203.95	203.68	203.72	
22	203.60	203.90	203.98	204.41	204.77	204.59	204.14	204.08	204.04	203.97	203.69	203.72	
23	203.61	203.93	203.96	204.94	204.80	204.69	204.14	204.08	204.03	203.98	203.70	203.74	
24	203.63	203.95	203.94	204.53	204.64	204.93	204.14	204.08	204.02	204.00	203.70	203.75	
25	203.67	203.99	203.90	203.92	204.56	204.79	204.13	204.07	204.01	203.98	203.68	203.76	
26	203.68	203.97	203.89	203.89	204.59	204.74	204.13	204.05	204.02	203.95	203.68	203.78	
27	203.69	203.97	203.87	203.87	204.65	204.82	204.13	204.04	204.02	203.93	203.67	203.79	
28	203.71	203.94	203.86	204.09	204.80	204.88	204.11	204.04	204.02	203.92	203.63	203.80	
29	203.77	203.95	203.85	204.26	204.71	204.91	204.13	204.03	204.01	203.91		203.81	
30	203.91	204.00	203.84	203.86	204.71	204.93	204.14	204.03	204.01	203.90		203.82	
31		203.96		203.84	204.75		204.15		204.01	203.89		203.83	
Mean	203.65	203.92	204.02	204.11	204.43	204.44	204.25	204.13	204.03	203.96	203.73	203.75	
Max	203.91	204.00	204.19	204.94	205.06	204.93	204.89	204.25	204.06	204.03	203.89	203.83	205.06
Min	203.60	203.82	203.84	203.84	203.94	203.86	204.11	204.03	204.01	203.89	203.63	203.62	203.60

Annual Max Momentary Gage Height	205.18	m. (MSL.) ,	at 06.00 Hours , on Aug 16 , 2014		
Zero Gage at Bottom Elevation	201.31	m. (MSL.) ,	River Bed	203.41	m. (MSL.)
Left Bank Elevation	207.83	m. (MSL.) ,			
Right Bank Elevation	207.86	m. (MSL.) ,	Drainage Area	421	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	8.44	15.08	0.63	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.35	1.70	11.36	0.63	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.63	0.07	7.96	0.63	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.56	0.00	4.64	0.63	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.49	0.00	2.75	0.56	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.56	0.07	2.00	0.56	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.56	1.30	1.70	1.10	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.07	0.00	0.42	3.05	1.50	1.20	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.63	0.63	0.42	3.68	1.30	1.10	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.14	0.14	0.35	3.84	1.00	1.10	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.07	0.00	0.42	2.90	0.90	0.80	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.28	0.63	0.90	0.63	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.21	0.00	0.80	0.49	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.21	0.00	0.63	0.35	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.21	4.64	2.15	0.49	0.14	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	1.10	21.32	2.60	0.49	0.07	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.56	5.24	2.60	0.42	0.07	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	2.60	2.60	0.42	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	2.60	3.20	0.35	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	6.78	4.00	0.35	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.14	13.16	4.64	0.28	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	3.36	11.36	6.78	0.28	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	16.76	12.20	9.16	0.28	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	5.46	7.96	16.42	0.28	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	6.12	11.92	0.21	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	6.78	10.52	0.21	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	8.20	12.84	0.21	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	12.20	14.76	0.07	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	1.30	9.68	15.74	0.21	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	9.68	16.42	0.28	0.00	0.00	0.00		0.00		
31		0.00		0.00	10.80		0.35		0.00	0.00		0.00		
Total	0.00	0.00	0.91	29.66	156.78	162.03	57.70	10.69	0.00	0.00	0.00	0.00	417.77	CMSDAY
Mean	0.00	0.00	0.03	0.96	5.06	5.40	1.86	0.36	0.00	0.00	0.00	0.00	1.14	CMS
Max	0.00	0.00	0.63	16.76	21.32	16.42	15.08	1.20	0.00	0.00	0.00	0.00	21.32	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.08	2.56	13.55	14.00	4.99	0.92	0.00	0.00	0.00	0.00	36.10	MCM

Momentary Peak 26.52 CMS. at 205.18 m. (MSL.) at 06.00 Hours , on Aug 16 , 2014

Runoff Yield 2.72 Liters/Second/Square KM. Momentary Peak Yield 62.993 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Nam Un at Ban Na Wa , Nakhon Phanom (Kh.54)

Lat 17 - 29 - 33 N Long 104 - 06 - 50 E

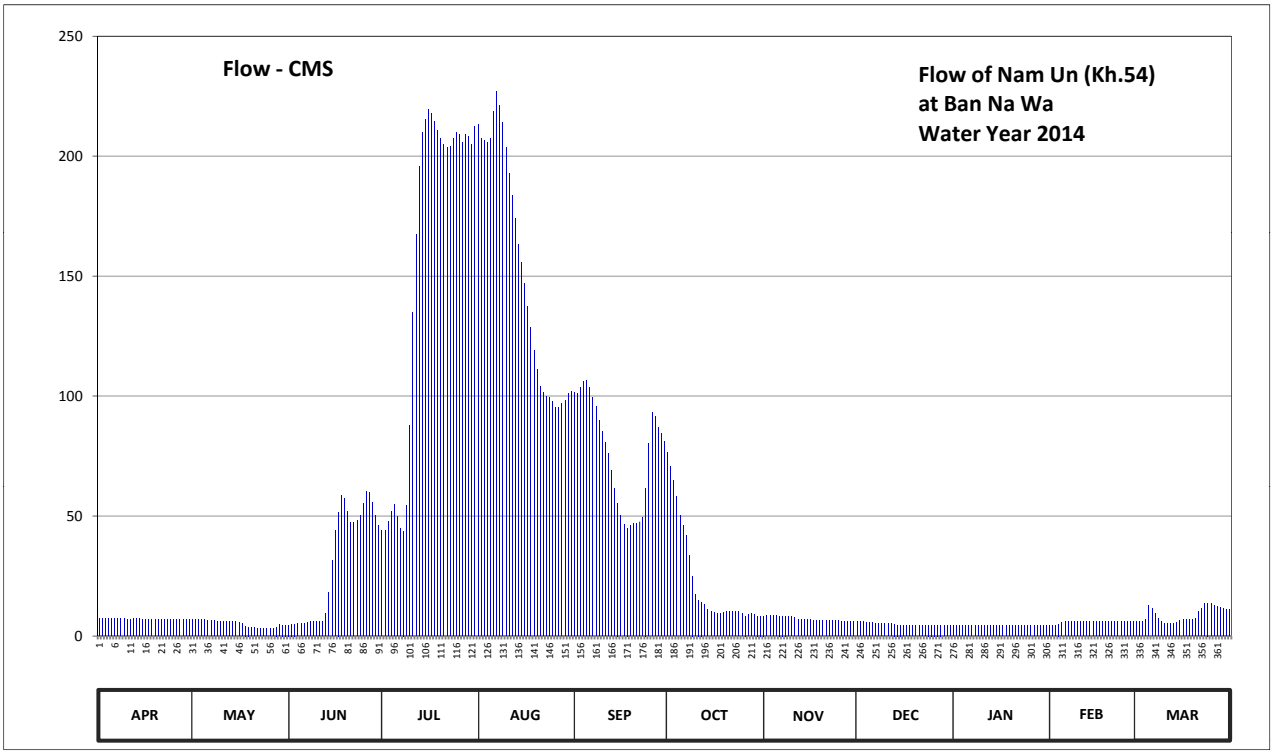
Location : on left bank at Ban Na Wa.

	Ban Na Wa	**Amphoe** Na Wa	**Changwat** Nakhon Phanom
Drainge Area	3,123 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+138.050 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the footpath of the bridge.		**Elevation** +149.914 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	1970 to date		
Rated by Flot	-		
Rated by Current Meter	1970 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.87	140.85	140.73	142.29	146.90	144.99	144.17	140.91	140.81	140.72	140.72	140.80	
2	140.87	140.85	140.75	142.31	146.83	144.98	143.90	140.92	140.81	140.72	140.72	140.80	
3	140.87	140.85	140.75	142.67	146.82	145.04	143.61	140.92	140.80	140.72	140.72	140.80	
4	140.87	140.85	140.76	142.96	146.81	145.10	143.27	140.92	140.79	140.72	140.75	140.84	
5	140.87	140.85	140.77	143.10	146.83	145.11	142.84	140.92	140.78	140.72	140.79	141.04	
6	140.87	140.83	140.77	142.83	146.97	145.04	142.51	140.91	140.78	140.72	140.80	141.01	
7	140.87	140.83	140.79	142.37	147.06	144.94	141.99	140.91	140.77	140.72	140.80	140.95	
8	140.86	140.83	140.80	142.28	147.00	144.84	141.49	140.91	140.77	140.72	140.80	140.86	
9	140.86	140.81	140.80	143.09	146.91	144.70	141.34	140.90	140.77	140.72	140.80	140.81	
10	140.85	140.80	140.80	144.63	146.78	144.53	141.16	140.90	140.77	140.72	140.80	140.77	
11	140.85	140.80	140.80	145.76	146.64	144.34	141.10	140.88	140.77	140.72	140.80	140.77	
12	140.86	140.80	140.81	146.28	146.51	144.14	141.08	140.85	140.77	140.72	140.80	140.77	
13	140.86	140.80	140.95	146.68	146.37	143.82	141.05	140.85	140.75	140.72	140.80	140.76	
14	140.86	140.80	141.18	146.86	146.22	143.44	141.00	140.85	140.73	140.72	140.80	140.78	
15	140.85	140.80	141.46	146.93	146.11	143.14	140.97	140.84	140.73	140.72	140.80	140.82	
16	140.85	140.79	142.30	146.98	145.97	142.84	140.96	140.84	140.72	140.72	140.80	140.84	
17	140.84	140.76	142.94	146.96	145.81	142.56	140.95	140.83	140.72	140.72	140.80	140.84	
18	140.84	140.71	143.29	146.92	145.63	142.40	140.95	140.83	140.72	140.72	140.80	140.85	
19	140.84	140.69	143.24	146.87	145.41	142.52	140.96	140.83	140.72	140.72	140.80	140.85	
20	140.84	140.68	142.96	146.83	145.22	142.59	140.97	140.82	140.72	140.72	140.80	140.87	
21	140.84	140.68	142.64	146.80	145.05	142.60	140.97	140.82	140.72	140.72	140.80	140.98	
22	140.84	140.66	142.63	146.78	144.99	142.67	140.97	140.83	140.72	140.72	140.80	141.01	
23	140.84	140.66	142.70	146.79	144.95	142.79	140.97	140.83	140.72	140.72	140.80	141.06	
24	140.84	140.65	142.84	146.83	144.94	143.45	140.97	140.83	140.73	140.72	140.80	141.07	
25	140.84	140.65	143.13	146.86	144.89	144.33	140.95	140.82	140.73	140.72	140.80	141.06	
26	140.84	140.65	143.38	146.85	144.83	144.78	140.91	140.81	140.73	140.72	140.80	141.04	
27	140.84	140.65	143.35	146.81	144.83	144.74	140.93	140.81	140.73	140.72	140.80	141.03	
28	140.85	140.69	143.15	146.85	144.87	144.60	140.95	140.81	140.73	140.72	140.80	141.02	
29	140.85	140.74	142.85	146.84	144.91	144.50	140.93	140.81	140.72	140.72		141.01	
30	140.85	140.73	142.52	146.80	144.98	144.36	140.91	140.81	140.72	140.72		141.00	
31		140.73		146.89	145.00		140.91		140.72	140.72		141.00	
Mean	140.85	140.76	141.89	145.51	145.90	144.00	141.50	140.86	140.75	140.72	140.79	140.91	
Max	140.87	140.85	143.38	146.98	147.06	145.11	144.17	140.92	140.81	140.72	140.80	141.07	147.06
Min	140.84	140.65	140.73	142.28	144.83	142.40	140.91	140.81	140.72	140.72	140.72	140.76	140.65

Annual Max Momentary Gage Height	147.07	m. (MSL.) ,	at 06.00 Hours , on Aug 7 , 2014		
Zero Gage at Bottom Elevation	138.05	m. (MSL.) ,	River Bed	138.87	m. (MSL.)
Left Bank Elevation	149.75	m. (MSL.) ,			
Right Bank Elevation	149.66	m. (MSL.) ,	Drainage Area	3123	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.40	7.00	4.60	43.90	213.00	101.60	76.61	8.30	6.20	4.40	4.40	6.00		
2	7.40	7.00	5.00	44.10	207.40	101.20	70.70	8.60	6.20	4.40	4.40	6.00		
3	7.40	7.00	5.00	47.70	206.60	103.68	64.90	8.60	6.00	4.40	4.40	6.00		
4	7.40	7.00	5.20	52.02	205.80	106.20	58.10	8.60	5.80	4.40	5.00	6.80		
5	7.40	7.00	5.40	54.70	207.40	106.62	50.10	8.60	5.60	4.40	5.80	12.60		
6	7.40	6.60	5.40	49.95	218.60	103.68	46.10	8.30	5.60	4.40	6.00	11.40		
7	7.40	6.60	5.80	44.70	227.00	99.60	41.95	8.30	5.40	4.40	6.00	9.50		
8	7.20	6.60	6.00	43.80	221.00	95.60	33.40	8.30	5.40	4.40	6.00	7.20		
9	7.20	6.20	6.00	54.50	213.80	90.00	25.00	8.00	5.40	4.40	6.00	6.20		
10	7.00	6.00	6.00	87.90	203.40	85.25	17.40	8.00	5.40	4.40	6.00	5.40		
11	7.00	6.00	6.00	135.00	192.80	80.56	15.00	7.60	5.40	4.40	6.00	5.40		
12	7.20	6.00	6.20	167.60	183.70	75.92	14.20	7.00	5.40	4.40	6.00	5.40		
13	7.20	6.00	9.50	195.60	173.90	69.10	13.00	7.00	5.00	4.40	6.00	5.20		
14	7.20	6.00	18.20	209.80	163.40	61.50	11.00	7.00	4.60	4.40	6.00	5.60		
15	7.00	6.00	31.60	215.40	155.70	55.50	10.10	6.80	4.60	4.40	6.00	6.40		
16	7.00	5.80	44.00	219.40	147.20	50.10	9.80	6.80	4.40	4.40	6.00	6.80		
17	6.80	5.20	51.68	217.80	137.60	46.60	9.50	6.60	4.40	4.40	6.00	6.80		
18	6.80	4.20	58.50	214.60	128.85	45.00	9.50	6.60	4.40	4.40	6.00	7.00		
19	6.80	3.80	57.50	210.60	119.22	46.20	9.80	6.60	4.40	4.40	6.00	7.00		
20	6.80	3.60	52.02	207.40	111.24	46.90	10.10	6.40	4.40	4.40	6.00	7.40		
21	6.80	3.60	47.40	205.00	104.10	47.00	10.10	6.40	4.40	4.40	6.00	10.40		
22	6.80	3.20	47.30	203.40	101.60	47.70	10.10	6.60	4.40	4.40	6.00	11.40		
23	6.80	3.20	48.00	204.20	100.00	49.35	10.10	6.60	4.40	4.40	6.00	13.40		
24	6.80	3.00	50.10	207.40	99.60	61.70	10.10	6.60	4.60	4.40	6.00	13.80		
25	6.80	3.00	55.30	209.80	97.60	80.32	9.50	6.40	4.60	4.40	6.00	13.40		
26	6.80	3.00	60.30	209.00	95.20	93.20	8.30	6.20	4.60	4.40	6.00	12.60		
27	6.80	3.00	59.70	205.80	95.20	91.60	8.90	6.20	4.60	4.40	6.00	12.20		
28	7.00	3.80	55.70	209.00	96.80	87.00	9.50	6.20	4.60	4.40	6.00	11.80		
29	7.00	4.80	50.25	208.20	98.40	84.50	8.90	6.20	4.40	4.40		11.40		
30	7.00	4.60	46.20	205.00	101.20	81.04	8.30	6.20	4.40	4.40		11.00		
31		4.60		212.20	102.00		8.30		4.40	4.40		11.00		
Total	211.60	159.40	909.85	4795.47	4729.31	2294.22	698.36	215.60	153.40	136.40	162.00	272.50	14738.11	CMSDAY
Mean	7.05	5.14	30.33	154.69	152.56	76.47	22.53	7.19	4.95	4.40	5.79	8.79	40.38	CMS
Max	7.40	7.00	60.30	219.40	227.00	106.62	76.61	8.60	6.20	4.40	6.00	13.80	227.00	CMS
Min	6.80	3.00	4.60	43.80	95.20	45.00	8.30	6.20	4.40	4.40	4.40	5.20	3.00	CMS
Runoff	18.28	13.77	78.61	414.33	408.61	198.22	60.34	18.63	13.25	11.79	14.00	23.54	1273.37	MCM

Momentary Peak 228.00 CMS. at 147.07 m. (MSL.) at 06.00 Hours , on Aug 7 , 2014

Runoff Yield 12.93 Liters/Second/Square KM. Momentary Peak Yield 73.007 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Pak Un , Nakhon Phanom (Kh.55)

Lat 17 - 38 - 10 N Long 104 - 15 - 04 E

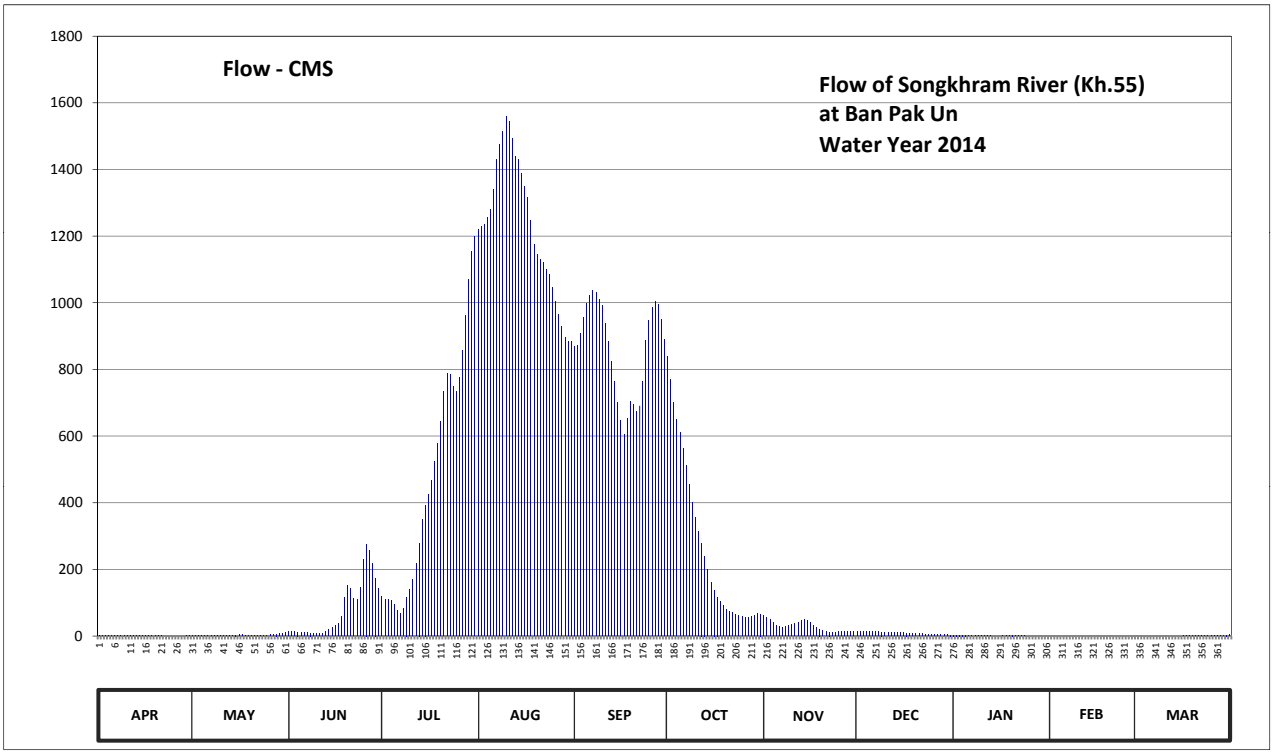
Location : on right bank at Ban Pak Un.

	Ban Pak Un	**Amphoe** Si Songkhram	**Changwat** Nakhon Phanom
Drainge Area	12,328 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+132.220 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank near the gage site.		**Elevation** +147.734 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	1976 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.24	135.10	135.85	137.87	143.55	142.50	142.39	137.02	135.95	135.42	134.83	134.42	
2	135.22	135.13	135.88	137.73	143.57	142.51	142.15	136.91	135.92	135.40	134.78	134.42	
3	135.20	135.14	135.87	137.74	143.59	142.62	141.88	136.78	135.90	135.40	134.74	134.40	
4	135.20	135.16	135.83	137.72	143.64	142.77	141.67	136.64	135.89	135.39	134.70	134.40	
5	135.18	135.15	135.78	137.55	143.70	142.90	141.49	136.50	135.89	135.38	134.67	134.40	
6	135.16	135.15	135.75	137.28	143.85	142.98	141.24	136.37	135.90	135.35	134.67	134.39	
7	135.16	135.16	135.75	137.11	144.07	143.02	140.98	136.34	135.88	135.32	134.67	134.37	
8	135.15	135.20	135.71	137.38	144.17	143.00	140.64	136.38	135.85	135.29	134.66	134.34	
9	135.18	135.23	135.66	137.84	144.26	142.94	140.29	136.46	135.82	135.25	134.66	134.32	
10	135.18	135.19	135.64	138.11	144.36	142.88	139.96	136.54	135.78	135.21	134.64	134.32	
11	135.17	135.11	135.62	138.48	144.33	142.71	139.65	136.60	135.78	135.16	134.61	134.34	
12	135.20	135.09	135.66	138.90	144.21	142.54	139.40	136.66	135.79	135.12	134.58	134.37	
13	135.23	135.18	135.87	139.40	144.09	142.34	139.08	136.74	135.78	135.06	134.54	134.46	
14	135.26	135.30	136.13	139.92	144.07	142.13	138.73	136.78	135.76	135.01	134.51	134.64	
15	135.28	135.41	136.29	140.23	143.97	141.89	138.36	136.73	135.73	134.97	134.50	134.89	
16	135.30	135.47	136.49	140.45	143.87	141.65	138.10	136.64	135.72	134.98	134.47	135.17	
17	135.28	135.44	136.59	140.71	143.79	141.47	137.84	136.48	135.71	135.03	134.49	135.28	
18	135.23	135.37	136.96	141.05	143.62	141.68	137.67	136.31	135.69	135.13	134.52	135.32	
19	135.18	135.31	137.83	141.33	143.43	141.90	137.51	136.16	135.66	135.28	134.56	135.32	
20	135.13	135.32	138.26	141.64	143.34	141.86	137.33	136.03	135.63	135.40	134.60	135.30	
21	135.09	135.34	138.14	142.02	143.30	141.77	137.23	135.93	135.62	135.37	134.63	135.26	
22	135.00	135.34	137.79	142.21	143.27	141.84	137.15	135.83	135.60	135.30	134.61	135.23	
23	134.94	135.31	137.75	142.20	143.21	142.13	137.08	135.78	135.56	135.17	134.57	135.22	
24	134.84	135.30	138.18	142.08	143.16	142.55	137.02	135.80	135.54	135.07	134.51	135.22	
25	134.77	135.34	138.99	142.02	143.05	142.74	136.94	135.87	135.52	134.99	134.46	135.22	
26	134.75	135.44	139.37	142.17	142.92	142.86	136.91	135.91	135.51	134.94	134.43	135.22	
27	134.82	135.54	139.22	142.46	142.80	142.92	136.90	135.93	135.52	134.92	134.43	135.22	
28	134.94	135.58	138.90	142.79	142.69	142.89	136.95	135.92	135.50	134.90	134.41	135.25	
29	135.03	135.61	138.52	143.12	142.58	142.75	137.03	135.92	135.48	134.88		135.33	
30	135.07	135.67	138.14	143.37	142.54	142.56	137.11	135.94	135.46	134.86		135.40	
31		135.78		143.50	142.54		137.09		135.43	134.86		135.47	
Mean	135.11	135.32	136.95	140.21	143.53	142.44	138.83	136.33	135.70	135.16	134.59	134.87	
Max	135.30	135.78	139.37	143.50	144.36	143.02	142.39	137.02	135.95	135.42	134.83	135.47	144.36
Min	134.75	135.09	135.62	137.11	142.54	141.47	136.90	135.78	135.43	134.86	134.41	134.32	134.32

Annual Max Momentary Gage Height	144.37	m. (MSL.) ,	at 18.00 Hours , on Aug 10 , 2014		
Zero Gage at Bottom Elevation	132.22	m. (MSL.) ,	River Bed	131.66	m. (MSL.)
Left Bank Elevation	147.41	m. (MSL.) ,			
Right Bank Elevation	146.18	m. (MSL.) ,	Drainage Area	12328	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.92	0.80	12.40	119.60	1220.00	870.00	838.76	62.16	14.80	3.36	0.00	0.00		
2	1.76	1.04	13.12	108.40	1228.00	873.20	770.60	55.78	14.08	3.20	0.00	0.00		
3	1.60	1.12	12.88	109.20	1236.00	908.40	700.16	48.24	13.60	3.20	0.00	0.00		
4	1.60	1.28	11.92	107.60	1256.00	956.40	651.44	40.12	13.36	3.12	0.00	0.00		
5	1.44	1.20	10.72	94.00	1280.00	998.00	610.08	32.00	13.36	3.04	0.00	0.00		
6	1.28	1.20	10.00	77.24	1340.00	1023.60	562.08	27.84	13.60	2.80	0.00	0.00		
7	1.28	1.28	10.00	67.38	1430.80	1036.80	512.64	26.88	13.12	2.56	0.00	0.00		
8	1.20	1.60	9.04	83.04	1474.80	1030.00	455.52	28.16	12.40	2.32	0.00	0.00		
9	1.44	1.84	7.84	117.20	1514.40	1010.80	401.76	30.72	11.68	2.00	0.00	0.00		
10	1.44	1.52	7.36	139.24	1558.40	991.60	354.56	34.32	10.72	1.68	0.00	0.00		
11	1.36	0.88	6.88	170.32	1545.20	937.20	312.40	37.80	10.72	1.28	0.00	0.00		
12	1.60	0.72	7.84	218.40	1492.40	882.80	279.60	41.28	10.96	0.96	0.00	0.00		
13	1.84	1.44	12.88	279.60	1439.60	824.56	239.92	45.92	10.72	0.48	0.00	0.00		
14	2.08	2.40	20.16	349.12	1430.80	764.92	198.68	48.24	10.24	0.08	0.00	0.00		
15	2.24	3.28	25.28	393.12	1388.00	702.48	160.24	45.34	9.52	0.00	0.00	0.00		
16	2.40	3.76	31.68	424.80	1348.00	646.80	138.40	40.12	9.28	0.00	0.00	1.36		
17	2.24	3.52	37.22	467.28	1316.00	606.24	117.20	31.36	9.04	0.24	0.00	2.24		
18	1.84	2.96	58.68	525.60	1248.00	653.76	103.60	25.92	8.56	1.04	0.00	2.56		
19	1.44	2.48	116.40	579.36	1176.20	704.80	90.80	21.12	7.84	2.24	0.00	2.56		
20	1.04	2.56	151.84	644.48	1145.60	695.52	80.14	16.96	7.12	3.20	0.00	2.40		
21	0.72	2.72	141.76	733.68	1132.00	674.64	74.34	14.32	6.88	2.96	0.00	2.08		
22	0.00	2.72	113.20	787.64	1121.80	690.88	69.70	11.92	6.40	2.40	0.00	1.84		
23	0.00	2.48	110.00	784.80	1101.40	764.92	65.64	10.72	5.44	1.36	0.00	1.76		
24	0.00	2.40	145.12	750.72	1084.40	886.00	62.16	11.20	4.96	0.56	0.00	1.76		
25	0.00	2.72	228.84	733.68	1047.00	946.80	57.52	12.88	4.48	0.00	0.00	1.76		
26	0.00	3.52	275.88	776.28	1004.40	985.20	55.78	13.84	4.24	0.00	0.00	1.76		
27	0.00	4.96	257.28	858.64	966.00	1004.40	55.20	14.32	4.48	0.00	0.00	1.76		
28	0.00	5.92	218.40	962.80	930.80	994.80	58.10	14.08	4.00	0.00	0.00	2.00		
29	0.24	6.64	174.32	1070.80	895.60	950.00	62.74	14.08	3.84	0.00		2.64		
30	0.56	8.08	141.76	1155.80	882.80	889.20	67.38	14.56	3.68	0.00		3.20		
31		10.72		1200.00	882.80		66.22		3.44	0.00		3.76		
Total	34.56	89.76	2380.70	14889.82	38117.20	25904.72	8273.36	872.20	276.56	44.08	0.00	35.44	90918.41	CMSDAY
Mean	1.15	2.90	79.36	480.32	1229.59	863.49	266.88	29.07	8.92	1.42	0.00	1.14	249.09	CMS
Max	2.40	10.72	275.88	1200.00	1558.40	1036.80	838.76	62.16	14.80	3.36	0.00	3.76	1558.40	CMS
Min	0.00	0.72	6.88	67.38	882.80	606.24	55.20	10.72	3.44	0.00	0.00	0.00	0.00	CMS
Runoff	2.99	7.76	205.69	1286.48	3293.33	2238.17	714.82	75.36	23.90	3.81	0.00	3.06	7855.35	MCM

Momentary Peak 1562.80 CMS. at 144.37 m. (MSL.) at 18.00 Hours , on Aug 10 , 2014

Runoff Yield 20.21 Liters/Second/Square KM. Momentary Peak Yield 126.768 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

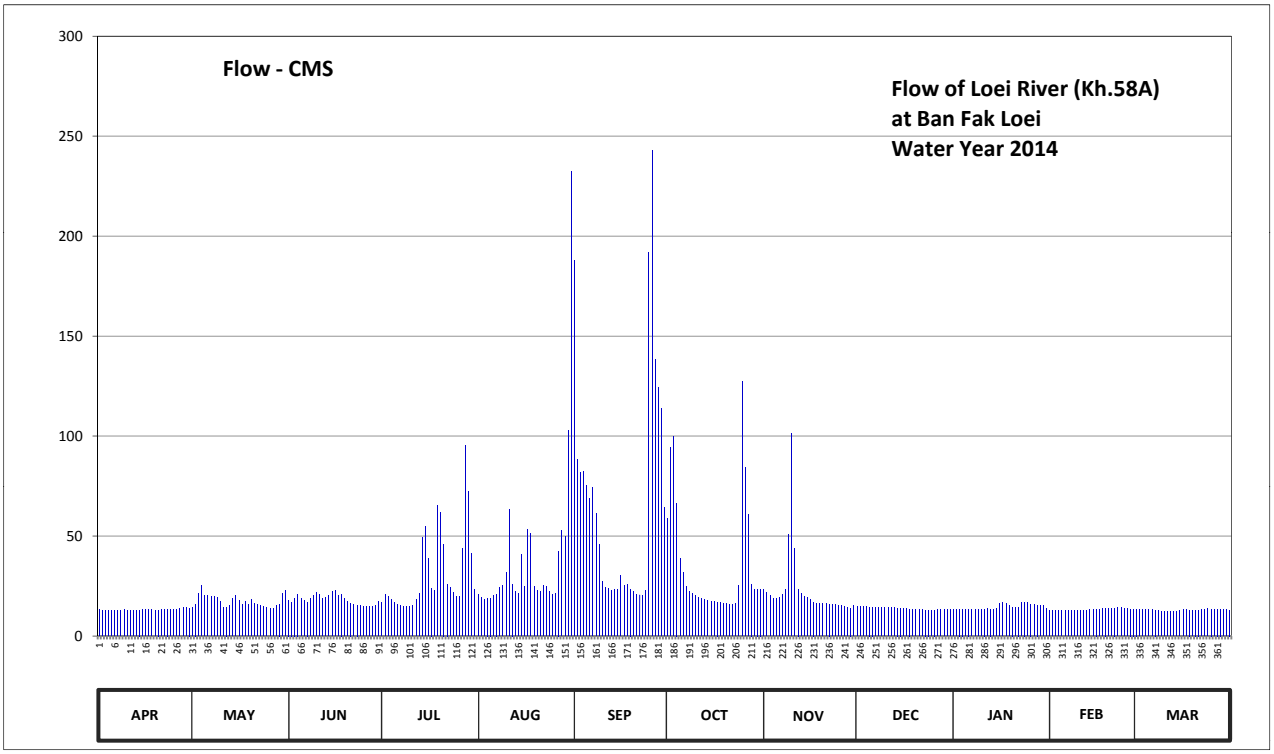
Location : on left bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	1990 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 96 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.06	230.17	230.49	230.39	230.74	233.66	231.74	230.96	230.22	230.06	230.04	230.09	
2	230.04	230.31	230.40	230.73	230.60	232.31	232.41	230.82	230.20	230.08	230.04	230.08	
3	230.04	230.79	230.58	230.64	230.52	232.20	232.50	230.69	230.19	230.09	230.03	230.08	
4	230.03	231.12	230.76	230.53	230.58	232.21	231.92	230.57	230.19	230.09	230.03	230.08	
5	230.03	230.70	230.57	230.37	230.58	232.09	231.29	230.56	230.18	230.08	230.03	230.07	
6	230.03	230.68	230.46	230.30	230.69	231.97	231.24	230.59	230.18	230.09	230.03	230.07	
7	230.04	230.64	230.40	230.26	230.76	232.07	231.11	230.75	230.17	230.08	230.03	230.05	
8	230.03	230.65	230.55	230.22	231.03	231.80	230.86	230.97	230.17	230.08	230.02	230.02	
9	230.06	230.59	230.70	230.20	231.12	231.43	230.78	231.55	230.16	230.08	230.02	229.98	
10	230.03	230.43	230.82	230.19	231.24	231.21	230.68	232.52	230.15	230.08	230.01	229.97	
11	230.03	230.15	230.75	230.25	231.84	231.06	230.59	231.39	230.15	230.09	230.01	229.98	
12	230.03	230.18	230.56	230.50	231.20	231.01	230.57	230.98	230.15	230.10	230.02	229.97	
13	230.03	230.26	230.59	230.79	230.87	230.92	230.53	230.77	230.14	230.09	230.02	229.96	
14	230.05	230.56	230.68	231.52	230.77	230.97	230.47	230.66	230.13	230.08	230.06	229.97	
15	230.06	230.69	230.87	231.65	231.32	230.96	230.42	230.59	230.13	230.12	230.08	230.02	
16	230.07	230.45	230.90	231.29	231.10	231.23	230.41	230.53	230.12	230.32	230.09	230.07	
17	230.07	230.28	230.69	231.02	231.61	231.15	230.40	230.40	230.10	230.37	230.08	230.06	
18	230.06	230.41	230.76	230.90	231.56	231.17	230.37	230.35	230.09	230.33	230.11	230.05	
19	230.04	230.28	230.56	231.89	231.11	230.98	230.34	230.34	230.08	230.24	230.13	230.04	
20	230.05	230.53	230.44	231.81	230.92	230.88	230.32	230.33	230.07	230.18	230.10	230.05	
21	230.06	230.32	230.36	231.44	230.89	230.75	230.30	230.32	230.06	230.14	230.10	230.05	
22	230.06	230.29	230.30	231.20	231.12	230.72	230.28	230.31	230.06	230.18	230.13	230.06	
23	230.09	230.25	230.27	231.03	231.09	230.71	230.35	230.30	230.05	230.37	230.17	230.08	
24	230.07	230.22	230.24	230.82	230.86	230.92	231.12	230.29	230.05	230.40	230.15	230.10	
25	230.06	230.14	230.22	230.65	230.74	233.71	232.89	230.26	230.04	230.37	230.10	230.09	
26	230.08	230.10	230.22	230.66	230.79	234.31	232.24	230.25	230.05	230.31	230.11	230.08	
27	230.10	230.11	230.20	231.39	231.36	233.04	231.79	230.22	230.08	230.29	230.09	230.09	
28	230.14	230.23	230.19	232.42	231.60	232.85	231.20	230.15	230.07	230.27	230.09	230.09	
29	230.15	230.31	230.24	232.04	231.53	232.70	230.97	230.13	230.07	230.25		230.08	
30	230.13	230.77	230.44	231.33	232.54	231.87	230.98	230.24	230.07	230.23		230.07	
31		230.93		230.97	234.19		230.98		230.06	230.12		230.05	
Mean	230.06	230.44	230.51	230.95	231.19	231.76	231.03	230.63	230.12	230.18	230.07	230.05	
Max	230.15	231.12	230.90	232.42	234.19	234.31	232.89	232.52	230.22	230.40	230.17	230.10	234.31
Min	230.03	230.10	230.19	230.19	230.52	230.71	230.28	230.13	230.04	230.06	230.01	229.96	229.96

Annual Max Momentary Gage Height	234.59	m. (MSL.) ,	at 02.00 Hours , on Sep 26 , 2014		
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 Area	3093	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.17	14.41	18.01	16.89	20.83	187.80	58.86	23.30	14.97	13.17	12.95	13.51		
2	12.95	15.99	17.00	20.71	19.25	88.60	94.60	21.73	14.75	13.40	12.95	13.40		
3	12.95	21.39	19.03	19.70	18.35	82.00	100.00	20.26	14.64	13.51	12.84	13.40		
4	12.84	25.10	21.05	18.46	19.03	82.60	66.57	18.91	14.64	13.51	12.84	13.40		
5	12.84	20.37	18.91	16.66	19.03	75.40	38.60	18.80	14.52	13.40	12.84	13.29		
6	12.84	20.15	17.68	15.88	20.26	68.71	31.60	19.14	14.52	13.51	12.84	13.29		
7	12.95	19.70	17.00	15.42	21.05	74.20	24.99	20.94	14.41	13.40	12.84	13.06		
8	12.84	19.81	18.69	14.97	24.09	61.43	22.18	23.41	14.41	13.40	12.73	12.73		
9	13.17	19.14	20.37	14.75	25.10	45.57	21.27	50.71	14.30	13.40	12.73	12.27		
10	12.84	17.34	21.73	14.64	31.60	27.40	20.15	101.40	14.19	13.40	12.61	12.16		
11	12.84	14.19	20.94	15.31	63.14	24.42	19.14	43.86	14.19	13.51	12.61	12.27		
12	12.84	14.52	18.80	18.12	26.00	23.86	18.91	23.52	14.19	13.63	12.73	12.16		
13	12.84	15.42	19.14	21.39	22.29	22.85	18.46	21.16	14.07	13.51	12.73	12.05		
14	13.06	18.80	20.15	49.43	21.16	23.41	17.79	19.93	13.96	13.40	13.17	12.16		
15	13.17	20.26	22.29	55.00	40.86	23.30	17.22	19.14	13.96	13.85	13.40	12.73		
16	13.29	17.56	22.62	38.60	24.88	30.20	17.11	18.46	13.85	16.10	13.51	13.29		
17	13.29	15.65	20.26	23.98	53.29	25.44	17.00	17.00	13.63	16.66	13.40	13.17		
18	13.17	17.11	21.05	22.62	51.14	25.66	16.66	16.44	13.51	16.21	13.74	13.06		
19	12.95	15.65	18.80	65.29	24.99	23.52	16.32	16.32	13.40	15.20	13.96	12.95		
20	13.06	18.46	17.45	61.86	22.85	22.40	16.10	16.21	13.29	14.52	13.63	13.06		
21	13.17	16.10	16.55	46.00	22.51	20.94	15.88	16.10	13.17	14.07	13.63	13.06		
22	13.17	15.76	15.88	26.00	25.10	20.60	15.65	15.99	13.17	14.52	13.96	13.17		
23	13.51	15.31	15.54	24.09	24.76	20.49	16.44	15.88	13.06	16.66	14.41	13.40		
24	13.29	14.97	15.20	21.73	22.18	22.85	25.10	15.76	13.06	17.00	14.19	13.63		
25	13.17	14.07	14.97	19.81	20.83	191.80	127.30	15.42	12.95	16.66	13.63	13.51		
26	13.40	13.63	14.97	19.93	21.39	242.90	84.40	15.31	13.06	15.99	13.74	13.40		
27	13.63	13.74	14.75	43.86	42.57	138.20	61.00	14.97	13.40	15.76	13.51	13.51		
28	14.07	15.09	14.64	95.20	52.86	124.50	26.00	14.19	13.29	15.54	13.51	13.51		
29	14.19	15.99	15.20	72.40	49.86	114.00	23.41	13.96	13.29	15.31		13.40		
30	13.96	21.16	17.45	41.29	102.80	64.43	23.52	15.20	13.29	15.09		13.29		
31		22.96		23.41	232.10		23.52		13.17	13.85		13.06		
Total	395.46	539.80	546.12	973.40	1186.15	1999.48	1095.75	683.42	428.31	451.14	371.63	404.35	9075.01	CMSDAY
Mean	13.18	17.41	18.20	31.40	38.26	66.65	35.35	22.78	13.82	14.55	13.27	13.04	24.86	CMS
Max	14.19	25.10	22.62	95.20	232.10	242.90	127.30	101.40	14.97	17.00	14.41	13.63	242.90	CMS
Min	12.84	13.63	14.64	14.64	18.35	20.49	15.65	13.96	12.95	13.17	12.61	12.05	12.05	CMS
Runoff	34.17	46.64	47.19	84.10	102.48	172.76	94.67	59.05	37.01	38.98	32.11	34.94	784.08	MCM

Momentary Peak 269.90 CMS. at 234.59 m. (MSL.) at 02.00 Hours , on Sep 26 , 2014

Runoff Yield 8.04 Liters/Second/Square KM. Momentary Peak Yield 87.262 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

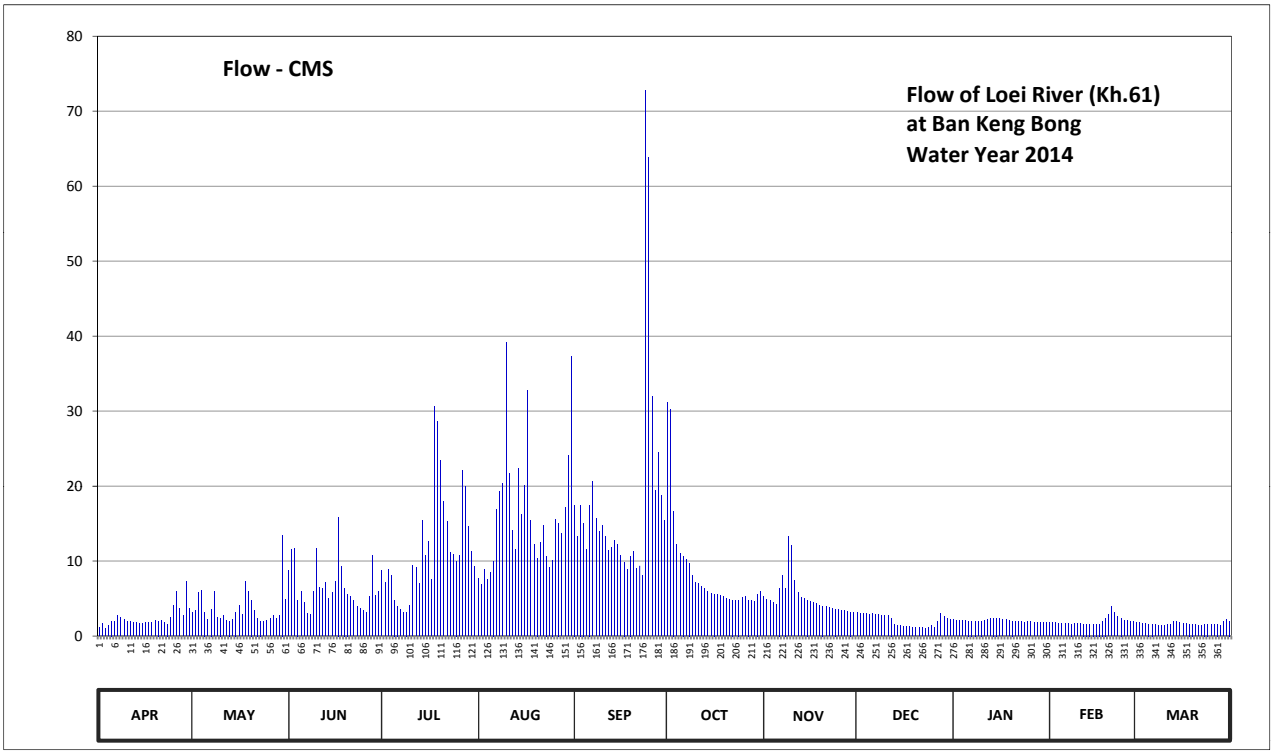
Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	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 Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.93	259.16	259.67	259.67	259.59	260.28	260.96	259.38	259.16	259.07	259.03	259.03	
2	259.02	259.19	259.89	259.55	259.53	260.02	260.92	259.34	259.15	259.06	259.03	259.03	
3	258.91	259.43	259.90	259.68	259.68	260.28	260.23	259.32	259.15	259.06	259.03	259.02	
4	258.99	259.46	259.33	259.62	259.58	260.13	259.94	259.30	259.15	259.06	259.02	259.02	
5	259.05	259.17	259.45	259.33	259.65	259.89	259.85	259.27	259.14	259.06	259.02	259.01	
6	259.04	259.07	259.30	259.25	259.77	260.28	259.82	259.49	259.15	259.05	259.02	259.01	
7	259.13	259.21	259.15	259.20	260.24	260.48	259.79	259.62	259.14	259.05	259.02	259.00	
8	259.10	259.44	259.14	259.16	260.39	260.17	259.75	259.49	259.14	259.05	259.01	258.99	
9	259.07	259.10	259.45	259.17	260.46	260.06	259.62	260.02	259.13	259.04	259.02	258.99	
10	259.04	259.09	259.90	259.26	261.30	260.11	259.55	259.93	259.13	259.05	259.02	258.98	
11	259.04	259.13	259.50	259.72	260.53	260.02	259.54	259.57	259.13	259.06	259.02	259.00	
12	259.03	259.06	259.48	259.70	260.07	259.88	259.51	259.43	259.09	259.07	259.01	259.00	
13	259.03	259.05	259.55	259.54	259.89	259.91	259.48	259.36	259.00	259.08	259.01	259.04	
14	259.02	259.07	259.35	260.15	260.56	259.98	259.44	259.35	258.98	259.09	259.01	259.04	
15	259.02	259.17	259.43	259.83	260.20	259.94	259.42	259.33	258.97	259.09	259.01	259.03	
16	259.03	259.26	259.56	259.97	260.44	259.83	259.41	259.31	258.95	259.08	259.01	259.02	
17	259.03	259.14	260.18	259.58	261.03	259.76	259.40	259.30	258.95	259.07	259.01	259.02	
18	259.03	259.56	259.71	260.94	260.15	259.68	259.39	259.28	258.95	259.07	259.05	259.01	
19	259.06	259.45	259.49	260.85	259.94	259.82	259.38	259.26	258.94	259.06	259.09	259.01	
20	259.05	259.33	259.41	260.61	259.80	259.87	259.35	259.25	258.94	259.05	259.14	259.00	
21	259.06	259.19	259.38	260.31	259.96	259.69	259.34	259.24	258.94	259.04	259.24	258.99	
22	259.03	259.09	259.32	260.14	260.11	259.72	259.33	259.23	258.93	259.04	259.16	258.99	
23	259.01	259.05	259.24	259.86	259.82	259.62	259.32	259.22	258.91	259.04	259.11	259.01	
24	259.10	259.04	259.22	259.84	259.70	262.23	259.33	259.21	258.92	259.03	259.09	259.01	
25	259.26	259.06	259.19	259.77	259.78	262.07	259.36	259.20	258.97	259.04	259.06	259.00	
26	259.45	259.08	259.16	259.83	260.16	261.00	259.38	259.19	258.92	259.04	259.06	259.00	
27	259.22	259.12	259.38	260.55	260.13	260.40	259.33	259.19	259.04	259.03	259.04	259.01	
28	259.13	259.08	259.83	260.43	260.04	260.66	259.32	259.18	259.15	259.03	259.04	258.98	
29	259.56	259.13	259.39	260.10	260.26	260.36	259.31	259.17	259.11	259.03		259.04	
30	259.22	260.03	259.44	259.87	260.64	260.15	259.41	259.16	259.08	259.03		259.07	
31		259.34		259.71	261.22		259.44		259.07	259.03		259.05	
Mean	259.09	259.22	259.48	259.84	260.15	260.21	259.60	259.35	259.04	259.05	259.05	259.01	
Max	259.56	260.03	260.18	260.94	261.30	262.23	260.96	260.02	259.16	259.09	259.24	259.07	262.23
Min	258.91	259.04	259.14	259.16	259.53	259.62	259.31	259.16	258.91	259.03	259.01	258.98	258.91

Annual Max Momentary Gage Height	263.85	m. (MSL.) ,	at 17.00 Hours , on Sep 24 , 2014		
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 Area	549	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.15	3.10	8.71	8.71	7.67	17.48	31.12	5.30	3.10	2.20	1.80	1.80		
2	1.70	3.40	11.57	7.15	6.89	13.32	30.24	4.90	3.00	2.10	1.80	1.80		
3	1.05	5.80	11.70	8.84	8.84	17.48	16.68	4.70	3.00	2.10	1.80	1.70		
4	1.45	6.10	4.80	8.06	7.54	15.08	12.22	4.50	3.00	2.10	1.70	1.70		
5	2.00	3.20	6.00	4.80	8.45	11.57	11.05	4.20	2.90	2.10	1.70	1.60		
6	1.90	2.20	4.50	4.00	10.01	17.48	10.66	6.40	3.00	2.00	1.70	1.60		
7	2.80	3.60	3.00	3.50	16.84	20.68	10.27	8.06	2.90	2.00	1.70	1.50		
8	2.50	5.90	2.90	3.10	19.24	15.72	9.75	6.40	2.90	2.00	1.60	1.45		
9	2.20	2.50	6.00	3.20	20.36	13.96	8.06	13.32	2.80	1.90	1.70	1.45		
10	1.90	2.40	11.70	4.10	39.20	14.76	7.15	12.09	2.80	2.00	1.70	1.40		
11	1.90	2.80	6.50	9.36	21.66	13.32	7.02	7.41	2.80	2.10	1.70	1.50		
12	1.80	2.10	6.30	9.10	14.12	11.44	6.63	5.80	2.40	2.20	1.60	1.50		
13	1.80	2.00	7.15	7.02	11.57	11.83	6.30	5.10	1.50	2.30	1.60	1.90		
14	1.70	2.20	5.00	15.40	22.32	12.74	5.90	5.00	1.40	2.40	1.60	1.90		
15	1.70	3.20	5.80	10.79	16.20	12.22	5.70	4.80	1.35	2.40	1.60	1.80		
16	1.80	4.10	7.28	12.61	20.04	10.79	5.60	4.60	1.25	2.30	1.60	1.70		
17	1.80	2.90	15.88	7.54	32.72	9.88	5.50	4.50	1.25	2.20	1.60	1.70		
18	1.80	7.28	9.23	30.68	15.40	8.84	5.40	4.30	1.25	2.20	2.00	1.60		
19	2.10	6.00	6.40	28.70	12.22	10.66	5.30	4.10	1.20	2.10	2.40	1.60		
20	2.00	4.80	5.60	23.42	10.40	11.31	5.00	4.00	1.20	2.00	2.90	1.50		
21	2.10	3.40	5.30	17.96	12.48	8.97	4.90	3.90	1.20	1.90	3.90	1.45		
22	1.80	2.40	4.70	15.24	14.76	9.36	4.80	3.80	1.15	1.90	3.10	1.45		
23	1.60	2.00	3.90	11.18	10.66	8.06	4.70	3.70	1.05	1.90	2.60	1.60		
24	2.50	1.90	3.70	10.92	9.10	72.80	4.80	3.60	1.10	1.80	2.40	1.60		
25	4.10	2.10	3.40	10.01	10.14	63.80	5.10	3.50	1.35	1.90	2.10	1.50		
26	6.00	2.30	3.10	10.79	15.56	32.00	5.30	3.40	1.10	1.90	2.10	1.50		
27	3.70	2.70	5.30	22.10	15.08	19.40	4.80	3.40	1.90	1.80	1.90	1.60		
28	2.80	2.30	10.79	19.88	13.64	24.52	4.70	3.30	3.00	1.80	1.90	1.40		
29	7.28	2.80	5.40	14.60	17.16	18.76	4.60	3.20	2.60	1.80		1.90		
30	3.70	13.48	5.90	11.31	24.08	15.40	5.60	3.10	2.30	1.80		2.20		
31		4.90		9.23	37.28		5.90		2.20	1.80		2.00		
Total	72.63	115.86	197.51	363.30	501.63	543.63	260.75	154.38	63.95	63.00	55.80	50.90	2443.34	CMSDAY
Mean	2.42	3.74	6.58	11.72	16.18	18.12	8.41	5.15	2.06	2.03	1.99	1.64	6.69	CMS
Max	7.28	13.48	15.88	30.68	39.20	72.80	31.12	13.32	3.10	2.40	3.90	2.20	72.80	CMS
Min	1.05	1.90	2.90	3.10	6.89	8.06	4.60	3.10	1.05	1.80	1.60	1.40	1.05	CMS
Runoff	6.28	10.01	17.07	31.39	43.34	46.97	22.53	13.34	5.53	5.44	4.82	4.40	211.11	MCM

Momentary Peak 244.50 CMS. at 263.85 m. (MSL.) at 17.00 Hours , on Sep 24 , 2014

Runoff Yield 12.19 Liters/Second/Square KM. Momentary Peak Yield 445.355 Liters/Second/Square KM.

WATER YEAR : 2014

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.

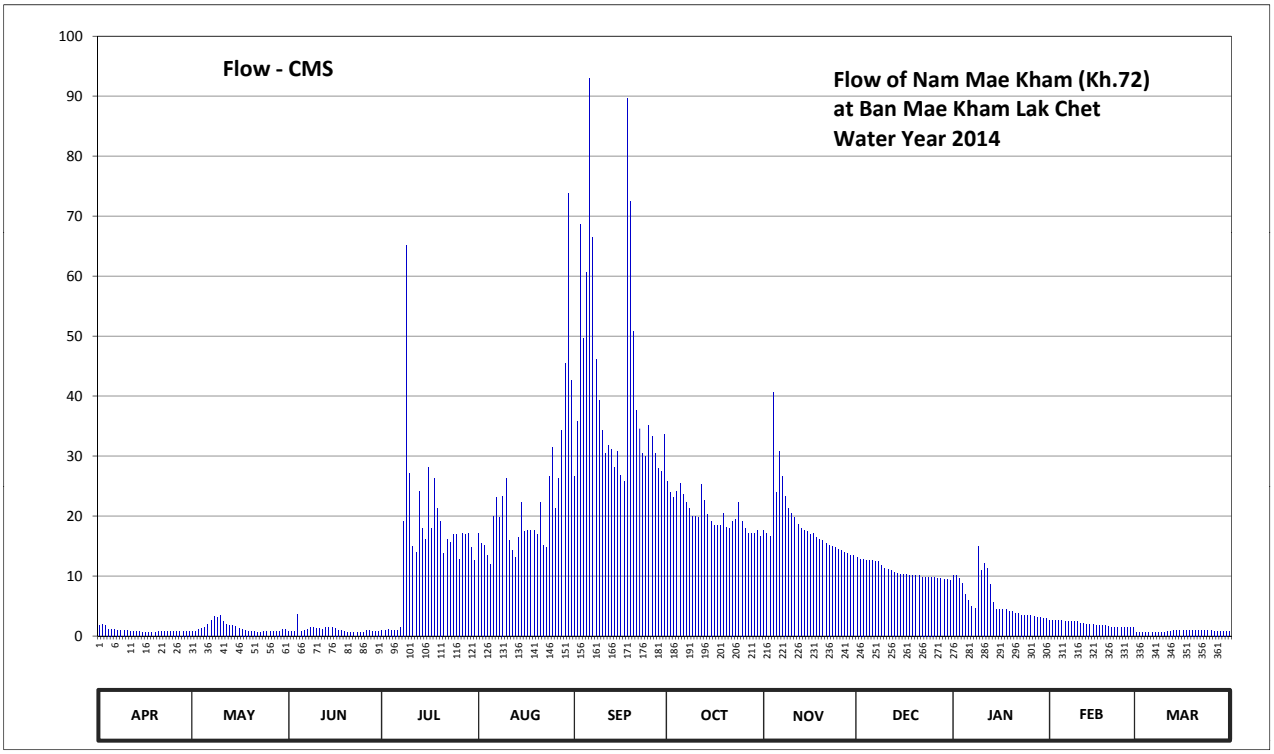
Ban Mae Kham Lak Chet **Amphoe** Mae Chan **Changwat** Chiang Rai

Drainge Area	667 sq.km.
Type of Gage	Water - stage recorder
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	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 Flot	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Stable.
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 47 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	393.93	393.81	393.82	393.84	394.75	395.11	395.08	394.77	394.58	394.44	394.01	393.80	
2	393.95	393.82	393.82	393.84	394.68	395.42	395.01	394.75	394.57	394.44	394.01	393.80	
3	393.93	393.86	393.82	393.86	394.67	396.28	394.98	394.73	394.57	394.42	394.01	393.80	
4	393.87	393.88	394.09	393.85	394.60	395.82	395.02	395.56	394.56	394.38	394.01	393.80	
5	393.87	393.91	393.83	393.85	394.53	396.09	395.07	395.01	394.56	394.29	394.01	393.80	
6	393.86	393.96	393.85	393.85	394.86	396.83	395.00	395.26	394.56	394.24	394.00	393.80	
7	393.85	394.01	393.86	393.90	394.98	396.23	394.95	395.11	394.55	394.18	394.00	393.80	
8	393.85	394.06	393.90	394.83	394.85	395.72	394.91	394.99	394.55	394.16	394.00	393.80	
9	393.85	394.05	393.90	396.20	394.99	395.52	394.86	394.91	394.52	394.66	394.00	393.80	
10	393.84	394.07	393.88	395.13	395.10	395.37	394.86	394.88	394.50	394.48	394.00	393.80	
11	393.82	394.00	393.88	394.66	394.70	395.25	394.85	394.85	394.49	394.54	393.97	393.82	
12	393.82	393.96	393.86	394.62	394.63	395.29	395.06	394.81	394.48	394.50	393.97	393.83	
13	393.82	393.93	393.91	395.02	394.58	395.27	394.96	394.78	394.47	394.37	393.96	393.85	
14	393.81	393.93	393.90	394.78	394.72	395.17	394.87	394.77	394.46	394.22	393.96	393.85	
15	393.80	393.92	393.90	394.71	394.95	395.26	394.83	394.76	394.45	394.14	393.95	393.85	
16	393.80	393.88	393.89	395.17	394.76	395.12	394.80	394.74	394.45	394.14	393.94	393.85	
17	393.80	393.87	393.85	394.78	394.77	395.08	394.80	394.75	394.45	394.14	393.94	393.85	
18	393.80	393.85	393.84	395.10	394.77	396.76	394.80	394.72	394.44	394.14	393.93	393.85	
19	393.80	393.83	393.81	394.91	394.77	396.37	394.88	394.71	394.44	394.12	393.93	393.85	
20	393.81	393.81	393.80	394.83	394.74	395.85	394.79	394.70	394.44	394.12	393.92	393.85	
21	393.82	393.83	393.80	394.61	394.95	395.47	394.78	394.68	394.44	394.10	393.90	393.85	
22	393.82	393.80	393.80	394.71	394.67	395.38	394.83	394.67	394.43	394.10	393.90	393.85	
23	393.82	393.80	393.80	394.69	394.65	395.25	394.84	394.66	394.43	394.08	393.90	393.84	
24	393.82	393.81	393.80	394.74	395.11	395.23	394.95	394.65	394.43	394.08	393.90	393.84	
25	393.83	393.82	393.80	394.74	395.28	395.40	394.83	394.64	394.43	394.07	393.90	393.84	
26	393.83	393.81	393.84	394.57	394.91	395.34	394.78	394.63	394.43	394.07	393.90	393.83	
27	393.83	393.82	393.84	394.75	395.10	395.25	394.75	394.62	394.42	394.06	393.90	393.83	
28	393.83	393.83	393.82	394.74	395.37	395.16	394.75	394.61	394.42	394.05	393.90	393.83	
29	393.83	393.83	393.82	394.75	395.70	395.14	394.75	394.60	394.41	394.05		393.83	
30	393.83	393.86	393.83	394.65	396.40	395.35	394.77	394.60	394.41	394.04		393.83	
31		393.86		394.56	395.62		394.73		394.40	394.04		393.82	
Mean	393.84	393.89	393.85	394.62	394.94	395.56	394.88	394.80	394.48	394.22	393.95	393.83	
Max	393.95	394.07	394.09	396.20	396.40	396.83	395.08	395.56	394.58	394.66	394.01	393.85	396.83
Min	393.80	393.80	393.80	393.84	394.53	395.08	394.73	394.60	394.40	394.04	393.90	393.80	393.80

Annual Max Momentary Gage Height	398.09	m. (MSL.) ,	at 16.00 Hours , on Sep 6 , 2014		
Zero Gage at Bottom Elevation	393.40	m. (MSL.) ,	River Bed	393.96	m. (MSL.)
Left Bank Elevation	399.72	m. (MSL.) ,			
Right Bank Elevation	399.70	m. (MSL.) ,	Drainage Area	667	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	0.68	0.76	0.92	17.15	26.57	25.76	17.65	13.06	10.04	2.54	0.60		
2	1.90	0.76	0.76	0.92	15.42	35.88	23.87	17.15	12.84	10.04	2.54	0.60		
3	1.70	1.08	0.76	1.08	15.18	68.64	23.08	16.65	12.84	9.62	2.54	0.60		
4	1.16	1.24	3.66	1.00	13.50	49.62	24.14	40.64	12.62	8.78	2.54	0.60		
5	1.16	1.50	0.84	1.00	11.96	60.69	25.49	23.87	12.62	6.91	2.54	0.60		
6	1.08	2.00	1.00	1.00	19.96	92.89	23.60	30.86	12.62	5.96	2.40	0.60		
7	1.00	2.54	1.08	1.40	23.08	66.49	22.30	26.57	12.40	4.92	2.40	0.60		
8	1.00	3.24	1.40	19.18	19.70	46.08	21.26	23.34	12.40	4.64	2.40	0.60		
9	1.00	3.10	1.40	65.20	23.34	39.28	19.96	21.26	11.74	14.94	2.40	0.60		
10	0.92	3.38	1.24	27.11	26.30	34.27	19.96	20.48	11.30	10.88	2.40	0.60		
11	0.76	2.40	1.24	14.94	15.90	30.55	19.70	19.70	11.09	12.18	2.10	0.76		
12	0.76	2.00	1.08	13.98	14.22	31.79	25.22	18.66	10.88	11.30	2.10	0.84		
13	0.76	1.70	1.50	24.14	13.06	31.17	22.56	17.90	10.67	8.57	2.00	1.00		
14	0.68	1.70	1.40	17.90	16.40	28.19	20.22	17.65	10.46	5.58	2.00	1.00		
15	0.60	1.60	1.40	16.15	22.30	30.86	19.18	17.40	10.25	4.36	1.90	1.00		
16	0.60	1.24	1.32	28.19	17.40	26.84	18.40	16.90	10.25	4.36	1.80	1.00		
17	0.60	1.16	1.00	17.90	17.65	25.76	18.40	17.15	10.25	4.36	1.80	1.00		
18	0.60	1.00	0.92	26.30	17.65	89.68	18.40	16.40	10.04	4.36	1.70	1.00		
19	0.60	0.84	0.68	21.26	17.65	72.51	20.48	16.15	10.04	4.08	1.70	1.00		
20	0.68	0.68	0.60	19.18	16.90	50.85	18.15	15.90	10.04	4.08	1.60	1.00		
21	0.76	0.84	0.60	13.74	22.30	37.58	17.90	15.42	10.04	3.80	1.40	1.00		
22	0.76	0.60	0.60	16.15	15.18	34.58	19.18	15.18	9.83	3.80	1.40	1.00		
23	0.76	0.60	0.60	15.66	14.70	30.55	19.44	14.94	9.83	3.52	1.40	0.92		
24	0.76	0.68	0.60	16.90	26.57	29.93	22.30	14.70	9.83	3.52	1.40	0.92		
25	0.84	0.76	0.60	16.90	31.48	35.20	19.18	14.46	9.83	3.38	1.40	0.92		
26	0.84	0.68	0.92	12.84	21.26	33.34	17.90	14.22	9.83	3.38	1.40	0.84		
27	0.84	0.76	0.92	17.15	26.30	30.55	17.15	13.98	9.62	3.24	1.40	0.84		
28	0.84	0.84	0.76	16.90	34.27	27.92	17.15	13.74	9.62	3.10	1.40	0.84		
29	0.84	0.84	0.76	17.15	45.40	27.38	17.15	13.50	9.41	3.10		0.84		
30	0.84	1.08	0.84	14.70	73.80	33.65	17.65	13.50	9.41	2.96		0.84		
31		1.08		12.62	42.68		16.65		9.20	2.96		0.76		
Total	27.34	42.60	31.24	489.46	708.66	1259.29	631.78	555.92	334.86	186.72	54.60	25.32	4347.79	CMSDAY
Mean	0.91	1.37	1.04	15.79	22.86	41.98	20.38	18.53	10.80	6.02	1.95	0.82	11.91	CMS
Max	1.90	3.38	3.66	65.20	73.80	92.89	25.76	40.64	13.06	14.94	2.54	1.00	92.89	CMS
Min	0.60	0.60	0.60	0.92	11.96	25.76	16.65	13.50	9.20	2.96	1.40	0.60	0.60	CMS
Runoff	2.36	3.68	2.70	42.29	61.23	108.80	54.59	48.03	28.93	16.13	4.72	2.19	375.65	MCM

Momentary Peak 155.22 CMS. at 398.09 m. (MSL.) at 16.00 Hours , on Sep 6 , 2014

Runoff Yield 17.86 Liters/Second/Square KM. Momentary Peak Yield 232.714 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

Lat 17 - 49 - 07 N Long 103 - 23 - 16 E

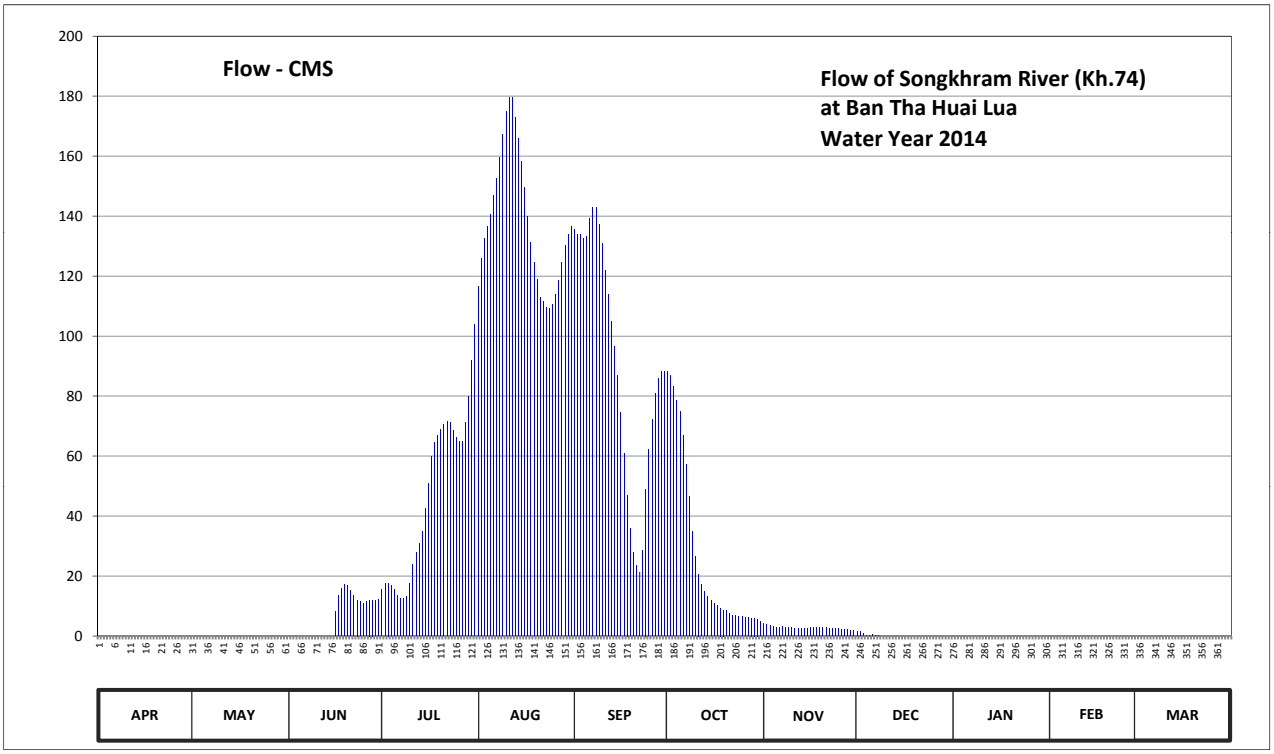
Location : on left bank at Ban Tha Huai Lua.

	Ban Tha Huai Lua	**Amphoe** Ban Muang	**Changwat** Sakon Nakhon
Drainge Area	2,199 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+144.850 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +156.483 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 Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	Overbank flow starts at elevation +150.970 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 66 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	147.96	148.14	148.30	150.12	152.55	152.91	151.96	149.74	149.65	149.56	149.52	149.41	
2	147.96	148.14	148.30	150.18	152.74	152.88	151.93	149.73	149.65	149.56	149.51	149.40	
3	147.96	148.16	148.30	150.19	152.86	152.88	151.84	149.72	149.63	149.56	149.50	149.39	
4	148.00	148.18	148.29	150.16	152.92	152.86	151.73	149.71	149.61	149.56	149.49	149.39	
5	148.02	148.19	148.29	150.12	152.98	152.87	151.64	149.70	149.61	149.56	149.48	149.38	
6	148.02	148.20	148.30	150.05	153.07	152.96	151.45	149.70	149.62	149.56	149.47	149.37	
7	148.04	148.20	148.30	150.02	153.15	153.01	151.21	149.71	149.61	149.55	149.46	149.37	
8	148.06	148.21	148.32	150.02	153.25	153.01	150.94	149.70	149.61	149.56	149.45	149.36	
9	148.08	148.23	148.35	150.04	153.36	152.93	150.65	149.69	149.60	149.56	149.44	149.35	
10	148.08	148.24	148.36	150.18	153.47	152.83	150.44	149.69	149.60	149.57	149.42	149.34	
11	148.08	148.26	148.37	150.37	153.52	152.66	150.29	149.68	149.59	149.57	149.40	149.33	
12	148.08	148.26	148.38	150.47	153.52	152.50	150.17	149.68	149.59	149.57	149.38	149.33	
13	148.09	148.28	148.48	150.55	153.44	152.31	150.09	149.68	149.59	149.57	149.37	149.34	
14	148.10	148.30	148.92	150.65	153.34	152.14	150.04	149.68	149.58	149.57	149.36	149.34	
15	148.10	148.30	149.44	150.84	153.23	151.93	149.99	149.68	149.58	149.58	149.36	149.34	
16	148.13	148.31	149.87	151.05	153.11	151.63	149.96	149.70	149.58	149.58	149.35	149.33	
17	148.15	148.31	150.05	151.27	152.97	151.30	149.94	149.70	149.57	149.58	149.38	149.33	
18	148.16	148.32	150.13	151.39	152.84	150.95	149.91	149.69	149.57	149.58	149.38	149.31	
19	148.18	148.32	150.17	151.45	152.71	150.67	149.89	149.69	149.56	149.57	149.37	149.30	
20	148.14	148.31	150.16	151.50	152.60	150.47	149.88	149.69	149.56	149.57	149.37	149.30	
21	148.13	148.31	150.11	151.54	152.48	150.36	149.85	149.69	149.57	149.57	149.38	149.29	
22	148.12	148.31	150.05	151.56	152.45	150.31	149.83	149.68	149.57	149.57	149.38	149.29	
23	148.12	148.32	150.00	151.55	152.41	150.49	149.83	149.68	149.57	149.57	149.39	149.28	
24	148.12	148.32	149.98	151.49	152.40	151.00	149.82	149.68	149.57	149.56	149.40	149.29	
25	148.11	148.32	149.96	151.43	152.43	151.33	149.82	149.68	149.57	149.56	149.40	149.30	
26	148.11	148.32	149.98	151.40	152.50	151.58	149.81	149.67	149.57	149.56	149.39	149.30	
27	148.10	148.32	150.00	151.40	152.59	151.78	149.81	149.67	149.56	149.55	149.39	149.29	
28	148.10	148.31	150.00	151.55	152.71	151.90	149.80	149.67	149.56	149.55	149.40	149.29	
29	148.10	148.31	149.99	151.76	152.82	151.96	149.80	149.66	149.56	149.55		149.28	
30	148.12	148.31	150.01	152.04	152.88	151.96	149.79	149.66	149.56	149.54		149.28	
31		148.31		152.29	152.92		149.76		149.56	149.53		149.27	
Mean	148.08	148.27	149.24	150.92	152.91	151.95	150.38	149.69	149.59	149.56	149.41	149.33	
Max	148.18	148.32	150.17	152.29	153.52	153.01	151.96	149.74	149.65	149.58	149.52	149.41	153.52
Min	147.96	148.14	148.29	150.02	152.40	150.31	149.76	149.66	149.56	149.53	149.35	149.27	147.96

Annual Max Momentary Gage Height	153.53	m. (MSL.) ,	at 18.00 Hours , on Aug 11 , 2014		
Zero Gage at Bottom Elevation	144.85	m. (MSL.) ,	River Bed	144.72	m. (MSL.)
Left Bank Elevation	150.96	m. (MSL.) ,			
Right Bank Elevation	151.90	m. (MSL.) ,	Drainage Area	2199	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	15.60	116.50	135.70	88.32	4.20	1.50	0.00	0.00	0.00		
2	0.00	0.00	0.00	17.40	126.00	133.80	87.06	3.90	1.50	0.00	0.00	0.00		
3	0.00	0.00	0.00	17.70	132.60	133.80	83.28	3.60	0.90	0.00	0.00	0.00		
4	0.00	0.00	0.00	16.80	136.40	132.60	78.66	3.30	0.30	0.00	0.00	0.00		
5	0.00	0.00	0.00	15.60	140.60	133.20	74.88	3.00	0.30	0.00	0.00	0.00		
6	0.00	0.00	0.00	13.50	146.90	139.20	67.00	3.00	0.60	0.00	0.00	0.00		
7	0.00	0.00	0.00	12.60	152.50	142.70	57.40	3.30	0.30	0.00	0.00	0.00		
8	0.00	0.00	0.00	12.60	159.50	142.70	46.60	3.00	0.30	0.00	0.00	0.00		
9	0.00	0.00	0.00	13.20	167.20	137.10	35.00	2.70	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	17.40	174.90	130.80	26.60	2.70	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	23.80	179.60	122.00	20.70	2.40	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	27.80	179.60	114.00	17.10	2.40	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	31.00	172.80	104.88	14.70	2.40	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	35.00	165.80	96.72	13.20	2.40	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	42.60	158.10	87.06	11.70	2.40	0.00	0.00	0.00	0.00		
16	0.00	0.00	8.10	51.00	149.70	74.46	10.80	3.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	13.50	59.80	139.90	61.00	10.20	3.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	15.90	64.60	131.40	47.00	9.30	2.70	0.00	0.00	0.00	0.00		
19	0.00	0.00	17.10	67.00	124.50	35.80	8.70	2.70	0.00	0.00	0.00	0.00		
20	0.00	0.00	16.80	69.00	119.00	27.80	8.40	2.70	0.00	0.00	0.00	0.00		
21	0.00	0.00	15.30	70.68	113.04	23.40	7.50	2.70	0.00	0.00	0.00	0.00		
22	0.00	0.00	13.50	71.52	111.60	21.40	6.90	2.40	0.00	0.00	0.00	0.00		
23	0.00	0.00	12.00	71.10	109.68	28.60	6.90	2.40	0.00	0.00	0.00	0.00		
24	0.00	0.00	11.40	68.60	109.20	49.00	6.60	2.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	10.80	66.20	110.64	62.20	6.60	2.40	0.00	0.00	0.00	0.00		
26	0.00	0.00	11.40	65.00	114.00	72.36	6.30	2.10	0.00	0.00	0.00	0.00		
27	0.00	0.00	12.00	65.00	118.50	80.76	6.30	2.10	0.00	0.00	0.00	0.00		
28	0.00	0.00	12.00	71.10	124.50	85.80	6.00	2.10	0.00	0.00	0.00	0.00		
29	0.00	0.00	11.70	79.92	130.20	88.32	6.00	1.80	0.00	0.00		0.00		
30	0.00	0.00	12.30	91.92	133.80	88.32	5.70	1.80	0.00	0.00		0.00		
31		0.00		103.92	136.40		4.80		0.00	0.00		0.00		
Total	0.00	0.00	193.80	1448.96	4285.06	2732.48	839.20	81.00	5.70	0.00	0.00	0.00	9586.20	CMSDAY
Mean	0.00	0.00	6.46	46.74	138.23	91.08	27.07	2.70	0.18	0.00	0.00	0.00	26.26	CMS
Max	0.00	0.00	17.10	103.92	179.60	142.70	88.32	4.20	1.50	0.00	0.00	0.00	179.60	CMS
Min	0.00	0.00	0.00	12.60	109.20	21.40	4.80	1.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	16.74	125.19	370.23	236.09	72.51	7.00	0.49	0.00	0.00	0.00	828.25	MCM

Momentary Peak 180.90 CMS. at 153.53 m. (MSL.) at 18.00 Hours , on Aug 11 , 2014

Runoff Yield 11.94 Liters/Second/Square KM. Momentary Peak Yield 82.265 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

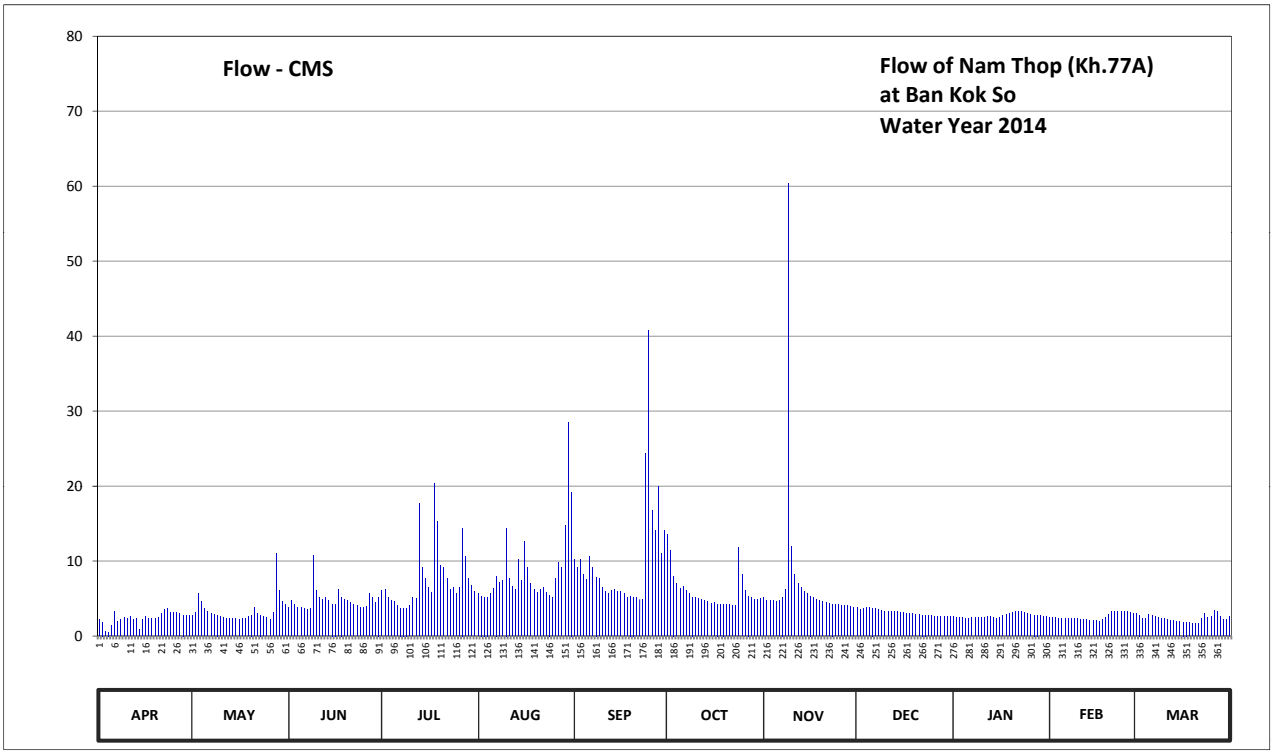
Location : on left bank at Ban Kok So.

	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 mean of 3 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Rather unsStable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The cataract situated downstream from the gage site.		
	Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.31	261.36	261.47	261.66	261.63	261.91	262.05	261.59	261.47	261.35	261.34	261.39	
2	261.28	261.40	261.55	261.67	261.61	261.86	261.97	261.56	261.44	261.34	261.34	261.37	
3	261.16	261.63	261.50	261.59	261.60	261.91	261.80	261.55	261.45	261.34	261.34	261.32	
4	261.15	261.54	261.47	261.56	261.60	261.81	261.73	261.55	261.47	261.34	261.33	261.32	
5	261.23	261.45	261.47	261.54	261.63	261.77	261.68	261.54	261.47	261.33	261.33	261.38	
6	261.42	261.42	261.45	261.49	261.68	261.93	261.70	261.55	261.46	261.33	261.33	261.36	
7	261.29	261.39	261.44	261.46	261.80	261.86	261.66	261.60	261.45	261.34	261.33	261.35	
8	261.31	261.38	261.45	261.46	261.74	261.79	261.63	261.67	261.44	261.34	261.32	261.34	
9	261.34	261.37	261.94	261.46	261.76	261.78	261.60	262.99	261.43	261.34	261.32	261.33	
10	261.33	261.35	261.66	261.49	262.08	261.69	261.59	262.00	261.42	261.34	261.32	261.32	
11	261.35	261.34	261.59	261.59	261.78	261.65	261.58	261.81	261.42	261.34	261.31	261.31	
12	261.31	261.33	261.57	261.58	261.70	261.63	261.57	261.73	261.41	261.35	261.31	261.30	
13	261.32	261.33	261.59	262.19	261.67	261.66	261.56	261.69	261.41	261.35	261.31	261.30	
14	261.18	261.32	261.55	261.86	261.91	261.67	261.54	261.65	261.41	261.34	261.30	261.29	
15	261.31	261.32	261.51	261.78	261.76	261.65	261.52	261.63	261.40	261.33	261.30	261.29	
16	261.35	261.31	261.51	261.69	262.02	261.65	261.53	261.61	261.40	261.34	261.30	261.28	
17	261.33	261.32	261.67	261.64	261.86	261.63	261.51	261.59	261.39	261.36	261.29	261.28	
18	261.32	261.33	261.60	262.26	261.73	261.59	261.50	261.57	261.39	261.38	261.31	261.27	
19	261.32	261.35	261.57	262.11	261.67	261.61	261.51	261.55	261.39	261.39	261.34	261.26	
20	261.34	261.37	261.55	261.87	261.64	261.60	261.50	261.54	261.38	261.40	261.38	261.26	
21	261.39	261.47	261.53	261.86	261.67	261.59	261.50	261.53	261.38	261.41	261.41	261.26	
22	261.44	261.39	261.50	261.78	261.69	261.57	261.49	261.52	261.37	261.41	261.41	261.32	
23	261.45	261.37	261.49	261.67	261.64	261.57	261.49	261.51	261.37	261.41	261.42	261.39	
24	261.40	261.35	261.47	261.69	261.62	262.36	261.99	261.50	261.36	261.40	261.42	261.34	
25	261.40	261.34	261.47	261.63	261.59	262.68	261.81	261.50	261.36	261.39	261.41	261.35	
26	261.40	261.31	261.48	261.69	261.78	262.16	261.66	261.49	261.35	261.38	261.41	261.43	
27	261.39	261.40	261.63	262.08	261.89	262.07	261.61	261.49	261.35	261.37	261.40	261.42	
28	261.37	261.95	261.59	261.93	261.86	262.25	261.59	261.49	261.35	261.37	261.39	261.35	
29	261.36	261.66	261.53	261.78	262.09	261.95	261.57	261.48	261.35	261.36		261.31	
30	261.36	261.54	261.60	261.71	262.45	262.07	261.57	261.47	261.35	261.35		261.31	
31		261.50		261.65	262.23		261.58		261.35	261.35		261.35	
Mean	261.33	261.42	261.55	261.72	261.79	261.83	261.63	261.63	261.40	261.36	261.35	261.33	
Max	261.45	261.95	261.94	262.26	262.45	262.68	262.05	262.99	261.47	261.41	261.42	261.43	262.99
Min	261.15	261.31	261.44	261.46	261.59	261.57	261.49	261.47	261.35	261.33	261.29	261.26	261.15

Annual Max Momentary Gage Height	264.11	m. (MSL.) ,	at 05.00 Hours , on Nov 9 , 2014		
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 Area	156	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.18	2.70	3.85	6.04	5.62	10.20	13.50	5.10	3.85	2.60	2.50	3.02		
2	1.87	3.12	4.68	6.18	5.34	9.20	11.40	4.78	3.54	2.50	2.50	2.81		
3	0.62	5.62	4.16	5.10	5.20	10.20	8.00	4.68	3.64	2.50	2.50	2.29		
4	0.52	4.58	3.85	4.78	5.20	8.20	7.02	4.68	3.85	2.50	2.39	2.29		
5	1.35	3.64	3.85	4.58	5.62	7.58	6.32	4.58	3.85	2.39	2.39	2.91		
6	3.33	3.33	3.64	4.06	6.32	10.60	6.60	4.68	3.74	2.39	2.39	2.70		
7	1.98	3.02	3.54	3.74	8.00	9.20	6.04	5.20	3.64	2.50	2.39	2.60		
8	2.18	2.91	3.64	3.74	7.16	7.86	5.62	6.18	3.54	2.50	2.29	2.50		
9	2.50	2.81	10.80	3.74	7.44	7.72	5.20	60.30	3.43	2.50	2.29	2.39		
10	2.39	2.60	6.04	4.06	14.40	6.46	5.10	12.00	3.33	2.50	2.29	2.29		
11	2.60	2.50	5.10	5.10	7.72	5.90	4.99	8.20	3.33	2.50	2.18	2.18		
12	2.18	2.39	4.89	4.99	6.60	5.62	4.89	7.02	3.22	2.60	2.18	2.08		
13	2.29	2.39	5.10	17.70	6.18	6.04	4.78	6.46	3.22	2.60	2.18	2.08		
14	0.83	2.29	4.68	9.20	10.20	6.18	4.58	5.90	3.22	2.50	2.08	1.98		
15	2.18	2.29	4.26	7.72	7.44	5.90	4.37	5.62	3.12	2.39	2.08	1.98		
16	2.60	2.18	4.26	6.46	12.60	5.90	4.47	5.34	3.12	2.50	2.08	1.87		
17	2.39	2.29	6.18	5.76	9.20	5.62	4.26	5.10	3.02	2.70	1.98	1.87		
18	2.29	2.39	5.20	20.40	7.02	5.10	4.16	4.89	3.02	2.91	2.18	1.77		
19	2.29	2.60	4.89	15.30	6.18	5.34	4.26	4.68	3.02	3.02	2.50	1.66		
20	2.50	2.81	4.68	9.40	5.76	5.20	4.16	4.58	2.91	3.12	2.91	1.66		
21	3.02	3.85	4.47	9.20	6.18	5.10	4.16	4.47	2.91	3.22	3.22	1.66		
22	3.54	3.02	4.16	7.72	6.46	4.89	4.06	4.37	2.81	3.22	3.22	2.29		
23	3.64	2.81	4.06	6.18	5.76	4.89	4.06	4.26	2.81	3.22	3.33	3.02		
24	3.12	2.60	3.85	6.46	5.48	24.40	11.80	4.16	2.70	3.12	3.33	2.50		
25	3.12	2.50	3.85	5.62	5.10	40.80	8.20	4.16	2.70	3.02	3.22	2.60		
26	3.12	2.18	3.95	6.46	7.72	16.80	6.04	4.06	2.60	2.91	3.22	3.43		
27	3.02	3.12	5.62	14.40	9.80	14.10	5.34	4.06	2.60	2.81	3.12	3.33		
28	2.81	11.00	5.10	10.60	9.20	20.00	5.10	4.06	2.60	2.81	3.02	2.60		
29	2.70	6.04	4.47	7.72	14.70	11.00	4.89	3.95	2.60	2.70		2.18		
30	2.70	4.58	5.20	6.74	28.50	14.10	4.89	3.85	2.60	2.60		2.18		
31		4.16		5.90	19.20		4.99		2.60	2.60		2.60		
Total	71.86	104.32	142.02	235.05	267.30	300.10	183.25	211.37	97.14	83.95	71.96	73.32	1841.64	CMSDAY
Mean	2.40	3.37	4.73	7.58	8.62	10.00	5.91	7.05	3.13	2.71	2.57	2.37	5.05	CMS
Max	3.64	11.00	10.80	20.40	28.50	40.80	13.50	60.30	3.85	3.22	3.33	3.43	60.30	CMS
Min	0.52	2.18	3.54	3.74	5.10	4.89	4.06	3.85	2.60	2.39	1.98	1.66	0.52	CMS
Runoff	6.21	9.01	12.27	20.31	23.10	25.93	15.83	18.26	8.39	7.25	6.22	6.34	159.12	MCM

Momentary Peak 146.90 CMS. at 264.11 m. (MSL.) at 05.00 Hours , on Nov 9 , 2014

Runoff Yield 32.34 Liters/Second/Square KM. Momentary Peak Yield 941.667 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

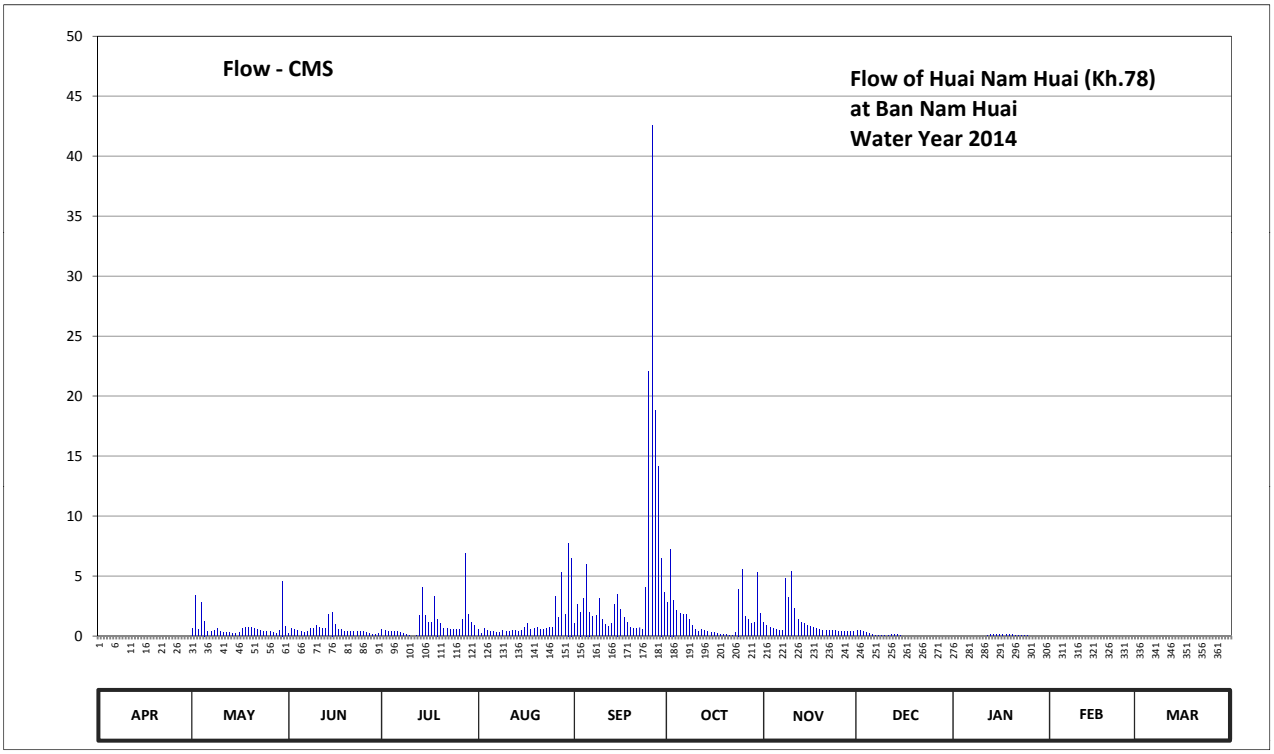
Location : on left bank at the bridge of Amphoe Wang Saphung - Amphoe Mueang Highway.

	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 Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Rather unstable.		
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 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.02	248.48	248.43	248.47	248.47	248.53	248.71	248.54	248.46	248.40	248.38	248.38	
2	248.06	248.77	248.48	248.46	248.43	248.69	249.10	248.51	248.46	248.40	248.37	248.37	
3	248.23	248.47	248.47	248.45	248.48	248.63	248.73	248.49	248.45	248.40	248.37	248.37	
4	248.28	248.71	248.46	248.45	248.46	248.74	248.64	248.48	248.44	248.40	248.36	248.37	
5	248.18	248.55	248.45	248.45	248.45	249.00	248.62	248.47	248.43	248.40	248.36	248.37	
6	248.15	248.45	248.44	248.45	248.45	248.63	248.61	248.46	248.42	248.40	248.37	248.37	
7	248.12	248.45	248.45	248.44	248.44	248.59	248.61	248.46	248.41	248.40	248.37	248.37	
8	248.12	248.46	248.48	248.43	248.44	248.60	248.56	248.90	248.41	248.40	248.36	248.37	
9	248.12	248.48	248.48	248.42	248.46	248.74	248.51	248.75	248.41	248.40	248.36	248.37	
10	248.10	248.45	248.51	248.41	248.45	248.56	248.47	248.95	248.41	248.40	248.36	248.37	
11	248.03	248.44	248.49	248.40	248.45	248.52	248.45	248.66	248.41	248.40	248.36	248.37	
12	248.14	248.44	248.48	248.41	248.46	248.50	248.47	248.56	248.42	248.41	248.35	248.37	
13	248.16	248.44	248.48	248.60	248.46	248.53	248.46	248.54	248.42	248.42	248.35	248.37	
14	248.17	248.43	248.61	248.83	248.45	248.69	248.45	248.53	248.42	248.42	248.36	248.35	
15	248.19	248.43	248.63	248.60	248.46	248.78	248.44	248.51	248.41	248.42	248.36	248.28	
16	248.20	248.44	248.52	248.54	248.49	248.65	248.44	248.50	248.40	248.42	248.36	248.16	
17	248.22	248.48	248.47	248.54	248.53	248.58	248.43	248.49	248.40	248.42	248.35	248.12	
18	248.25	248.49	248.47	248.76	248.47	248.54	248.42	248.48	248.40	248.42	248.35	248.12	
19	248.27	248.49	248.45	248.57	248.48	248.49	248.42	248.47	248.40	248.42	248.36	248.12	
20	248.25	248.49	248.45	248.53	248.49	248.48	248.42	248.46	248.40	248.42	248.37	248.12	
21	248.25	248.48	248.45	248.48	248.47	248.48	248.41	248.46	248.40	248.41	248.37	248.12	
22	248.25	248.47	248.45	248.48	248.47	248.49	248.41	248.46	248.40	248.41	248.37	248.17	
23	248.26	248.46	248.45	248.47	248.48	248.47	248.44	248.46	248.40	248.41	248.38	248.24	
24	248.25	248.45	248.45	248.47	248.49	248.83	248.82	248.46	248.40	248.41	248.38	248.26	
25	248.24	248.45	248.45	248.47	248.49	250.11	248.96	248.45	248.40	248.41	248.38	248.22	
26	248.25	248.45	248.44	248.47	248.76	251.19	248.59	248.45	248.40	248.40	248.38	248.22	
27	248.26	248.44	248.43	248.56	248.58	249.92	248.56	248.45	248.40	248.40	248.38	248.22	
28	248.27	248.43	248.42	249.07	248.94	249.62	248.53	248.45	248.40	248.39	248.38	248.22	
29	248.28	248.46	248.42	248.61	248.61	249.04	248.54	248.45	248.40	248.38		248.23	
30	248.32	248.88	248.43	248.54	249.14	248.79	248.94	248.45	248.40	248.38		248.24	
31		248.50		248.51	249.04		248.62		248.40	248.38		248.25	
Mean	248.20	248.49	248.47	248.53	248.54	248.85	248.57	248.53	248.41	248.40	248.37	248.27	
Max	248.32	248.88	248.63	249.07	249.14	251.19	249.10	248.95	248.46	248.42	248.38	248.38	251.19
Min	248.02	248.43	248.42	248.40	248.43	248.47	248.41	248.45	248.40	248.38	248.35	248.12	248.02

Annual Max Momentary Gage Height	251.47	m. (MSL.) ,	at 10.00 Hours , on Sep 26 , 2014		
Zero Gage at Bottom Elevation	246.22	m. (MSL.) ,	River Bed	247.71	m. (MSL.)
Left Bank Elevation	256.25	m. (MSL.) ,			
Right Bank Elevation	256.48	m. (MSL.) ,	Drainage Area	219	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.64	0.24	0.56	0.56	1.07	2.80	1.16	0.48	0.00	0.00	0.00		
2	0.00	3.40	0.64	0.48	0.24	2.60	7.26	0.89	0.48	0.00	0.00	0.00		
3	0.00	0.56	0.56	0.40	0.64	2.00	3.00	0.72	0.40	0.00	0.00	0.00		
4	0.00	2.80	0.48	0.40	0.48	3.10	2.10	0.64	0.32	0.00	0.00	0.00		
5	0.00	1.25	0.40	0.40	0.40	6.00	1.90	0.56	0.24	0.00	0.00	0.00		
6	0.00	0.40	0.32	0.40	0.40	2.00	1.80	0.48	0.16	0.00	0.00	0.00		
7	0.00	0.40	0.40	0.32	0.32	1.61	1.80	0.48	0.08	0.00	0.00	0.00		
8	0.00	0.48	0.64	0.24	0.32	1.70	1.34	4.80	0.08	0.00	0.00	0.00		
9	0.00	0.64	0.64	0.16	0.48	3.10	0.89	3.20	0.08	0.00	0.00	0.00		
10	0.00	0.40	0.89	0.08	0.40	1.34	0.56	5.40	0.08	0.00	0.00	0.00		
11	0.00	0.32	0.72	0.00	0.40	0.98	0.40	2.30	0.08	0.00	0.00	0.00		
12	0.00	0.32	0.64	0.08	0.48	0.80	0.56	1.34	0.16	0.08	0.00	0.00		
13	0.00	0.32	0.64	1.70	0.48	1.07	0.48	1.16	0.16	0.16	0.00	0.00		
14	0.00	0.24	1.80	4.03	0.40	2.60	0.40	1.07	0.16	0.16	0.00	0.00		
15	0.00	0.24	2.00	1.70	0.48	3.50	0.32	0.89	0.08	0.16	0.00	0.00		
16	0.00	0.32	0.98	1.16	0.72	2.20	0.32	0.80	0.00	0.16	0.00	0.00		
17	0.00	0.64	0.56	1.16	1.07	1.52	0.24	0.72	0.00	0.16	0.00	0.00		
18	0.00	0.72	0.56	3.30	0.56	1.16	0.16	0.64	0.00	0.16	0.00	0.00		
19	0.00	0.72	0.40	1.43	0.64	0.72	0.16	0.56	0.00	0.16	0.00	0.00		
20	0.00	0.72	0.40	1.07	0.72	0.64	0.16	0.48	0.00	0.16	0.00	0.00		
21	0.00	0.64	0.40	0.64	0.56	0.64	0.08	0.48	0.00	0.08	0.00	0.00		
22	0.00	0.56	0.40	0.64	0.56	0.72	0.08	0.48	0.00	0.08	0.00	0.00		
23	0.00	0.48	0.40	0.56	0.64	0.56	0.32	0.48	0.00	0.08	0.00	0.00		
24	0.00	0.40	0.40	0.56	0.72	4.03	3.92	0.48	0.00	0.08	0.00	0.00		
25	0.00	0.40	0.40	0.56	0.72	22.06	5.52	0.40	0.00	0.08	0.00	0.00		
26	0.00	0.40	0.32	0.56	3.30	42.55	1.61	0.40	0.00	0.00	0.00	0.00		
27	0.00	0.32	0.24	1.34	1.52	18.85	1.34	0.40	0.00	0.00	0.00	0.00		
28	0.00	0.24	0.16	6.88	5.28	14.17	1.07	0.40	0.00	0.00	0.00	0.00		
29	0.00	0.48	0.16	1.80	1.80	6.50	1.16	0.40	0.00	0.00		0.00		
30	0.00	4.58	0.24	1.16	7.76	3.60	5.28	0.40	0.00	0.00		0.00		
31		0.80		0.89	6.50		1.90		0.00	0.00		0.00		
Total	0.00	24.83	17.03	34.66	39.55	153.39	48.93	32.61	3.04	1.76	0.00	0.00	355.80	CMSDAY
Mean	0.00	0.80	0.57	1.12	1.28	5.11	1.58	1.09	0.10	0.06	0.00	0.00	0.97	CMS
Max	0.00	4.58	2.00	6.88	7.76	42.55	7.26	5.40	0.48	0.16	0.00	0.00	42.55	CMS
Min	0.00	0.24	0.16	0.00	0.24	0.56	0.08	0.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	2.15	1.47	3.00	3.42	13.25	4.23	2.82	0.26	0.15	0.00	0.00	30.74	MCM

Momentary Peak 48.38 CMS. at 251.47 m. (MSL.) at 10.00 Hours , on Sep 26 , 2014

Runoff Yield 4.45 Liters/Second/Square KM. Momentary Peak Yield 220.913 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

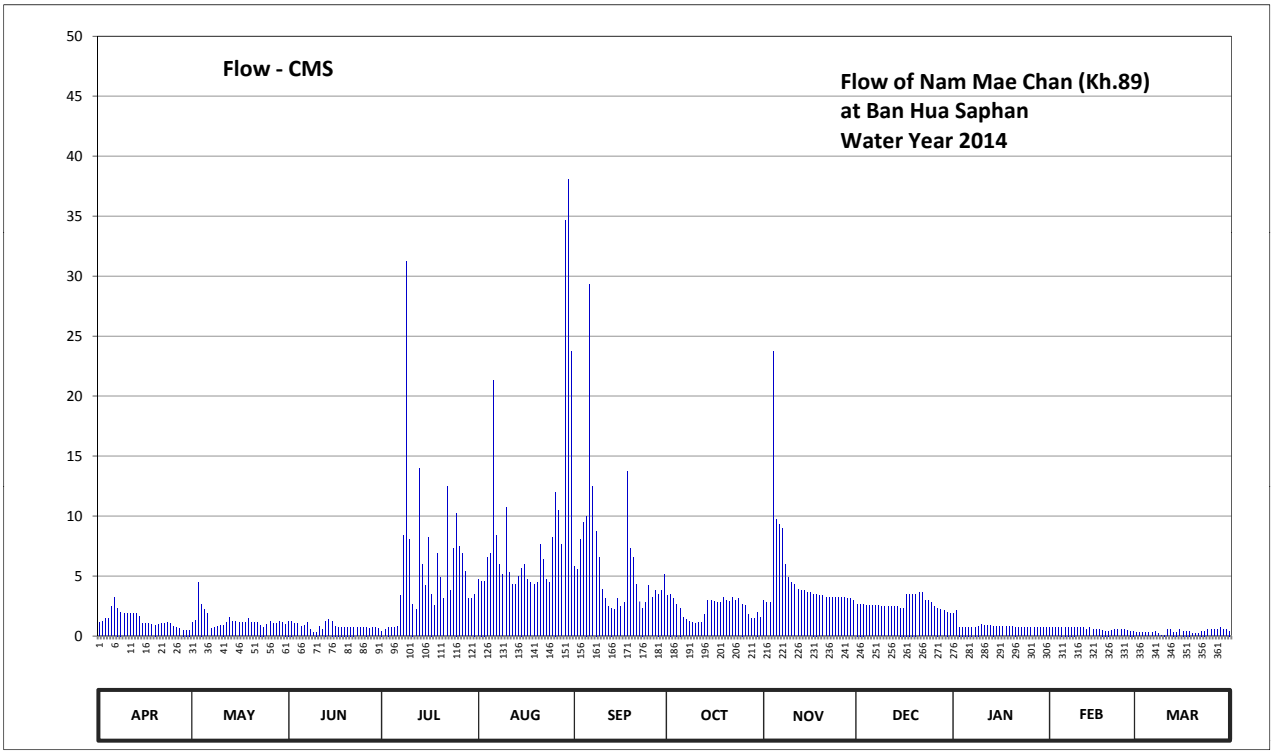
Location : on right bank at the bridge of Mae Chan - Mae Sai Highway from Tambon Pa Sang.

	Ban Hua Saphan	**Amphoe** Mae Chan	**Changwat** Chiang Rai
Drainge Area	248 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+406.385 m. (MSL.)		
Bench Mark	B.M.- Temporary.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +408.840 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.80	406.80	407.05	406.84	407.12	407.20	407.02	406.99	406.96	406.89	406.93	406.79	
2	406.81	406.82	407.05	406.88	407.11	407.18	407.03	406.97	406.96	406.91	406.93	406.79	
3	406.84	407.10	407.01	406.94	407.11	407.32	407.00	406.97	406.96	406.94	406.93	406.79	
4	406.84	406.96	407.01	406.93	407.24	407.40	406.96	407.86	406.95	406.94	406.93	406.79	
5	406.94	406.92	406.95	406.93	407.26	407.42	406.93	407.41	406.95	406.94	406.94	406.80	
6	407.01	406.89	406.97	406.95	407.80	408.00	406.85	407.39	406.95	406.94	406.94	406.79	
7	406.93	406.91	407.03	407.02	407.34	407.52	406.83	407.37	406.95	406.94	406.94	406.82	
8	406.90	406.93	406.89	407.34	407.21	407.36	406.81	407.21	406.95	406.94	406.94	406.74	
9	406.89	406.95	406.79	408.04	407.15	407.24	406.80	407.13	406.94	406.96	406.94	406.67	
10	406.89	406.97	406.81	407.32	407.45	407.06	406.79	407.10	406.94	406.99	406.93	406.69	
11	406.89	406.98	406.95	406.96	407.16	407.00	406.80	407.09	406.94	406.97	406.93	406.89	
12	406.89	407.02	406.88	406.92	407.09	406.94	406.80	407.06	406.94	406.97	406.93	406.88	
13	406.89	407.11	407.05	407.58	407.09	406.93	406.88	407.05	406.94	406.97	406.89	406.81	
14	406.86	407.04	407.07	407.21	407.14	406.92	406.99	407.05	406.94	406.96	406.92	406.81	
15	406.79	407.04	407.05	407.08	407.19	407.00	406.99	407.04	406.93	406.95	406.89	406.88	
16	406.79	407.02	406.96	407.33	407.21	406.94	406.98	407.04	406.93	406.95	406.89	406.84	
17	406.79	407.03	406.94	407.03	407.12	406.97	406.97	407.03	407.03	406.95	406.88	406.84	
18	406.78	407.03	406.94	406.95	407.10	407.57	406.97	407.03	407.03	406.95	406.87	406.84	
19	406.77	407.09	406.94	407.26	407.09	407.28	407.01	407.02	407.03	406.95	406.84	406.77	
20	406.78	407.03	406.94	407.13	407.10	407.24	406.99	407.02	407.03	406.95	406.84	406.74	
21	406.79	407.03	406.94	407.00	407.30	407.09	406.98	407.01	407.04	406.94	406.86	406.74	
22	406.79	407.02	406.94	407.52	407.23	406.98	407.01	407.01	407.04	406.93	406.89	406.84	
23	406.80	406.98	406.93	407.05	407.12	406.93	406.99	407.01	406.99	406.93	406.89	406.84	
24	406.79	406.94	406.93	407.28	407.10	406.97	407.00	407.01	406.99	406.93	406.89	406.88	
25	406.75	406.99	406.93	407.43	407.33	407.08	406.96	407.01	406.97	406.93	406.89	406.88	
26	406.74	407.04	406.94	407.29	407.50	407.01	406.95	407.01	406.94	406.93	406.86	406.89	
27	406.72	407.01	406.91	407.26	407.44	407.05	406.88	407.01	406.93	406.93	406.84	406.89	
28	406.70	407.01	406.93	407.17	407.30	407.03	406.84	407.00	406.92	406.93	406.84	406.92	
29	406.70	407.04	406.93	407.00	408.11	407.05	406.84	407.00	406.91	406.93		406.89	
30	406.70	407.03	406.91	407.00	408.18	407.15	406.90	406.99	406.90	406.93		406.89	
31		407.00		407.03	407.86		406.85		406.89	406.93		406.84	
Mean	406.82	406.99	406.95	407.15	407.31	407.16	406.92	407.10	406.96	406.94	406.90	406.82	
Max	407.01	407.11	407.07	408.04	408.18	408.00	407.03	407.86	407.04	406.99	406.94	406.92	408.18
Min	406.70	406.80	406.79	406.84	407.09	406.92	406.79	406.97	406.89	406.89	406.84	406.67	406.67

Annual Max Momentary Gage Height	409.31	m. (MSL.) ,	at 17.00 Hours , on Aug 29 , 2014		
Zero Gage at Bottom Elevation	406.39	m. (MSL.) ,	River Bed	406.21	m. (MSL.)
Left Bank Elevation	411.67	m. (MSL.) ,			
Right Bank Elevation	411.67	m. (MSL.) ,	Drainage Area	248	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	1.10	1.25	0.42	4.72	5.80	3.37	2.99	2.66	1.91	0.72	0.28		
2	1.19	1.28	1.25	0.54	4.58	5.53	3.50	2.77	2.66	2.11	0.72	0.28		
3	1.46	4.45	1.05	0.76	4.58	8.02	3.10	2.77	2.66	0.76	0.72	0.28		
4	1.46	2.66	1.05	0.72	6.54	9.50	2.66	23.70	2.55	0.76	0.72	0.28		
5	2.44	2.22	0.80	0.72	6.91	10.00	2.33	9.75	2.55	0.76	0.76	0.30		
6	3.24	1.91	0.88	0.80	21.30	29.30	1.55	9.32	2.55	0.76	0.76	0.28		
7	2.33	0.64	1.15	3.37	8.39	12.50	1.37	8.94	2.55	0.76	0.76	0.36		
8	2.00	0.72	0.57	8.39	5.98	8.76	1.19	5.98	2.55	0.76	0.76	0.18		
9	1.91	0.80	0.28	31.24	5.12	6.54	1.10	4.85	2.44	0.84	0.76	0.07		
10	1.91	0.88	0.33	8.02	10.75	3.91	1.04	4.45	2.44	0.96	0.72	0.09		
11	1.91	0.92	0.80	2.66	5.26	3.10	1.10	4.31	2.44	0.88	0.72	0.57		
12	1.91	1.10	0.54	2.22	4.31	2.44	1.10	3.91	2.44	0.88	0.72	0.54		
13	1.91	1.56	1.25	14.00	4.31	2.33	1.82	3.77	2.44	0.88	0.57	0.33		
14	1.64	1.20	1.35	5.98	4.99	2.22	2.99	3.77	2.44	0.84	0.68	0.33		
15	1.04	1.20	1.25	4.18	5.66	3.10	2.99	3.64	2.33	0.80	0.57	0.54		
16	1.04	1.10	0.84	8.20	5.98	2.44	2.88	3.64	2.33	0.80	0.57	0.42		
17	1.04	1.15	0.76	3.50	4.72	2.77	2.77	3.50	3.50	0.80	0.54	0.42		
18	0.98	1.15	0.76	2.55	4.45	13.75	2.77	3.50	3.50	0.80	0.51	0.42		
19	0.92	1.45	0.76	6.91	4.31	7.28	3.24	3.37	3.50	0.80	0.42	0.24		
20	0.98	1.15	0.76	4.85	4.45	6.54	2.99	3.37	3.50	0.80	0.42	0.18		
21	1.04	1.15	0.76	3.10	7.65	4.31	2.88	3.24	3.64	0.76	0.48	0.18		
22	1.04	1.10	0.76	12.50	6.36	2.88	3.24	3.24	3.64	0.72	0.57	0.42		
23	1.10	0.92	0.72	3.77	4.72	2.33	2.99	3.24	2.99	0.72	0.57	0.42		
24	1.04	0.76	0.72	7.28	4.45	2.77	3.10	3.24	2.99	0.72	0.57	0.54		
25	0.80	0.96	0.72	10.25	8.20	4.18	2.66	3.24	2.77	0.72	0.57	0.54		
26	0.74	1.20	0.76	7.47	12.00	3.24	2.55	3.24	2.44	0.72	0.48	0.57		
27	0.62	1.05	0.64	6.91	10.50	3.77	1.82	3.24	2.33	0.72	0.42	0.57		
28	0.50	1.05	0.72	5.40	7.65	3.50	1.46	3.10	2.22	0.72	0.42	0.68		
29	0.50	1.20	0.72	3.10	34.63	3.77	1.46	3.10	2.11	0.72		0.57		
30	0.50	1.15	0.64	3.10	38.03	5.12	2.00	2.99	2.00	0.72		0.57		
31		1.00		3.50	23.70		1.55		1.91	0.72		0.42		
Total	40.29	40.18	24.84	176.41	285.20	181.70	71.57	144.17	83.07	26.62	17.20	11.87	1103.12	CMSDAY
Mean	1.34	1.30	0.83	5.69	9.20	6.06	2.31	4.81	2.68	0.86	0.61	0.38	3.02	CMS
Max	3.24	4.45	1.35	31.24	38.03	29.30	3.50	23.70	3.64	2.11	0.76	0.68	38.03	CMS
Min	0.50	0.64	0.28	0.42	4.31	2.22	1.04	2.77	1.91	0.72	0.42	0.07	0.07	CMS
Runoff	3.48	3.47	2.15	15.24	24.64	15.70	6.18	12.46	7.18	2.30	1.49	1.03	95.31	MCM

Momentary Peak 115.12 CMS. at 409.31 m. (MSL.) at 17.00 Hours , on Aug 29 , 2014

Runoff Yield 12.19 Liters/Second/Square KM. Momentary Peak Yield 464.194 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

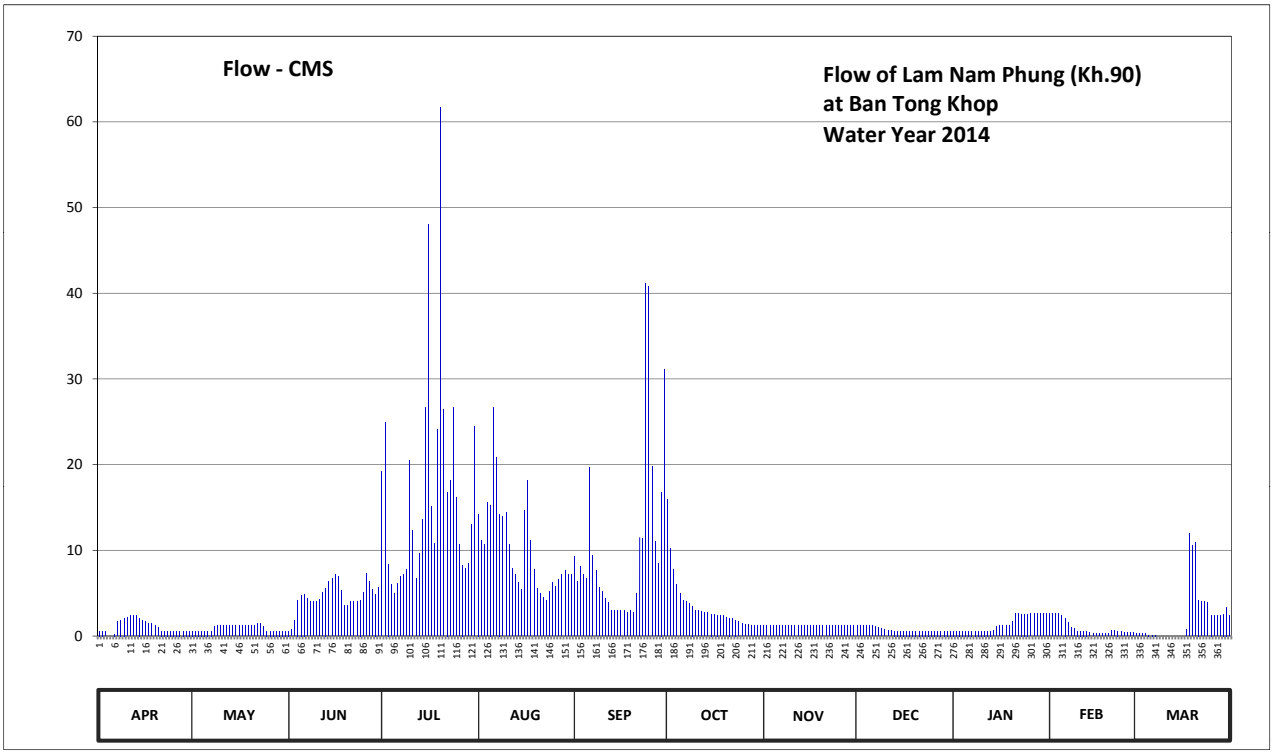
Location : on right bank at the bridge on highway.

	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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.30	158.30	158.30	159.98	159.65	159.27	159.76	158.40	158.40	158.30	158.64	158.25	
2	158.30	158.30	158.32	160.32	159.43	159.03	159.35	158.40	158.40	158.30	158.64	158.25	
3	158.29	158.30	158.50	159.20	159.39	159.18	159.15	158.40	158.40	158.30	158.64	158.25	
4	158.20	158.30	158.82	159.00	159.74	159.10	159.00	158.40	158.40	158.30	158.64	158.25	
5	158.15	158.30	158.88	158.90	159.72	159.06	158.90	158.40	158.40	158.30	158.60	158.22	
6	158.24	158.30	158.89	159.01	160.42	160.01	158.81	158.40	158.40	158.30	158.55	158.22	
7	158.49	158.30	158.84	159.08	160.08	159.28	158.80	158.40	158.39	158.30	158.47	158.22	
8	158.51	158.39	158.80	159.10	159.65	159.14	158.78	158.40	158.37	158.30	158.36	158.20	
9	158.55	158.40	158.80	159.15	159.63	158.97	158.75	158.40	158.35	158.30	158.34	158.20	
10	158.56	158.40	158.80	160.06	159.66	158.92	158.70	158.40	158.33	158.30	158.30	158.20	
11	158.60	158.40	158.83	159.52	159.39	158.84	158.70	158.40	158.31	158.30	158.30	158.20	
12	158.60	158.40	158.91	159.06	159.16	158.79	158.68	158.40	158.31	158.30	158.30	158.20	
13	158.60	158.40	158.96	159.30	159.10	158.70	158.66	158.40	158.30	158.30	158.30	158.20	
14	158.55	158.41	159.03	159.61	159.02	158.70	158.65	158.40	158.30	158.31	158.27	158.20	
15	158.50	158.40	159.06	160.42	158.94	158.70	158.63	158.40	158.30	158.38	158.25	158.20	
16	158.49	158.40	159.10	161.25	159.68	158.70	158.62	158.40	158.30	158.40	158.25	158.20	
17	158.45	158.40	159.08	159.71	159.91	158.70	158.61	158.40	158.30	158.40	158.25	158.33	
18	158.44	158.40	158.93	159.40	159.43	158.66	158.60	158.40	158.30	158.40	158.25	159.50	
19	158.40	158.40	158.76	160.27	159.15	158.69	158.59	158.40	158.30	158.40	158.25	159.38	
20	158.37	158.40	158.76	161.59	158.95	158.66	158.56	158.40	158.30	158.49	158.25	159.41	
21	158.30	158.40	158.80	160.41	158.90	158.90	158.55	158.40	158.30	158.64	158.31	158.82	
22	158.30	158.45	158.80	159.82	158.85	159.46	158.54	158.40	158.30	158.64	158.31	158.80	
23	158.30	158.45	158.80	159.91	158.81	159.45	158.51	158.40	158.30	158.63	158.30	158.80	
24	158.30	158.39	158.82	160.42	158.92	161.06	158.48	158.40	158.30	158.63	158.29	158.79	
25	158.30	158.30	158.91	159.78	159.02	161.05	158.45	158.40	158.30	158.63	158.27	158.61	
26	158.30	158.30	159.11	159.39	158.98	160.02	158.43	158.40	158.30	158.64	158.27	158.60	
27	158.30	158.30	159.03	159.19	159.05	159.42	158.42	158.40	158.30	158.64	158.27	158.60	
28	158.30	158.30	158.94	159.16	159.10	159.21	158.40	158.40	158.30	158.64	158.27	158.60	
29	158.30	158.30	158.89	159.21	159.14	159.82	158.40	158.40	158.30	158.64		158.63	
30	158.30	158.30	158.97	159.57	159.10	160.68	158.40	158.40	158.30	158.64		158.74	
31		158.30		160.29	159.10		158.40		158.30	158.64		158.59	
Mean	158.39	158.36	158.85	159.71	159.32	159.27	158.69	158.40	158.33	158.44	158.36	158.51	
Max	158.60	158.45	159.11	161.59	160.42	161.06	159.76	158.40	158.40	158.64	158.64	159.50	161.59
Min	158.15	158.30	158.30	158.90	158.81	158.66	158.40	158.40	158.30	158.30	158.25	158.20	158.15

Annual Max Momentary Gage Height	162.40	m. (MSL.) ,	at 01.00 Hours , on Jul 20 , 2014		
Zero Gage at Bottom Elevation	158.50	m. (MSL.) ,	River Bed	157.10	m. (MSL.)
Left Bank Elevation	167.37	m. (MSL.) ,			
Right Bank Elevation	167.37	m. (MSL.) ,	Drainage Area	861	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.60	0.60	19.20	14.25	9.24	15.90	1.20	1.20	0.60	2.64	0.30		
2	0.60	0.60	0.72	24.94	11.16	6.36	10.20	1.20	1.20	0.60	2.64	0.30		
3	0.54	0.60	1.80	8.40	10.68	8.16	7.80	1.20	1.20	0.60	2.64	0.30		
4	0.00	0.60	4.20	6.00	15.60	7.20	6.00	1.20	1.20	0.60	2.64	0.30		
5	0.00	0.60	4.80	5.00	15.30	6.72	5.00	1.20	1.20	0.60	2.40	0.12		
6	0.24	0.60	4.90	6.12	26.64	19.67	4.10	1.20	1.20	0.60	2.10	0.12		
7	1.74	0.60	4.40	6.96	20.86	9.36	4.00	1.20	1.14	0.60	1.62	0.12		
8	1.86	1.14	4.00	7.20	14.25	7.68	3.80	1.20	1.02	0.60	0.96	0.00		
9	2.10	1.20	4.00	7.80	13.95	5.70	3.50	1.20	0.90	0.60	0.84	0.00		
10	2.16	1.20	4.00	20.52	14.40	5.20	3.00	1.20	0.78	0.60	0.60	0.00		
11	2.40	1.20	4.30	12.30	10.68	4.40	3.00	1.20	0.66	0.60	0.60	0.00		
12	2.40	1.20	5.10	6.72	7.92	3.90	2.88	1.20	0.66	0.60	0.60	0.00		
13	2.40	1.20	5.60	9.60	7.20	3.00	2.76	1.20	0.60	0.60	0.60	0.00		
14	2.10	1.26	6.36	13.65	6.24	3.00	2.70	1.20	0.60	0.66	0.42	0.00		
15	1.80	1.20	6.72	26.64	5.40	3.00	2.58	1.20	0.60	1.08	0.30	0.00		
16	1.74	1.20	7.20	48.00	14.70	3.00	2.52	1.20	0.60	1.20	0.30	0.00		
17	1.50	1.20	6.96	15.15	18.15	3.00	2.46	1.20	0.60	1.20	0.30	0.78		
18	1.44	1.20	5.30	10.80	11.16	2.76	2.40	1.20	0.60	1.20	0.30	12.00		
19	1.20	1.20	3.60	24.09	7.80	2.94	2.34	1.20	0.60	1.20	0.30	10.56		
20	1.02	1.20	3.60	61.68	5.50	2.76	2.16	1.20	0.60	1.74	0.30	10.92		
21	0.60	1.20	4.00	26.47	5.00	5.00	2.10	1.20	0.60	2.64	0.66	4.20		
22	0.60	1.50	4.00	16.80	4.50	11.52	2.04	1.20	0.60	2.64	0.66	4.00		
23	0.60	1.50	4.00	18.15	4.10	11.40	1.86	1.20	0.60	2.58	0.60	4.00		
24	0.60	1.14	4.20	26.64	5.20	41.16	1.68	1.20	0.60	2.58	0.54	3.90		
25	0.60	0.60	5.10	16.20	6.24	40.80	1.50	1.20	0.60	2.58	0.42	2.46		
26	0.60	0.60	7.32	10.68	5.80	19.84	1.38	1.20	0.60	2.64	0.42	2.40		
27	0.60	0.60	6.36	8.28	6.60	11.04	1.32	1.20	0.60	2.64	0.42	2.40		
28	0.60	0.60	5.40	7.92	7.20	8.52	1.20	1.20	0.60	2.64	0.42	2.40		
29	0.60	0.60	4.90	8.52	7.68	16.80	1.20	1.20	0.60	2.64		2.58		
30	0.60	0.60	5.70	13.05	7.20	31.14	1.20	1.20	0.60	2.64		3.40		
31		0.60		24.43	7.20		1.20		0.60	2.64		2.34		
Total	33.84	29.34	139.14	517.91	318.56	314.27	105.78	36.00	23.76	44.94	27.24	69.90	1660.68	CMSDAY
Mean	1.13	0.95	4.64	16.71	10.28	10.48	3.41	1.20	0.77	1.45	0.97	2.25	4.55	CMS
Max	2.40	1.50	7.32	61.68	26.64	41.16	15.90	1.20	1.20	2.64	2.64	12.00	61.68	CMS
Min	0.00	0.60	0.60	5.00	4.10	2.76	1.20	1.20	0.60	0.60	0.30	0.00	0.00	CMS
Runoff	2.92	2.54	12.02	44.75	27.52	27.15	9.14	3.11	2.05	3.88	2.35	6.04	143.48	MCM

Momentary Peak 107.80 CMS. at 162.40 m. (MSL.) at 01.00 Hours , on Jul 20 , 2014

Runoff Yield 5.28 Liters/Second/Square KM. Momentary Peak Yield 125.203 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

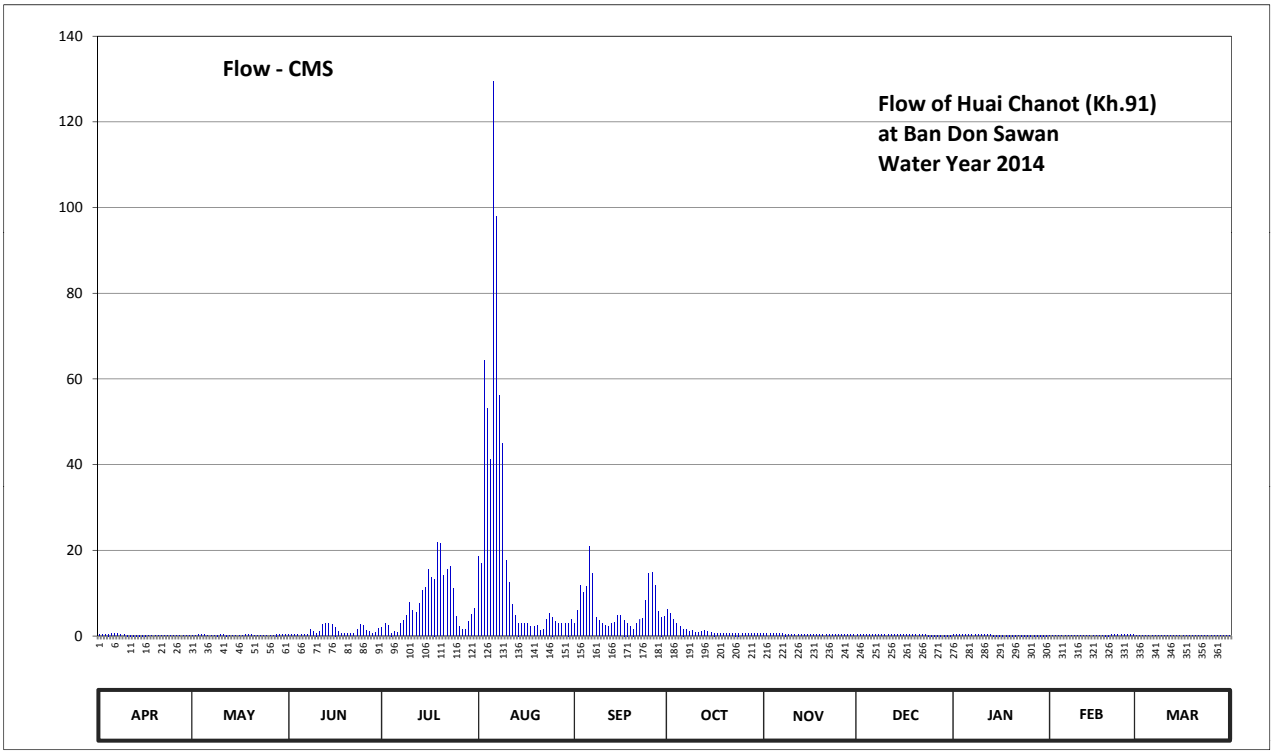
Location : on left bank at the bridge on highway.

	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 Flot	-		
Rated by Current Meter	1996 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 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.09	149.96	150.10	150.76	152.51	151.00	151.52	150.40	150.13	150.09	150.03	150.01	
2	150.10	149.98	150.11	150.97	152.40	151.48	151.39	150.40	150.14	150.10	150.03	150.00	
3	150.15	150.12	150.19	150.88	154.17	151.99	151.15	150.35	150.17	150.10	150.03	150.00	
4	150.28	150.17	150.11	150.50	153.85	151.85	150.96	150.35	150.15	150.10	150.03	150.00	
5	150.37	150.16	150.08	150.57	153.47	151.96	150.83	150.33	150.15	150.08	150.02	150.00	
6	150.44	150.01	150.09	150.52	155.75	152.65	150.70	150.30	150.15	150.08	150.02	149.99	
7	150.31	150.00	150.21	150.97	155.02	152.21	150.67	150.30	150.15	150.08	150.00	149.99	
8	150.23	150.00	150.66	151.09	153.94	151.22	150.60	150.27	150.16	150.08	150.00	149.98	
9	150.12	150.05	150.57	151.30	153.59	151.11	150.62	150.25	150.11	150.08	150.02	149.97	
10	150.07	150.10	150.49	151.65	152.44	151.00	150.52	150.25	150.10	150.08	150.01	149.96	
11	150.05	150.08	150.58	151.49	152.04	150.90	150.54	150.25	150.10	150.08	150.02	149.95	
12	150.05	150.05	150.92	151.40	151.61	150.85	150.57	150.25	150.10	150.08	150.00	149.94	
13	150.05	150.00	151.00	151.64	151.31	150.99	150.61	150.25	150.11	150.08	150.00	149.93	
14	150.05	150.00	151.00	151.88	151.01	151.02	150.59	150.25	150.15	150.05	150.00	149.93	
15	150.05	150.00	150.95	151.95	151.00	151.28	150.53	150.25	150.13	150.05	150.00	149.94	
16	150.05	150.00	150.81	152.29	151.00	151.29	150.50	150.25	150.10	150.05	150.00	149.96	
17	150.02	150.00	150.58	152.14	150.96	151.12	150.42	150.24	150.10	150.05	150.00	149.93	
18	150.00	150.09	150.44	152.11	150.84	151.01	150.40	150.23	150.08	150.05	150.01	149.93	
19	150.00	150.10	150.43	152.69	150.84	150.82	150.40	150.22	150.08	150.05	150.06	149.93	
20	150.00	150.08	150.41	152.68	150.89	150.70	150.40	150.21	150.10	150.05	150.07	149.91	
21	150.00	150.02	150.43	152.17	150.64	150.99	150.40	150.22	150.11	150.05	150.12	149.90	
22	150.00	150.00	150.48	152.29	150.68	151.16	150.41	150.18	150.10	150.01	150.15	149.95	
23	150.00	150.00	150.66	152.34	151.15	151.19	150.50	150.15	150.10	150.05	150.17	149.95	
24	149.97	150.00	150.95	151.92	151.39	151.69	150.50	150.15	150.07	150.05	150.14	149.93	
25	149.95	150.00	150.88	151.26	151.24	152.22	150.47	150.13	150.05	150.05	150.10	149.95	
26	149.95	150.00	150.63	150.84	151.08	152.23	150.40	150.13	150.05	150.05	150.10	149.95	
27	149.99	150.03	150.60	150.68	151.00	151.99	150.37	150.13	150.05	150.05	150.10	149.90	
28	150.00	150.28	150.45	150.69	151.00	151.45	150.36	150.13	150.05	150.05	150.10	149.93	
29	149.95	150.20	150.51	151.07	151.00	151.24	150.36	150.13	150.05	150.06		149.95	
30	149.95	150.11	150.74	151.35	151.01	151.27	150.34	150.13	150.05	150.06		149.97	
31		150.10		151.54	151.14		150.37		150.05	150.05		149.97	
Mean	150.07	150.05	150.54	151.47	151.93	151.40	150.59	150.24	150.10	150.06	150.05	149.95	
Max	150.44	150.28	151.00	152.69	155.75	152.65	151.52	150.40	150.17	150.10	150.17	150.01	155.75
Min	149.95	149.96	150.08	150.50	150.64	150.70	150.34	150.13	150.05	150.01	150.00	149.90	149.90

Annual Max Momentary Gage Height	155.94	m. (MSL.) ,	at 15.00 Hours , on Aug 6 , 2014		
Zero Gage at Bottom Elevation	149.00	m. (MSL.) ,	River Bed	149.35	m. (MSL.)
Left Bank Elevation	159.00	m. (MSL.) ,			
Right Bank Elevation	158.96	m. (MSL.) ,	Drainage Area	172	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.29	0.16	0.30	1.90	18.56	3.00	6.24	0.60	0.33	0.29	0.23	0.21		
2	0.30	0.18	0.31	2.86	17.00	5.88	5.34	0.60	0.34	0.30	0.23	0.20		
3	0.35	0.32	0.39	2.45	64.46	11.88	3.90	0.55	0.37	0.30	0.23	0.20		
4	0.48	0.37	0.31	0.70	53.20	10.20	2.82	0.55	0.35	0.30	0.23	0.20		
5	0.57	0.36	0.28	1.02	41.16	11.52	2.22	0.53	0.35	0.28	0.22	0.20		
6	0.64	0.21	0.29	0.79	129.50	21.00	1.62	0.50	0.35	0.28	0.22	0.19		
7	0.51	0.20	0.41	2.86	97.80	14.52	1.48	0.50	0.35	0.28	0.20	0.19		
8	0.43	0.20	1.44	3.54	56.08	4.32	1.16	0.47	0.36	0.28	0.20	0.18		
9	0.32	0.25	1.02	4.80	44.88	3.66	1.25	0.45	0.31	0.28	0.22	0.17		
10	0.27	0.30	0.69	7.80	17.56	3.00	0.79	0.45	0.30	0.28	0.21	0.16		
11	0.25	0.28	1.07	5.94	12.48	2.54	0.88	0.45	0.30	0.28	0.22	0.15		
12	0.25	0.25	2.63	5.40	7.32	2.31	1.02	0.45	0.30	0.28	0.20	0.14		
13	0.25	0.20	3.00	7.68	4.86	2.95	1.21	0.45	0.31	0.28	0.20	0.13		
14	0.25	0.20	3.00	10.56	3.06	3.12	1.11	0.45	0.35	0.25	0.20	0.13		
15	0.25	0.20	2.77	11.40	3.00	4.68	0.84	0.45	0.33	0.25	0.20	0.14		
16	0.25	0.20	2.13	15.48	3.00	4.74	0.70	0.45	0.30	0.25	0.20	0.16		
17	0.22	0.20	1.07	13.68	2.82	3.72	0.62	0.44	0.30	0.25	0.20	0.13		
18	0.20	0.29	0.64	13.32	2.26	3.06	0.60	0.43	0.28	0.25	0.21	0.13		
19	0.20	0.30	0.63	21.80	2.26	2.17	0.60	0.42	0.28	0.25	0.26	0.13		
20	0.20	0.28	0.61	21.60	2.49	1.62	0.60	0.41	0.30	0.25	0.27	0.11		
21	0.20	0.22	0.63	14.04	1.34	2.95	0.60	0.42	0.31	0.25	0.32	0.10		
22	0.20	0.20	0.68	15.48	1.53	3.96	0.61	0.38	0.30	0.21	0.35	0.15		
23	0.20	0.20	1.44	16.16	3.90	4.14	0.70	0.35	0.30	0.25	0.37	0.15		
24	0.17	0.20	2.77	11.04	5.34	8.28	0.70	0.35	0.27	0.25	0.34	0.13		
25	0.15	0.20	2.45	4.56	4.44	14.64	0.67	0.33	0.25	0.25	0.30	0.15		
26	0.15	0.20	1.30	2.26	3.48	14.76	0.60	0.33	0.25	0.25	0.30	0.15		
27	0.19	0.23	1.16	1.53	3.00	11.88	0.57	0.33	0.25	0.25	0.30	0.10		
28	0.20	0.48	0.65	1.57	3.00	5.70	0.56	0.33	0.25	0.25	0.30	0.13		
29	0.15	0.40	0.75	3.42	3.00	4.44	0.56	0.33	0.25	0.26		0.15		
30	0.15	0.31	1.80	5.10	3.06	4.62	0.54	0.33	0.25	0.26		0.17		
31		0.30		6.48	3.84		0.57		0.25	0.25		0.17		
Total	8.24	7.89	36.62	237.22	619.68	195.26	41.68	13.08	9.39	8.19	6.93	4.80	1188.98	CMSDAY
Mean	0.27	0.25	1.22	7.65	19.99	6.51	1.34	0.44	0.30	0.26	0.25	0.15	3.26	CMS
Max	0.64	0.48	3.00	21.80	129.50	21.00	6.24	0.60	0.37	0.30	0.37	0.21	129.50	CMS
Min	0.15	0.16	0.28	0.70	1.34	1.62	0.54	0.33	0.25	0.21	0.20	0.10	0.10	CMS
Runoff	0.71	0.68	3.16	20.50	53.54	16.87	3.60	1.13	0.81	0.71	0.60	0.42	102.73	MCM

Momentary Peak 139.00 CMS. at 155.94 m. (MSL.) at 15.00 Hours , on Aug 6 , 2014

Runoff Yield 18.94 Liters/Second/Square KM. Momentary Peak Yield 808.140 Liters/Second/Square KM.

WATER YEAR : 2014

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

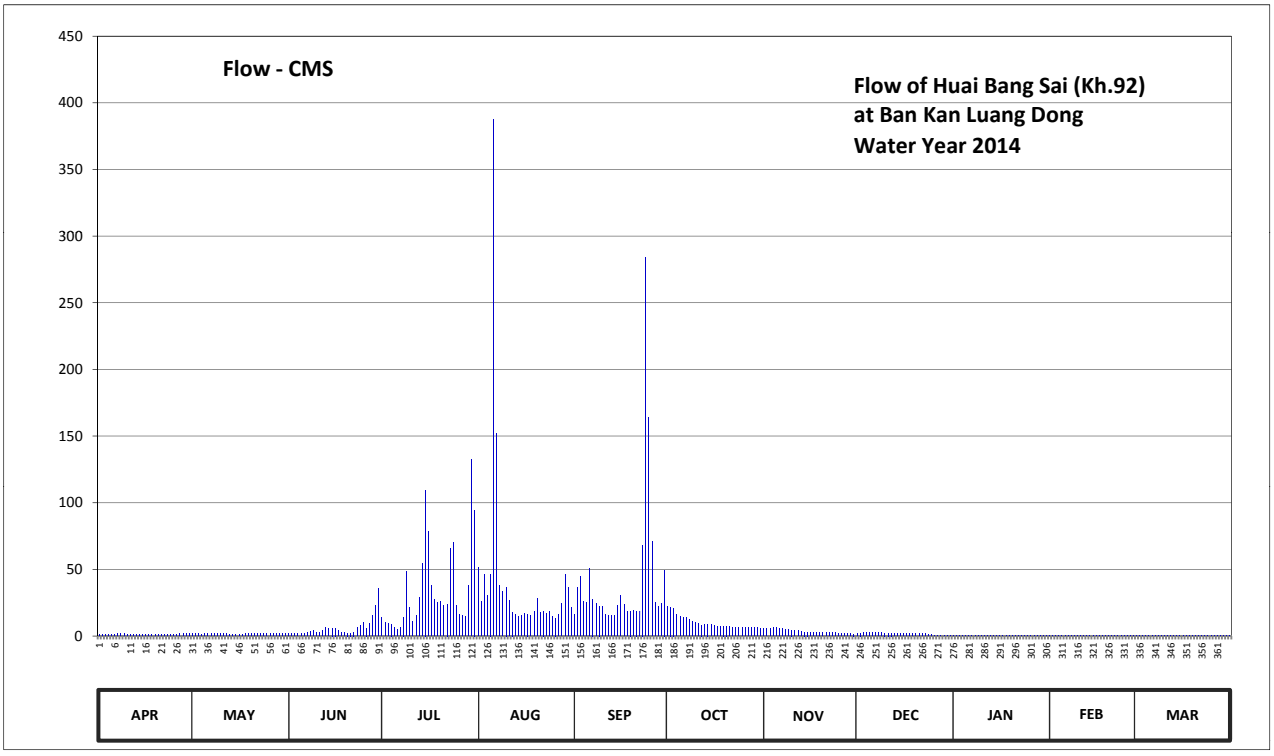
Location : on left bank at the bridge on highway.

	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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The local weir situated downstream from the gage site.		
	Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.57	148.65	148.67	149.79	151.38	149.93	150.26	149.14	148.66	148.42	148.35	148.42	
2	148.57	148.64	148.67	149.50	150.46	150.86	150.24	149.14	148.76	148.42	148.32	148.42	
3	148.57	148.64	148.64	149.45	151.21	151.15	150.20	149.14	148.82	148.42	148.34	148.42	
4	148.54	148.59	148.64	149.41	150.63	150.45	149.95	149.17	148.79	148.42	148.34	148.39	
5	148.54	148.64	148.64	149.22	151.22	150.42	149.84	149.17	148.79	148.44	148.34	148.39	
6	148.59	148.67	148.66	149.06	156.13	151.35	149.76	149.14	148.78	148.42	148.34	148.39	
7	148.64	148.67	148.77	149.17	153.53	150.53	149.77	149.14	148.77	148.42	148.32	148.34	
8	148.64	148.64	148.91	149.80	150.93	150.38	149.68	149.09	148.77	148.42	148.32	148.34	
9	148.62	148.65	148.99	151.28	150.74	150.28	149.55	149.09	148.77	148.39	148.34	148.35	
10	148.59	148.69	148.86	150.21	150.88	150.26	149.53	149.04	148.76	148.39	148.34	148.39	
11	148.59	148.66	148.86	149.57	150.48	149.93	149.43	149.03	148.75	148.39	148.34	148.37	
12	148.59	148.62	149.02	149.89	150.05	149.87	149.35	148.99	148.74	148.39	148.34	148.34	
13	148.59	148.59	149.17	150.57	149.94	149.87	149.40	148.94	148.72	148.38	148.34	148.34	
14	148.59	148.59	149.15	151.48	149.85	149.90	149.41	148.89	148.71	148.38	148.37	148.34	
15	148.57	148.59	149.16	152.82	149.88	150.31	149.37	148.89	148.69	148.38	148.37	148.37	
16	148.57	148.54	149.16	152.15	149.98	150.62	149.34	148.84	148.69	148.38	148.37	148.37	
17	148.57	148.54	149.02	150.91	149.97	150.32	149.28	148.84	148.69	148.38	148.37	148.37	
18	148.57	148.62	148.84	150.52	149.87	150.08	149.25	148.87	148.69	148.38	148.34	148.34	
19	148.54	148.64	148.77	150.40	150.08	150.09	149.29	148.87	148.70	148.38	148.34	148.34	
20	148.54	148.64	148.74	150.46	150.55	150.12	149.29	148.87	148.71	148.38	148.39	148.34	
21	148.59	148.64	148.76	150.31	150.03	150.09	149.24	148.84	148.72	148.38	148.44	148.34	
22	148.59	148.64	148.89	150.35	150.09	150.09	149.22	148.82	148.72	148.38	148.44	148.34	
23	148.59	148.69	149.19	151.81	150.00	151.89	149.19	148.84	148.67	148.38	148.43	148.34	
24	148.59	148.69	149.33	151.94	150.07	155.12	149.19	148.77	148.56	148.38	148.43	148.34	
25	148.59	148.67	149.52	150.30	149.83	153.69	149.19	148.71	148.48	148.38	148.42	148.34	
26	148.59	148.67	149.16	149.96	149.75	151.97	149.19	148.67	148.44	148.38	148.44	148.34	
27	148.64	148.64	149.43	149.88	149.92	150.42	149.20	148.64	148.44	148.38	148.44	148.34	
28	148.68	148.64	149.89	149.85	150.36	150.27	149.20	148.62	148.44	148.38	148.44	148.34	
29	148.69	148.67	150.30	150.92	151.21	150.36	149.22	148.62	148.44	148.38		148.34	
30	148.69	148.67	150.84	153.22	150.87	151.32	149.18	148.61	148.44	148.38		148.34	
31		148.64		152.53	150.21		149.14		148.44	148.38		148.34	
Mean	148.59	148.64	149.09	150.54	150.65	150.73	149.46	148.91	148.66	148.39	148.37	148.36	
Max	148.69	148.69	150.84	153.22	156.13	155.12	150.26	149.17	148.82	148.44	148.44	148.42	156.13
Min	148.54	148.54	148.64	149.06	149.75	149.87	149.14	148.61	148.44	148.38	148.32	148.34	148.32

Annual Max Momentary Gage Height	156.76	m. (MSL.) ,	at 14.00 Hours , on Aug 6 , 2014		
Zero Gage at Bottom Elevation	147.84	m. (MSL.) ,	River Bed	148.26	m. (MSL.)
Left Bank Elevation	158.92	m. (MSL.) ,			
Right Bank Elevation	158.85	m. (MSL.) ,	Drainage Area	1119	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.35	1.75	1.85	14.06	51.40	16.02	22.20	5.68	1.80	0.60	0.25	0.60		
2	1.35	1.70	1.85	10.00	26.20	36.36	21.80	5.68	2.30	0.60	0.10	0.60		
3	1.35	1.70	1.70	9.40	46.30	44.50	21.00	5.68	2.60	0.60	0.20	0.60		
4	1.20	1.45	1.70	8.92	30.38	26.00	16.30	6.04	2.45	0.60	0.20	0.45		
5	1.20	1.70	1.70	6.64	46.60	25.40	14.76	6.04	2.45	0.70	0.20	0.45		
6	1.45	1.85	1.80	4.72	387.30	50.50	13.64	5.68	2.40	0.60	0.20	0.45		
7	1.70	1.85	2.35	6.04	152.16	27.78	13.78	5.68	2.35	0.60	0.10	0.20		
8	1.70	1.70	3.10	14.20	38.18	24.60	12.52	5.08	2.35	0.60	0.10	0.20		
9	1.60	1.75	3.90	48.40	33.24	22.60	10.70	5.08	2.35	0.45	0.20	0.25		
10	1.45	1.95	2.80	21.20	36.88	22.20	10.42	4.48	2.30	0.45	0.20	0.45		
11	1.45	1.80	2.80	10.98	26.60	16.02	9.16	4.36	2.25	0.45	0.20	0.35		
12	1.45	1.60	4.24	15.46	18.00	15.18	8.20	3.90	2.20	0.45	0.20	0.20		
13	1.45	1.45	6.04	28.82	16.16	15.18	8.80	3.40	2.10	0.40	0.20	0.20		
14	1.45	1.45	5.80	54.40	14.90	15.60	8.92	2.95	2.05	0.40	0.35	0.20		
15	1.35	1.45	5.92	109.64	15.32	23.20	8.44	2.95	1.95	0.40	0.35	0.35		
16	1.35	1.20	5.92	78.30	16.72	30.12	8.08	2.70	1.95	0.40	0.35	0.35		
17	1.35	1.20	4.24	37.66	16.58	23.40	7.36	2.70	1.95	0.40	0.35	0.35		
18	1.35	1.60	2.70	27.52	15.18	18.60	7.00	2.85	1.95	0.40	0.20	0.20		
19	1.20	1.70	2.35	25.00	18.60	18.80	7.48	2.85	2.00	0.40	0.20	0.20		
20	1.20	1.70	2.20	26.20	28.30	19.40	7.48	2.85	2.05	0.40	0.45	0.20		
21	1.45	1.70	2.30	23.20	17.60	18.80	6.88	2.70	2.10	0.40	0.70	0.20		
22	1.45	1.70	2.95	24.00	18.80	18.80	6.64	2.60	2.10	0.40	0.70	0.20		
23	1.45	1.95	6.28	65.54	17.00	68.26	6.28	2.70	1.85	0.40	0.65	0.20		
24	1.45	1.95	7.96	69.96	18.40	284.12	6.28	2.35	1.30	0.40	0.65	0.20		
25	1.45	1.85	10.28	23.00	14.62	163.68	6.28	2.05	0.90	0.40	0.60	0.20		
26	1.45	1.85	5.92	16.44	13.50	70.98	6.28	1.85	0.70	0.40	0.70	0.20		
27	1.70	1.70	9.16	15.32	15.88	25.40	6.40	1.70	0.70	0.40	0.70	0.20		
28	1.90	1.70	15.46	14.90	24.20	22.40	6.40	1.60	0.70	0.40	0.70	0.20		
29	1.95	1.85	23.00	37.92	46.30	24.20	6.64	1.60	0.70	0.40		0.20		
30	1.95	1.85	35.84	132.64	36.62	49.60	6.16	1.55	0.70	0.40		0.20		
31		1.70		94.56	21.20		5.68		0.70	0.40		0.20		
Total	44.15	52.35	184.11	1075.04	1279.12	1237.70	307.96	107.33	56.25	14.30	10.00	9.05	4377.36	CMSDAY
Mean	1.47	1.69	6.14	34.68	41.26	41.26	9.93	3.58	1.81	0.46	0.36	0.29	11.99	CMS
Max	1.95	1.95	35.84	132.64	387.30	284.12	22.20	6.04	2.60	0.70	0.70	0.60	387.30	CMS
Min	1.20	1.20	1.70	4.72	13.50	15.18	5.68	1.55	0.70	0.40	0.10	0.20	0.10	CMS
Runoff	3.82	4.52	15.91	92.88	110.52	106.94	26.61	9.27	4.86	1.24	0.86	0.78	378.20	MCM

Momentary Peak 458.16 CMS. at 156.76 m. (MSL.) at 14.00 Hours , on Aug 6 , 2014

Runoff Yield 10.72 Liters/Second/Square KM. Momentary Peak Yield 409.437 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Khok Kham Lai, Udon Thani (Kh.93)

Lat 17 - 33 - 22 N Long 103 - 20 - 20 E

Location : on left bank at the bridge of Amphoe Ban Duang - Amphoe Sawang Daen Din Highway.

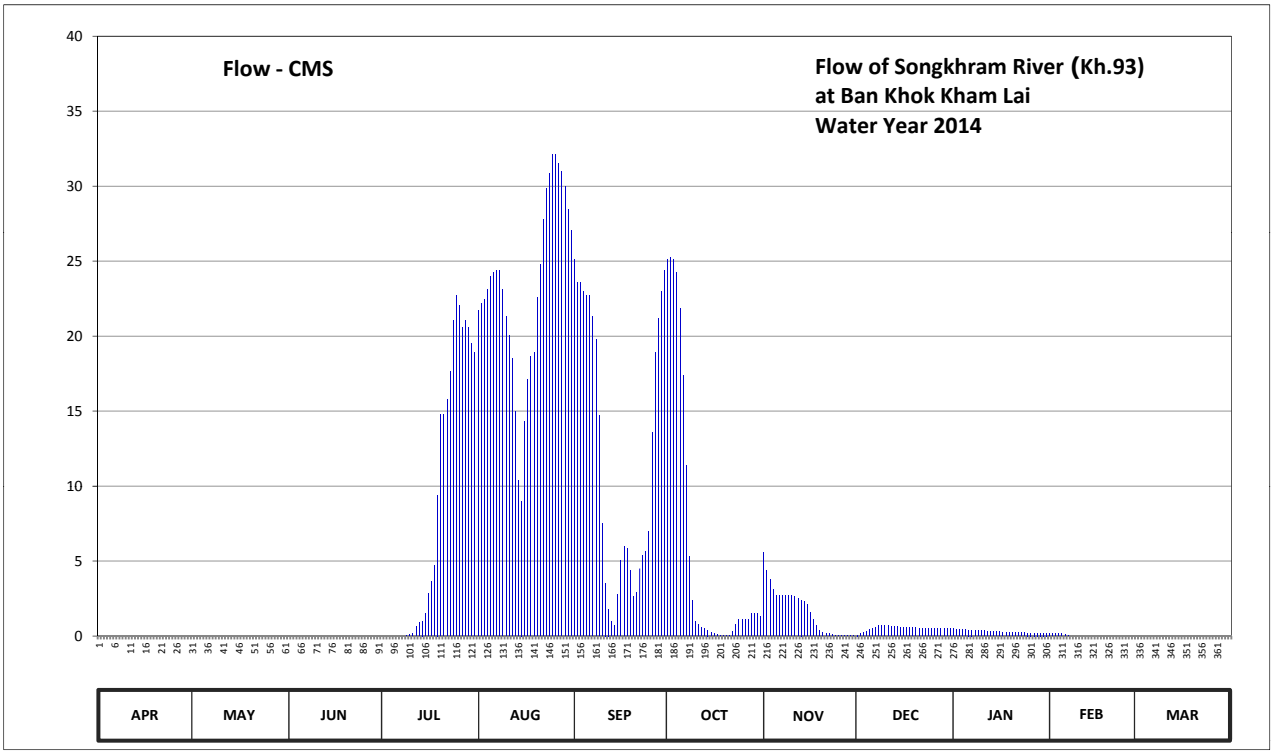
Ban Khok Kham Lai **Amphoe** Ban Dung **Changwat** Udon Thani

Drainge Area	760 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+153.120 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On left bank downstream side at the footpath of the bridge. **Elevation** +161.354 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 Flot	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +156.90 m.(MSL.), records are channel flow only.
General Description	Records fair. The weir situated downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.97	154.10	154.26	154.58	157.41	157.65	157.65	155.93	154.63	154.80	154.67	154.44	
2	153.97	154.11	154.26	154.57	157.44	157.54	157.66	155.73	154.66	154.78	154.66	154.44	
3	153.97	154.12	154.26	154.56	157.46	157.54	157.65	155.63	154.70	154.78	154.66	154.42	
4	153.97	154.13	154.28	154.56	157.51	157.50	157.59	155.52	154.73	154.78	154.66	154.40	
5	153.97	154.14	154.28	154.56	157.57	157.48	157.42	155.42	154.77	154.78	154.66	154.40	
6	153.97	154.15	154.28	154.56	157.59	157.48	157.10	155.42	154.80	154.76	154.64	154.37	
7	153.97	154.16	154.29	154.56	157.60	157.38	156.54	155.42	154.84	154.76	154.61	154.34	
8	153.97	154.18	154.29	154.60	157.60	157.27	155.88	155.42	154.88	154.74	154.56	154.31	
9	153.97	154.21	154.30	154.62	157.51	156.87	155.34	155.42	154.88	154.74	154.51	154.28	
10	153.97	154.24	154.30	154.64	157.38	156.15	154.99	155.42	154.88	154.74	154.47	154.26	
11	153.97	154.27	154.32	154.67	157.29	155.59	154.91	155.41	154.88	154.74	154.45	154.26	
12	153.97	154.29	154.32	154.85	157.18	155.20	154.82	155.38	154.86	154.72	154.45	154.26	
13	153.97	154.30	154.36	154.96	156.90	154.98	154.81	155.35	154.86	154.72	154.45	154.26	
14	153.97	154.30	154.40	155.00	156.44	154.89	154.76	155.32	154.86	154.72	154.44	154.24	
15	153.97	154.29	154.45	155.12	156.30	155.44	154.70	155.27	154.84	154.72	154.44	154.24	
16	153.97	154.29	154.46	155.46	156.83	155.84	154.66	155.14	154.84	154.72	154.44	154.24	
17	153.98	154.28	154.44	155.61	157.08	156.00	154.65	155.02	154.84	154.70	154.44	154.24	
18	153.99	154.28	154.44	155.78	157.19	155.97	154.62	154.89	154.84	154.70	154.44	154.22	
19	154.00	154.27	154.44	156.34	157.21	155.73	154.62	154.75	154.84	154.70	154.44	154.22	
20	154.01	154.27	154.42	156.88	157.47	155.41	154.62	154.70	154.82	154.70	154.44	154.22	
21	154.02	154.27	154.42	156.88	157.63	155.48	154.61	154.66	154.80	154.70	154.44	154.22	
22	154.03	154.27	154.42	156.98	157.84	155.75	154.71	154.66	154.80	154.70	154.44	154.22	
23	154.04	154.26	154.44	157.12	157.99	155.89	154.91	154.65	154.80	154.70	154.44	154.22	
24	154.05	154.26	154.44	157.36	158.06	155.94	155.02	154.62	154.80	154.70	154.44	154.22	
25	154.05	154.26	154.44	157.48	158.15	156.10	155.02	154.62	154.80	154.68	154.44	154.22	
26	154.06	154.26	154.42	157.43	158.15	156.76	155.02	154.62	154.80	154.68	154.44	154.22	
27	154.06	154.26	154.45	157.33	158.11	157.21	155.03	154.62	154.80	154.68	154.44	154.22	
28	154.07	154.26	154.48	157.36	158.07	157.37	155.12	154.62	154.80	154.68	154.44	154.22	
29	154.10	154.25	154.50	157.33	158.00	157.50	155.12	154.62	154.80	154.68		154.22	
30	154.10	154.25	154.56	157.25	157.89	157.60	155.12	154.62	154.80	154.68		154.22	
31		154.26		157.21	157.79		155.08		154.80	154.68		154.22	
Mean	154.00	154.23	154.38	155.81	157.50	156.45	155.48	155.10	154.81	154.72	154.50	154.27	
Max	154.10	154.30	154.56	157.48	158.15	157.65	157.66	155.93	154.88	154.80	154.67	154.44	158.15
Min	153.97	154.10	154.26	154.56	156.30	154.89	154.61	154.62	154.63	154.68	154.44	154.22	153.97

Annual Max Momentary Gage Height	158.15	m. (MSL.) ,	at 06.00 Hours , on Aug 25 , 2014		
Zero Gage at Bottom Elevation	153.12	m. (MSL.) ,	River Bed	152.28	m. (MSL.)
Left Bank Elevation	157.60	m. (MSL.) ,			
Right Bank Elevation	156.83	m. (MSL.) ,	Drainage Area	760	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	21.74	25.10	25.10	5.58	0.07	0.50	0.17	0.00		
2	0.00	0.00	0.00	0.00	22.16	23.56	25.24	4.38	0.15	0.45	0.15	0.00		
3	0.00	0.00	0.00	0.00	22.44	23.56	25.10	3.78	0.25	0.45	0.15	0.00		
4	0.00	0.00	0.00	0.00	23.14	23.00	24.26	3.12	0.32	0.45	0.15	0.00		
5	0.00	0.00	0.00	0.00	23.98	22.72	21.88	2.68	0.43	0.45	0.15	0.00		
6	0.00	0.00	0.00	0.00	24.26	22.72	17.40	2.68	0.50	0.40	0.10	0.00		
7	0.00	0.00	0.00	0.00	24.40	21.32	11.40	2.68	0.60	0.40	0.02	0.00		
8	0.00	0.00	0.00	0.00	24.40	19.78	5.28	2.68	0.70	0.35	0.00	0.00		
9	0.00	0.00	0.00	0.05	23.14	14.70	2.36	2.68	0.70	0.35	0.00	0.00		
10	0.00	0.00	0.00	0.10	21.32	7.50	0.98	2.68	0.70	0.35	0.00	0.00		
11	0.00	0.00	0.00	0.17	20.06	3.54	0.78	2.64	0.70	0.35	0.00	0.00		
12	0.00	0.00	0.00	0.63	18.52	1.80	0.55	2.52	0.65	0.30	0.00	0.00		
13	0.00	0.00	0.00	0.90	15.00	0.95	0.52	2.40	0.65	0.30	0.00	0.00		
14	0.00	0.00	0.00	1.00	10.40	0.72	0.40	2.28	0.65	0.30	0.00	0.00		
15	0.00	0.00	0.00	1.48	9.00	2.76	0.25	2.08	0.60	0.30	0.00	0.00		
16	0.00	0.00	0.00	2.84	14.30	5.04	0.15	1.56	0.60	0.30	0.00	0.00		
17	0.00	0.00	0.00	3.66	17.12	6.00	0.12	1.08	0.60	0.25	0.00	0.00		
18	0.00	0.00	0.00	4.68	18.66	5.82	0.05	0.72	0.60	0.25	0.00	0.00		
19	0.00	0.00	0.00	9.40	18.94	4.38	0.05	0.37	0.60	0.25	0.00	0.00		
20	0.00	0.00	0.00	14.80	22.58	2.64	0.05	0.25	0.55	0.25	0.00	0.00		
21	0.00	0.00	0.00	14.80	24.82	2.92	0.02	0.15	0.50	0.25	0.00	0.00		
22	0.00	0.00	0.00	15.80	27.76	4.50	0.28	0.15	0.50	0.25	0.00	0.00		
23	0.00	0.00	0.00	17.68	29.86	5.34	0.78	0.12	0.50	0.25	0.00	0.00		
24	0.00	0.00	0.00	21.04	30.84	5.64	1.08	0.05	0.50	0.25	0.00	0.00		
25	0.00	0.00	0.00	22.72	32.10	7.00	1.08	0.05	0.50	0.20	0.00	0.00		
26	0.00	0.00	0.00	22.02	32.10	13.60	1.08	0.05	0.50	0.20	0.00	0.00		
27	0.00	0.00	0.00	20.62	31.54	18.94	1.12	0.05	0.50	0.20	0.00	0.00		
28	0.00	0.00	0.00	21.04	30.98	21.18	1.48	0.05	0.50	0.20	0.00	0.00		
29	0.00	0.00	0.00	20.62	30.00	23.00	1.48	0.05	0.50	0.20		0.00		
30	0.00	0.00	0.00	19.50	28.46	24.40	1.48	0.05	0.50	0.20		0.00		
31		0.00		18.94	27.06		1.32		0.50	0.20		0.00		
Total	0.00	0.00	0.00	254.49	721.08	364.13	173.12	49.61	16.12	9.40	0.89	0.00	1588.84	CMSDAY
Mean	0.00	0.00	0.00	8.21	23.26	12.14	5.58	1.65	0.52	0.30	0.03	0.00	4.35	CMS
Max	0.00	0.00	0.00	22.72	32.10	25.10	25.24	5.58	0.70	0.50	0.17	0.00	32.10	CMS
Min	0.00	0.00	0.00	0.00	9.00	0.72	0.02	0.05	0.07	0.20	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	21.99	62.30	31.46	14.96	4.29	1.39	0.81	0.08	0.00	137.28	MCM

Momentary Peak 32.10 CMS. at 158.15 m. (MSL.) at 06.00 Hours , on Aug 25 , 2014

Runoff Yield 5.73 Liters/Second/Square KM. Momentary Peak Yield 42.237 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

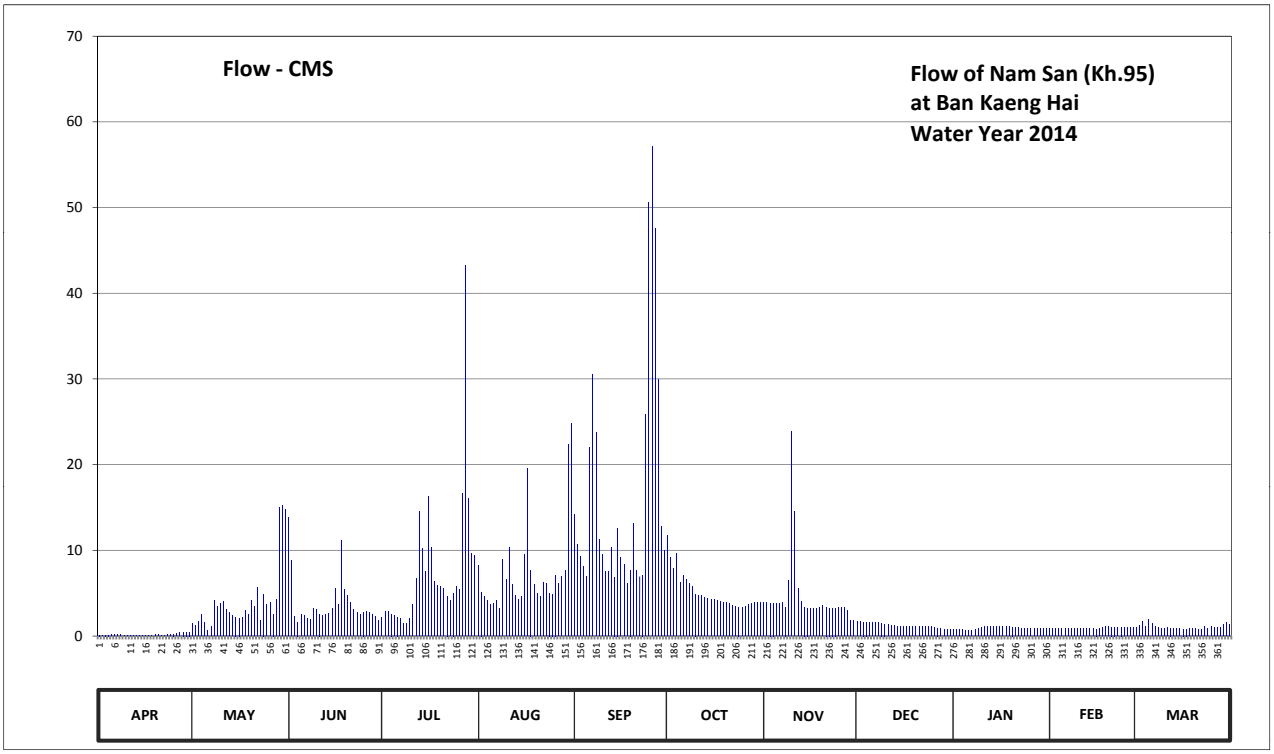
Location : on left bank at the bridge of Amphoe Phu Rua - Amphoe Dan Sai Highway.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	595.12	595.93	597.92	596.10	597.19	597.96	597.68	596.48	596.00	595.64	595.68	595.73	
2	595.11	595.84	597.28	596.26	596.69	597.56	597.34	596.48	595.99	595.63	595.68	595.84	
3	595.12	596.00	596.13	596.25	596.60	597.35	597.13	596.47	595.98	595.62	595.68	596.00	
4	595.12	596.17	595.98	596.19	596.52	597.18	597.41	596.47	595.98	595.61	595.68	595.81	
5	595.16	595.95	596.17	596.15	596.43	596.99	596.87	596.46	595.97	595.59	595.68	596.05	
6	595.18	595.57	596.14	596.11	596.46	598.80	597.01	596.45	595.96	595.58	595.68	595.93	
7	595.20	595.80	596.07	596.07	596.52	599.59	596.93	596.48	595.95	595.58	595.68	595.79	
8	595.19	596.53	596.06	595.91	596.33	598.98	596.85	596.37	595.95	595.62	595.68	595.72	
9	595.09	596.38	596.33	595.91	597.31	597.63	596.80	596.92	595.94	595.69	595.68	595.70	
10	595.05	596.45	596.30	596.08	596.93	597.39	596.65	598.99	595.90	595.74	595.68	595.70	
11	595.06	596.50	596.19	596.42	597.52	597.09	596.62	598.01	595.87	595.79	595.68	595.72	
12	595.09	596.31	596.14	596.96	596.84	597.08	596.62	596.76	595.84	595.82	595.68	595.71	
13	595.10	596.22	596.17	598.01	596.62	597.52	596.58	596.50	595.83	595.82	595.68	595.70	
14	595.09	596.16	596.21	597.50	596.54	596.98	596.56	596.37	595.82	595.82	595.67	595.68	
15	595.08	596.11	596.32	597.09	596.60	597.78	596.55	596.34	595.81	595.82	595.67	595.67	
16	595.07	596.09	596.75	598.20	597.39	597.34	596.54	596.32	595.80	595.82	595.66	595.66	
17	595.07	596.10	596.44	597.51	598.56	597.21	596.52	596.32	595.80	595.81	595.69	595.66	
18	595.10	596.28	597.61	596.90	597.11	596.85	596.50	596.32	595.80	595.80	595.74	595.67	
19	595.16	596.18	596.74	596.81	596.84	597.11	596.49	596.35	595.80	595.79	595.80	595.68	
20	595.18	596.52	596.62	596.79	596.66	597.84	596.48	596.40	595.80	595.78	595.79	595.70	
21	595.10	596.39	596.49	596.75	596.60	597.10	596.45	596.37	595.80	595.74	595.78	595.61	
22	595.11	596.77	596.30	596.61	596.87	596.99	596.41	596.34	595.80	595.72	595.78	595.64	
23	595.15	596.02	596.22	596.52	596.85	597.02	596.39	596.34	595.80	595.70	595.77	595.79	
24	595.19	596.65	596.18	596.67	596.67	599.17	596.37	596.34	595.80	595.70	595.78	595.70	
25	595.23	596.42	596.24	596.80	596.65	601.15	596.35	596.36	595.79	595.69	595.76	595.81	
26	595.32	596.49	596.25	596.74	597.02	601.61	596.39	596.36	595.75	595.68	595.76	595.77	
27	595.45	596.19	596.23	598.24	596.85	600.93	596.44	596.36	595.71	595.68	595.75	595.73	
28	595.47	596.54	596.17	600.60	596.99	599.54	596.46	596.28	595.67	595.68	595.74	595.74	
29	595.47	598.05	596.12	598.17	597.10	597.80	596.48	596.03	595.64	595.68		595.88	
30	595.46	598.08	596.03	597.41	598.84	597.47	596.48	596.02	595.64	595.68		595.95	
31		598.03		597.38	599.08		596.48		595.64	595.68		595.89	
Mean	595.18	596.41	596.39	596.94	597.01	598.03	596.67	596.54	595.83	595.71	595.71	595.76	
Max	595.47	598.08	597.92	600.60	599.08	601.61	597.68	598.99	596.00	595.82	595.80	596.05	601.61
Min	595.05	595.57	595.98	595.91	596.33	596.85	596.35	596.02	595.64	595.58	595.66	595.61	595.05

Annual Max Momentary Gage Height	601.70	m. (MSL.) ,	at 12.00 Hours , on Sep 26 , 2014		
Zero Gage at Bottom Elevation	593.92	m. (MSL.) ,	River Bed	594.83	m. (MSL.)
Left Bank Elevation	605.54	m. (MSL.) ,			
Right Bank Elevation	605.58	m. (MSL.) ,	Drainage Area	352	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	1.49	13.81	2.16	8.22	14.16	11.75	3.91	1.70	0.78	0.86	0.96		
2	0.11	1.22	8.79	2.90	5.14	10.72	9.18	3.91	1.67	0.76	0.86	1.22		
3	0.12	1.70	2.30	2.85	4.60	9.24	7.83	3.86	1.64	0.74	0.86	1.70		
4	0.12	2.48	1.64	2.57	4.12	8.15	9.62	3.86	1.64	0.72	0.86	1.13		
5	0.16	1.55	2.48	2.39	3.68	6.94	6.22	3.82	1.61	0.68	0.86	1.93		
6	0.18	0.64	2.34	2.21	3.82	22.00	7.06	3.77	1.58	0.66	0.86	1.49		
7	0.20	1.10	2.02	2.02	4.12	30.58	6.58	3.91	1.55	0.66	0.86	1.08		
8	0.19	4.18	1.98	1.43	3.22	23.80	6.10	3.40	1.55	0.74	0.86	0.94		
9	0.09	3.45	3.22	1.43	8.98	11.32	5.80	6.52	1.52	0.88	0.86	0.90		
10	0.05	3.77	3.08	2.07	6.58	9.50	4.90	23.90	1.40	0.98	0.86	0.90		
11	0.06	4.00	2.57	3.63	10.37	7.58	4.72	14.59	1.31	1.08	0.86	0.94		
12	0.09	3.13	2.34	6.76	6.04	7.51	4.72	5.56	1.22	1.16	0.86	0.92		
13	0.10	2.71	2.48	14.59	4.72	10.37	4.48	4.00	1.19	1.16	0.86	0.90		
14	0.09	2.44	2.67	10.20	4.24	6.88	4.36	3.40	1.16	1.16	0.84	0.86		
15	0.08	2.21	3.17	7.58	4.60	12.61	4.30	3.26	1.13	1.16	0.84	0.84		
16	0.07	2.11	5.50	16.30	9.50	9.18	4.24	3.17	1.10	1.16	0.82	0.82		
17	0.07	2.16	3.72	10.29	19.60	8.34	4.12	3.17	1.10	1.13	0.88	0.82		
18	0.10	2.99	11.15	6.40	7.70	6.10	4.00	3.17	1.10	1.10	0.98	0.84		
19	0.16	2.53	5.44	5.86	6.04	7.70	3.95	3.31	1.10	1.08	1.10	0.86		
20	0.18	4.12	4.72	5.74	4.96	13.12	3.91	3.54	1.10	1.06	1.08	0.90		
21	0.10	3.49	3.95	5.50	4.60	7.64	3.77	3.40	1.10	0.98	1.06	0.72		
22	0.11	5.62	3.08	4.66	6.22	6.94	3.59	3.26	1.10	0.94	1.06	0.78		
23	0.15	1.79	2.71	4.12	6.10	7.13	3.49	3.26	1.10	0.90	1.04	1.08		
24	0.19	4.90	2.53	5.02	5.02	25.87	3.40	3.26	1.10	0.90	1.06	0.90		
25	0.23	3.63	2.80	5.80	4.90	50.60	3.31	3.36	1.08	0.88	1.02	1.13		
26	0.32	3.95	2.85	5.44	7.13	57.15	3.49	3.36	1.00	0.86	1.02	1.04		
27	0.45	2.57	2.76	16.66	6.10	47.59	3.72	3.36	0.92	0.86	1.00	0.96		
28	0.47	4.24	2.48	43.30	6.94	29.98	3.82	2.99	0.84	0.86	0.98	0.98		
29	0.47	14.95	2.25	16.03	7.64	12.78	3.91	1.84	0.78	0.86		1.34		
30	0.46	15.22	1.84	9.62	22.40	10.01	3.91	1.79	0.78	0.86		1.55		
31		14.77		9.43	24.88		3.91		0.78	0.86		1.37		
Total	5.29	125.11	112.67	234.96	232.18	491.49	158.16	137.91	37.95	28.61	25.96	32.80	1623.09	CMSDAY
Mean	0.18	4.04	3.76	7.58	7.49	16.38	5.10	4.60	1.22	0.92	0.93	1.06	4.45	CMS
Max	0.47	15.22	13.81	43.30	24.88	57.15	11.75	23.90	1.70	1.16	1.10	1.93	57.15	CMS
Min	0.05	0.64	1.64	1.43	3.22	6.10	3.31	1.79	0.78	0.66	0.82	0.72	0.05	CMS
Runoff	0.46	10.81	9.74	20.30	20.06	42.47	13.67	11.92	3.28	2.47	2.24	2.83	140.24	MCM

Momentary Peak 58.50 CMS. at 601.70 m. (MSL.) at 12.00 Hours , on Sep 26 , 2014

Runoff Yield 12.63 Liters/Second/Square KM. Momentary Peak Yield 166.193 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Tha Kok Daeng , Bueng Kan (Kh.98)

Lat 17 - 51 - 04 N Long 103 - 46 - 52 E

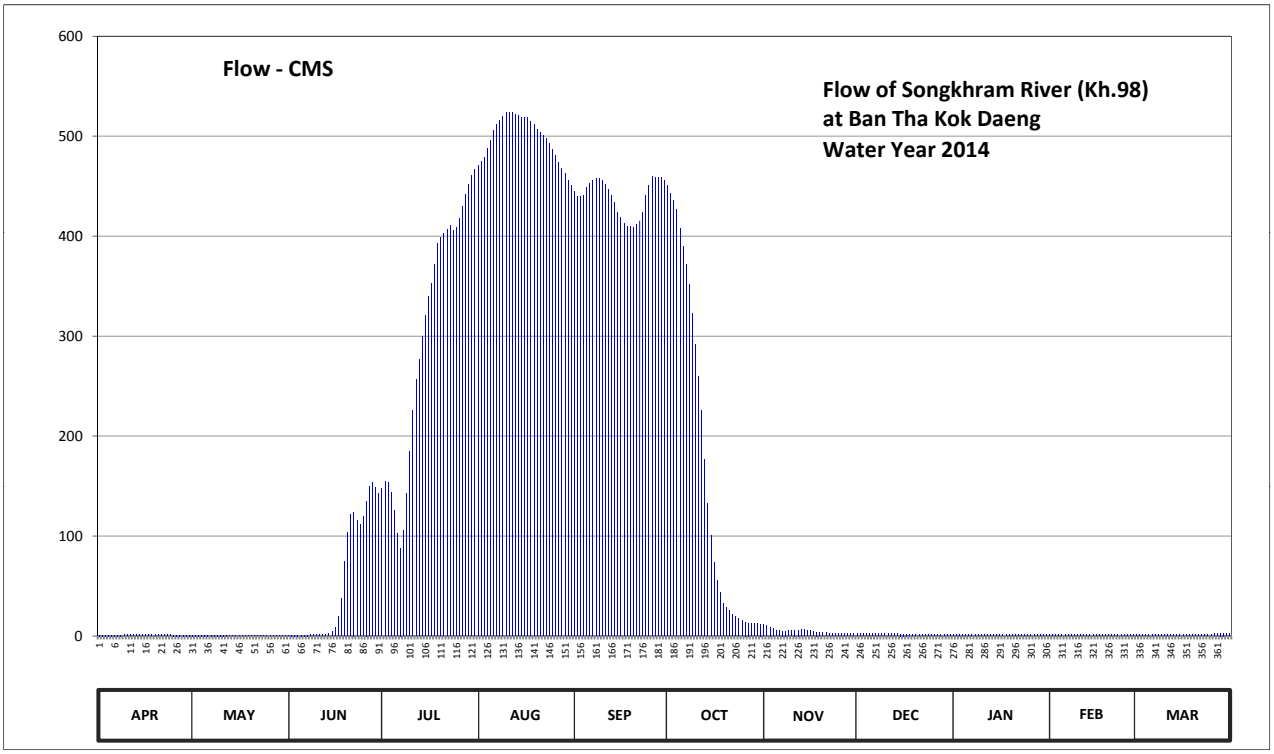
Location : on right bank at the bridge.

	Ban Tha Kok Daeng	**Amphoe** Se Ka	**Changwat** Bueng Kan
Drainge Area	5,089 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+134.610 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.		**Elevation** +152.552 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	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	135.87	135.86	135.84	141.31	146.41	146.04	146.12	137.33	136.23	136.01	136.01	135.99	
2	135.87	135.86	135.85	141.45	146.46	145.97	146.01	137.26	136.23	136.01	136.01	135.99	
3	135.86	135.86	135.86	141.43	146.53	145.96	145.91	137.19	136.23	136.01	136.01	135.99	
4	135.86	135.86	135.86	141.23	146.65	145.98	145.78	137.07	136.22	136.00	136.01	135.99	
5	135.86	135.86	135.86	140.86	146.76	146.09	145.51	136.94	136.19	135.99	136.01	135.99	
6	135.87	135.86	135.88	140.33	146.91	146.16	145.25	136.85	136.17	135.99	136.00	135.99	
7	135.87	135.86	135.88	140.00	147.00	146.20	145.00	136.81	136.17	135.99	136.00	135.99	
8	135.88	135.86	135.89	140.40	147.05	146.22	144.70	136.81	136.17	135.99	136.00	135.99	
9	135.90	135.86	135.89	141.21	147.11	146.23	144.25	136.85	136.17	135.99	136.00	135.99	
10	135.91	135.86	135.89	142.01	147.16	146.20	143.77	136.93	136.17	135.99	136.00	135.97	
11	135.92	135.86	135.90	142.72	147.17	146.14	143.27	137.00	136.16	136.00	136.00	135.92	
12	135.92	135.85	135.90	143.22	147.16	146.06	142.72	137.00	136.16	136.00	136.00	135.90	
13	135.92	135.82	135.93	143.53	147.13	145.98	141.86	137.01	136.16	136.01	136.01	135.90	
14	135.92	135.79	136.20	143.89	147.12	145.88	141.02	137.01	136.14	136.02	136.01	135.94	
15	135.93	135.78	136.67	144.22	147.10	145.74	140.28	136.95	136.13	136.01	136.02	136.03	
16	135.93	135.77	137.14	144.51	147.10	145.66	139.64	136.87	136.11	136.01	136.02	136.03	
17	135.94	135.75	137.85	144.71	147.09	145.58	139.18	136.75	136.11	136.01	136.02	136.03	
18	135.94	135.75	138.66	144.99	147.04	145.54	138.86	136.59	136.08	136.01	136.02	136.03	
19	135.94	135.75	139.66	145.29	147.00	145.54	138.49	136.50	136.06	136.01	136.02	136.01	
20	135.94	135.75	140.36	145.38	146.92	145.53	138.29	136.48	136.06	136.01	136.01	135.99	
21	135.94	135.77	140.77	145.44	146.88	145.57	138.16	136.40	136.06	136.01	135.99	135.99	
22	135.92	135.79	140.82	145.49	146.84	145.62	137.95	136.33	136.05	136.01	135.99	135.97	
23	135.90	135.80	140.63	145.55	146.80	145.74	137.84	136.29	136.04	136.01	135.98	135.96	
24	135.89	135.80	140.54	145.48	146.73	145.98	137.70	136.30	136.02	136.01	135.98	135.96	
25	135.87	135.81	140.71	145.53	146.64	146.12	137.59	136.27	136.01	136.01	135.98	136.02	
26	135.87	135.82	141.06	145.65	146.55	146.25	137.50	136.25	136.01	136.01	135.98	136.16	
27	135.86	135.82	141.36	145.82	146.45	146.24	137.44	136.23	136.01	136.01	135.98	136.31	
28	135.86	135.82	141.44	146.00	146.36	146.24	137.39	136.23	136.01	136.01	135.99	136.35	
29	135.85	135.82	141.33	146.14	146.29	146.24	137.39	136.23	136.01	136.01		136.34	
30	135.85	135.82	141.21	146.27	146.20	146.20	137.39	136.23	136.01	136.01		136.33	
31		135.83		146.35	146.12		137.37		136.01	136.01		136.33	
Mean	135.90	135.82	138.09	143.76	146.80	145.96	140.96	136.70	136.11	136.01	136.00	136.04	
Max	135.94	135.86	141.44	146.35	147.17	146.25	146.12	137.33	136.23	136.02	136.02	136.35	147.17
Min	135.85	135.75	135.84	140.00	146.12	145.53	137.37	136.23	136.01	135.99	135.98	135.90	135.75

Annual Max Momentary Gage Height	147.17	m. (MSL.) ,	at 18.00 Hours , on Aug 10 , 2014		
Zero Gage at Bottom Elevation	134.61	m. (MSL.) ,	River Bed	135.17	m. (MSL.)
Left Bank Elevation	152.32	m. (MSL.) ,			
Right Bank Elevation	152.35	m. (MSL.) ,	Drainage Area	5089	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.08	1.04	0.96	147.50	470.70	444.80	450.40	11.28	2.52	1.64	1.64	1.56		
2	1.08	1.04	1.00	154.50	474.20	439.90	442.70	10.16	2.52	1.64	1.64	1.56		
3	1.04	1.04	1.04	153.50	479.10	439.20	435.70	9.04	2.52	1.64	1.64	1.56		
4	1.04	1.04	1.04	143.50	487.50	440.60	426.60	7.12	2.48	1.60	1.64	1.56		
5	1.04	1.04	1.04	125.84	495.20	448.30	407.70	5.71	2.36	1.56	1.64	1.56		
6	1.08	1.04	1.12	102.52	505.70	453.20	389.50	5.28	2.28	1.56	1.60	1.56		
7	1.08	1.04	1.12	88.00	512.00	456.00	372.00	5.09	2.28	1.56	1.60	1.56		
8	1.12	1.04	1.16	105.60	515.50	457.40	352.20	5.09	2.28	1.56	1.60	1.56		
9	1.20	1.04	1.16	142.50	519.70	458.10	323.00	5.28	2.28	1.56	1.60	1.56		
10	1.24	1.04	1.16	184.56	523.20	456.00	292.28	5.66	2.28	1.56	1.60	1.48		
11	1.28	1.04	1.20	225.64	523.90	451.80	260.28	6.00	2.24	1.60	1.60	1.28		
12	1.28	1.00	1.20	257.08	523.20	446.20	225.64	6.00	2.24	1.60	1.60	1.20		
13	1.28	0.88	1.32	276.92	521.10	440.60	176.44	6.16	2.24	1.64	1.64	1.20		
14	1.28	0.76	2.40	299.96	520.40	433.60	133.00	6.16	2.16	1.68	1.64	1.36		
15	1.32	0.72	4.42	321.08	519.00	423.80	100.32	5.76	2.12	1.64	1.68	1.72		
16	1.32	0.68	8.24	339.66	519.00	418.20	73.60	5.38	2.04	1.64	1.68	1.72		
17	1.36	0.60	19.60	352.86	518.30	412.60	55.20	4.80	2.04	1.64	1.68	1.72		
18	1.36	0.60	37.80	371.34	514.80	409.80	43.80	4.03	1.92	1.64	1.68	1.72		
19	1.36	0.60	74.40	392.30	512.00	409.80	32.78	3.60	1.84	1.64	1.68	1.64		
20	1.36	0.60	103.84	398.60	506.40	409.10	28.38	3.52	1.84	1.64	1.64	1.56		
21	1.36	0.68	121.88	402.80	503.60	411.90	25.52	3.20	1.84	1.64	1.56	1.56		
22	1.28	0.76	124.08	406.30	500.80	415.40	21.20	2.92	1.80	1.64	1.56	1.48		
23	1.20	0.80	115.72	410.50	498.00	423.80	19.44	2.76	1.76	1.64	1.52	1.44		
24	1.16	0.80	111.76	405.60	493.10	440.60	17.20	2.80	1.68	1.64	1.52	1.44		
25	1.08	0.84	119.24	409.10	486.80	450.40	15.44	2.68	1.64	1.64	1.52	1.68		
26	1.08	0.88	135.00	417.50	480.50	459.50	14.00	2.60	1.64	1.64	1.52	2.24		
27	1.04	0.88	150.00	429.40	473.50	458.80	13.04	2.52	1.64	1.64	1.52	2.84		
28	1.04	0.88	154.00	442.00	467.20	458.80	12.24	2.52	1.64	1.64	1.56	3.00		
29	1.00	0.88	148.50	451.80	462.30	458.80	12.24	2.52	1.64	1.64		2.96		
30	1.00	0.88	142.50	460.90	456.00	456.00	12.24	2.52	1.64	1.64		2.92		
31		0.92		466.50	450.40		11.92		1.64	1.64		2.92		
Total	35.44	27.08	1587.90	9285.86	15433.10	13183.00	5196.00	148.16	63.04	50.28	45.00	55.12	45109.98	CMSDAY
Mean	1.18	0.87	52.93	299.54	497.84	439.43	167.61	4.94	2.03	1.62	1.61	1.78	123.59	CMS
Max	1.36	1.04	154.00	466.50	523.90	459.50	450.40	11.28	2.52	1.68	1.68	3.00	523.90	CMS
Min	1.00	0.60	0.96	88.00	450.40	409.10	11.92	2.52	1.64	1.56	1.52	1.20	0.60	CMS
Runoff	3.06	2.34	137.20	802.30	1333.42	1139.01	448.93	12.80	5.45	4.34	3.89	4.76	3897.50	MCM

Momentary Peak 523.90 CMS. at 147.17 m. (MSL.) at 18.00 Hours , on Aug 10 , 2014

Runoff Yield 24.29 Liters/Second/Square KM. Momentary Peak Yield 102.948 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

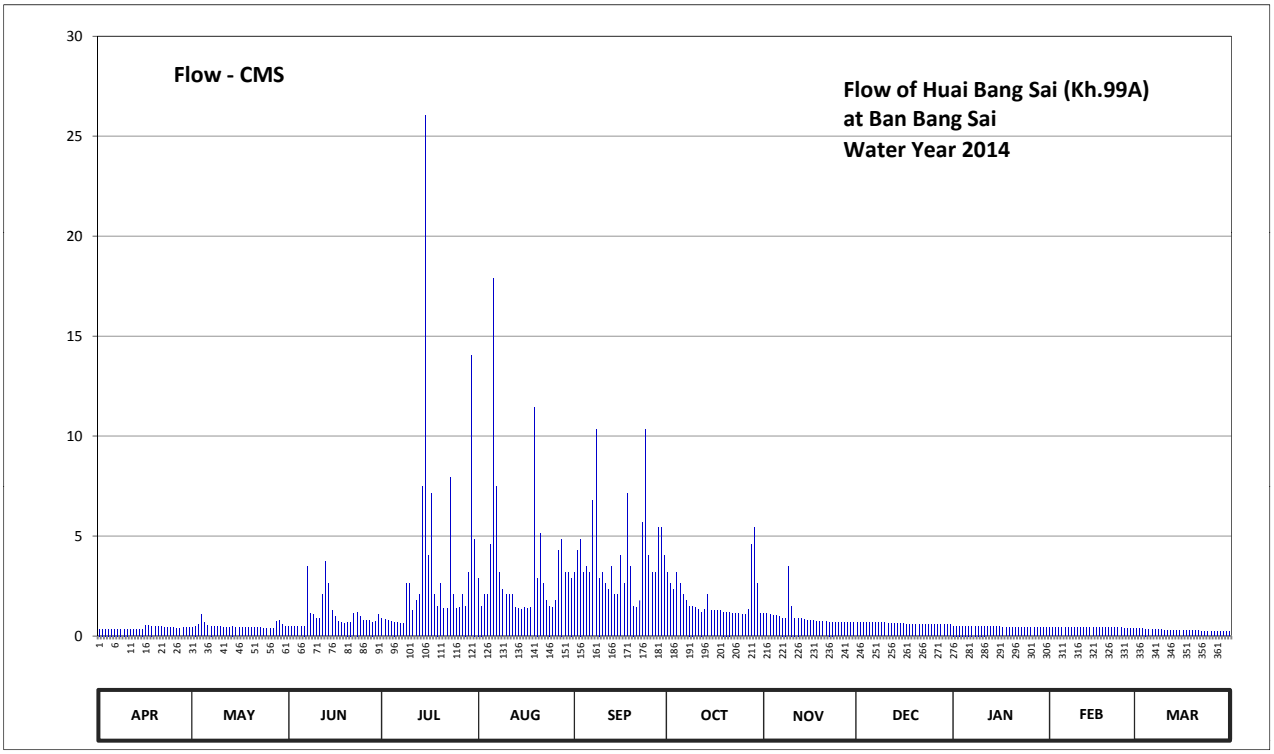
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.75	250.77	250.79	250.89	251.05	251.06	251.06	250.94	250.84	250.80	250.77	250.76	
2	250.75	250.80	250.79	250.88	251.00	251.10	251.04	250.94	250.84	250.80	250.77	250.76	
3	250.75	250.82	250.79	250.87	251.02	251.12	251.03	250.93	250.84	250.80	250.77	250.76	
4	250.75	250.93	250.79	250.86	251.02	251.06	251.06	250.92	250.84	250.80	250.77	250.75	
5	250.75	250.84	250.79	250.85	251.11	251.07	251.04	250.92	250.84	250.80	250.77	250.74	
6	250.75	250.81	250.80	250.84	251.37	251.06	251.02	250.91	250.84	250.80	250.77	250.74	
7	250.75	250.80	251.07	250.83	251.20	251.18	251.01	250.90	250.84	250.80	250.77	250.74	
8	250.75	250.79	250.94	250.83	251.06	251.26	251.00	250.90	250.84	250.80	250.77	250.74	
9	250.75	250.79	250.93	251.04	251.03	251.05	251.00	251.07	250.84	250.80	250.77	250.74	
10	250.75	250.79	250.89	251.04	251.02	251.06	250.99	251.00	250.84	250.80	250.77	250.73	
11	250.74	250.78	250.89	250.96	251.02	251.04	250.97	250.90	250.83	250.80	250.77	250.73	
12	250.74	250.78	251.02	251.01	251.02	251.03	250.95	250.90	250.83	250.79	250.77	250.73	
13	250.74	250.78	251.08	251.02	250.99	251.07	250.97	250.89	250.83	250.79	250.77	250.73	
14	250.74	250.80	251.04	251.20	250.98	251.02	251.02	250.88	250.83	250.79	250.77	250.72	
15	250.75	250.77	250.96	251.47	250.97	251.02	250.96	250.87	250.83	250.79	250.77	250.72	
16	250.81	250.77	250.91	251.09	250.99	251.09	250.96	250.87	250.83	250.79	250.77	250.72	
17	250.81	250.77	250.86	251.19	250.98	251.04	250.96	250.87	250.82	250.78	250.77	250.72	
18	250.80	250.77	250.84	251.02	250.99	251.19	250.96	250.86	250.82	250.78	250.77	250.72	
19	250.79	250.77	250.83	251.00	251.28	251.07	250.95	250.86	250.82	250.78	250.77	250.72	
20	250.79	250.77	250.85	251.04	251.05	251.00	250.95	250.86	250.82	250.78	250.77	250.72	
21	250.79	250.77	250.85	250.98	251.13	250.99	250.95	250.86	250.82	250.78	250.78	250.72	
22	250.78	250.77	250.94	250.98	251.04	251.01	250.94	250.85	250.82	250.77	250.78	250.71	
23	250.78	250.77	250.95	251.21	251.01	251.15	250.94	250.85	250.82	250.77	250.77	250.71	
24	250.78	250.76	250.91	251.02	251.00	251.26	250.94	250.84	250.82	250.77	250.77	250.71	
25	250.78	250.76	250.87	250.98	250.99	251.09	250.93	250.84	250.82	250.77	250.76	250.71	
26	250.76	250.76	250.87	250.99	251.01	251.06	250.93	250.84	250.82	250.77	250.76	250.71	
27	250.76	250.76	250.87	251.02	251.10	251.06	250.97	250.84	250.82	250.77	250.76	250.71	
28	250.77	250.86	250.85	251.00	251.12	251.14	251.11	250.84	250.82	250.77	250.76	250.71	
29	250.77	250.87	250.86	251.06	251.06	251.14	251.14	250.84	250.82	250.77		250.71	
30	250.77	250.82	250.93	251.32	251.06	251.09	251.04	250.84	250.82	250.77		250.71	
31		250.79		251.12	251.05		250.94		250.82	250.77		250.71	
Mean	250.76	250.79	250.89	251.02	251.06	251.09	250.99	250.89	250.83	250.79	250.77	250.73	
Max	250.81	250.93	251.08	251.47	251.37	251.26	251.14	251.07	250.84	250.80	250.78	250.76	251.47
Min	250.74	250.76	250.79	250.83	250.97	250.99	250.93	250.84	250.82	250.77	250.76	250.71	250.71

Annual Max Momentary Gage Height 251.61 m. (MSL.) , at 19.00 Hours , on Jul 15 , 2014

Zero Gage at Bottom Elevation 248.50 m. (MSL.) , River Bed 250.50 m. (MSL.)

Left Bank Elevation 257.32 m. (MSL.) ,

Right Bank Elevation 257.62 m. (MSL.) , Drainage Area 115 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	0.41	0.47	0.86	2.90	3.18	3.18	1.14	0.66	0.50	0.41	0.38		
2	0.35	0.50	0.47	0.82	1.50	4.30	2.62	1.14	0.66	0.50	0.41	0.38		
3	0.35	0.58	0.47	0.78	2.06	4.86	2.34	1.08	0.66	0.50	0.41	0.38		
4	0.35	1.08	0.47	0.74	2.06	3.18	3.18	1.02	0.66	0.50	0.41	0.35		
5	0.35	0.66	0.47	0.70	4.58	3.46	2.62	1.02	0.66	0.50	0.41	0.32		
6	0.35	0.54	0.50	0.66	17.90	3.18	2.06	0.96	0.66	0.50	0.41	0.32		
7	0.35	0.50	3.46	0.62	7.50	6.78	1.78	0.90	0.66	0.50	0.41	0.32		
8	0.35	0.47	1.14	0.62	3.18	10.34	1.50	0.90	0.66	0.50	0.41	0.32		
9	0.35	0.47	1.08	2.62	2.34	2.90	1.50	3.46	0.66	0.50	0.41	0.32		
10	0.35	0.47	0.86	2.62	2.06	3.18	1.44	1.50	0.66	0.50	0.41	0.29		
11	0.32	0.44	0.86	1.26	2.06	2.62	1.32	0.90	0.62	0.50	0.41	0.29		
12	0.32	0.44	2.06	1.78	2.06	2.34	1.20	0.90	0.62	0.47	0.41	0.29		
13	0.32	0.44	3.74	2.06	1.44	3.46	1.32	0.86	0.62	0.47	0.41	0.29		
14	0.32	0.50	2.62	7.50	1.38	2.06	2.06	0.82	0.62	0.47	0.41	0.26		
15	0.35	0.41	1.26	26.04	1.32	2.06	1.26	0.78	0.62	0.47	0.41	0.26		
16	0.54	0.41	0.96	4.02	1.44	4.02	1.26	0.78	0.62	0.47	0.41	0.26		
17	0.54	0.41	0.74	7.14	1.38	2.62	1.26	0.78	0.58	0.44	0.41	0.26		
18	0.50	0.41	0.66	2.06	1.44	7.14	1.26	0.74	0.58	0.44	0.41	0.26		
19	0.47	0.41	0.62	1.50	11.42	3.46	1.20	0.74	0.58	0.44	0.41	0.26		
20	0.47	0.41	0.70	2.62	2.90	1.50	1.20	0.74	0.58	0.44	0.41	0.26		
21	0.47	0.41	0.70	1.38	5.14	1.44	1.20	0.74	0.58	0.44	0.44	0.26		
22	0.44	0.41	1.14	1.38	2.62	1.78	1.14	0.70	0.58	0.41	0.44	0.23		
23	0.44	0.41	1.20	7.96	1.78	5.70	1.14	0.70	0.58	0.41	0.41	0.23		
24	0.44	0.38	0.96	2.06	1.50	10.34	1.14	0.66	0.58	0.41	0.41	0.23		
25	0.44	0.38	0.78	1.38	1.44	4.02	1.08	0.66	0.58	0.41	0.38	0.23		
26	0.38	0.38	0.78	1.44	1.78	3.18	1.08	0.66	0.58	0.41	0.38	0.23		
27	0.38	0.38	0.78	2.06	4.30	3.18	1.32	0.66	0.58	0.41	0.38	0.23		
28	0.41	0.74	0.70	1.50	4.86	5.42	4.58	0.66	0.58	0.41	0.38	0.23		
29	0.41	0.78	0.74	3.18	3.18	5.42	5.42	0.66	0.58	0.41		0.23		
30	0.41	0.58	1.08	14.02	3.18	4.02	2.62	0.66	0.58	0.41		0.23		
31		0.47		4.86	2.90		1.14		0.58	0.41		0.23		
Total	11.87	15.28	32.47	108.24	105.60	121.14	57.42	27.92	19.02	14.15	11.42	8.63	533.16	CMSDAY
Mean	0.40	0.49	1.08	3.49	3.41	4.04	1.85	0.93	0.61	0.46	0.41	0.28	1.46	CMS
Max	0.54	1.08	3.74	26.04	17.90	10.34	5.42	3.46	0.66	0.50	0.44	0.38	26.04	CMS
Min	0.32	0.38	0.47	0.62	1.32	1.44	1.08	0.66	0.58	0.41	0.38	0.23	0.23	CMS
Runoff	1.03	1.32	2.81	9.35	9.12	10.47	4.96	2.41	1.64	1.22	0.99	0.75	46.07	MCM

Momentary Peak 39.42 CMS. at 251.61 m. (MSL.) at 19.00 Hours , on Jul 15 , 2014

Runoff Yield 12.70 Liters/Second/Square KM. Momentary Peak Yield 342.783 Liters/Second/Square KM.

WATER YEAR : 2014

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.

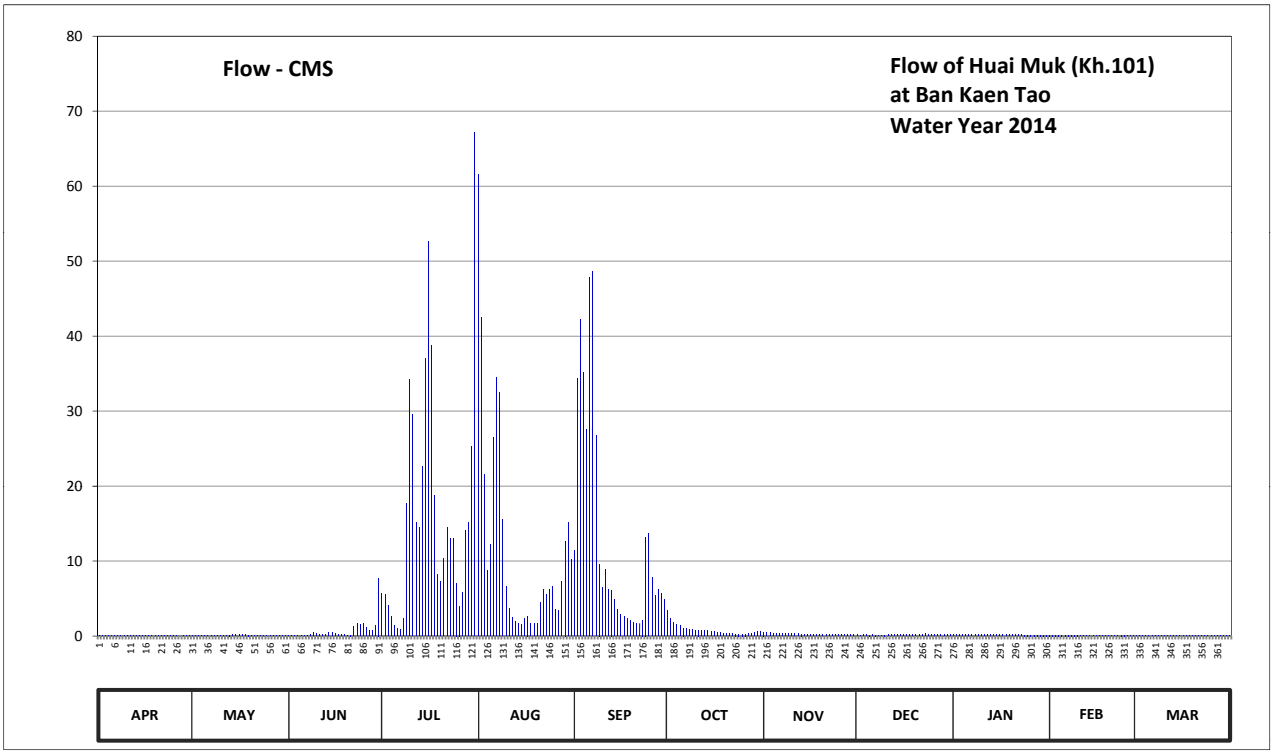
Ban Kaen Tao **Amphoe** Mueang **Changwat** Mukdahan

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 Flot	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.40	137.31	137.41	139.27	144.02	140.29	138.81	137.71	137.49	137.49	137.45	137.41	
2	137.40	137.31	137.39	139.25	143.52	143.05	138.50	137.67	137.43	137.49	137.45	137.41	
3	137.40	137.32	137.35	138.96	141.68	143.51	138.32	137.67	137.47	137.49	137.45	137.41	
4	137.40	137.33	137.34	138.59	139.85	143.11	138.22	137.64	137.47	137.49	137.45	137.40	
5	137.40	137.34	137.33	138.16	140.40	142.41	138.13	137.63	137.45	137.49	137.45	137.40	
6	137.39	137.34	137.33	137.97	142.28	143.72	137.98	137.63	137.46	137.48	137.44	137.39	
7	137.39	137.34	137.32	137.87	143.06	143.74	137.96	137.64	137.45	137.48	137.44	137.38	
8	137.38	137.34	137.48	138.52	142.89	142.30	137.90	137.63	137.42	137.48	137.44	137.38	
9	137.38	137.34	137.66	141.20	140.91	140.00	137.86	137.61	137.41	137.47	137.44	137.38	
10	137.37	137.34	137.61	143.04	139.47	139.44	137.81	137.60	137.45	137.47	137.44	137.38	
11	137.36	137.35	137.50	142.61	138.88	139.87	137.85	137.60	137.53	137.47	137.43	137.37	
12	137.36	137.35	137.50	140.85	138.54	139.38	137.83	137.59	137.52	137.47	137.43	137.37	
13	137.36	137.45	137.56	140.74	138.37	139.37	137.81	137.57	137.51	137.49	137.43	137.36	
14	137.36	137.56	137.67	141.81	138.28	139.11	137.82	137.56	137.50	137.49	137.43	137.36	
15	137.36	137.50	137.67	143.24	138.23	138.84	137.75	137.55	137.49	137.49	137.43	137.36	
16	137.35	137.50	137.63	143.84	138.53	138.68	137.73	137.55	137.49	137.48	137.43	137.36	
17	137.35	137.48	137.55	143.34	138.62	138.61	137.70	137.54	137.50	137.48	137.42	137.36	
18	137.35	137.46	137.47	141.33	138.30	138.52	137.67	137.54	137.50	137.48	137.42	137.35	
19	137.34	137.44	137.49	139.75	138.27	138.43	137.64	137.53	137.51	137.46	137.42	137.35	
20	137.34	137.42	137.43	139.59	138.31	138.35	137.63	137.53	137.51	137.46	137.42	137.35	
21	137.34	137.41	137.45	140.12	139.04	138.30	137.62	137.52	137.51	137.46	137.42	137.36	
22	137.33	137.41	138.09	140.75	139.39	138.30	137.59	137.52	137.52	137.46	137.43	137.36	
23	137.33	137.40	138.26	140.53	139.25	138.44	137.58	137.51	137.59	137.46	137.43	137.37	
24	137.32	137.40	138.24	140.53	139.38	140.56	137.58	137.51	137.53	137.45	137.45	137.36	
25	137.31	137.40	138.28	139.55	139.46	140.63	137.58	137.50	137.51	137.45	137.44	137.36	
26	137.31	137.40	138.03	138.94	138.84	139.68	137.58	137.51	137.50	137.45	137.43	137.36	
27	137.30	137.40	137.81	139.30	138.82	139.22	137.63	137.51	137.50	137.45	137.43	137.36	
28	137.32	137.40	137.81	140.69	139.59	139.39	137.64	137.51	137.50	137.45	137.43	137.36	
29	137.34	137.40	138.16	140.85	140.48	139.28	137.66	137.51	137.50	137.45		137.36	
30	137.31	137.39	139.67	142.13	140.84	139.11	137.72	137.51	137.50	137.45		137.36	
31		137.39		144.09	140.10		137.77		137.49	137.45		137.36	
Mean	137.36	137.39	137.72	140.56	139.92	140.12	137.83	137.57	137.49	137.47	137.43	137.37	
Max	137.40	137.56	139.67	144.09	144.02	143.74	138.81	137.71	137.59	137.49	137.45	137.41	144.09
Min	137.30	137.31	137.32	137.87	138.23	138.30	137.58	137.50	137.41	137.45	137.42	137.35	137.30

Annual Max Momentary Gage Height	144.18	m. (MSL.) ,	at 18.00 Hours , on Jul 31 , 2014		
Zero Gage at Bottom Elevation	136.90	m. (MSL.) ,	River Bed	137.16	m. (MSL.)
Left Bank Elevation	146.07	m. (MSL.) ,			
Right Bank Elevation	146.04	m. (MSL.) ,	Drainage Area	414	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.01	0.11	5.65	61.60	11.46	3.40	0.52	0.19	0.19	0.15	0.11		
2	0.10	0.01	0.09	5.55	42.50	34.35	2.30	0.44	0.13	0.19	0.15	0.11		
3	0.10	0.02	0.05	4.10	21.51	42.25	1.76	0.44	0.17	0.19	0.15	0.11		
4	0.10	0.03	0.04	2.57	8.76	35.15	1.54	0.38	0.17	0.19	0.15	0.10		
5	0.10	0.04	0.03	1.42	12.16	27.64	1.36	0.36	0.15	0.19	0.15	0.10		
6	0.09	0.04	0.03	1.04	26.55	47.80	1.06	0.36	0.16	0.18	0.14	0.09		
7	0.09	0.04	0.02	0.84	34.48	48.60	1.02	0.38	0.15	0.18	0.14	0.08		
8	0.08	0.04	0.18	2.36	32.53	26.72	0.90	0.36	0.12	0.18	0.14	0.08		
9	0.08	0.04	0.42	17.72	15.59	9.60	0.82	0.32	0.11	0.17	0.14	0.08		
10	0.07	0.04	0.32	34.22	6.65	6.50	0.72	0.30	0.15	0.17	0.14	0.08		
11	0.06	0.05	0.20	29.57	3.71	8.87	0.80	0.30	0.23	0.17	0.13	0.07		
12	0.06	0.05	0.20	15.18	2.42	6.20	0.76	0.29	0.22	0.17	0.13	0.07		
13	0.06	0.15	0.26	14.43	1.91	6.15	0.72	0.27	0.21	0.19	0.13	0.06		
14	0.06	0.26	0.44	22.60	1.66	4.85	0.74	0.26	0.20	0.19	0.13	0.06		
15	0.06	0.20	0.44	37.10	1.56	3.53	0.60	0.25	0.19	0.19	0.13	0.06		
16	0.05	0.20	0.36	52.60	2.39	2.84	0.56	0.25	0.19	0.18	0.13	0.06		
17	0.05	0.18	0.25	38.72	2.66	2.63	0.50	0.24	0.20	0.18	0.12	0.06		
18	0.05	0.16	0.17	18.71	1.70	2.36	0.44	0.24	0.20	0.18	0.12	0.05		
19	0.04	0.14	0.19	8.20	1.64	2.09	0.38	0.23	0.21	0.16	0.12	0.05		
20	0.04	0.12	0.13	7.30	1.73	1.85	0.36	0.23	0.21	0.16	0.12	0.05		
21	0.04	0.11	0.15	10.37	4.50	1.70	0.34	0.22	0.21	0.16	0.12	0.06		
22	0.03	0.11	1.28	14.50	6.25	1.70	0.29	0.22	0.22	0.16	0.13	0.06		
23	0.03	0.10	1.62	13.00	5.55	2.12	0.28	0.21	0.29	0.16	0.13	0.07		
24	0.02	0.10	1.58	13.00	6.20	13.21	0.28	0.21	0.23	0.15	0.15	0.06		
25	0.01	0.10	1.66	7.08	6.60	13.68	0.28	0.20	0.21	0.15	0.14	0.06		
26	0.01	0.10	1.16	4.00	3.53	7.81	0.28	0.21	0.20	0.15	0.13	0.06		
27	0.00	0.10	0.72	5.80	3.44	5.40	0.36	0.21	0.20	0.15	0.13	0.06		
28	0.02	0.10	0.72	14.09	7.30	6.25	0.38	0.21	0.20	0.15	0.13	0.06		
29	0.04	0.10	1.42	15.18	12.67	5.70	0.42	0.21	0.20	0.15		0.06		
30	0.01	0.09	7.75	25.29	15.11	4.85	0.54	0.21	0.20	0.15		0.06		
31		0.09		67.20	10.24		0.64		0.19	0.15		0.06		
Total	1.65	2.92	21.99	509.39	365.10	393.86	24.83	8.53	5.91	5.28	3.77	2.20	1345.43	CMSDAY
Mean	0.05	0.09	0.73	16.43	11.78	13.13	0.80	0.28	0.19	0.17	0.13	0.07	3.69	CMS
Max	0.10	0.26	7.75	67.20	61.60	48.60	3.40	0.52	0.29	0.19	0.15	0.11	67.20	CMS
Min	0.00	0.01	0.02	0.84	1.56	1.70	0.28	0.20	0.11	0.15	0.12	0.05	0.00	CMS
Runoff	0.14	0.25	1.90	44.01	31.55	34.03	2.15	0.74	0.51	0.46	0.33	0.19	116.25	MCM

Momentary Peak 81.06 CMS. at 144.18 m. (MSL.) at 18.00 Hours , on Jul 31 , 2014

Runoff Yield 8.90 Liters/Second/Square KM. Momentary Peak Yield 195.797 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

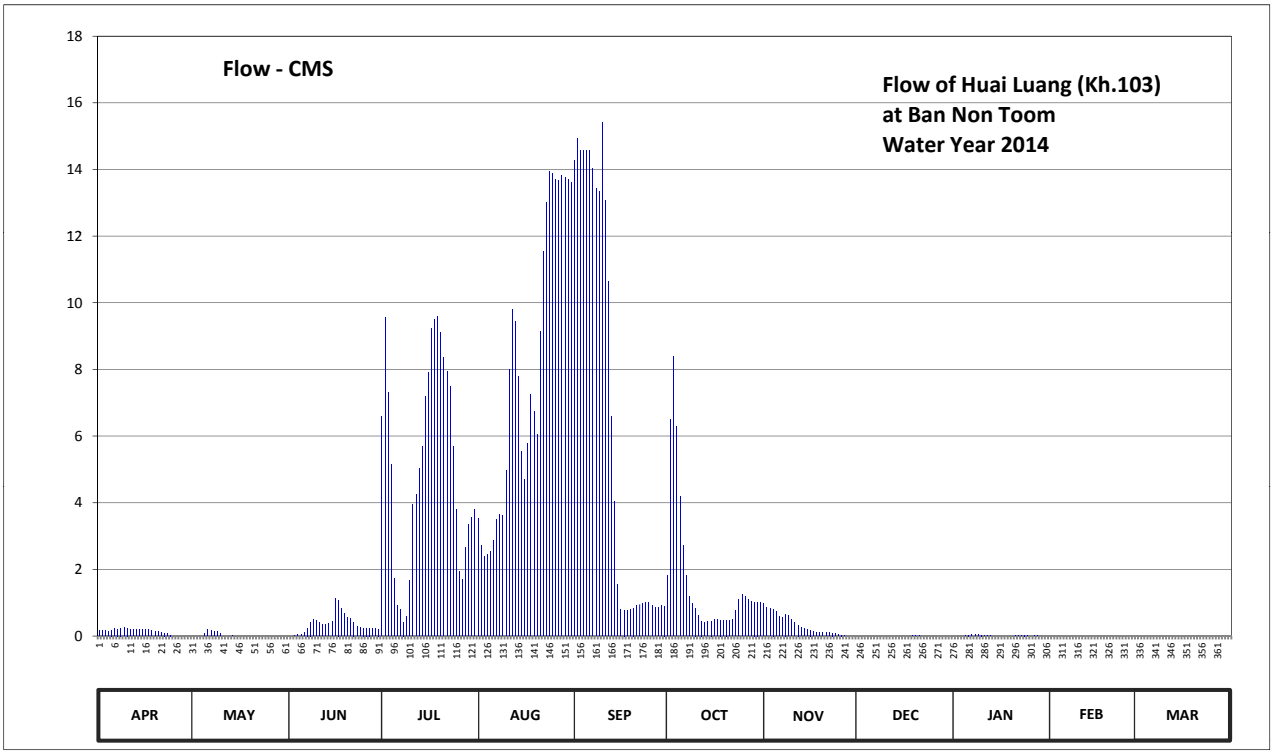
Location : on right bank at the bridge on highway.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.96	166.74	166.71	169.52	168.71	171.01	168.14	167.77	166.75	166.75	166.75	166.75	
2	166.96	166.75	166.75	170.11	168.44	171.12	169.50	167.66	166.75	166.75	166.75	166.76	
3	166.96	166.78	166.82	169.66	168.33	171.06	169.88	167.63	166.75	166.78	166.70	166.77	
4	166.95	166.80	166.84	169.16	168.35	171.06	169.45	167.61	166.76	166.80	166.70	166.78	
5	166.98	166.87	166.85	168.11	168.38	171.06	168.92	167.53	166.76	166.82	166.70	166.79	
6	167.02	167.00	166.91	167.72	168.49	171.06	168.44	167.38	166.76	166.83	166.70	166.79	
7	167.01	166.96	167.04	167.60	168.70	170.97	168.14	167.35	166.77	166.84	166.50	166.78	
8	167.04	166.95	167.22	167.22	168.75	170.86	167.89	167.46	166.77	166.85	166.50	166.77	
9	167.05	166.93	167.31	167.39	168.74	170.84	167.79	167.42	166.77	166.85	166.50	166.76	
10	167.04	166.87	167.27	168.09	169.12	171.20	167.64	167.31	166.78	166.83	166.50	166.75	
11	166.99	166.78	167.21	168.85	169.80	170.79	167.43	167.20	166.78	166.82	166.50	166.75	
12	167.00	166.78	167.15	168.94	170.16	170.33	167.25	167.13	166.78	166.81	166.50	166.76	
13	167.00	166.80	167.15	169.13	170.09	169.52	167.20	167.07	166.79	166.81	166.50	166.77	
14	167.00	166.81	167.17	169.30	169.76	168.88	167.23	167.02	166.79	166.80	166.50	166.76	
15	166.99	166.79	167.24	169.64	169.26	168.05	167.25	166.99	166.79	166.79	166.50	166.75	
16	166.99	166.76	167.86	169.78	169.05	167.60	167.29	166.98	166.80	166.78	166.50	166.74	
17	166.99	166.74	167.84	170.05	169.32	167.58	167.30	166.95	166.80	166.77	166.50	166.72	
18	166.97	166.72	167.63	170.10	169.65	167.56	167.28	166.91	166.80	166.77	166.50	166.71	
19	166.94	166.72	167.47	170.12	169.55	167.59	167.27	166.90	166.81	166.80	166.50	166.71	
20	166.93	166.72	167.35	170.02	169.39	167.64	167.28	166.90	166.81	166.80	166.50	166.70	
21	166.90	166.72	167.33	169.87	170.03	167.72	167.26	166.90	166.81	166.81	166.50	166.72	
22	166.89	166.72	167.22	169.79	170.51	167.75	167.30	166.90	166.80	166.81	166.60	166.73	
23	166.88	166.72	167.09	169.70	170.78	167.77	167.56	166.89	166.80	166.81	166.70	166.73	
24	166.83	166.72	167.06	169.30	170.95	167.80	167.85	166.87	166.79	166.83	166.70	166.74	
25	166.78	166.72	167.04	168.80	170.94	167.80	167.92	166.84	166.79	166.81	166.70	166.75	
26	166.75	166.72	167.04	168.18	170.91	167.72	167.89	166.83	166.78	166.80	166.75	166.76	
27	166.74	166.69	167.04	168.10	170.90	167.67	167.85	166.82	166.78	166.81	166.75	166.77	
28	166.73	166.69	167.03	168.42	170.93	167.65	167.82	166.80	166.77	166.81	166.75	166.78	
29	166.73	166.69	167.02	168.65	170.92	167.72	167.81	166.80	166.77	166.77		166.79	
30	166.72	166.69	167.01	168.72	170.91	167.70	167.81	166.79	166.76	166.76		166.80	
31		166.69		168.80	170.89		167.80		166.75	166.75		166.80	
Mean	166.92	166.78	167.16	168.99	169.70	169.10	167.85	167.12	166.78	166.80	166.60	166.76	
Max	167.05	167.00	167.86	170.12	170.95	171.20	169.88	167.77	166.81	166.85	166.75	166.80	171.20
Min	166.72	166.69	166.71	167.22	168.33	167.56	167.20	166.79	166.75	166.75	166.50	166.70	166.50

Annual Max Momentary Gage Height	171.39	m. (MSL.) ,	at 06.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	166.50	m. (MSL.) ,	River Bed	166.53	m. (MSL.)
Left Bank Elevation	172.68	m. (MSL.) ,			
Right Bank Elevation	172.20	m. (MSL.) ,	Drainage Area	1235	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	0.00	0.00	6.60	3.53	14.26	1.82	0.97	0.00	0.00	0.00	0.00		
2	0.16	0.00	0.00	9.55	2.72	14.92	6.50	0.86	0.00	0.00	0.00	0.00		
3	0.16	0.00	0.02	7.30	2.39	14.56	8.40	0.83	0.00	0.00	0.00	0.00		
4	0.15	0.00	0.04	5.14	2.45	14.56	6.30	0.81	0.00	0.00	0.00	0.00		
5	0.18	0.07	0.05	1.73	2.54	14.56	4.18	0.73	0.00	0.02	0.00	0.00		
6	0.22	0.20	0.11	0.92	2.87	14.56	2.72	0.58	0.00	0.03	0.00	0.00		
7	0.21	0.16	0.24	0.80	3.50	14.04	1.82	0.55	0.00	0.04	0.00	0.00		
8	0.24	0.15	0.42	0.42	3.65	13.44	1.18	0.66	0.00	0.05	0.00	0.00		
9	0.25	0.13	0.51	0.59	3.62	13.34	0.99	0.62	0.00	0.05	0.00	0.00		
10	0.24	0.07	0.47	1.67	4.98	15.40	0.84	0.51	0.00	0.03	0.00	0.00		
11	0.19	0.00	0.41	3.95	8.00	13.07	0.63	0.40	0.00	0.02	0.00	0.00		
12	0.20	0.00	0.35	4.26	9.80	10.65	0.45	0.33	0.00	0.01	0.00	0.00		
13	0.20	0.00	0.35	5.02	9.45	6.60	0.40	0.27	0.00	0.01	0.00	0.00		
14	0.20	0.01	0.37	5.70	7.80	4.04	0.43	0.22	0.00	0.00	0.00	0.00		
15	0.19	0.00	0.44	7.20	5.54	1.55	0.45	0.19	0.00	0.00	0.00	0.00		
16	0.19	0.00	1.12	7.90	4.70	0.80	0.49	0.18	0.00	0.00	0.00	0.00		
17	0.19	0.00	1.08	9.25	5.78	0.78	0.50	0.15	0.00	0.00	0.00	0.00		
18	0.17	0.00	0.83	9.50	7.25	0.76	0.48	0.11	0.00	0.00	0.00	0.00		
19	0.14	0.00	0.67	9.60	6.75	0.79	0.47	0.10	0.01	0.00	0.00	0.00		
20	0.13	0.00	0.55	9.10	6.06	0.84	0.48	0.10	0.01	0.00	0.00	0.00		
21	0.10	0.00	0.53	8.35	9.15	0.92	0.46	0.10	0.01	0.01	0.00	0.00		
22	0.09	0.00	0.42	7.95	11.55	0.95	0.50	0.10	0.00	0.01	0.00	0.00		
23	0.08	0.00	0.29	7.50	13.01	0.97	0.76	0.09	0.00	0.01	0.00	0.00		
24	0.03	0.00	0.26	5.70	13.93	1.00	1.10	0.07	0.00	0.03	0.00	0.00		
25	0.00	0.00	0.24	3.80	13.88	1.00	1.24	0.04	0.00	0.01	0.00	0.00		
26	0.00	0.00	0.24	1.94	13.71	0.92	1.18	0.03	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.24	1.70	13.66	0.87	1.10	0.02	0.00	0.01	0.00	0.00		
28	0.00	0.00	0.23	2.66	13.82	0.85	1.04	0.00	0.00	0.01	0.00	0.00		
29	0.00	0.00	0.22	3.35	13.77	0.92	1.02	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.21	3.56	13.71	0.90	1.02	0.00	0.00	0.00		0.00		
31		0.00		3.80	13.61		1.00		0.00	0.00		0.00		
Total	4.07	0.79	10.91	156.51	247.18	192.82	49.95	9.62	0.03	0.35	0.00	0.00	672.23	CMSDAY
Mean	0.14	0.03	0.36	5.05	7.97	6.43	1.61	0.32	0.00	0.01	0.00	0.00	1.84	CMS
Max	0.25	0.20	1.12	9.60	13.93	15.40	8.40	0.97	0.01	0.05	0.00	0.00	15.40	CMS
Min	0.00	0.00	0.00	0.42	2.39	0.76	0.40	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.35	0.07	0.94	13.52	21.36	16.66	4.32	0.83	0.00	0.03	0.00	0.00	58.08	MCM

Momentary Peak 16.54 CMS. at 171.39 m. (MSL.) at 06.00 Hours , on Sep 10 , 2014

Runoff Yield 1.49 Liters/Second/Square KM. Momentary Peak Yield 13.393 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

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

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

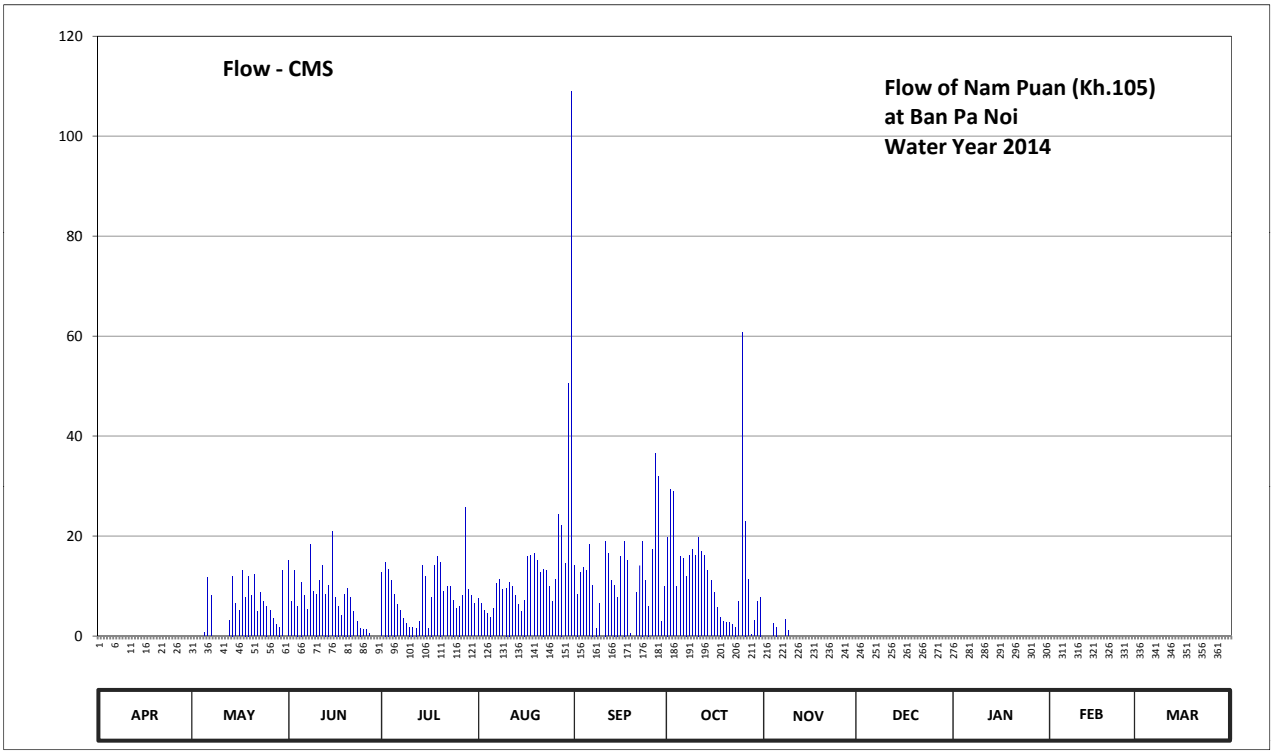
Location : on right bank at the bridge on highway.

	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 mean of 3 readings.		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.76	249.67	251.59	251.52	251.35	251.56	251.72	250.98	249.72	250.27	249.98	249.75	
2	249.73	249.66	251.33	251.58	251.32	251.38	251.94	250.68	250.70	250.27	249.94	249.74	
3	249.69	249.66	251.53	251.54	251.26	251.52	251.93	250.88	250.66	250.27	249.91	249.72	
4	249.68	249.74	251.30	251.47	251.23	251.55	251.43	251.14	250.78	250.26	249.89	249.69	
5	249.68	251.04	251.46	251.38	251.20	251.53	251.61	251.11	251.00	250.22	249.89	249.66	
6	249.68	251.49	251.37	251.31	251.28	251.68	251.60	250.57	251.00	250.17	249.86	249.58	
7	249.68	251.37	251.27	251.26	251.45	251.44	251.50	250.78	250.99	250.15	249.79	249.55	
8	249.69	250.85	251.68	251.19	251.48	251.10	251.62	251.18	250.98	250.15	249.76	249.54	
9	249.70	250.57	251.40	251.14	251.41	251.32	251.65	251.07	250.94	250.14	249.75	249.50	
10	249.70	250.18	251.38	251.11	251.42	251.00	251.62	250.17	250.89	250.14	249.75	249.46	
11	249.69	250.75	251.47	251.11	251.46	251.70	251.72	249.40	250.83	250.14	249.75	249.41	
12	249.70	250.96	251.56	251.10	251.43	251.63	251.64	249.35	250.69	250.15	249.74	249.48	
13	249.70	251.17	251.38	251.16	251.37	251.47	251.62	249.52	250.80	250.16	249.74	249.41	
14	249.70	251.50	251.44	251.56	251.31	251.44	251.53	249.41	250.71	250.17	249.73	249.41	
15	249.69	251.32	251.75	251.50	251.25	251.36	251.47	249.31	250.64	250.17	249.73	249.42	
16	249.69	251.26	251.36	251.09	251.34	251.61	251.39	249.28	250.60	250.17	249.72	249.43	
17	249.69	251.53	251.30	251.36	251.61	251.70	251.29	249.48	250.55	250.16	249.72	249.44	
18	249.68	251.36	251.21	251.56	251.62	251.59	251.20	249.67	250.48	250.16	249.71	249.44	
19	249.67	251.50	251.38	251.61	251.63	251.03	251.16	249.73	250.42	250.15	249.71	249.44	
20	249.68	251.37	251.42	251.58	251.59	250.70	251.15	249.72	250.41	250.13	249.70	249.45	
21	249.70	251.51	251.36	251.40	251.52	251.39	251.15	249.79	250.38	250.12	249.70	249.44	
22	249.70	251.25	251.25	251.43	251.54	251.56	251.13	249.75	250.36	250.12	249.69	249.45	
23	249.70	251.39	251.16	251.43	251.53	251.70	251.11	249.68	250.34	250.10	249.69	249.46	
24	249.69	251.33	251.10	251.34	251.43	251.47	251.33	249.68	250.32	250.09	249.73	249.46	
25	249.68	251.30	251.08	251.28	251.33	251.30	252.52	249.70	250.31	250.08	249.75	249.45	
26	249.68	251.26	251.08	251.30	251.48	251.65	251.80	249.83	250.30	250.07	249.75	249.43	
27	249.68	251.19	251.03	251.37	251.83	252.09	251.48	249.88	250.29	250.06	249.75	249.43	
28	249.68	251.13	250.99	251.86	251.78	252.00	251.02	249.84	250.28	250.04	249.75	249.43	
29	249.67	251.11	250.94	251.41	251.57	251.16	251.17	249.76	250.28	250.02		249.42	
30	249.67	251.53	250.97	251.37	252.35	251.43	251.33	249.67	250.27	250.00		249.41	
31		250.69		251.32	253.17		251.36		250.27	249.99		249.40	
Mean	249.69	250.99	251.32	251.38	251.53	251.47	251.49	250.03	250.55	250.14	249.77	249.49	
Max	249.76	251.53	251.75	251.86	253.17	252.09	252.52	251.18	251.00	250.27	249.98	249.75	253.17
Min	249.67	249.66	250.94	251.09	251.20	250.70	251.02	249.28	249.72	249.99	249.69	249.40	249.28

Annual Max Momentary Gage Height	253.60	m. (MSL.) ,	at 09.00 Hours , on Aug 31 , 2014		
Zero Gage at Bottom Elevation	247.50	m. (MSL.) ,	River Bed	248.05	m. (MSL.)
Left Bank Elevation	258.32	m. (MSL.) ,			
Right Bank Elevation	258.30	m. (MSL.) ,	Drainage Area	948	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	15.15	12.70	7.50	14.10	19.80	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	6.90	14.80	6.60	8.40	29.30	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	13.05	13.40	5.12	12.70	28.85	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	6.00	11.10	4.46	13.75	9.90	2.48	0.00	0.00	0.00	0.00		
5	0.00	0.64	10.80	8.40	3.80	13.05	15.85	1.82	0.00	0.00	0.00	0.00		
6	0.00	11.70	8.10	6.30	5.56	18.30	15.50	0.00	0.00	0.00	0.00	0.00		
7	0.00	8.10	5.34	5.12	10.50	10.20	12.00	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	18.30	3.58	11.40	1.60	16.20	3.36	0.00	0.00	0.00	0.00		
9	0.00	0.00	9.00	2.48	9.30	6.60	17.25	1.12	0.00	0.00	0.00	0.00		
10	0.00	0.00	8.40	1.82	9.60	0.00	16.20	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	11.10	1.82	10.80	19.00	19.80	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	14.10	1.60	9.90	16.55	16.90	0.00	0.00	0.00	0.00	0.00		
13	0.00	3.14	8.40	2.92	8.10	11.10	16.20	0.00	0.00	0.00	0.00	0.00		
14	0.00	12.00	10.20	14.10	6.30	10.20	13.05	0.00	0.00	0.00	0.00	0.00		
15	0.00	6.60	21.00	12.00	4.90	7.80	11.10	0.00	0.00	0.00	0.00	0.00		
16	0.00	5.12	7.80	1.44	7.20	15.85	8.70	0.00	0.00	0.00	0.00	0.00		
17	0.00	13.05	6.00	7.80	15.85	19.00	5.78	0.00	0.00	0.00	0.00	0.00		
18	0.00	7.80	4.02	14.10	16.20	15.15	3.80	0.00	0.00	0.00	0.00	0.00		
19	0.00	12.00	8.40	15.85	16.55	0.48	2.92	0.00	0.00	0.00	0.00	0.00		
20	0.00	8.10	9.60	14.80	15.15	0.00	2.70	0.00	0.00	0.00	0.00	0.00		
21	0.00	12.35	7.80	9.00	12.70	8.70	2.70	0.00	0.00	0.00	0.00	0.00		
22	0.00	4.90	4.90	9.90	13.40	14.10	2.26	0.00	0.00	0.00	0.00	0.00		
23	0.00	8.70	2.92	9.90	13.05	19.00	1.82	0.00	0.00	0.00	0.00	0.00		
24	0.00	6.90	1.60	7.20	9.90	11.10	6.90	0.00	0.00	0.00	0.00	0.00		
25	0.00	6.00	1.28	5.56	6.90	6.00	60.80	0.00	0.00	0.00	0.00	0.00		
26	0.00	5.12	1.28	6.00	11.40	17.25	23.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	3.58	0.48	8.10	24.35	36.50	11.40	0.00	0.00	0.00	0.00	0.00		
28	0.00	2.26	0.00	25.70	22.20	32.00	0.32	0.00	0.00	0.00	0.00	0.00		
29	0.00	1.82	0.00	9.30	14.45	2.92	3.14	0.00	0.00	0.00		0.00		
30	0.00	13.05	0.00	8.10	50.50	9.90	6.90	0.00	0.00	0.00		0.00		
31		0.00		6.60	108.94		7.80		0.00	0.00		0.00		
Total	0.00	152.93	221.92	271.49	472.58	371.30	408.84	8.78	0.00	0.00	0.00	0.00	1907.84	CMSDAY
Mean	0.00	4.93	7.40	8.76	15.24	12.38	13.19	0.29	0.00	0.00	0.00	0.00	5.23	CMS
Max	0.00	13.05	21.00	25.70	108.94	36.50	60.80	3.36	0.00	0.00	0.00	0.00	108.94	CMS
Min	0.00	0.00	0.00	1.44	3.80	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	13.21	19.17	23.46	40.83	32.08	35.32	0.76	0.00	0.00	0.00	0.00	164.84	MCM

Momentary Peak 145.60 CMS. at 253.60 m. (MSL.) at 09.00 Hours , on Aug 31 , 2014

Runoff Yield 5.51 Liters/Second/Square KM. Momentary Peak Yield 153.587 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Nam Un at Ban Prong Yai , Sakon Nakhon (Kh.108)

Lat 17 - 19 - 22 N Long 103 - 58 - 45 E

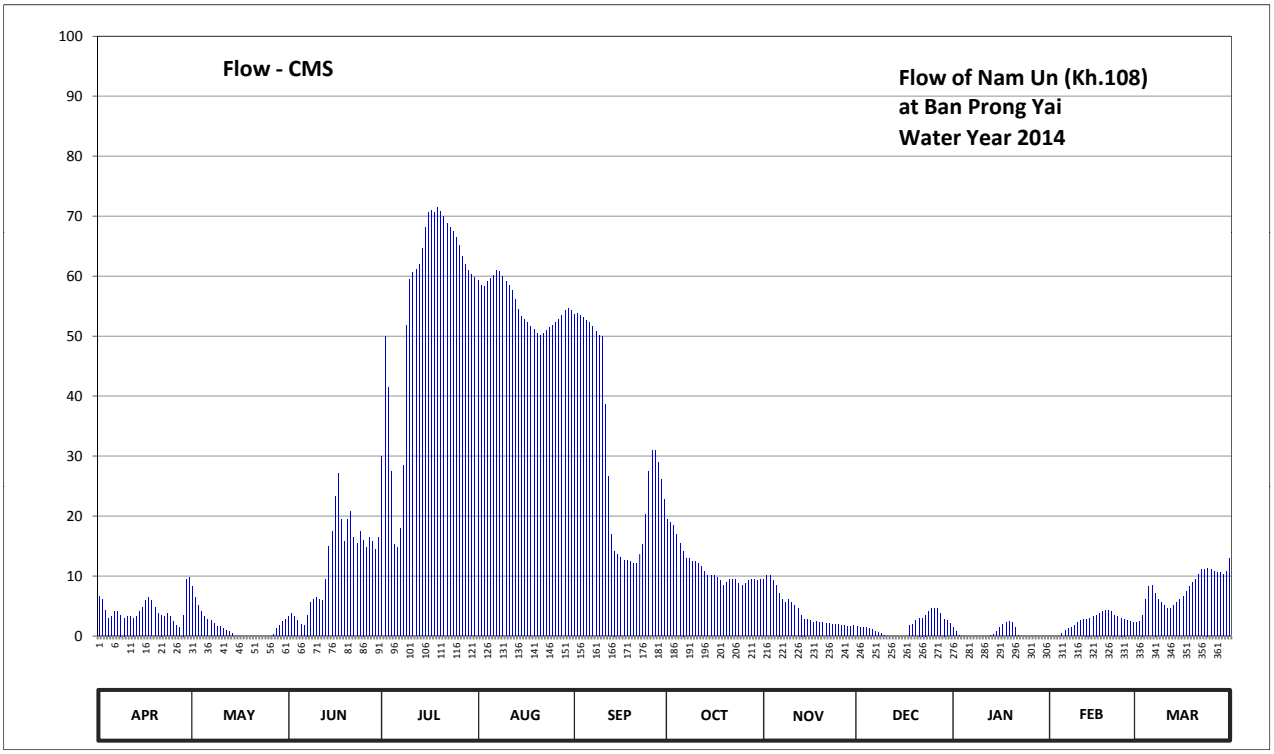
Location : on right bank Ban Prong Yai.

	Ban Prong Yai	**Amphoe** Phanna Nikhom	**Changwat** Sakon Nakhon
Drainge Area	2,160 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+150.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the automatic gage building.	**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	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.14	153.20	153.01	153.79	155.68	155.12	153.57	153.25	152.91	152.89	152.75	152.95	
2	153.12	153.13	153.03	154.25	155.60	155.13	153.56	153.27	152.90	152.85	152.75	152.96	
3	153.05	153.08	153.01	154.03	155.58	155.09	153.55	153.27	152.90	152.81	152.77	153.02	
4	153.00	153.04	152.97	153.74	155.66	155.03	153.52	153.24	152.89	152.77	152.80	153.12	
5	153.01	153.01	152.93	153.47	155.72	154.94	153.48	153.21	152.88	152.71	152.83	153.20	
6	153.04	152.98	152.92	153.45	155.77	154.87	153.43	153.16	152.87	152.68	152.86	153.21	
7	153.04	152.97	153.02	153.54	155.85	154.74	153.38	153.12	152.85	152.65	152.88	153.16	
8	153.02	152.94	153.10	153.76	155.83	154.57	153.38	153.10	152.84	152.61	152.90	153.12	
9	153.00	152.91	153.12	154.77	155.75	154.40	153.36	153.12	152.83	152.58	152.92	153.10	
10	153.01	152.91	153.13	155.70	155.67	154.22	153.36	153.10	152.81	152.57	152.95	153.08	
11	153.01	152.88	153.12	155.82	155.60	153.97	153.35	153.08	152.80	152.62	152.97	153.06	
12	153.00	152.86	153.11	155.86	155.51	153.72	153.33	153.06	152.77	152.73	152.98	153.06	
13	153.01	152.85	153.25	155.94	155.37	153.52	153.30	153.02	152.75	152.81	152.99	153.08	
14	153.04	152.83	153.46	156.13	155.20	153.43	153.27	152.99	152.74	152.82	153.00	153.10	
15	153.07	152.80	153.53	156.38	155.07	153.41	153.27	152.98	152.73	152.85	153.01	153.12	
16	153.11	152.78	153.65	156.56	154.96	153.39	153.27	152.97	152.72	152.89	153.02	153.14	
17	153.13	152.77	153.73	156.58	154.85	153.37	153.26	152.95	152.80	152.93	153.03	153.17	
18	153.11	152.77	153.57	156.55	154.74	153.37	153.24	152.96	152.92	152.95	153.04	153.20	
19	153.07	152.75	153.49	156.61	154.61	153.36	153.21	152.95	152.93	152.96	153.05	153.23	
20	153.03	152.72	153.57	156.57	154.48	153.35	153.23	152.95	152.97	152.95	153.05	153.25	
21	153.02	152.70	153.60	156.51	154.37	153.35	153.25	152.94	153.00	152.89	153.04	153.28	
22	153.01	152.70	153.51	156.42	154.49	153.41	153.25	152.94	153.00	152.81	153.02	153.31	
23	153.03	152.69	153.48	156.38	154.59	153.47	153.25	152.93	153.02	152.76	153.01	153.31	
24	153.01	152.72	153.53	156.33	154.69	153.59	153.22	152.93	153.04	152.74	153.00	153.32	
25	152.96	152.77	153.50	156.26	154.77	153.74	153.21	152.93	153.06	152.75	152.99	153.31	
26	152.92	152.79	153.45	156.16	154.85	153.81	153.22	152.92	153.06	152.76	152.97	153.30	
27	152.89	152.82	153.51	156.03	154.96	153.81	153.24	152.92	153.06	152.77	152.96	153.29	
28	153.02	152.88	153.49	155.94	155.08	153.77	153.25	152.91	153.03	152.75	152.95	153.29	
29	153.25	152.92	153.44	155.85	155.18	153.71	153.25	152.91	152.99	152.73		153.28	
30	153.26	152.96	153.51	155.78	155.21	153.64	153.24	152.92	152.97	152.72		153.30	
31		152.98		155.73	155.18		153.25		152.94	152.74		153.38	
Mean	153.05	152.87	153.32	155.51	155.19	153.98	153.32	153.03	152.90	152.78	152.95	153.18	
Max	153.26	153.20	153.73	156.61	155.85	155.13	153.57	153.27	153.06	152.96	153.05	153.38	156.61
Min	152.89	152.69	152.92	153.45	154.37	153.35	153.21	152.91	152.72	152.57	152.75	152.95	152.57

Annual Max Momentary Gage Height	156.63	m. (MSL.) ,	at 15.00 Hours , on Jul 19 , 2014		
Zero Gage at Bottom Elevation	150.00	m. (MSL.) ,	River Bed	150.25	m. (MSL.)
Left Bank Elevation	157.56	m. (MSL.) ,			
Right Bank Elevation	158.34	m. (MSL.) ,	Drainage Area	2160	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.64	8.20	3.26	29.92	59.30	53.70	19.36	9.50	1.65	1.35	0.00	2.25		
2	6.12	6.38	3.78	50.05	58.50	53.80	18.88	10.02	1.50	0.75	0.00	2.40		
3	4.30	5.08	3.26	41.50	58.30	53.45	18.40	10.02	1.50	0.15	0.00	3.52		
4	3.00	4.04	2.55	27.52	59.10	53.15	16.96	9.24	1.35	0.00	0.00	6.12		
5	3.26	3.26	1.95	15.22	59.70	52.70	15.48	8.46	1.20	0.00	0.45	8.20		
6	4.04	2.70	1.80	14.70	60.20	52.35	14.18	7.16	1.05	0.00	0.90	8.46		
7	4.04	2.55	3.52	17.92	61.00	51.70	12.88	6.12	0.75	0.00	1.20	7.16		
8	3.52	2.10	5.60	28.48	60.80	50.85	12.88	5.60	0.60	0.00	1.50	6.12		
9	3.00	1.65	6.12	51.85	60.00	50.20	12.36	6.12	0.45	0.00	1.80	5.60		
10	3.26	1.65	6.38	59.50	59.20	50.02	12.36	5.60	0.15	0.00	2.25	5.08		
11	3.26	1.20	6.12	60.70	58.50	38.56	12.10	5.08	0.00	0.00	2.55	4.56		
12	3.00	0.90	5.86	61.10	57.60	26.56	11.58	4.56	0.00	0.00	2.70	4.56		
13	3.26	0.75	9.50	62.06	56.20	16.96	10.80	3.52	0.00	0.15	2.85	5.08		
14	4.04	0.45	14.96	64.69	54.50	14.18	10.02	2.85	0.00	0.30	3.00	5.60		
15	4.82	0.00	17.44	68.17	53.35	13.66	10.02	2.70	0.00	0.75	3.26	6.12		
16	5.86	0.00	23.20	70.67	52.80	13.14	10.02	2.55	0.00	1.35	3.52	6.64		
17	6.38	0.00	27.04	70.94	52.25	12.62	9.76	2.25	0.00	1.95	3.78	7.42		
18	5.86	0.00	19.36	70.53	51.70	12.62	9.24	2.40	1.80	2.25	4.04	8.20		
19	4.82	0.00	15.74	71.36	51.05	12.36	8.46	2.25	1.95	2.40	4.30	8.98		
20	3.78	0.00	19.36	70.81	50.44	12.10	8.98	2.25	2.55	2.25	4.30	9.50		
21	3.52	0.00	20.80	69.97	50.17	12.10	9.50	2.10	3.00	1.35	4.04	10.28		
22	3.26	0.00	16.48	68.72	50.47	13.66	9.50	2.10	3.00	0.15	3.52	11.06		
23	3.78	0.00	15.48	68.17	50.95	15.22	9.50	1.95	3.52	0.00	3.26	11.06		
24	3.26	0.00	17.44	67.47	51.45	20.32	8.72	1.95	4.04	0.00	3.00	11.32		
25	2.40	0.00	16.00	66.50	51.85	27.52	8.46	1.95	4.56	0.00	2.85	11.06		
26	1.80	0.00	14.70	65.11	52.25	30.88	8.72	1.80	4.56	0.00	2.55	10.80		
27	1.35	0.30	16.48	63.31	52.80	30.88	9.24	1.80	4.56	0.00	2.40	10.54		
28	3.52	1.20	15.74	62.06	53.40	28.96	9.50	1.65	3.78	0.00	2.25	10.54		
29	9.50	1.80	14.44	61.00	54.30	26.08	9.50	1.65	2.85	0.00		10.28		
30	9.76	2.40	16.48	60.30	54.60	22.72	9.24	1.80	2.55	0.00		10.80		
31		2.70		59.80	54.30		9.50		2.10	0.00		12.88		
Total	128.41	49.31	360.84	1720.10	1711.03	923.02	356.10	127.00	55.02	15.15	66.27	242.19	5754.44	CMSDAY
Mean	4.28	1.59	12.03	55.49	55.19	30.77	11.49	4.23	1.77	0.49	2.37	7.81	15.77	CMS
Max	9.76	8.20	27.04	71.36	61.00	53.80	19.36	10.02	4.56	2.40	4.30	12.88	71.36	CMS
Min	1.35	0.00	1.80	14.70	50.17	12.10	8.46	1.65	0.00	0.00	0.00	2.25	0.00	CMS
Runoff	11.10	4.26	31.18	148.62	147.83	79.75	30.77	10.97	4.75	1.31	5.73	20.93	497.18	MCM

Momentary Peak 71.64 CMS. at 156.63 m. (MSL.) at 15.00 Hours , on Jul 19 , 2014

Runoff Yield 7.30 Liters/Second/Square KM. Momentary Peak Yield 33.167 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Nam Yam at Ban Pho Chai , Sakon Nakhon (Kh.112)

Lat 17 - 35 - 59 N Long 103 - 58 - 51 E

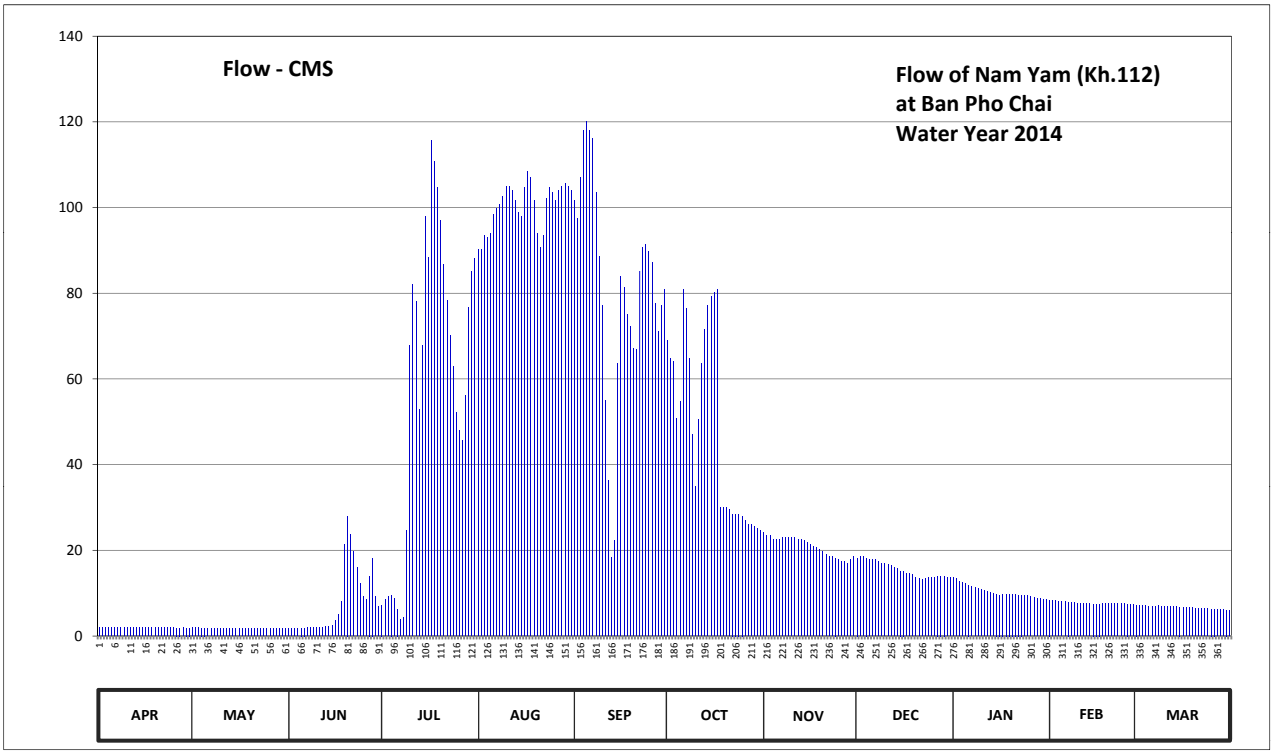
Location : on left bank Ban Pho Chai.

	Ban Pho Chai	**Amphoe** Akat Amnuai	**Changwat** Sakon Nakhon
Drainge Area	1,448 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+141.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the automatic gage building.	**Elevation**	+151.253 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	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.48	144.45	144.36	145.87	146.91	147.16	146.39	146.58	146.43	146.29	146.04	145.87	
2	144.48	144.44	144.37	146.06	146.91	147.07	146.27	146.56	146.44	146.28	146.03	145.86	
3	144.47	144.44	144.38	146.11	146.99	147.27	146.25	146.56	146.44	146.26	146.02	145.85	
4	144.48	144.43	144.41	146.13	146.98	147.50	145.87	146.54	146.43	146.25	146.01	145.84	
5	144.50	144.42	144.43	146.07	147.00	147.54	145.99	146.54	146.42	146.24	146.00	145.83	
6	144.50	144.41	144.43	145.72	147.09	147.50	146.69	146.54	146.42	146.23	146.00	145.82	
7	144.51	144.40	144.44	145.21	147.12	147.46	146.58	146.55	146.42	146.22	145.99	145.82	
8	144.51	144.40	144.46	145.33	147.14	147.20	146.27	146.55	146.41	146.21	145.98	145.84	
9	144.51	144.40	144.47	146.59	147.18	146.87	145.75	146.55	146.40	146.20	145.96	145.83	
10	144.50	144.40	144.48	147.31	147.23	146.60	145.34	146.55	146.40	146.19	145.95	145.82	
11	144.50	144.39	144.50	147.46	147.23	146.00	145.86	146.55	146.39	146.18	145.94	145.83	
12	144.50	144.38	144.52	147.42	147.21	145.40	146.24	146.54	146.38	146.17	145.93	145.83	
13	144.50	144.37	144.60	147.12	147.16	144.62	146.46	146.54	146.37	146.16	145.92	145.82	
14	144.50	144.40	144.65	147.31	147.10	144.81	146.60	146.53	146.36	146.15	145.92	145.81	
15	144.50	144.40	144.75	147.60	147.08	146.24	146.65	146.52	146.34	146.14	145.91	145.80	
16	144.49	144.40	145.15	147.52	147.22	146.76	146.67	146.51	146.34	146.13	145.91	145.79	
17	144.49	144.38	145.52	147.45	147.30	146.70	146.69	146.50	146.32	146.14	145.91	145.78	
18	144.49	144.38	146.00	147.35	147.27	146.55	146.70	146.49	146.32	146.14	145.92	145.78	
19	144.48	144.37	146.51	147.22	147.16	146.48	146.70	146.48	146.31	146.14	145.93	145.77	
20	144.48	144.36	146.66	147.06	147.00	146.34	146.70	146.47	146.29	146.14	145.95	145.75	
21	144.47	144.36	146.57	146.83	146.92	146.33	146.69	146.45	146.28	146.14	145.95	145.75	
22	144.47	144.35	146.47	146.63	146.99	146.79	146.67	146.44	146.27	146.13	145.95	145.74	
23	144.46	144.34	146.37	146.42	147.17	146.92	146.67	146.44	146.28	146.13	145.94	145.74	
24	144.45	144.34	146.24	146.22	147.22	146.94	146.67	146.43	146.29	146.12	145.94	145.73	
25	144.44	144.33	146.11	145.91	147.20	146.90	146.66	146.42	146.29	146.12	145.92	145.72	
26	144.43	144.33	146.06	145.78	147.16	146.84	146.64	146.41	146.29	146.11	145.91	145.72	
27	144.42	144.34	146.30	145.71	147.21	146.61	146.62	146.41	146.30	146.09	145.90	145.71	
28	144.44	144.34	146.43	146.03	147.23	146.45	146.62	146.40	146.30	146.08	145.89	145.70	
29	144.43	144.35	146.11	146.59	147.24	146.60	146.61	146.42	146.30	146.07		145.69	
30	144.42	144.35	145.82	146.79	147.23	146.69	146.60	146.44	146.29	146.06		145.68	
31		144.35		146.86	147.21		146.59		146.29	146.06		145.67	
Mean	144.48	144.38	145.32	146.57	147.13	146.64	146.44	146.50	146.35	146.16	145.95	145.78	
Max	144.51	144.45	146.66	147.60	147.30	147.54	146.70	146.58	146.44	146.29	146.04	145.87	147.60
Min	144.42	144.33	144.36	145.21	146.91	144.62	145.34	146.40	146.27	146.06	145.89	145.67	144.33

Annual Max Momentary Gage Height	147.67	m. (MSL.) ,	at 06.00 Hours , on Jul 15 , 2014		
Zero Gage at Bottom Elevation	141.00	m. (MSL.) ,	River Bed	139.98	m. (MSL.)
Left Bank Elevation	150.71	m. (MSL.) ,			
Right Bank Elevation	151.32	m. (MSL.) ,	Drainage Area	1448	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.96	1.90	1.72	7.22	90.22	101.68	69.04	24.20	18.20	13.70	8.40	7.22		
2	1.96	1.88	1.74	8.60	90.22	97.36	64.72	23.40	18.60	13.40	8.30	7.16		
3	1.94	1.88	1.76	9.20	93.58	106.96	64.00	23.40	18.60	12.80	8.20	7.10		
4	1.96	1.86	1.82	9.60	93.16	118.00	50.84	22.60	18.20	12.50	8.10	7.04		
5	2.00	1.84	1.86	8.70	94.00	120.00	54.68	22.60	17.80	12.20	8.00	6.98		
6	2.00	1.82	1.86	6.32	98.32	118.00	80.98	22.60	17.80	11.90	8.00	6.92		
7	2.02	1.80	1.88	3.84	99.76	116.08	76.36	23.00	17.80	11.60	7.94	6.92		
8	2.02	1.80	1.92	4.32	100.72	103.60	64.72	23.00	17.40	11.30	7.88	7.04		
9	2.02	1.80	1.94	24.60	102.64	88.54	47.00	23.00	17.00	11.00	7.76	6.98		
10	2.00	1.80	1.96	67.90	105.04	77.20	34.84	23.00	17.00	10.80	7.70	6.92		
11	2.00	1.78	2.00	82.00	105.04	55.00	50.52	23.00	16.70	10.60	7.64	6.98		
12	2.00	1.76	2.04	78.00	104.08	36.40	63.64	22.60	16.40	10.40	7.58	6.98		
13	2.00	1.74	2.20	52.80	101.68	18.40	71.56	22.60	16.10	10.20	7.52	6.92		
14	2.00	1.80	2.30	67.90	98.80	22.20	77.20	22.20	15.80	10.00	7.52	6.86		
15	2.00	1.80	2.50	98.00	97.84	63.64	79.30	21.80	15.20	9.80	7.46	6.80		
16	1.98	1.80	3.60	88.40	104.56	83.92	80.14	21.40	15.20	9.60	7.46	6.74		
17	1.98	1.76	5.12	115.60	108.40	81.40	80.98	21.00	14.60	9.80	7.46	6.68		
18	1.98	1.76	8.00	110.80	106.96	75.10	30.00	20.60	14.60	9.80	7.52	6.68		
19	1.96	1.74	21.40	104.56	101.68	72.28	30.00	20.20	14.30	9.80	7.58	6.62		
20	1.96	1.72	28.00	96.88	94.00	67.24	30.00	19.80	13.70	9.80	7.70	6.50		
21	1.94	1.72	23.80	86.86	90.64	66.88	29.50	19.00	13.40	9.80	7.70	6.50		
22	1.94	1.70	19.80	78.46	93.58	85.18	28.50	18.60	13.10	9.60	7.70	6.44		
23	1.92	1.68	16.10	70.12	102.16	90.64	28.50	18.60	13.40	9.60	7.64	6.44		
24	1.90	1.68	12.20	62.92	104.56	91.48	28.50	18.20	13.70	9.40	7.64	6.38		
25	1.88	1.66	9.20	52.12	103.60	89.80	28.00	17.80	13.70	9.40	7.52	6.32		
26	1.86	1.66	8.60	47.96	101.68	87.28	27.00	17.40	13.70	9.20	7.46	6.32		
27	1.84	1.68	14.00	45.72	104.08	77.62	26.00	17.40	14.00	8.90	7.40	6.26		
28	1.88	1.68	18.20	56.08	105.04	71.20	26.00	17.00	14.00	8.80	7.34	6.20		
29	1.86	1.70	9.20	76.78	105.52	77.20	25.50	17.80	14.00	8.70		6.14		
30	1.84	1.70	6.92	85.18	105.04	80.98	25.00	18.60	13.70	8.60		6.08		
31		1.70		88.12	104.08		24.60		13.70	8.60		6.02		
Total	58.60	54.60	233.64	1795.56	3110.68	2441.26	1497.62	626.40	481.40	321.60	216.12	207.14	11044.62	CMSDAY
Mean	1.95	1.76	7.79	57.92	100.34	81.38	48.31	20.88	15.53	10.37	7.72	6.68	30.26	CMS
Max	2.02	1.90	28.00	115.60	108.40	120.00	80.98	24.20	18.60	13.70	8.40	7.22	120.00	CMS
Min	1.84	1.66	1.72	3.84	90.22	18.40	24.60	17.00	13.10	8.60	7.34	6.02	1.66	CMS
Runoff	5.06	4.72	20.19	155.14	268.76	210.93	129.39	54.12	41.59	27.79	18.67	17.90	954.26	MCM

Momentary Peak 109.90 CMS. at 147.67 m. (MSL.) at 06.00 Hours , on Jul 15 , 2014

Runoff Yield 20.90 Liters/Second/Square KM. Momentary Peak Yield 75.898 Liters/Second/Square KM.

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Lao Sonbun , Sakon Nakhon (Kh.115)

Lat 18 - 00 - 20 N Long 103 - 28 - 20 E

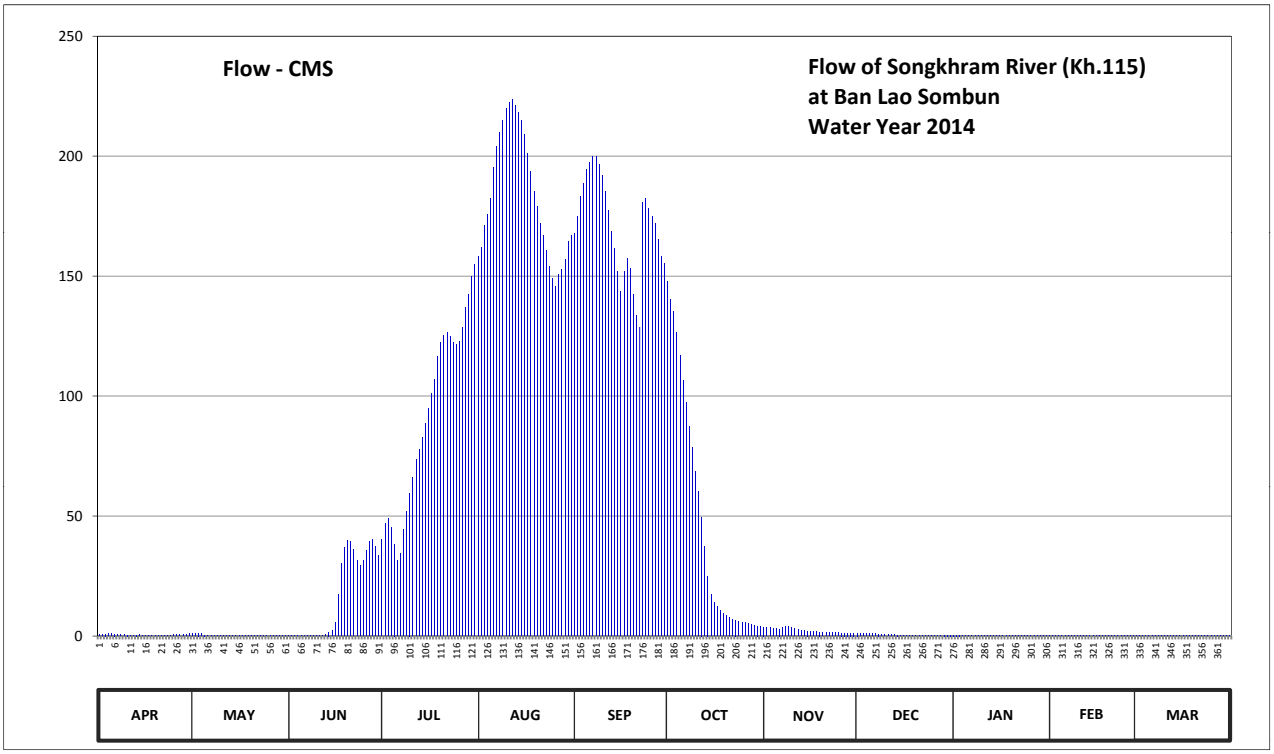
Location : on right bank Ban Lao Sombun.

	Ban Lao Sombun	**Amphoe** Ban Muang	**Changwat** Sakon Nakhon
Drainge Area	2,852 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+143.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank at the automatic gage building.	**Elevation**	+159.538 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	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.47	143.56	143.32	148.51	152.89	153.01	152.74	144.25	143.61	143.41	143.31	143.30	
2	143.48	143.60	143.31	149.07	152.94	153.10	152.62	144.20	143.60	143.41	143.31	143.30	
3	143.51	143.62	143.30	149.22	153.05	153.20	152.54	144.16	143.59	143.41	143.31	143.30	
4	143.53	143.55	143.29	148.95	153.11	153.27	152.39	144.12	143.58	143.40	143.31	143.30	
5	143.55	143.42	143.29	148.36	153.19	153.34	152.20	144.07	143.56	143.40	143.31	143.30	
6	143.52	143.39	143.30	147.78	153.35	153.37	151.99	144.03	143.55	143.40	143.31	143.30	
7	143.49	143.37	143.31	148.02	153.44	153.40	151.76	144.20	143.53	143.39	143.31	143.30	
8	143.48	143.35	143.33	148.88	153.50	153.40	151.48	144.33	143.51	143.39	143.31	143.30	
9	143.45	143.34	143.37	149.42	153.55	153.36	151.14	144.28	143.50	143.39	143.31	143.30	
10	143.41	143.34	143.40	149.97	153.60	153.31	150.59	144.17	143.48	143.39	143.31	143.30	
11	143.40	143.33	143.40	150.44	153.62	153.23	150.02	144.06	143.46	143.40	143.30	143.30	
12	143.40	143.32	143.40	150.86	153.63	153.13	149.26	143.97	143.44	143.39	143.30	143.30	
13	143.41	143.32	143.47	151.08	153.61	153.02	148.27	143.92	143.43	143.38	143.30	143.31	
14	143.45	143.32	143.72	151.32	153.58	152.93	147.20	143.86	143.42	143.37	143.30	143.35	
15	143.39	143.31	143.91	151.52	153.55	152.80	146.40	143.83	143.40	143.36	143.30	143.33	
16	143.38	143.30	144.69	151.70	153.49	152.68	146.01	143.79	143.39	143.35	143.30	143.30	
17	143.37	143.30	146.40	151.85	153.41	152.80	145.79	143.77	143.38	143.35	143.30	143.30	
18	143.36	143.29	147.70	152.00	153.33	152.88	145.58	143.76	143.38	143.34	143.30	143.30	
19	143.34	143.29	148.24	152.19	153.23	152.82	145.39	143.72	143.38	143.34	143.30	143.30	
20	143.34	143.29	148.48	152.31	153.15	152.66	145.23	143.70	143.37	143.33	143.30	143.30	
21	143.34	143.29	148.45	152.37	153.06	152.51	145.11	143.68	143.37	143.33	143.30	143.30	
22	143.33	143.30	148.18	152.39	153.00	152.43	145.01	143.66	143.37	143.33	143.30	143.30	
23	143.32	143.30	147.80	152.36	152.92	153.17	144.92	143.65	143.36	143.32	143.31	143.30	
24	143.37	143.30	147.62	152.31	152.83	153.19	144.82	143.63	143.36	143.32	143.31	143.30	
25	143.47	143.30	147.79	152.29	152.76	153.14	144.73	143.63	143.36	143.31	143.31	143.30	
26	143.48	143.30	148.13	152.32	152.71	153.10	144.68	143.61	143.35	143.31	143.31	143.30	
27	143.48	143.31	148.46	152.43	152.78	153.06	144.62	143.61	143.37	143.31	143.31	143.30	
28	143.48	143.31	148.53	152.57	152.81	152.98	144.53	143.61	143.40	143.31	143.31	143.30	
29	143.49	143.31	148.27	152.66	152.87	152.89	144.43	143.61	143.42	143.31		143.30	
30	143.53	143.32	147.95	152.77	152.97	152.85	144.35	143.61	143.42	143.31		143.35	
31		143.33		152.84	153.00		144.32		143.41	143.31		143.36	
Mean	143.43	143.35	145.59	150.99	153.19	153.03	147.75	143.88	143.44	143.36	143.31	143.31	
Max	143.55	143.62	148.53	152.84	153.63	153.40	152.74	144.33	143.61	143.41	143.31	143.36	153.63
Min	143.32	143.29	143.29	147.78	152.71	152.43	144.32	143.61	143.35	143.31	143.30	143.30	143.29

Annual Max Momentary Gage Height	153.63	m. (MSL.) ,	at 18.00 Hours , on Aug 11 , 2014		
Zero Gage at Bottom Elevation	143.00	m. (MSL.) ,	River Bed	143.01	m. (MSL.)
Left Bank Elevation	155.78	m. (MSL.) ,			
Right Bank Elevation	156.92	m. (MSL.) ,	Drainage Area	2852	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.68	1.04	0.24	40.12	158.30	167.80	147.80	3.80	1.24	0.44	0.22	0.20		
2	0.72	1.20	0.22	46.98	162.20	175.00	140.20	3.60	1.20	0.44	0.22	0.20		
3	0.84	1.28	0.20	49.08	171.00	183.00	135.40	3.44	1.16	0.44	0.22	0.20		
4	0.92	1.00	0.18	45.40	175.80	188.60	126.50	3.28	1.12	0.40	0.22	0.20		
5	1.00	0.48	0.18	38.32	182.20	194.60	117.00	3.08	1.04	0.40	0.22	0.20		
6	0.88	0.38	0.20	31.36	195.50	197.30	106.60	2.92	1.00	0.40	0.22	0.20		
7	0.76	0.34	0.22	34.24	204.00	200.00	97.40	3.60	0.92	0.38	0.22	0.20		
8	0.72	0.30	0.26	44.56	210.00	200.00	87.40	4.12	0.84	0.38	0.22	0.20		
9	0.60	0.28	0.34	51.88	215.00	196.40	78.80	3.92	0.80	0.38	0.22	0.20		
10	0.44	0.28	0.40	59.58	220.00	191.90	68.62	3.48	0.72	0.38	0.22	0.20		
11	0.40	0.26	0.40	66.16	222.40	185.40	60.28	3.04	0.64	0.40	0.20	0.20		
12	0.40	0.24	0.40	73.48	223.60	177.40	49.64	2.68	0.56	0.38	0.20	0.20		
13	0.44	0.24	0.68	77.60	221.20	168.60	37.24	2.48	0.52	0.36	0.20	0.22		
14	0.60	0.24	1.68	82.60	218.00	161.40	25.00	2.24	0.48	0.34	0.20	0.30		
15	0.38	0.22	2.44	88.60	215.00	152.00	17.20	2.12	0.40	0.32	0.20	0.26		
16	0.36	0.20	5.64	95.00	209.00	143.80	14.08	1.96	0.38	0.30	0.20	0.20		
17	0.34	0.20	17.20	101.00	201.00	152.00	12.32	1.88	0.36	0.30	0.20	0.20		
18	0.32	0.18	30.40	107.00	193.70	157.60	10.64	1.84	0.36	0.28	0.20	0.20		
19	0.28	0.18	36.88	116.50	185.40	153.40	9.34	1.68	0.36	0.28	0.20	0.20		
20	0.28	0.18	39.76	122.50	179.00	142.60	8.38	1.60	0.34	0.26	0.20	0.20		
21	0.28	0.18	39.40	125.50	171.80	133.60	7.66	1.52	0.34	0.26	0.20	0.20		
22	0.26	0.20	36.16	126.50	167.00	128.80	7.06	1.44	0.34	0.26	0.20	0.20		
23	0.24	0.20	31.60	125.00	160.60	180.60	6.65	1.40	0.32	0.24	0.22	0.20		
24	0.34	0.20	29.44	122.50	154.10	182.20	6.21	1.32	0.32	0.24	0.22	0.20		
25	0.68	0.20	31.48	121.50	149.20	178.20	5.81	1.32	0.32	0.22	0.22	0.20		
26	0.72	0.20	35.56	123.00	145.70	175.00	5.59	1.24	0.30	0.22	0.22	0.20		
27	0.72	0.22	39.52	128.80	150.60	171.80	5.33	1.24	0.34	0.22	0.22	0.20		
28	0.72	0.22	40.36	137.20	152.70	165.40	4.93	1.24	0.40	0.22	0.22	0.20		
29	0.76	0.22	37.24	142.60	156.90	158.30	4.52	1.24	0.48	0.22		0.20		
30	0.92	0.24	33.40	149.90	164.60	155.50	4.20	1.24	0.48	0.22		0.30		
31		0.26		154.80	167.00		4.08		0.44	0.22		0.32		
Total	17.00	11.06	492.08	2829.26	5702.50	5118.20	1411.88	69.96	18.52	9.80	5.92	6.60	15692.78	CMSDAY
Mean	0.57	0.36	16.40	91.27	183.95	170.61	45.54	2.33	0.60	0.32	0.21	0.21	42.99	CMS
Max	1.00	1.28	40.36	154.80	223.60	200.00	147.80	4.12	1.24	0.44	0.22	0.32	223.60	CMS
Min	0.24	0.18	0.18	31.36	145.70	128.80	4.08	1.24	0.30	0.22	0.20	0.20	0.18	CMS
Runoff	1.47	0.96	42.52	244.45	492.70	442.21	121.99	6.05	1.60	0.85	0.51	0.57	1355.86	MCM

Momentary Peak 223.60 CMS. at 153.63 m. (MSL.) at 18.00 Hours , on Aug 11 , 2014

Runoff Yield 15.08 Liters/Second/Square KM. Momentary Peak Yield 78.401 Liters/Second/Square KM.

WATER YEAR : 2014

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	+389.745 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank in the vicinity of gage observer's house.	**Elevation**	+397.867 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings.		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Flot	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Nam Waen reservoir about 4 - 5 kilometers above gage site. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

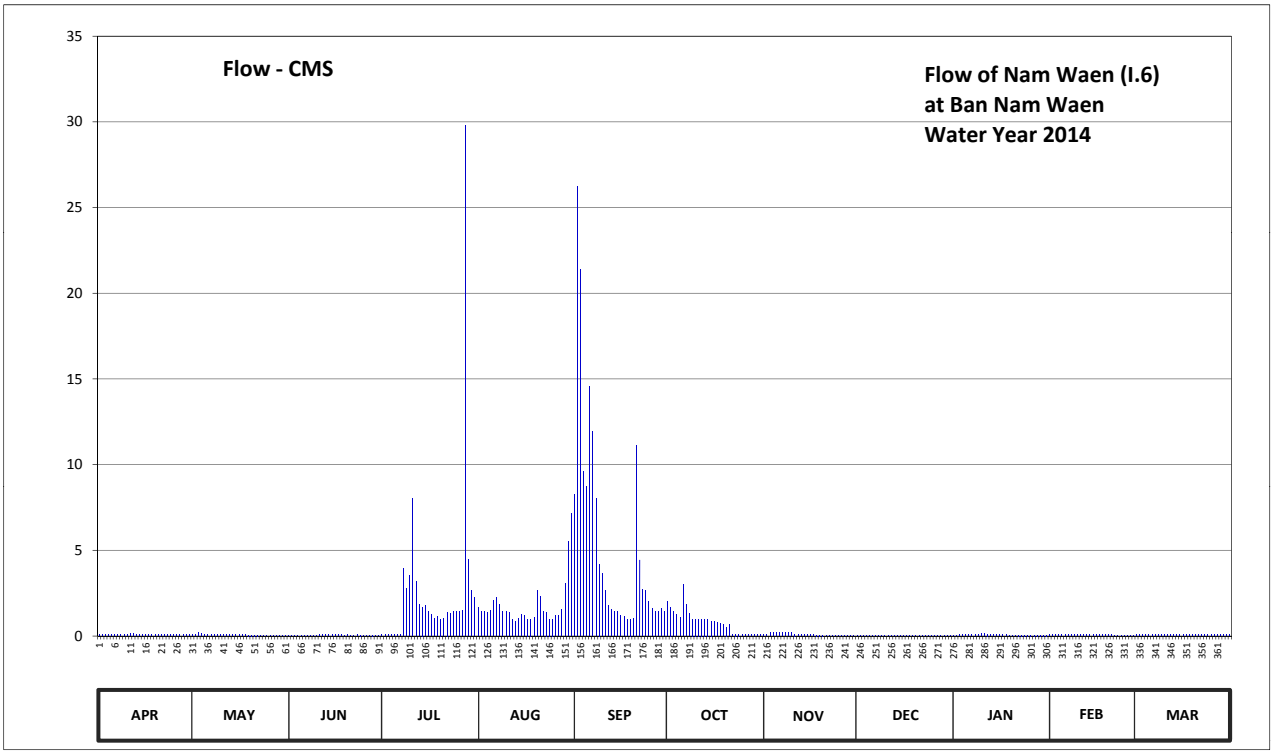
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	390.14	390.20	389.85	390.18	390.29	391.07	390.35	390.10	389.99	390.05	390.09	390.10	
2	390.15	390.22	389.87	390.15	390.25	392.25	390.30	390.11	389.97	390.05	390.10	390.10	
3	390.15	390.40	389.88	390.15	390.25	391.99	390.25	390.42	389.95	390.10	390.11	390.10	
4	390.16	390.29	389.88	390.13	390.23	391.19	390.21	390.39	389.95	390.10	390.15	390.10	
5	390.17	390.22	389.88	390.10	390.26	391.11	390.17	390.45	389.97	390.15	390.15	390.10	
6	390.18	390.20	389.95	390.10	390.36	391.57	390.50	390.42	390.03	390.15	390.15	390.10	
7	390.19	390.17	389.90	390.13	390.39	391.38	390.32	390.48	390.05	390.15	390.12	390.10	
8	390.20	390.15	389.90	390.62	390.32	391.05	390.22	390.45	390.05	390.15	390.12	390.10	
9	390.20	390.14	389.90	390.47	390.25	390.65	390.15	390.47	390.04	390.15	390.12	390.11	
10	390.21	390.13	389.90	390.57	390.25	390.58	390.15	390.46	390.03	390.30	390.11	390.11	
11	390.37	390.16	390.20	391.05	390.23	390.45	390.15	390.25	389.99	390.27	390.10	390.11	
12	390.35	390.15	390.19	390.52	390.14	390.31	390.15	390.23	389.99	390.25	390.10	390.10	
13	390.23	390.13	390.16	390.32	390.11	390.27	390.15	390.13	389.99	390.13	390.10	390.10	
14	390.21	390.19	390.20	390.30	390.16	390.25	390.15	390.15	389.99	390.10	390.10	390.10	
15	390.22	390.17	390.20	390.31	390.21	390.25	390.12	390.12	390.03	390.10	390.10	390.10	
16	390.23	390.15	390.22	390.25	390.20	390.20	390.11	390.10	390.05	390.10	390.10	390.10	
17	390.23	390.13	390.20	390.21	390.15	390.18	390.10	390.09	390.04	390.10	390.10	390.10	
18	390.22	390.09	390.10	390.16	390.15	390.14	390.07	390.08	390.05	390.09	390.12	390.11	
19	390.20	390.08	390.05	390.18	390.17	390.15	390.05	390.08	390.05	390.05	390.15	390.11	
20	390.20	390.07	390.10	390.15	390.45	390.16	390.01	390.06	390.05	390.05	390.15	390.12	
21	390.23	390.07	390.05	390.16	390.40	391.32	390.05	390.05	390.05	390.05	390.11	390.12	
22	390.22	390.06	390.05	390.24	390.25	390.68	390.16	390.05	390.05	390.07	390.05	390.12	
23	390.20	390.03	390.10	390.22	390.24	390.46	390.25	390.03	390.05	390.07	390.05	390.10	
24	390.20	390.03	390.08	390.25	390.15	390.45	390.24	390.03	390.05	390.07	390.05	390.12	
25	390.20	390.02	390.05	390.25	390.15	390.35	390.20	390.01	390.05	390.07	390.05	390.12	
26	390.21	390.04	390.05	390.25	390.20	390.28	390.16	390.00	390.05	390.08	390.05	390.15	
27	390.21	390.04	390.05	390.26	390.20	390.25	390.16	390.00	390.05	390.08	390.05	390.15	
28	390.20	390.05	390.06	392.43	390.27	390.25	390.11	389.99	390.05	390.08	390.05	390.13	
29	390.20	390.05	390.05	390.68	390.51	390.28	390.10	389.99	390.05	390.08		390.13	
30	390.20	390.05	390.05	390.45	390.80	390.25	390.10	389.98	390.05	390.08		390.12	
31		390.05		390.39	390.97		390.09		390.05	390.08		390.10	
Mean	390.21	390.13	390.04	390.38	390.29	390.66	390.17	390.17	390.03	390.11	390.10	390.11	
Max	390.37	390.40	390.22	392.43	390.97	392.25	390.50	390.48	390.05	390.30	390.15	390.15	392.43
Min	390.14	390.02	389.85	390.10	390.11	390.14	390.01	389.98	389.95	390.05	390.05	390.10	389.85

Annual Max Momentary Gage Height 392.94 m. (MSL.) , at 24.00 Hours , on Sep 2 , 2014

Zero Gage at Bottom Elevation 389.74 m. (MSL.) , River Bed 389.80 m. (MSL.)

Left Bank Elevation 398.52 m. (MSL.) ,

Right Bank Elevation 398.55 m. (MSL.) , Drainage Area 151 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.10	0.01	0.09	1.65	8.27	2.00	0.07	0.04	0.05	0.07	0.07		
2	0.08	0.11	0.01	0.08	1.45	26.25	1.70	0.07	0.03	0.05	0.07	0.07		
3	0.08	0.18	0.02	0.08	1.45	21.42	1.45	0.19	0.03	0.07	0.07	0.07		
4	0.09	0.14	0.02	0.08	1.35	9.59	1.25	0.18	0.03	0.07	0.08	0.07		
5	0.09	0.11	0.02	0.07	1.50	8.71	1.08	0.21	0.03	0.08	0.08	0.07		
6	0.09	0.10	0.03	0.07	2.06	14.58	3.00	0.19	0.05	0.08	0.08	0.07		
7	0.10	0.09	0.02	0.08	2.24	11.94	1.82	0.22	0.05	0.08	0.08	0.07		
8	0.10	0.08	0.02	3.96	1.82	8.05	1.30	0.21	0.05	0.08	0.08	0.07		
9	0.10	0.08	0.02	2.79	1.45	4.20	1.00	0.22	0.05	0.08	0.08	0.07		
10	0.10	0.08	0.02	3.56	1.45	3.64	1.00	0.21	0.05	0.14	0.07	0.07		
11	0.17	0.09	0.10	8.05	1.35	2.65	1.00	0.12	0.04	0.13	0.07	0.07		
12	0.16	0.08	0.10	3.16	0.96	1.76	1.00	0.11	0.04	0.12	0.07	0.07		
13	0.11	0.08	0.09	1.82	0.84	1.55	1.00	0.08	0.04	0.08	0.07	0.07		
14	0.10	0.10	0.10	1.70	1.04	1.45	1.00	0.08	0.04	0.07	0.07	0.07		
15	0.11	0.09	0.10	1.76	1.25	1.45	0.88	0.08	0.05	0.07	0.07	0.07		
16	0.11	0.08	0.11	1.45	1.20	1.20	0.84	0.07	0.05	0.07	0.07	0.07		
17	0.11	0.08	0.10	1.25	1.00	1.12	0.80	0.07	0.05	0.07	0.07	0.07		
18	0.11	0.07	0.07	1.04	1.00	0.96	0.71	0.06	0.05	0.07	0.08	0.07		
19	0.10	0.06	0.05	1.12	1.08	1.00	0.65	0.06	0.05	0.05	0.08	0.07		
20	0.10	0.06	0.07	1.00	2.65	1.04	0.53	0.06	0.05	0.05	0.08	0.08		
21	0.11	0.06	0.05	1.04	2.30	11.16	0.65	0.05	0.05	0.05	0.07	0.08		
22	0.11	0.06	0.05	1.40	1.45	4.44	0.09	0.05	0.05	0.06	0.05	0.08		
23	0.10	0.05	0.07	1.30	1.40	2.72	0.12	0.05	0.05	0.06	0.05	0.07		
24	0.10	0.05	0.06	1.45	1.00	2.65	0.12	0.05	0.05	0.06	0.05	0.08		
25	0.10	0.05	0.05	1.45	1.00	2.00	0.10	0.04	0.05	0.06	0.05	0.08		
26	0.10	0.05	0.05	1.45	1.20	1.60	0.09	0.04	0.05	0.06	0.05	0.08		
27	0.10	0.05	0.05	1.50	1.20	1.45	0.09	0.04	0.05	0.06	0.05	0.08		
28	0.10	0.05	0.06	29.80	1.55	1.45	0.07	0.04	0.05	0.06	0.05	0.08		
29	0.10	0.05	0.05	4.44	3.08	1.60	0.07	0.04	0.05	0.06		0.08		
30	0.10	0.05	0.05	2.65	5.50	1.45	0.07	0.04	0.05	0.06		0.08		
31		0.05		2.24	7.17		0.07		0.05	0.06		0.07		
Total	3.11	2.43	1.62	81.93	55.64	161.35	25.55	3.00	1.42	2.21	1.91	2.27	342.44	CMSDAY
Mean	0.10	0.08	0.05	2.64	1.79	5.38	0.82	0.10	0.05	0.07	0.07	0.07	0.94	CMS
Max	0.17	0.18	0.11	29.80	7.17	26.25	3.00	0.22	0.05	0.14	0.08	0.08	29.80	CMS
Min	0.08	0.05	0.01	0.07	0.84	0.96	0.07	0.04	0.03	0.05	0.05	0.07	0.01	CMS
Runoff	0.27	0.21	0.14	7.08	4.81	13.94	2.21	0.26	0.12	0.19	0.17	0.20	29.59	MCM

Momentary Peak 40.48 CMS. at 392.94 m. (MSL.) at 24.00 Hours , on Sep 2 , 2014

Runoff Yield 6.21 Liters/Second/Square KM. Momentary Peak Yield 268.079 Liters/Second/Square KM.

WATER YEAR : 2014

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

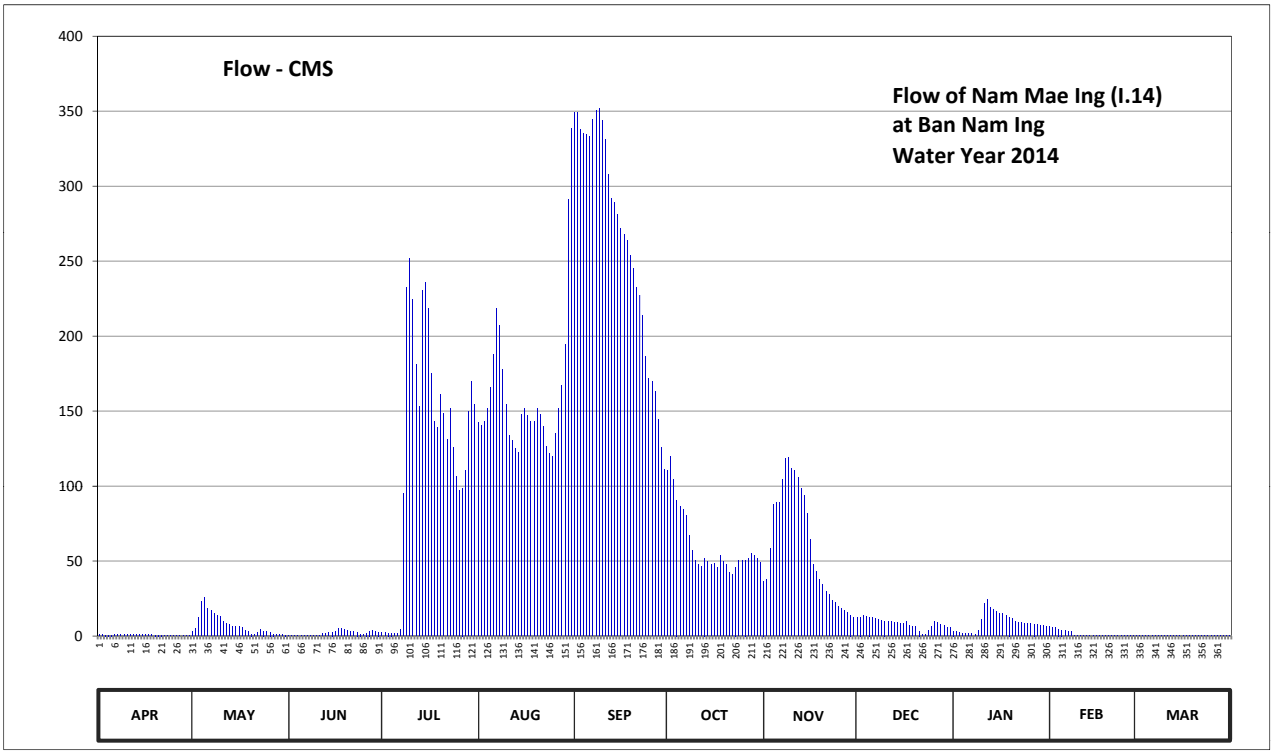
Location : on right bank at the bridge on the road about 2 kilometers from Amphoe Khun Tan.

	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	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 44 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.67	352.25	351.98	352.18	355.47	358.63	354.90	353.38	352.73	352.27	352.47	352.09	
2	352.64	352.38	351.93	352.16	355.44	358.63	355.08	353.40	352.75	352.23	352.45	351.98	
3	352.63	352.73	351.91	352.15	355.48	358.47	354.78	353.85	352.78	352.18	352.42	352.07	
4	352.58	353.05	351.81	352.15	355.63	358.43	354.51	354.45	352.76	352.14	352.37	352.08	
5	352.60	353.12	351.81	352.13	355.88	358.42	354.42	354.48	352.75	352.13	352.32	352.08	
6	352.65	352.93	351.88	352.13	356.23	358.40	354.38	354.48	352.74	352.12	352.29	352.07	
7	352.73	352.88	351.88	352.36	356.71	358.56	354.30	354.78	352.71	352.11	352.25	352.06	
8	352.77	352.83	351.86	354.60	356.53	358.65	354.04	355.06	352.68	352.03	352.24	352.06	
9	352.73	352.78	351.85	356.93	356.08	358.66	353.83	355.07	352.66	352.28	352.18	352.05	
10	352.72	352.76	351.84	357.22	355.68	358.55	353.68	354.93	352.65	352.68	352.48	352.05	
11	352.78	352.63	351.83	356.81	355.32	358.38	353.62	354.90	352.64	353.01	352.28	352.09	
12	352.77	352.59	352.13	356.13	355.27	358.05	353.60	354.82	352.63	353.08	352.26	352.04	
13	352.75	352.53	352.14	355.66	355.17	357.82	353.72	354.66	352.61	352.94	352.24	352.03	
14	352.73	352.48	352.18	356.90	355.13	357.78	353.67	354.57	352.60	352.91	352.22	352.03	
15	352.72	352.48	352.21	356.98	355.57	357.66	353.62	354.33	352.59	352.86	352.21	352.03	
16	352.68	352.47	352.23	356.71	355.63	357.52	353.64	353.98	352.58	352.83	352.19	352.05	
17	352.67	352.42	352.38	356.03	355.55	357.46	353.58	353.63	352.64	352.82	352.17	352.05	
18	352.64	352.28	352.38	355.48	355.48	357.40	353.75	353.52	352.51	352.79	352.15	352.05	
19	352.63	352.23	352.33	355.41	355.48	357.25	353.67	353.41	352.48	352.75	352.13	352.06	
20	352.61	352.08	352.28	355.80	355.63	357.12	353.63	353.33	352.46	352.71	352.12	352.06	
21	352.60	352.07	352.26	355.58	355.56	356.93	353.51	353.22	352.27	352.63	352.11	352.06	
22	352.57	352.18	352.25	355.28	355.43	356.85	353.48	353.17	352.04	352.61	352.13	352.06	
23	352.47	352.33	352.21	355.64	355.20	356.64	353.59	353.07	352.06	352.60	352.13	352.06	
24	352.41	352.27	352.08	355.18	355.11	356.21	353.68	353.03	352.28	352.59	352.12	352.10	
25	352.37	352.23	352.07	354.83	355.08	355.98	353.68	352.97	352.48	352.58	352.12	352.19	
26	352.35	352.21	352.15	354.64	355.35	355.94	353.69	352.92	352.63	352.57	352.11	352.23	
27	352.34	352.08	352.27	354.67	355.63	355.83	353.71	352.88	352.60	352.56	352.11	352.25	
28	352.30	352.03	352.28	354.90	355.90	355.51	353.78	352.84	352.55	352.54	352.11	352.28	
29	352.27	352.02	352.25	355.60	356.34	355.18	353.75	352.80	352.51	352.52		352.23	
30	352.28	352.01	352.21	355.95	357.81	354.92	353.71	352.74	352.43	352.50		352.20	
31		352.00		355.68	358.48		353.66		352.43	352.48		352.17	
Mean	352.59	352.43	352.10	354.96	355.78	357.39	353.89	353.82	352.56	352.55	352.23	352.09	
Max	352.78	353.12	352.38	357.22	358.48	358.66	355.08	355.07	352.78	353.08	352.48	352.28	358.66
Min	352.27	352.00	351.81	352.13	355.08	354.92	353.48	352.74	352.04	352.03	352.11	351.98	351.81

Annual Max Momentary Gage Height	358.68	m. (MSL.) ,	at 06.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	351.43	m. (MSL.) ,	River Bed	351.18	m. (MSL.)
Left Bank Elevation	362.05	m. (MSL.) ,			
Right Bank Elevation	362.05	m. (MSL.) ,	Drainage Area	6266	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.84	3.10	0.62	2.30	142.37	349.36	110.20	36.66	12.14	3.34	6.29	0.13		
2	0.78	4.82	0.42	2.10	140.63	349.36	119.82	37.50	12.70	2.86	5.95	0.07		
3	0.76	12.14	0.34	2.00	142.94	337.84	104.20	58.15	13.54	2.30	5.44	0.12		
4	0.67	22.97	0.03	2.00	151.61	334.96	90.70	87.70	12.98	1.90	4.68	0.13		
5	0.70	25.78	0.03	1.80	166.06	334.24	86.20	89.20	12.70	1.80	3.98	0.13		
6	0.80	18.58	0.24	1.80	187.72	332.80	84.20	89.20	12.42	1.70	3.58	0.12		
7	0.96	16.86	0.24	4.54	218.44	344.32	80.20	104.20	11.58	1.60	3.10	0.12		
8	1.04	15.13	0.18	95.20	206.92	350.80	67.20	118.67	10.80	0.94	2.98	0.12		
9	0.96	13.54	0.15	232.52	178.12	351.52	57.21	119.25	10.30	3.46	0.19	0.11		
10	0.94	12.98	0.12	251.74	154.50	343.60	50.22	111.70	10.05	10.80	0.52	0.11		
11	1.06	9.55	0.09	224.84	133.70	331.36	47.43	110.20	9.80	21.40	0.28	0.13		
12	1.04	8.60	1.80	181.32	130.81	307.60	46.50	106.20	9.55	24.16	0.26	0.10		
13	1.00	7.40	1.90	153.35	125.03	291.94	52.08	98.20	9.05	18.93	0.24	0.10		
14	0.96	6.46	2.30	230.60	122.71	289.26	49.76	93.70	8.80	17.90	0.22	0.10		
15	0.94	6.46	2.62	235.72	148.15	281.22	47.43	81.70	8.60	16.17	0.21	0.10		
16	0.86	6.29	2.86	218.44	151.61	271.84	48.36	64.26	8.40	15.13	0.19	0.11		
17	0.84	5.44	4.82	174.92	146.99	267.82	45.60	47.90	9.80	14.79	0.18	0.11		
18	0.78	3.46	4.82	142.94	142.94	263.80	53.48	42.90	7.00	13.82	0.17	0.11		
19	0.76	2.86	4.12	138.90	142.94	253.75	49.76	37.95	6.46	12.70	0.16	0.12		
20	0.72	1.34	3.46	161.44	151.61	245.04	47.90	34.56	6.12	11.58	0.15	0.12		
21	0.70	1.26	3.22	148.72	147.57	232.52	42.45	29.94	3.34	9.55	0.15	0.12		
22	0.66	2.30	3.10	131.38	140.05	227.40	41.10	27.86	1.02	9.05	0.16	0.12		
23	0.51	4.12	2.62	152.19	126.76	213.96	46.05	23.77	1.18	8.80	0.16	0.12		
24	0.42	3.34	1.34	125.60	121.56	186.44	50.22	22.18	3.46	8.60	0.15	0.14		
25	0.37	2.86	1.26	106.70	119.82	171.84	50.22	19.97	6.46	8.40	0.15	0.19		
26	0.35	2.62	2.00	97.20	135.43	169.53	50.69	18.24	9.55	8.20	0.15	0.23		
27	0.34	1.34	3.34	98.70	151.61	163.17	51.61	16.86	8.80	8.00	0.15	0.25		
28	0.30	0.94	3.46	110.20	167.22	144.68	54.87	15.48	7.80	7.60	0.15	0.28		
29	0.27	0.86	3.10	149.88	194.76	125.60	53.48	14.10	7.00	7.20		0.23		
30	0.28	0.78	2.62	170.11	291.27	111.20	51.61	12.42	5.61	6.80		0.20		
31		0.70		154.50	338.56		49.29		5.61	6.46		0.18		
Total	21.61	224.88	57.22	3903.65	5020.41	7978.77	1880.04	1770.62	262.62	285.94	39.99	4.32	21450.07	CMSDAY
Mean	0.72	7.25	1.91	125.92	161.95	265.96	60.65	59.02	8.47	9.22	1.43	0.14	58.77	CMS
Max	1.06	25.78	4.82	251.74	338.56	351.52	119.82	119.25	13.54	24.16	6.29	0.28	351.52	CMS
Min	0.27	0.70	0.03	1.80	119.82	111.20	41.10	12.42	1.02	0.94	0.15	0.07	0.03	CMS
Runoff	1.87	19.43	4.94	337.28	433.76	689.37	162.44	152.98	22.69	24.71	3.46	0.37	1853.29	MCM

Momentary Peak 352.96 CMS. at 358.68 m. (MSL.) at 06.00 Hours , on Sep 2 , 2014

Runoff Yield 9.38 Liters/Second/Square KM. Momentary Peak Yield 56.329 Liters/Second/Square KM.

WATER YEAR : 2014

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

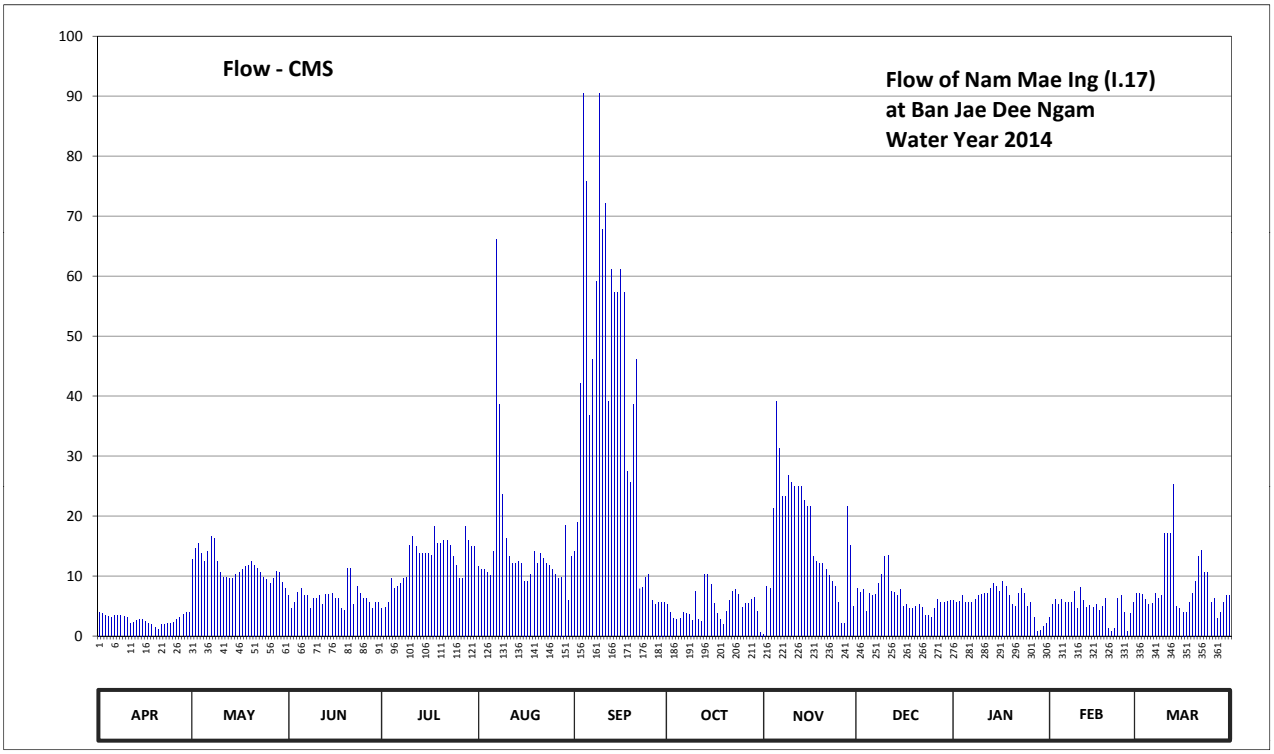
Location : on left bank at Ban Jae Dee Ngam.

	Ban Jae Dee Ngam	**Amphoe** Mueang	**Changwat** Phayao
Drainge Area	1,167 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+386.266 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.		**Elevation** +390.690 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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.95	387.37	387.11	386.99	387.33	388.07	387.68	387.14	387.17	387.07	386.89	387.13	
2	386.93	387.44	386.99	387.00	387.31	388.21	387.60	387.19	387.14	387.05	387.03	387.13	
3	386.91	387.47	387.05	387.05	387.31	388.67	387.51	387.17	387.16	387.06	387.08	387.12	
4	386.90	387.41	387.14	387.25	387.29	389.15	387.50	387.66	386.96	387.11	387.03	387.08	
5	386.89	387.36	387.17	387.17	387.27	389.04	387.51	388.13	387.13	387.05	387.08	387.03	
6	386.91	387.42	387.11	387.19	387.42	388.58	387.59	387.94	387.11	387.05	387.05	387.04	
7	386.91	387.51	387.11	387.21	388.66	388.73	387.58	387.72	387.12	387.05	387.05	387.13	
8	386.91	387.50	386.99	387.25	388.12	388.89	387.57	387.72	387.21	387.08	387.05	387.09	
9	386.90	387.36	387.09	387.26	387.73	389.15	387.49	387.82	387.28	387.11	387.15	387.11	
10	386.89	387.29	387.09	387.46	387.50	388.97	387.81	387.79	387.39	387.12	386.99	387.53	
11	386.78	387.26	387.11	387.51	387.39	389.01	387.50	387.77	387.40	387.13	387.18	387.53	
12	386.81	387.26	387.03	387.45	387.35	388.62	387.47	387.77	387.15	387.13	387.07	387.53	
13	386.84	387.25	387.12	387.41	387.35	388.91	387.93	387.77	387.14	387.17	387.00	387.78	
14	386.85	387.25	387.12	387.41	387.36	388.87	387.93	387.70	387.11	387.21	387.02	387.01	
15	386.86	387.28	387.13	387.41	387.35	388.87	387.86	387.67	387.16	387.19	387.00	386.99	
16	386.82	387.29	387.09	387.41	387.23	388.91	387.70	387.67	387.01	387.15	387.03	386.95	
17	386.79	387.31	387.09	387.40	387.23	388.87	387.58	387.39	387.03	387.23	386.97	386.95	
18	386.76	387.33	386.99	387.57	387.28	388.41	387.50	387.36	386.99	387.19	387.01	387.05	
19	386.69	387.34	386.97	387.47	387.42	388.37	387.41	387.35	386.99	387.11	387.09	387.13	
20	386.62	387.36	387.32	387.47	387.35	388.61	387.61	387.35	387.01	387.03	386.66	387.23	
21	386.75	387.34	387.32	387.49	387.41	388.73	387.72	387.31	387.03	387.01	386.47	387.39	
22	386.76	387.32	387.03	387.49	387.38	387.83	387.81	387.27	387.00	387.13	386.65	387.43	
23	386.79	387.29	387.19	387.46	387.35	387.84	387.82	387.23	386.91	387.17	387.09	387.29	
24	386.79	387.26	387.13	387.39	387.34	387.91	387.78	387.19	386.91	387.13	387.11	387.29	
25	386.81	387.24	387.09	387.34	387.31	387.93	387.65	387.05	386.88	387.01	386.95	387.05	
26	386.85	387.21	387.09	387.25	387.28	387.72	387.69	386.78	386.99	387.05	386.51	387.09	
27	386.89	387.25	387.05	387.25	387.25	387.68	387.70	386.77	387.08	386.89	386.93	386.87	
28	386.92	387.30	386.99	387.57	387.26	387.71	387.73	387.67	387.05	386.51	387.05	386.95	
29	386.95	387.29	387.05	387.49	388.20	387.71	387.75	387.46	387.05	386.59		387.05	
30	386.95	387.22	387.05	387.45	387.72	387.71	387.61	387.01	387.06	386.72		387.11	
31		387.17		387.45	388.04		387.23		387.07	386.77		387.11	
Mean	386.85	387.32	387.09	387.35	387.48	388.46	387.64	387.46	387.09	387.04	386.97	387.17	
Max	386.95	387.51	387.32	387.57	388.66	389.15	387.93	388.13	387.40	387.23	387.18	387.78	389.15
Min	386.62	387.17	386.97	386.99	387.23	387.68	387.23	386.77	386.88	386.51	386.47	386.87	386.47

Annual Max Momentary Gage Height	389.21	m. (MSL.) ,	at 06.00 Hours , on Sep 5, 2014		
Zero Gage at Bottom Elevation	386.27	m. (MSL.) ,	River Bed	384.52	m. (MSL.)
Left Bank Elevation	390.57	m. (MSL.) ,			
Right Bank Elevation	390.57	m. (MSL.) ,	Drainage Area	1167	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	12.68	6.70	4.60	11.57	14.10	5.20	0.35	7.90	5.98	3.15	7.10		
2	3.70	14.60	4.60	4.75	11.03	18.90	4.00	8.30	7.30	5.62	5.27	7.10		
3	3.40	15.43	5.62	5.62	11.03	42.20	2.88	7.90	7.70	5.80	6.15	6.90		
4	3.25	13.78	7.30	9.63	10.53	90.50	2.75	21.28	4.15	6.70	5.27	6.15		
5	3.15	12.40	7.90	7.90	10.07	75.80	2.88	39.10	7.10	5.62	6.15	5.27		
6	3.40	14.05	6.70	8.30	14.05	36.80	3.87	31.35	6.70	5.62	5.62	5.45		
7	3.40	16.55	6.70	8.72	66.05	46.10	3.75	23.30	6.90	5.62	5.62	7.10		
8	3.40	16.25	4.60	9.63	38.65	59.10	3.63	23.30	8.72	6.15	5.62	6.32		
9	3.25	12.40	6.32	9.85	23.64	90.50	2.65	26.75	10.30	6.70	7.50	6.70		
10	3.15	10.53	6.32	15.15	16.25	67.70	7.48	25.66	13.23	6.90	4.60	17.15		
11	2.10	9.85	6.70	16.55	13.23	72.20	2.75	24.99	13.50	7.10	8.10	17.15		
12	2.35	9.85	5.27	14.88	12.13	39.20	2.45	24.99	7.50	7.10	5.98	17.15		
13	2.65	9.63	6.90	13.78	12.13	61.10	10.25	24.99	7.30	7.90	4.75	25.33		
14	2.75	9.63	6.90	13.78	12.40	57.30	10.25	22.63	6.70	8.72	5.10	4.93		
15	2.85	10.30	7.10	13.78	12.13	57.30	8.60	21.61	7.70	8.30	4.75	4.60		
16	2.45	10.53	6.32	13.78	9.18	61.10	5.50	21.61	4.93	7.50	5.27	4.00		
17	2.18	11.03	6.32	13.50	9.18	57.30	3.75	13.23	5.27	9.18	4.30	4.00		
18	1.95	11.57	4.60	18.35	10.30	27.50	2.75	12.40	4.60	8.30	4.93	5.62		
19	1.45	11.85	4.30	15.43	14.05	25.65	1.85	12.13	4.60	6.70	6.32	7.10		
20	1.10	12.40	11.30	15.43	12.13	38.60	4.15	12.13	4.93	5.27	1.30	9.18		
21	1.88	11.85	11.30	15.97	13.78	46.10	5.85	11.03	5.27	4.93	0.68	13.23		
22	1.95	11.30	5.27	15.97	12.95	7.92	7.48	10.07	4.75	7.10	1.25	14.32		
23	2.18	10.53	8.30	15.15	12.13	8.15	7.70	9.18	3.40	7.90	6.32	10.53		
24	2.18	9.85	7.10	13.23	11.85	9.75	6.90	8.30	3.40	7.10	6.70	10.53		
25	2.35	9.40	6.32	11.85	11.03	10.25	4.75	5.62	3.05	4.93	4.00	5.62		
26	2.75	8.72	6.32	9.63	10.30	5.85	5.35	2.10	4.60	5.62	0.78	6.32		
27	3.15	9.63	5.62	9.63	9.63	5.20	5.50	2.02	6.15	3.15	3.70	2.95		
28	3.55	10.75	4.60	18.35	9.85	5.67	6.03	21.61	5.62	0.78	5.62	4.00		
29	4.00	10.53	5.62	15.97	18.50	5.67	6.38	15.15	5.62	0.97		5.62		
30	4.00	8.95	5.62	14.88	5.85	5.67	4.15	4.93	5.80	1.65		6.70		
31		7.90		14.88	13.20		0.65		5.98	2.02		6.70		
Total	83.92	354.72	194.54	388.92	458.80	1149.18	152.13	488.01	200.67	182.93	134.80	260.82	4049.44	CMSDAY
Mean	2.80	11.44	6.48	12.55	14.80	38.31	4.91	16.27	6.47	5.90	4.81	8.41	11.09	CMS
Max	4.00	16.55	11.30	18.35	66.05	90.50	10.25	39.10	13.50	9.18	8.10	25.33	90.50	CMS
Min	1.10	7.90	4.30	4.60	5.85	5.20	0.65	0.35	3.05	0.78	0.68	2.95	0.35	CMS
Runoff	7.25	30.65	16.81	33.60	39.64	99.29	13.14	42.16	17.34	15.81	11.65	22.54	349.87	MCM

Momentary Peak 99.70 CMS. at 389.21 m. (MSL.) at 06.00 Hours , on Sep 5 , 2014

Runoff Yield 9.51 Liters/Second/Square KM. Momentary Peak Yield 85.433 Liters/Second/Square KM.

WATER YEAR : 2014

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

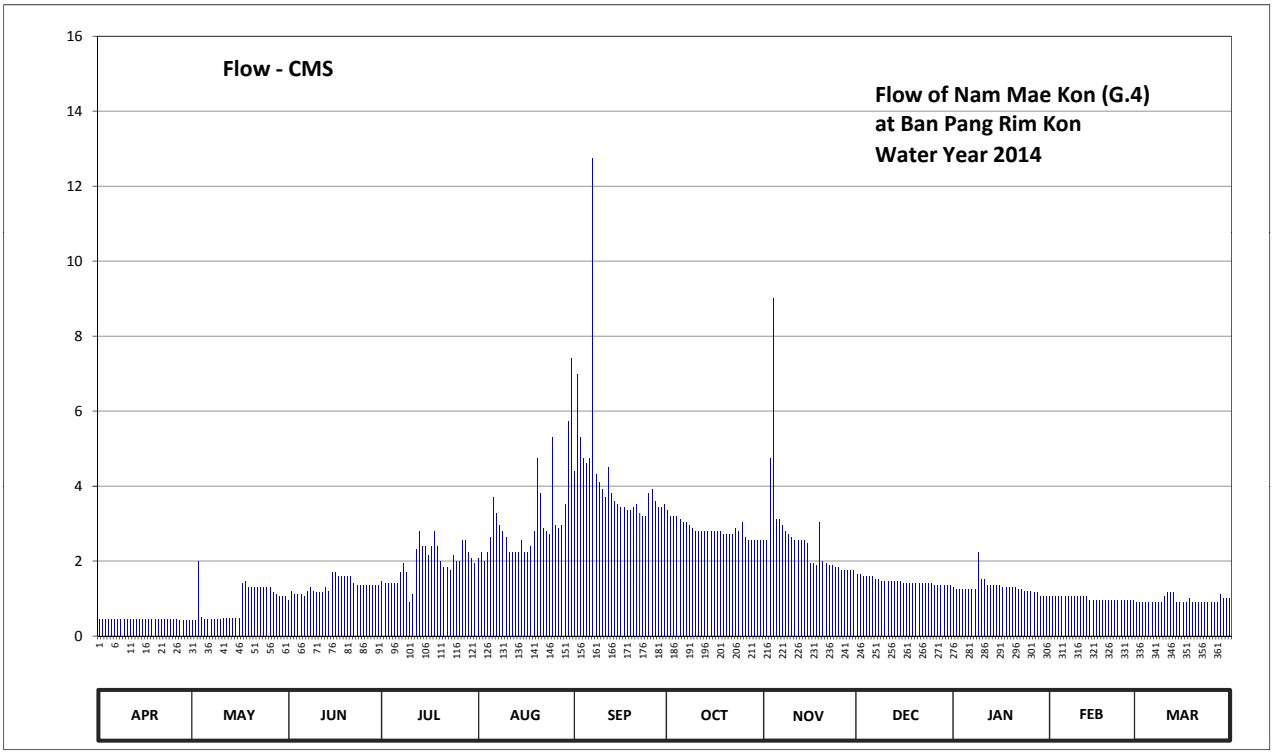
Location : on left bank at Ban Pang Rim Kon.

	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	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.58	462.57	462.71	462.81	462.91	463.18	463.07	462.97	462.84	462.78	462.73	462.70	
2	462.58	462.57	462.76	462.80	462.93	463.37	463.05	462.97	462.84	462.77	462.73	462.70	
3	462.58	462.90	462.74	462.80	462.90	463.25	463.05	463.21	462.83	462.77	462.73	462.70	
4	462.58	462.60	462.74	462.80	462.93	463.21	463.05	463.50	462.83	462.77	462.73	462.70	
5	462.58	462.58	462.74	462.80	462.98	463.20	463.04	463.04	462.83	462.77	462.73	462.70	
6	462.58	462.58	462.73	462.80	463.11	463.21	463.03	463.04	462.83	462.77	462.73	462.70	
7	462.58	462.58	462.76	462.85	463.06	463.67	463.03	463.02	462.82	462.77	462.73	462.70	
8	462.58	462.58	462.78	462.89	463.02	463.17	463.02	463.00	462.82	462.77	462.73	462.70	
9	462.58	462.58	462.76	462.85	463.00	463.15	463.01	462.99	462.81	462.93	462.73	462.70	
10	462.58	462.58	462.75	462.70	462.98	463.13	463.00	462.98	462.81	462.82	462.73	462.73	
11	462.58	462.59	462.75	462.74	462.93	463.11	463.00	462.97	462.81	462.82	462.73	462.75	
12	462.58	462.59	462.75	462.94	462.93	463.19	463.00	462.97	462.81	462.79	462.73	462.75	
13	462.58	462.59	462.78	463.00	462.93	463.12	463.00	462.97	462.81	462.79	462.73	462.75	
14	462.58	462.59	462.76	462.95	462.93	463.10	463.00	462.97	462.81	462.79	462.71	462.70	
15	462.58	462.59	462.85	462.95	462.97	463.09	463.00	462.96	462.81	462.79	462.71	462.70	
16	462.58	462.59	462.85	462.92	462.93	463.08	463.00	462.89	462.80	462.79	462.71	462.70	
17	462.58	462.80	462.83	462.95	462.93	463.08	463.00	462.89	462.80	462.78	462.71	462.70	
18	462.58	462.81	462.83	463.00	462.95	463.07	463.00	462.88	462.80	462.78	462.71	462.72	
19	462.58	462.78	462.83	462.95	463.00	463.07	462.99	463.03	462.80	462.78	462.71	462.70	
20	462.58	462.78	462.83	462.90	463.21	463.08	462.99	462.90	462.80	462.78	462.71	462.70	
21	462.58	462.78	462.83	462.87	463.12	463.09	462.99	462.89	462.80	462.78	462.71	462.70	
22	462.58	462.78	462.80	462.87	463.01	463.06	462.99	462.88	462.80	462.77	462.71	462.70	
23	462.58	462.78	462.79	462.86	463.00	463.05	463.01	462.88	462.80	462.77	462.71	462.70	
24	462.58	462.78	462.79	462.92	462.99	463.05	463.00	462.87	462.80	462.76	462.71	462.70	
25	462.58	462.78	462.79	462.90	463.25	463.12	463.03	462.87	462.80	462.76	462.71	462.70	
26	462.58	462.78	462.79	462.90	463.02	463.13	462.98	462.86	462.79	462.76	462.71	462.70	
27	462.57	462.75	462.79	462.97	463.01	463.10	462.97	462.86	462.79	462.75	462.71	462.70	
28	462.57	462.74	462.79	462.97	463.02	463.08	462.97	462.86	462.79	462.75	462.71	462.74	
29	462.57	462.73	462.79	462.93	463.09	463.08	462.97	462.86	462.79	462.73		462.72	
30	462.57	462.73	462.79	462.91	463.28	463.09	462.97	462.86	462.79	462.73		462.72	
31		462.73		462.89	463.40		462.97		462.79	462.73		462.72	
Mean	462.58	462.68	462.78	462.88	463.02	463.15	463.01	462.96	462.81	462.78	462.72	462.71	
Max	462.58	462.90	462.85	463.00	463.40	463.67	463.07	463.50	462.84	462.93	462.73	462.75	463.67
Min	462.57	462.57	462.71	462.70	462.90	463.05	462.97	462.86	462.79	462.73	462.71	462.70	462.57

Annual Max Momentary Gage Height	463.85	m. (MSL.) ,	at 06.00 Hours , on Sep 7 , 2014		
Zero Gage at Bottom Elevation	461.70	m. (MSL.) ,	River Bed	462.18	m. (MSL.)
Left Bank Elevation	465.77	m. (MSL.) ,			
Right Bank Elevation	465.77	m. (MSL.) ,	Drainage Area	49	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.44	0.41	0.95	1.46	2.08	4.40	3.36	2.56	1.64	1.30	1.05	0.90		
2	0.44	0.41	1.20	1.40	2.24	6.98	3.20	2.56	1.64	1.25	1.05	0.90		
3	0.44	2.00	1.10	1.40	2.00	5.30	3.20	4.74	1.58	1.25	1.05	0.90		
4	0.44	0.50	1.10	1.40	2.24	4.74	3.20	9.00	1.58	1.25	1.05	0.90		
5	0.44	0.44	1.10	1.40	2.64	4.60	3.12	3.12	1.58	1.25	1.05	0.90		
6	0.44	0.44	1.05	1.40	3.70	4.74	3.04	3.12	1.58	1.25	1.05	0.90		
7	0.44	0.44	1.20	1.70	3.28	12.75	3.04	2.96	1.52	1.25	1.05	0.90		
8	0.44	0.44	1.30	1.94	2.96	4.30	2.96	2.80	1.52	1.25	1.05	0.90		
9	0.44	0.44	1.20	1.70	2.80	4.10	2.88	2.72	1.46	2.24	1.05	0.90		
10	0.44	0.44	1.15	0.90	2.64	3.90	2.80	2.64	1.46	1.52	1.05	1.05		
11	0.44	0.47	1.15	1.10	2.24	3.70	2.80	2.56	1.46	1.52	1.05	1.15		
12	0.44	0.47	1.15	2.32	2.24	4.50	2.80	2.56	1.46	1.35	1.05	1.15		
13	0.44	0.47	1.30	2.80	2.24	3.80	2.80	2.56	1.46	1.35	1.05	1.15		
14	0.44	0.47	1.20	2.40	2.24	3.60	2.80	2.56	1.46	1.35	0.95	0.90		
15	0.44	0.47	1.70	2.40	2.56	3.52	2.80	2.48	1.46	1.35	0.95	0.90		
16	0.44	0.47	1.70	2.16	2.24	3.44	2.80	1.94	1.40	1.35	0.95	0.90		
17	0.44	1.40	1.58	2.40	2.24	3.44	2.80	1.94	1.40	1.30	0.95	0.90		
18	0.44	1.46	1.58	2.80	2.40	3.36	2.80	1.88	1.40	1.30	0.95	1.00		
19	0.44	1.30	1.58	2.40	2.80	3.36	2.72	3.04	1.40	1.30	0.95	0.90		
20	0.44	1.30	1.58	2.00	4.74	3.44	2.72	2.00	1.40	1.30	0.95	0.90		
21	0.44	1.30	1.58	1.82	3.80	3.52	2.72	1.94	1.40	1.30	0.95	0.90		
22	0.44	1.30	1.40	1.82	2.88	3.28	2.72	1.88	1.40	1.25	0.95	0.90		
23	0.44	1.30	1.35	1.76	2.80	3.20	2.88	1.88	1.40	1.25	0.95	0.90		
24	0.44	1.30	1.35	2.16	2.72	3.20	2.80	1.82	1.40	1.20	0.95	0.90		
25	0.44	1.30	1.35	2.00	5.30	3.80	3.04	1.82	1.40	1.20	0.95	0.90		
26	0.44	1.30	1.35	2.00	2.96	3.90	2.64	1.76	1.35	1.20	0.95	0.90		
27	0.41	1.15	1.35	2.56	2.88	3.60	2.56	1.76	1.35	1.15	0.95	0.90		
28	0.41	1.10	1.35	2.56	2.96	3.44	2.56	1.76	1.35	1.15	0.95	1.10		
29	0.41	1.05	1.35	2.24	3.52	3.44	2.56	1.76	1.35	1.05		1.00		
30	0.41	1.05	1.35	2.08	5.72	3.52	2.56	1.76	1.35	1.05		1.00		
31		1.05		1.94	7.40		2.56		1.35	1.05		1.00		
Total	13.08	27.44	39.65	60.42	95.46	126.87	88.24	77.88	44.96	40.13	27.90	29.40	671.43	CMSDAY
Mean	0.44	0.89	1.32	1.95	3.08	4.23	2.85	2.60	1.45	1.29	1.00	0.95	1.84	CMS
Max	0.44	2.00	1.70	2.80	7.40	12.75	3.36	9.00	1.64	2.24	1.05	1.15	12.75	CMS
Min	0.41	0.41	0.95	0.90	2.00	3.20	2.56	1.76	1.35	1.05	0.95	0.90	0.41	CMS
Runoff	1.13	2.37	3.43	5.22	8.25	10.96	7.62	6.73	3.89	3.47	2.41	2.54	58.01	MCM

Momentary Peak 17.50 CMS. at 463.85 m. (MSL.) at 06.00 Hours , on Sep 7 , 2014

Runoff Yield 37.54 Liters/Second/Square KM. Momentary Peak Yield 357.143 Liters/Second/Square KM.

WATER YEAR : 2014

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

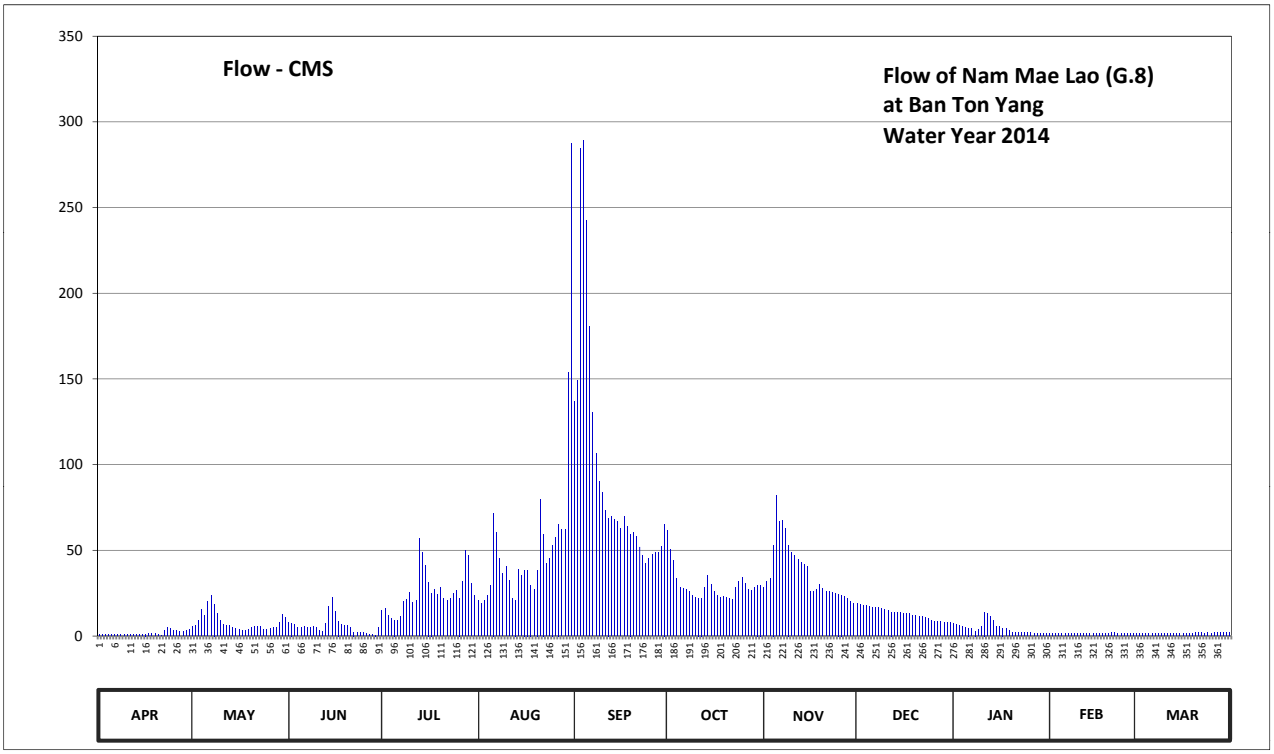
Location : on left bank at the bridge of Chiang Rai - Phayao Highway, Tambon Bua Sali.

	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 Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Mae Lao weir situated about 10 kilometers above gage site.		
	Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	404.89	404.89	404.99	405.19	405.34	407.02	406.14	405.52	405.62	405.30	404.99	404.96	
2	404.89	404.91	404.97	405.22	405.30	407.13	405.96	405.61	405.61	405.27	404.99	404.95	
3	404.89	405.02	404.94	405.11	405.34	408.13	405.85	405.64	405.60	405.25	404.98	404.95	
4	404.90	405.21	404.86	405.06	405.41	408.16	405.64	406.01	405.59	405.22	404.98	404.95	
5	404.89	405.11	404.87	405.03	405.55	407.85	405.53	406.43	405.58	405.19	404.97	404.95	
6	404.89	405.33	404.90	405.02	406.29	407.39	405.51	406.22	405.57	405.18	404.96	404.99	
7	404.89	405.41	404.88	405.10	406.12	406.96	405.50	406.23	405.56	405.16	404.96	404.99	
8	404.89	405.29	404.87	405.33	405.87	406.72	405.47	406.16	405.56	405.10	404.96	405.01	
9	404.89	405.15	404.89	405.36	405.70	406.53	405.41	406.01	405.55	405.13	404.96	405.01	
10	404.89	405.02	404.88	405.46	405.78	406.45	405.39	405.93	405.54	405.23	404.96	405.01	
11	404.89	404.94	404.81	405.31	405.62	406.31	405.38	405.90	405.52	405.50	404.98	405.00	
12	404.90	404.92	404.78	405.34	405.37	406.25	405.38	405.86	405.50	405.47	404.98	404.99	
13	404.90	404.91	404.95	406.07	405.35	406.26	405.53	405.83	405.49	405.43	404.98	404.99	
14	404.90	404.88	405.26	405.93	405.75	406.24	405.68	405.80	405.49	405.35	404.98	404.98	
15	404.92	404.84	405.39	405.79	405.68	406.22	405.57	405.78	405.49	405.23	404.98	404.97	
16	404.93	404.82	405.17	405.60	405.74	406.16	405.47	405.76	405.48	405.22	404.98	404.97	
17	404.95	404.81	405.01	405.45	405.74	406.26	405.42	405.76	405.48	405.18	404.98	404.96	
18	404.95	404.81	404.94	405.50	405.56	406.18	405.39	405.78	405.47	405.17	404.98	404.96	
19	404.95	404.82	404.91	405.43	405.50	406.11	405.40	405.83	405.45	405.12	404.98	405.01	
20	404.91	404.86	404.91	405.52	405.74	406.12	405.39	405.79	405.44	405.04	404.99	405.03	
21	404.78	404.90	404.86	405.37	406.40	406.09	405.37	405.76	405.43	405.02	405.02	405.03	
22	404.81	404.90	404.75	405.34	406.11	405.99	405.36	405.76	405.42	405.02	405.02	405.03	
23	404.87	404.89	404.73	405.37	405.82	405.90	405.52	405.75	405.41	405.02	404.99	405.00	
24	404.85	404.83	404.73	405.44	405.87	405.81	405.61	405.74	405.39	405.02	404.98	405.02	
25	404.81	404.83	404.72	405.48	406.01	405.87	405.65	405.73	405.35	405.02	404.98	405.01	
26	404.81	404.85	404.70	405.38	406.08	405.91	405.58	405.72	405.34	405.02	404.97	405.04	
27	404.77	404.86	404.67	405.61	406.20	405.93	405.50	405.70	405.33	405.00	404.96	405.04	
28	404.77	404.87	404.65	405.95	406.15	405.93	405.48	405.68	405.33	404.98	404.96	405.04	
29	404.80	404.99	404.64	405.90	406.15	406.00	405.52	405.64	405.32	404.97		405.03	
30	404.83	405.13	404.87	405.58	407.17	406.20	405.56	405.62	405.32	404.97		405.03	
31		405.07		405.42	408.15		405.56		405.31	404.97		405.03	
Mean	404.87	404.97	404.88	405.44	405.90	406.47	405.54	405.83	405.47	405.15	404.98	405.00	
Max	404.95	405.41	405.39	406.07	408.15	408.16	406.14	406.43	405.62	405.50	405.02	405.04	408.16
Min	404.77	404.81	404.64	405.02	405.30	405.81	405.36	405.52	405.31	404.97	404.96	404.95	404.64

Annual Max Momentary Gage Height	408.27	m. (MSL.) ,	at 23.00 Hours , on Sep 3 , 2014			
Zero Gage at Bottom Elevation	405.10	m. (MSL.) ,	River Bed	404.16	m. (MSL.)	
Left Bank Elevation	410.61	m. (MSL.) ,				
Right Bank Elevation	410.59	m. (MSL.) ,	Drainage Area	2909	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	5.45	8.13	14.75	20.60	136.75	61.46	28.10	19.00	7.50	1.45	1.30		
2	0.95	5.97	7.59	15.88	19.00	149.12	50.30	32.00	18.50	6.75	1.45	1.25		
3	0.95	9.04	6.78	11.95	20.60	284.50	44.25	33.50	18.00	6.25	1.40	1.25		
4	1.00	15.49	4.70	10.32	23.43	289.00	33.50	53.14	17.60	5.50	1.40	1.25		
5	0.95	11.95	4.95	9.36	29.37	242.58	28.52	82.14	17.20	4.80	1.35	1.25		
6	0.95	20.20	5.70	9.04	71.78	180.56	27.68	66.74	16.80	4.60	1.30	1.45		
7	0.95	23.43	5.20	11.60	60.18	130.40	27.25	67.46	16.40	4.20	1.30	1.45		
8	0.95	18.61	4.95	20.20	45.35	106.80	25.98	62.74	16.40	3.00	1.30	1.65		
9	0.95	13.35	5.45	21.40	36.50	90.29	23.43	53.14	16.00	3.60	1.30	1.65		
10	0.95	9.04	5.20	25.55	40.50	83.78	22.60	48.65	15.60	5.75	1.30	1.65		
11	0.95	6.78	3.45	19.40	32.50	73.22	22.20	47.00	14.80	14.00	1.40	1.50		
12	1.00	6.24	2.86	20.60	21.80	68.90	22.20	44.80	14.00	12.95	1.40	1.45		
13	1.00	5.97	7.05	56.98	21.00	69.62	28.52	43.15	13.65	11.55	1.40	1.45		
14	1.00	5.20	17.44	48.65	39.00	68.18	35.50	41.50	13.65	9.00	1.40	1.40		
15	1.10	4.20	22.60	41.00	35.50	66.74	30.23	40.50	13.65	5.75	1.40	1.35		
16	1.15	3.70	14.05	31.50	38.50	62.74	25.98	26.00	13.30	5.50	1.40	1.35		
17	1.25	3.45	8.72	25.13	38.50	69.62	23.85	26.00	13.30	4.60	1.40	1.30		
18	1.25	3.45	6.78	27.25	29.80	64.02	22.60	27.00	12.95	4.40	1.40	1.30		
19	1.25	3.70	5.97	24.27	27.25	59.54	23.00	29.95	12.25	3.40	1.40	1.65		
20	1.05	4.70	5.97	28.10	38.50	60.18	22.60	27.50	11.90	2.10	1.45	1.95		
21	0.42	5.70	4.70	21.80	79.70	58.26	21.80	26.00	11.55	1.80	1.80	1.95		
22	3.45	5.70	2.35	20.60	59.54	51.95	21.40	26.00	11.20	1.80	1.80	1.95		
23	4.95	5.45	2.01	21.80	42.60	47.00	28.10	25.50	10.85	1.80	1.45	1.50		
24	4.45	3.95	2.01	24.70	45.35	42.05	32.00	25.00	10.20	1.80	1.40	1.80		
25	3.45	3.95	1.84	26.40	53.14	45.35	34.00	24.50	9.00	1.80	1.40	1.65		
26	3.45	4.45	1.50	22.20	57.62	47.55	30.65	24.00	8.70	1.80	1.35	2.10		
27	2.69	4.70	1.05	32.00	65.30	48.65	27.25	23.00	8.40	1.50	1.30	2.10		
28	2.69	4.95	0.75	49.75	62.10	48.65	26.40	22.00	8.40	1.40	1.30	2.10		
29	3.20	8.13	0.60	47.00	62.10	52.50	28.10	20.00	8.10	1.35		1.95		
30	3.95	12.65	4.95	30.65	153.63	65.30	29.80	19.00	8.10	1.35		1.95		
31		10.64		23.85	287.50		29.80		7.80	1.35		1.95		
Total	53.25	250.19	175.30	793.68	1658.24	2863.80	910.95	1116.01	407.25	142.95	39.40	49.85	8460.87	CMSDAY
Mean	1.77	8.07	5.84	25.60	53.49	95.46	29.39	37.20	13.14	4.61	1.41	1.61	23.18	CMS
Max	4.95	23.43	22.60	56.98	287.50	289.00	61.46	82.14	19.00	14.00	1.80	2.10	289.00	CMS
Min	0.42	3.45	0.60	9.04	19.00	42.05	21.40	19.00	7.80	1.35	1.30	1.25	0.42	CMS
Runoff	4.60	21.62	15.15	68.57	143.27	247.43	78.71	96.42	35.19	12.35	3.40	4.31	731.02	MCM

Momentary Peak 305.50 CMS. at 408.27 m. (MSL.) at 23.00 Hours , on Sep 3 , 2014

Runoff Yield 7.97 Liters/Second/Square KM. Momentary Peak Yield 105.019 Liters/Second/Square KM.

WATER YEAR : 2014

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

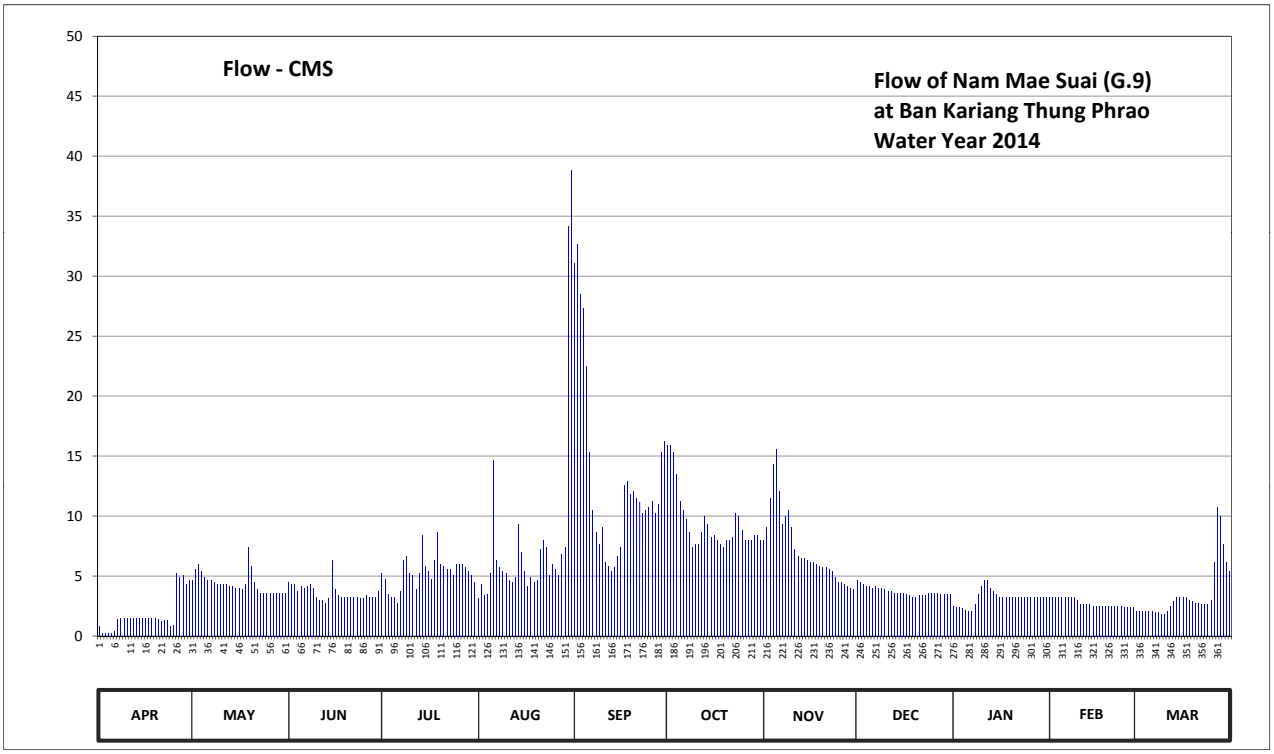
Location : on right bank at the bridge on road.

	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 Flot	-				
Rated by Current Meter	1998 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.71	515.76	515.75	515.80	515.65	516.65	516.26	515.96	515.76	515.60	515.66	515.56	
2	515.46	515.82	515.74	515.77	515.74	516.68	516.26	516.01	515.75	515.59	515.66	515.56	
3	515.45	515.85	515.74	515.68	515.67	516.60	516.24	516.11	515.74	515.59	515.66	515.56	
4	515.45	515.81	515.70	515.66	515.68	516.57	516.18	516.21	515.73	515.58	515.66	515.56	
5	515.45	515.78	515.73	515.66	515.80	516.45	516.10	516.25	515.73	515.57	515.66	515.56	
6	515.55	515.76	515.72	515.62	516.22	516.24	516.07	516.13	515.72	515.56	515.66	515.56	
7	515.85	515.76	515.73	515.70	515.87	516.07	516.04	516.02	515.73	515.56	515.66	515.55	
8	515.86	515.75	515.74	515.87	515.83	515.99	515.99	516.05	515.72	515.61	515.66	515.55	
9	515.86	515.74	515.72	515.89	515.81	515.94	515.93	516.07	515.72	515.68	515.66	515.54	
10	515.86	515.74	515.66	515.80	515.80	516.01	515.94	516.01	515.71	515.73	515.64	515.54	
11	515.86	515.74	515.64	515.79	515.76	515.86	515.94	515.92	515.70	515.76	515.61	515.56	
12	515.86	515.74	515.64	515.71	515.75	515.84	515.99	515.89	515.70	515.76	515.61	515.60	
13	515.86	515.73	515.62	515.80	515.78	515.81	516.05	515.88	515.69	515.72	515.61	515.63	
14	515.86	515.73	515.65	515.98	516.02	515.83	516.02	515.88	515.69	515.70	515.61	515.66	
15	515.86	515.72	515.87	515.84	515.91	515.89	515.97	515.87	515.69	515.68	515.60	515.66	
16	515.86	515.72	515.71	515.81	515.81	515.93	515.98	515.86	515.69	515.66	515.60	515.66	
17	515.86	515.71	515.67	515.77	515.73	516.15	515.96	515.86	515.68	515.66	515.60	515.66	
18	515.86	515.74	515.66	515.87	515.78	516.16	515.94	515.85	515.67	515.66	515.60	515.64	
19	515.86	515.93	515.66	515.99	515.75	516.12	515.93	515.84	515.66	515.66	515.60	515.63	
20	515.85	515.84	515.66	515.85	515.76	516.13	515.96	515.83	515.66	515.66	515.60	515.62	
21	515.81	515.75	515.66	515.84	515.92	516.11	515.96	515.83	515.67	515.66	515.60	515.62	
22	515.83	515.71	515.66	515.82	515.96	516.10	515.97	515.82	515.67	515.66	515.60	515.61	
23	515.83	515.69	515.66	515.82	515.93	516.06	516.06	515.81	515.67	515.66	515.60	515.61	
24	515.71	515.69	515.65	515.79	515.79	516.07	516.05	515.78	515.69	515.66	515.60	515.61	
25	515.73	515.69	515.65	515.85	515.85	516.08	516.00	515.75	515.69	515.66	515.59	515.64	
26	515.80	515.69	515.67	515.85	515.82	516.10	515.96	515.75	515.69	515.66	515.59	515.86	
27	515.78	515.69	515.66	515.85	515.79	516.06	515.96	515.74	515.69	515.66	515.59	516.08	
28	515.79	515.69	515.66	515.83	515.90	516.09	515.96	515.73	515.68	515.66	515.59	516.05	
29	515.74	515.69	515.66	515.81	515.93	516.24	515.98	515.72	515.68	515.66		515.94	
30	515.76	515.69	515.70	515.79	516.71	516.27	515.98	515.71	515.68	515.66		515.86	
31		515.69		515.75	516.80		515.96		515.68	515.66		515.81	
Mean	515.76	515.74	515.69	515.80	515.89	516.14	516.02	515.90	515.70	515.65	515.62	515.66	
Max	515.86	515.93	515.87	515.99	516.80	516.68	516.26	516.25	515.76	515.76	515.66	516.08	516.80
Min	515.45	515.69	515.62	515.62	515.65	515.81	515.93	515.71	515.66	515.56	515.59	515.54	515.45

Annual Max Momentary Gage Height	517.56	m. (MSL.) ,	at 09.00 Hours , on Aug 31 , 2014		
Zero Gage at Bottom Elevation	514.66	m. (MSL.) ,	River Bed	514.84	m. (MSL.)
Left Bank Elevation	521.61	m. (MSL.) ,			
Right Bank Elevation	521.60	m. (MSL.) ,	Drainage Area	386	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.79	4.60	4.45	5.20	3.10	31.08	15.92	8.00	4.60	2.50	3.22	2.06		
2	0.19	5.52	4.30	4.75	4.30	32.62	15.92	9.04	4.45	2.39	3.22	2.06		
3	0.18	6.00	4.30	3.46	3.34	28.50	15.28	11.48	4.30	2.39	3.22	2.06		
4	0.18	5.36	3.70	3.22	3.46	27.30	13.44	14.32	4.15	2.28	3.22	2.06		
5	0.18	4.90	4.15	3.22	5.20	22.50	11.20	15.60	4.15	2.17	3.22	2.06		
6	0.35	4.60	4.00	2.74	14.64	15.28	10.48	12.04	4.00	2.06	3.22	2.06		
7	1.40	4.60	4.15	3.70	6.32	10.48	9.76	9.28	4.15	2.06	3.22	1.95		
8	1.45	4.45	4.30	6.32	5.68	8.60	8.60	10.00	4.00	2.62	3.22	1.95		
9	1.45	4.30	4.00	6.64	5.36	7.60	7.40	10.48	4.00	3.46	3.22	1.84		
10	1.45	4.30	3.22	5.20	5.20	9.04	7.60	9.04	3.85	4.15	2.98	1.84		
11	1.45	4.30	2.98	5.05	4.60	6.16	7.60	7.20	3.70	4.60	2.62	2.06		
12	1.45	4.30	2.98	3.85	4.45	5.84	8.60	6.64	3.70	4.60	2.62	2.50		
13	1.45	4.15	2.74	5.20	4.90	5.36	10.00	6.48	3.58	4.00	2.62	2.86		
14	1.45	4.15	3.10	8.40	9.28	5.68	9.28	6.48	3.58	3.70	2.62	3.22		
15	1.45	4.00	6.32	5.84	7.00	6.64	8.20	6.32	3.58	3.46	2.50	3.22		
16	1.45	4.00	3.85	5.36	5.36	7.40	8.40	6.16	3.58	3.22	2.50	3.22		
17	1.45	3.85	3.34	4.75	4.15	12.60	8.00	6.16	3.46	3.22	2.50	3.22		
18	1.45	4.30	3.22	6.32	4.90	12.88	7.60	6.00	3.34	3.22	2.50	2.98		
19	1.45	7.40	3.22	8.60	4.45	11.76	7.40	5.84	3.22	3.22	2.50	2.86		
20	1.40	5.84	3.22	6.00	4.60	12.04	8.00	5.68	3.22	3.22	2.50	2.74		
21	1.20	4.45	3.22	5.84	7.20	11.48	8.00	5.68	3.34	3.22	2.50	2.74		
22	1.30	3.85	3.22	5.52	8.00	11.20	8.20	5.52	3.34	3.22	2.50	2.62		
23	1.30	3.58	3.22	5.52	7.40	10.24	10.24	5.36	3.34	3.22	2.50	2.62		
24	0.79	3.58	3.10	5.05	5.05	10.48	10.00	4.90	3.58	3.22	2.50	2.62		
25	0.87	3.58	3.10	6.00	6.00	10.72	8.80	4.45	3.58	3.22	2.39	2.98		
26	5.20	3.58	3.34	6.00	5.52	11.20	8.00	4.45	3.58	3.22	2.39	6.16		
27	4.90	3.58	3.22	6.00	5.05	10.24	8.00	4.30	3.58	3.22	2.39	10.72		
28	5.05	3.58	3.22	5.68	6.80	10.96	8.00	4.15	3.46	3.22	2.39	10.00		
29	4.30	3.58	3.22	5.36	7.40	15.28	8.40	4.00	3.46	3.22		7.60		
30	4.60	3.58	3.70	5.05	34.17	16.24	8.40	3.85	3.46	3.22		6.16		
31		3.58		4.45	38.80		8.00		3.46	3.22		5.36		
Total	51.58	135.44	108.10	164.29	241.68	397.40	292.72	218.90	114.79	97.96	77.00	108.40	2008.26	CMSDAY
Mean	1.72	4.37	3.60	5.30	7.80	13.25	9.44	7.30	3.70	3.16	2.75	3.50	5.50	CMS
Max	5.20	7.40	6.32	8.60	38.80	32.62	15.92	15.60	4.60	4.60	3.22	10.72	38.80	CMS
Min	0.18	3.58	2.74	2.74	3.10	5.36	7.40	3.85	3.22	2.06	2.39	1.84	0.18	CMS
Runoff	4.46	11.70	9.34	14.20	20.88	34.34	25.29	18.91	9.92	8.46	6.65	9.37	173.51	MCM

Momentary Peak 104.30 CMS. at 517.56 m. (MSL.) at 09.00 Hours , on Aug 31 , 2014

Runoff Yield 14.25 Liters/Second/Square KM. Momentary Peak Yield 270.207 Liters/Second/Square KM.

WATER YEAR : 2014

NAM MAE KOK RIVER BASIN

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

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

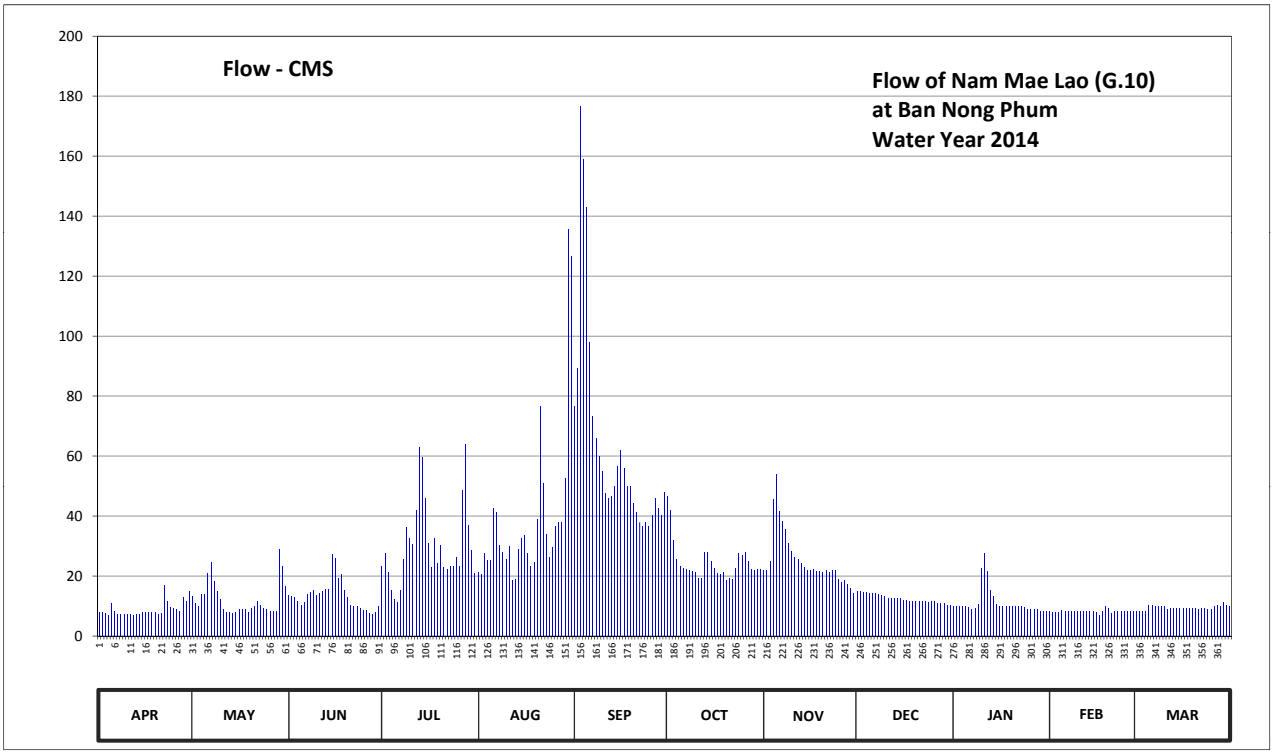
Location : on right bank at Ban Nong Phum.

	Ban Nong Phum	**Amphoe** Mae Suai	**Changwat** Chiang Rai
Drainge Area	2,614 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+433.473 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		**Elevation** +439.133 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 46 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.53	433.73	433.75	434.05	433.99	435.16	434.61	434.01	433.80	433.62	433.55	433.55	
2	433.53	433.65	433.73	434.16	433.97	435.36	434.51	434.01	433.79	433.62	433.53	433.55	
3	433.52	433.62	433.72	433.99	434.16	436.45	434.27	434.09	433.78	433.62	433.53	433.55	
4	433.50	433.76	433.68	433.81	434.10	436.25	434.11	434.59	433.78	433.61	433.53	433.55	
5	433.65	433.76	433.63	433.70	434.10	436.06	434.05	434.76	433.77	433.61	433.56	433.63	
6	433.55	433.98	433.66	433.66	434.52	435.48	434.03	434.50	433.77	433.60	433.55	433.63	
7	433.51	434.08	433.76	433.81	434.49	435.10	434.02	434.43	433.77	433.58	433.55	433.62	
8	433.51	433.90	433.78	434.11	434.23	434.97	434.01	434.36	433.76	433.59	433.55	433.62	
9	433.51	433.79	433.81	434.38	434.17	434.87	434.00	434.25	433.75	433.64	433.55	433.61	
10	433.51	433.70	433.75	434.29	434.11	434.78	433.99	434.18	433.73	434.03	433.55	433.61	
11	433.51	433.57	433.77	434.24	434.22	434.63	433.93	434.13	433.71	434.16	433.55	433.57	
12	433.49	433.54	433.80	434.51	433.91	434.60	433.93	434.11	433.71	434.00	433.55	433.59	
13	433.51	433.54	433.82	434.92	433.92	434.61	434.17	434.07	433.71	433.81	433.55	433.59	
14	433.51	433.52	433.82	434.86	434.20	434.68	434.17	434.04	433.71	433.74	433.55	433.59	
15	433.53	433.53	434.15	434.60	434.29	434.81	434.09	434.01	433.71	433.64	433.55	433.59	
16	433.53	433.58	434.12	434.25	434.31	434.90	434.03	434.01	433.69	433.62	433.53	433.59	
17	433.53	433.57	433.93	434.04	434.16	434.80	433.98	434.02	433.69	433.62	433.50	433.59	
18	433.53	433.57	433.97	434.29	434.05	434.68	433.97	434.00	433.67	433.61	433.55	433.59	
19	433.53	433.54	433.81	434.07	434.08	434.68	433.99	434.00	433.67	433.61	433.62	433.59	
20	433.51	433.59	433.72	434.23	434.44	434.56	433.91	433.99	433.67	433.61	433.59	433.59	
21	433.52	433.62	433.63	434.04	435.16	434.49	433.93	434.01	433.67	433.61	433.52	433.57	
22	433.86	433.67	433.62	434.02	434.70	434.42	433.92	433.99	433.67	433.61	433.55	433.59	
23	433.68	433.63	433.62	434.05	434.32	434.39	434.03	434.01	433.67	433.61	433.55	433.59	
24	433.60	433.59	433.59	434.05	434.13	434.42	434.16	434.01	433.66	433.60	433.55	433.57	
25	433.59	433.57	433.56	434.13	434.21	434.39	434.14	433.92	433.67	433.57	433.55	433.57	
26	433.57	433.55	433.56	434.05	434.39	434.47	434.17	433.89	433.67	433.57	433.55	433.62	
27	433.55	433.55	433.52	434.65	434.42	434.60	434.09	433.91	433.65	433.57	433.55	433.63	
28	433.72	433.55	433.51	434.94	434.42	434.52	434.02	433.87	433.65	433.57	433.55	433.62	
29	433.68	434.20	433.53	434.40	434.73	434.47	434.01	433.83	433.65	433.55		433.66	
30	433.79	434.05	433.61	434.19	435.97	434.64	434.02	433.77	433.63	433.55		433.63	
31		433.85		433.98	435.86		434.02		433.63	433.55		433.61	
Mean	433.57	433.69	433.73	434.21	434.38	434.87	434.07	434.09	433.71	433.65	433.55	433.60	
Max	433.86	434.20	434.15	434.94	435.97	436.45	434.61	434.76	433.80	434.16	433.62	433.66	436.45
Min	433.49	433.52	433.51	433.66	433.91	434.39	433.91	433.77	433.63	433.55	433.50	433.55	433.49

Annual Max Momentary Gage Height	436.57	m. (MSL.) ,	at 18.00 Hours , on Aug 30 , 2014		
Zero Gage at Bottom Elevation	433.47	m. (MSL.) ,	River Bed	433.00	m. (MSL.)
Left Bank Elevation	438.90	m. (MSL.) ,			
Right Bank Elevation	438.92	m. (MSL.) ,	Drainage Area	2614	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.75	13.04	13.60	23.37	21.17	76.70	46.50	21.88	15.00	10.04	8.25	8.25		
2	7.75	10.85	13.04	27.50	20.51	89.40	41.95	21.88	14.72	10.04	7.75	8.25		
3	7.50	10.04	12.76	21.17	27.50	176.50	31.80	24.87	14.44	10.04	7.75	8.25		
4	7.00	13.88	11.66	15.32	25.25	158.87	25.62	45.55	14.44	9.77	7.75	8.25		
5	10.85	13.88	10.31	12.20	25.25	142.95	23.37	54.00	14.16	9.77	8.50	10.31		
6	8.25	20.84	11.12	11.12	42.40	97.80	22.62	41.50	14.16	9.50	8.25	10.31		
7	7.25	24.50	13.88	15.32	41.05	73.25	22.25	38.35	14.16	9.00	8.25	10.04		
8	7.25	18.20	14.44	25.62	30.20	65.78	21.88	35.40	13.88	9.25	8.25	10.04		
9	7.25	14.72	15.32	36.20	27.88	60.03	21.50	31.00	13.60	10.58	8.25	9.77		
10	7.25	12.20	13.60	32.60	25.62	55.00	21.17	28.25	13.04	22.62	8.25	9.77		
11	7.25	8.75	14.16	30.60	29.80	47.50	19.19	26.37	12.48	27.50	8.25	8.75		
12	6.80	8.00	15.00	41.95	18.53	46.00	19.19	25.62	12.48	21.50	8.25	9.25		
13	7.25	8.00	15.64	62.90	18.86	46.50	27.88	24.13	12.48	15.32	8.25	9.25		
14	7.25	7.50	15.64	59.45	29.00	50.00	27.88	23.00	12.48	13.32	8.25	9.25		
15	7.75	7.75	27.12	46.00	32.60	56.58	24.87	21.88	12.48	10.58	8.25	9.25		
16	7.75	9.00	26.00	31.00	33.40	61.75	22.62	21.88	11.93	10.04	7.75	9.25		
17	7.75	8.75	19.19	23.00	27.50	56.00	20.84	22.25	11.93	10.04	7.00	9.25		
18	7.75	8.75	20.51	32.60	23.37	50.00	20.51	21.50	11.39	9.77	8.25	9.25		
19	7.75	8.00	15.32	24.13	24.50	50.00	21.17	21.50	11.39	9.77	10.04	9.25		
20	7.25	9.25	12.76	30.20	38.80	44.20	18.53	21.17	11.39	9.77	9.25	9.25		
21	7.50	10.04	10.31	23.00	76.70	41.05	19.19	21.88	11.39	9.77	7.50	8.75		
22	16.92	11.39	10.04	22.25	51.00	37.90	18.86	21.17	11.39	9.77	8.25	9.25		
23	11.66	10.31	10.04	23.37	33.80	36.60	22.62	21.88	11.39	9.77	8.25	9.25		
24	9.50	9.25	9.25	23.37	26.37	37.90	27.50	21.88	11.12	9.50	8.25	8.75		
25	9.25	8.75	8.50	26.37	29.40	36.60	26.75	18.86	11.39	8.75	8.25	8.75		
26	8.75	8.25	8.50	23.37	36.60	40.15	27.88	17.88	11.39	8.75	8.25	10.04		
27	8.25	8.25	7.50	48.50	37.90	46.00	24.87	18.53	10.85	8.75	8.25	10.31		
28	12.76	8.25	7.25	64.05	37.90	42.40	22.25	17.24	10.85	8.75	8.25	10.04		
29	11.66	29.00	7.75	37.00	52.50	40.15	21.88	15.96	10.85	8.25		11.12		
30	14.72	23.37	9.77	28.62	135.53	48.00	22.25	14.16	10.31	8.25		10.31		
31		16.60		20.84	126.45		22.25		10.31	8.25		9.77		
Total	263.62	379.36	399.98	942.99	1207.34	1911.56	757.64	761.42	383.27	346.78	230.04	291.58	7875.58	CMSDAY
Mean	8.79	12.24	13.33	30.42	38.95	63.72	24.44	25.38	12.36	11.19	8.22	9.41	21.58	CMS
Max	16.92	29.00	27.12	64.05	135.53	176.50	46.50	54.00	15.00	27.50	10.04	11.12	176.50	CMS
Min	6.80	7.50	7.25	11.12	18.53	36.60	18.53	14.16	10.31	8.25	7.00	8.25	6.80	CMS
Runoff	22.78	32.78	34.56	81.47	104.31	165.16	65.46	65.79	33.12	29.96	19.88	25.19	680.45	MCM

Momentary Peak 187.30 CMS. at 436.57 m. (MSL.) at 18.00 Hours , on Aug 30 , 2014

Runoff Yield 8.25 Liters/Second/Square KM. Momentary Peak Yield 71.653 Liters/Second/Square KM.

WATER YEAR : 2014

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

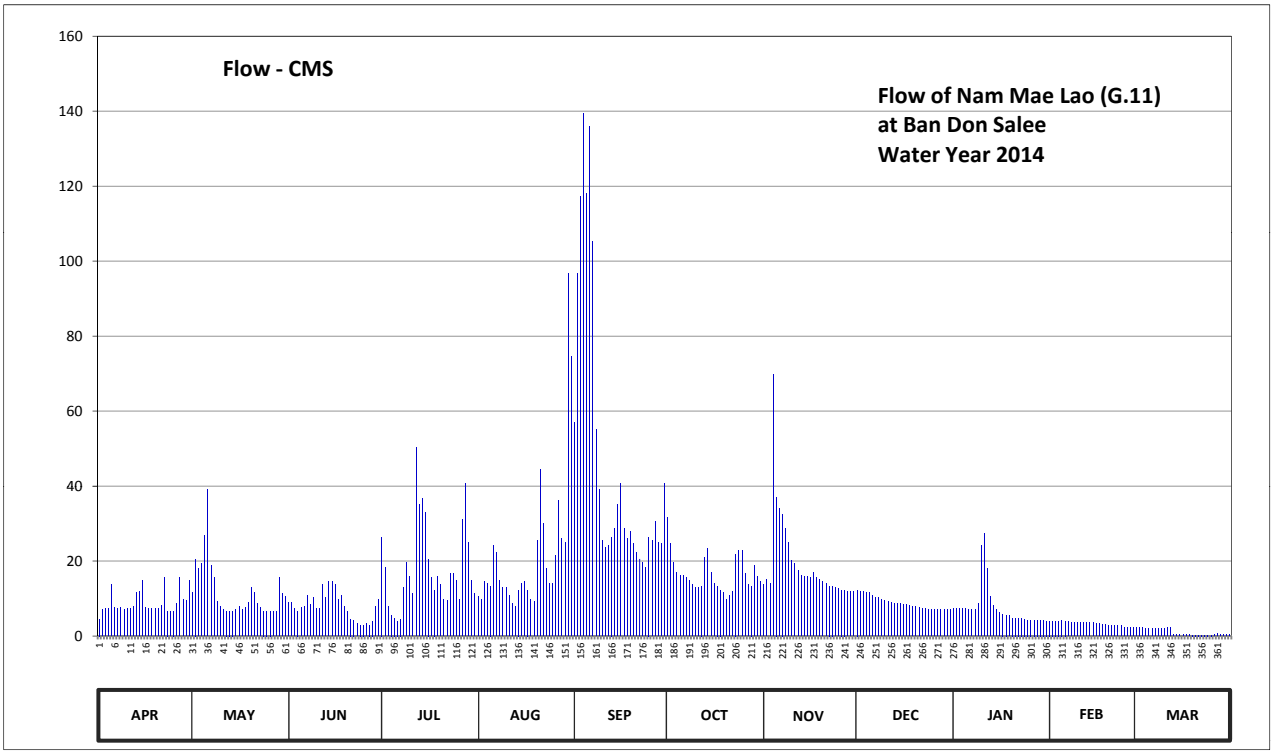
Location : on left bank at Ban Salee.

	Ban Don Salee	**Amphoe** Mae Suai	**Changwat** Chiang Rai
Drainge Area	1,918 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+462.835 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		**Elevation** +468.695 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 46 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	463.12	463.36	463.28	463.72	463.33	464.28	463.83	463.42	463.38	463.22	463.10	463.01	
2	463.21	463.59	463.28	463.54	463.31	464.82	463.68	463.46	463.37	463.22	463.10	463.01	
3	463.22	463.53	463.22	463.24	463.44	465.06	463.57	463.43	463.37	463.22	463.10	463.00	
4	463.22	463.56	463.20	463.16	463.43	465.31	463.51	464.47	463.36	463.22	463.10	462.99	
5	463.42	463.73	463.23	463.13	463.41	465.07	463.49	463.94	463.36	463.22	463.11	462.99	
6	463.23	463.98	463.24	463.10	463.67	465.27	463.49	463.88	463.34	463.21	463.10	462.99	
7	463.22	463.55	463.34	463.12	463.63	464.92	463.47	463.85	463.32	463.21	463.09	462.99	
8	463.23	463.47	463.26	463.40	463.45	464.25	463.45	463.77	463.32	463.21	463.08	462.99	
9	463.21	463.29	463.32	463.57	463.40	463.98	463.42	463.69	463.31	463.27	463.08	462.99	
10	463.22	463.24	463.22	463.48	463.40	463.70	463.40	463.58	463.30	463.67	463.08	462.99	
11	463.22	463.21	463.22	463.35	463.34	463.66	463.40	463.56	463.29	463.74	463.08	463.00	
12	463.24	463.20	463.42	464.17	463.27	463.67	463.41	463.52	463.28	463.53	463.08	463.00	
13	463.36	463.20	463.32	463.90	463.24	463.72	463.60	463.49	463.27	463.33	463.08	463.22	
14	463.37	463.20	463.44	463.93	463.38	463.77	463.65	463.48	463.27	463.25	463.08	463.22	
15	463.45	463.21	463.44	463.86	463.43	463.90	463.51	463.48	463.27	463.21	463.08	463.22	
16	463.23	463.24	463.42	463.59	463.44	464.01	463.43	463.47	463.26	463.18	463.07	463.22	
17	463.22	463.21	463.31	463.47	463.38	463.77	463.41	463.51	463.26	463.17	463.07	463.22	
18	463.22	463.23	463.34	463.38	463.31	463.71	463.38	463.47	463.25	463.16	463.05	463.22	
19	463.22	463.28	463.24	463.48	463.29	463.75	463.36	463.46	463.24	463.15	463.05	463.18	
20	463.22	463.40	463.19	463.42	463.70	463.68	463.31	463.44	463.24	463.13	463.03	463.18	
21	463.25	463.36	463.12	463.31	464.07	463.63	463.34	463.43	463.23	463.13	463.03	463.20	
22	463.47	463.27	463.11	463.30	463.80	463.59	463.37	463.41	463.22	463.13	463.03	463.19	
23	463.20	463.23	463.06	463.50	463.53	463.57	463.62	463.41	463.22	463.13	463.03	463.19	
24	463.19	463.20	463.04	463.50	463.43	463.54	463.64	463.40	463.21	463.12	463.03	463.19	
25	463.20	463.20	463.04	463.45	463.43	463.72	463.64	463.39	463.21	463.11	463.01	463.20	
26	463.27	463.20	463.06	463.31	463.61	463.70	463.50	463.38	463.21	463.11	463.01	463.27	
27	463.47	463.19	463.04	463.82	463.92	463.81	463.42	463.38	463.21	463.11	463.01	463.32	
28	463.31	463.19	463.10	464.01	463.71	463.69	463.41	463.37	463.21	463.11	463.01	463.30	
29	463.30	463.47	463.24	463.69	463.69	463.68	463.55	463.37	463.21	463.11		463.30	
30	463.45	463.35	463.31	463.45	464.82	464.01	463.48	463.37	463.21	463.11		463.27	
31		463.33		463.35	464.54		463.44		463.21	463.10		463.24	
Mean	463.27	463.34	463.23	463.51	463.57	464.04	463.49	463.54	463.27	463.22	463.06	463.14	
Max	463.47	463.98	463.44	464.17	464.82	465.31	463.83	464.47	463.38	463.74	463.11	463.32	465.31
Min	463.12	463.19	463.04	463.10	463.24	463.54	463.31	463.37	463.21	463.10	463.01	462.99	462.99

Annual Max Momentary Gage Height	465.70	m. (MSL.) ,	at 18.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	462.83	m. (MSL.) ,	River Bed	462.34	m. (MSL.)
Left Bank Elevation	468.83	m. (MSL.) ,			
Right Bank Elevation	468.93	m. (MSL.) ,	Drainage Area	1918	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.54	11.60	8.94	26.42	10.55	57.08	31.57	13.72	12.30	7.26	4.00	2.38		
2	6.98	20.56	8.94	18.36	9.85	96.70	24.60	15.16	11.95	7.26	4.00	2.38		
3	7.26	17.92	7.26	7.82	14.44	117.25	19.68	14.08	11.95	7.26	4.00	2.20		
4	7.26	19.24	6.70	5.62	14.08	139.40	17.04	69.71	11.60	7.26	4.00	2.08		
5	13.72	26.88	7.54	4.81	13.36	118.13	16.24	37.08	11.60	7.26	4.27	2.08		
6	7.54	39.16	7.82	4.00	24.15	135.80	16.24	34.02	10.90	6.98	4.00	2.08		
7	7.26	18.80	10.90	4.54	22.35	105.20	15.52	32.55	10.20	6.98	3.82	2.08		
8	7.54	15.52	8.38	13.00	14.80	55.17	14.80	28.72	10.20	6.98	3.64	2.08		
9	6.98	9.22	10.20	19.68	13.00	39.16	13.72	25.05	9.85	8.66	3.64	2.08		
10	7.26	7.82	7.26	15.88	13.00	25.50	13.00	20.12	9.50	24.15	3.64	2.08		
11	7.26	6.98	7.26	11.25	10.90	23.70	13.00	19.24	9.22	27.34	3.64	2.20		
12	7.82	6.70	13.72	50.23	8.66	24.15	13.36	17.48	8.94	17.92	3.64	2.20		
13	11.60	6.70	10.20	35.00	7.82	26.42	21.00	16.24	8.66	10.55	3.64	0.34		
14	11.95	6.70	14.44	36.56	12.30	28.72	23.25	15.88	8.66	8.10	3.64	0.34		
15	14.80	6.98	14.44	33.04	14.08	35.00	17.04	15.88	8.66	6.98	3.64	0.34		
16	7.54	7.82	13.72	20.56	14.44	40.79	14.08	15.52	8.38	6.16	3.46	0.34		
17	7.26	6.98	9.85	15.52	12.30	28.72	13.36	17.04	8.38	5.89	3.46	0.34		
18	7.26	7.54	10.90	12.30	9.85	25.96	12.30	15.52	8.10	5.62	3.10	0.34		
19	7.26	8.94	7.82	15.88	9.22	27.80	11.60	15.16	7.82	5.35	3.10	0.28		
20	7.26	13.00	6.43	13.72	25.50	24.60	9.85	14.44	7.82	4.81	2.74	0.28		
21	8.10	11.60	4.54	9.85	44.33	22.35	10.90	14.08	7.54	4.81	2.74	0.30		
22	15.52	8.66	4.27	9.50	30.10	20.56	11.95	13.36	7.26	4.81	2.74	0.29		
23	6.70	7.54	3.28	16.60	17.92	19.68	21.90	13.36	7.26	4.81	2.74	0.29		
24	6.43	6.70	2.92	16.60	14.08	18.36	22.80	13.00	6.98	4.54	2.74	0.29		
25	6.70	6.70	2.92	14.80	14.08	26.42	22.80	12.65	6.98	4.27	2.38	0.30		
26	8.66	6.70	3.28	9.85	21.45	25.50	16.60	12.30	6.98	4.27	2.38	0.44		
27	15.52	6.43	2.92	31.08	36.04	30.59	13.72	12.30	6.98	4.27	2.38	0.60		
28	9.85	6.43	4.00	40.79	25.96	25.05	13.36	11.95	6.98	4.27	2.38	0.50		
29	9.50	15.52	7.82	25.05	25.05	24.60	18.80	11.95	6.98	4.27		0.50		
30	14.80	11.25	9.85	14.80	96.70	40.79	15.88	11.95	6.98	4.27		0.44		
31		10.55		11.25	74.71		14.44		6.98	4.00		0.38		
Total	268.13	363.14	238.52	564.36	675.07	1429.15	514.40	579.51	272.59	237.36	93.55	32.85	5268.63	CMSDAY
Mean	8.94	11.71	7.95	18.21	21.78	47.64	16.59	19.32	8.79	7.66	3.34	1.06	14.43	CMS
Max	15.52	39.16	14.44	50.23	96.70	139.40	31.57	69.71	12.30	27.34	4.27	2.38	139.40	CMS
Min	4.54	6.43	2.92	4.00	7.82	18.36	9.85	11.95	6.98	4.00	2.38	0.28	0.28	CMS
Runoff	23.17	31.38	20.61	48.76	58.33	123.48	44.44	50.07	23.55	20.51	8.08	2.84	455.21	MCM

Momentary Peak 176.50 CMS. at 465.70 m. (MSL.) at 18.00 Hours , on Sep 4 , 2014

Runoff Yield 7.53 Liters/Second/Square KM. Momentary Peak Yield 92.023 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1967 - 1971 , 1973, 1979, 1982 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 17 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

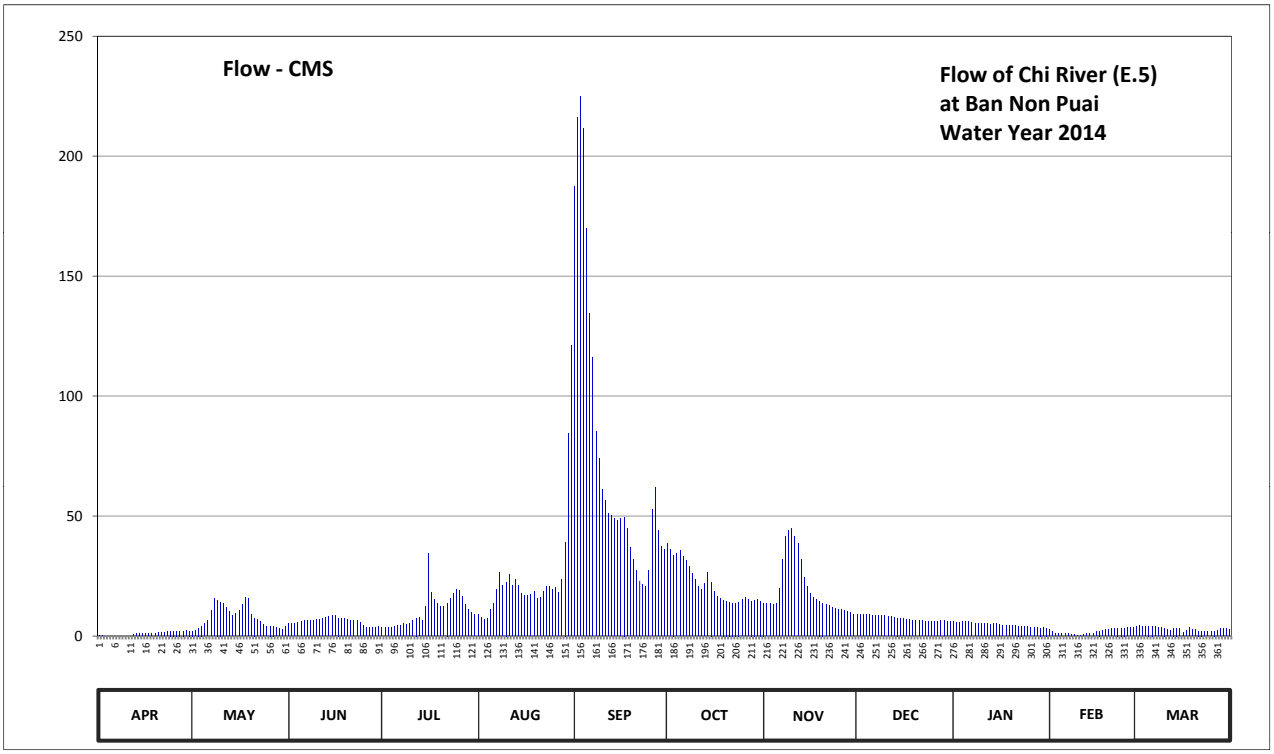
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.01	190.07	190.17	190.12	190.30	194.01	190.91	190.42	190.30	190.20	190.09	190.13	
2	190.01	190.08	190.18	190.12	190.26	194.58	190.87	190.41	190.30	190.19	190.06	190.15	
3	189.97	190.11	190.18	190.12	190.23	194.76	190.83	190.41	190.30	190.19	190.04	190.13	
4	189.96	190.14	190.19	190.12	190.24	194.49	190.84	190.40	190.30	190.20	190.04	190.13	
5	189.94	190.17	190.20	190.13	190.35	193.66	190.86	190.41	190.30	190.20	190.03	190.14	
6	189.92	190.22	190.22	190.15	190.41	192.89	190.82	190.57	190.29	190.20	190.03	190.14	
7	189.92	190.34	190.22	190.15	190.56	192.43	190.79	190.80	190.29	190.19	190.03	190.13	
8	189.91	190.47	190.22	190.17	190.71	191.57	190.75	190.96	190.29	190.18	190.02	190.12	
9	189.91	190.45	190.22	190.16	190.60	191.34	190.70	191.00	190.28	190.18	190.02	190.12	
10	189.92	190.43	190.23	190.17	190.63	191.21	190.65	191.01	190.28	190.17	190.01	190.11	
11	189.97	190.41	190.23	190.21	190.69	191.16	190.59	190.96	190.27	190.17	190.01	190.09	
12	190.02	190.37	190.24	190.25	190.60	191.10	190.56	190.91	190.27	190.17	190.02	190.08	
13	190.03	190.33	190.26	190.26	190.65	191.09	190.62	190.80	190.26	190.16	190.03	190.11	
14	190.03	190.29	190.27	190.21	190.60	191.07	190.71	190.67	190.25	190.17	190.04	190.11	
15	190.04	190.31	190.28	190.38	190.52	191.06	190.63	190.59	190.24	190.17	190.04	190.10	
16	190.04	190.34	190.28	190.84	190.50	191.07	190.54	190.52	190.24	190.16	190.06	190.05	
17	190.04	190.40	190.25	190.53	190.50	191.08	190.49	190.48	190.23	190.15	190.07	190.08	
18	190.04	190.48	190.24	190.46	190.51	191.01	190.47	190.46	190.23	190.15	190.08	190.12	
19	190.04	190.47	190.24	190.41	190.54	190.88	190.45	190.44	190.22	190.15	190.09	190.09	
20	190.05	190.30	190.23	190.38	190.47	190.80	190.44	190.42	190.21	190.15	190.09	190.09	
21	190.05	190.25	190.22	190.38	190.48	190.72	190.43	190.40	190.21	190.15	190.10	190.07	
22	190.05	190.23	190.22	190.42	190.54	190.64	190.42	190.39	190.21	190.14	190.10	190.07	
23	190.06	190.20	190.21	190.47	190.59	190.61	190.42	190.37	190.20	190.14	190.11	190.06	
24	190.07	190.16	190.19	190.52	190.59	190.59	190.43	190.36	190.20	190.13	190.11	190.06	
25	190.07	190.13	190.15	190.56	190.56	190.72	190.46	190.35	190.20	190.13	190.11	190.06	
26	190.07	190.14	190.12	190.55	190.58	191.12	190.48	190.35	190.20	190.12	190.12	190.07	
27	190.07	190.14	190.12	190.49	190.53	191.22	190.46	190.34	190.20	190.12	190.12	190.08	
28	190.07	190.12	190.12	190.40	190.65	191.00	190.44	190.33	190.21	190.12	190.12	190.10	
29	190.08	190.10	190.12	190.35	190.92	190.89	190.45	190.32	190.21	190.11		190.10	
30	190.07	190.09	190.13	190.32	191.54	190.87	190.46	190.30	190.20	190.12		190.10	
31		190.13		190.30	192.55		190.44		190.20	190.11		190.09	
Mean	190.01	190.25	190.21	190.33	190.63	191.65	190.59	190.54	190.24	190.16	190.06	190.10	
Max	190.08	190.48	190.28	190.84	192.55	194.76	190.91	191.01	190.30	190.20	190.12	190.15	194.76
Min	189.91	190.07	190.12	190.12	190.23	190.59	190.42	190.30	190.20	190.11	190.01	190.05	189.91

Annual Max Momentary Gage Height 194.79 m. (MSL.) , at 08.00 Hours, on Sep 3, 2014

Zero Gage at Bottom Elevation 186.07 m. (MSL.) , River Bed 185.32 m. (MSL.)

Left Bank Elevation 197.31 m. (MSL.) ,

Right Bank Elevation 197.80 m. (MSL.) , Drainage Area 4207 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	2.10	5.10	3.60	9.00	187.50	38.60	13.80	9.00	6.00	2.70	3.90		
2	0.30	2.40	5.40	3.60	7.80	216.00	36.20	13.40	9.00	5.70	1.80	4.50		
3	0.00	3.30	5.40	3.60	6.90	225.00	33.80	13.40	9.00	5.70	1.20	3.90		
4	0.00	4.20	5.70	3.60	7.20	211.50	34.40	13.00	9.00	6.00	1.20	3.90		
5	0.00	5.10	6.00	3.90	11.00	170.00	35.60	13.40	9.00	6.00	0.90	4.20		
6	0.00	6.60	6.60	4.50	13.40	134.60	33.20	19.80	8.70	6.00	0.90	4.20		
7	0.00	10.60	6.60	4.50	19.40	116.20	31.40	32.00	8.70	5.70	0.90	3.90		
8	0.00	15.80	6.60	5.10	26.60	85.38	29.00	41.60	8.70	5.40	0.60	3.60		
9	0.00	15.00	6.60	4.80	21.00	74.00	26.00	44.00	8.40	5.40	0.60	3.60		
10	0.00	14.20	6.90	5.10	22.50	61.00	23.50	44.70	8.40	5.10	0.30	3.30		
11	0.00	13.40	6.90	6.30	25.50	56.40	20.60	41.60	8.10	5.10	0.30	2.70		
12	0.60	11.80	7.20	7.50	21.00	51.00	19.40	38.60	8.10	5.10	0.60	2.40		
13	0.90	10.20	7.80	7.80	23.50	50.30	22.00	32.00	7.80	4.80	0.90	3.30		
14	0.90	8.70	8.10	6.30	21.00	48.90	26.60	24.50	7.50	5.10	1.20	3.30		
15	1.20	9.40	8.40	12.20	17.80	48.20	22.50	20.60	7.20	5.10	1.20	3.00		
16	1.20	10.60	8.40	34.40	17.00	48.90	18.60	17.80	7.20	4.80	1.80	1.50		
17	1.20	13.00	7.50	18.20	17.00	49.60	16.60	16.20	6.90	4.50	2.10	2.40		
18	1.20	16.20	7.20	15.40	17.40	44.70	15.80	15.40	6.90	4.50	2.40	3.60		
19	1.20	15.80	7.20	13.40	18.60	36.80	15.00	14.60	6.60	4.50	2.70	2.70		
20	1.50	9.00	6.90	12.20	15.80	32.00	14.60	13.80	6.30	4.50	2.70	2.70		
21	1.50	7.50	6.60	12.20	16.20	27.20	14.20	13.00	6.30	4.50	3.00	2.10		
22	1.50	6.90	6.60	13.80	18.60	23.00	13.80	12.60	6.30	4.20	3.00	2.10		
23	1.80	6.00	6.30	15.80	20.60	21.50	13.80	11.80	6.00	4.20	3.30	1.80		
24	2.10	4.80	5.70	17.80	20.60	20.60	14.20	11.40	6.00	3.90	3.30	1.80		
25	2.10	3.90	4.50	19.40	19.40	27.20	15.40	11.00	6.00	3.90	3.30	1.80		
26	2.10	4.20	3.60	19.00	20.20	52.80	16.20	11.00	6.00	3.60	3.60	2.10		
27	2.10	4.20	3.60	16.60	18.20	62.00	15.40	10.60	6.00	3.60	3.60	2.40		
28	2.10	3.60	3.60	13.00	23.50	44.00	14.60	10.20	6.30	3.60	3.60	3.00		
29	2.40	3.00	3.60	11.00	39.20	37.40	15.00	9.80	6.30	3.30		3.00		
30	2.10	2.70	3.90	9.80	84.43	36.20	15.40	9.00	6.00	3.60		3.00		
31		3.90		9.00	121.00		14.60		6.00	3.30		2.70		
Total	30.30	248.10	184.50	333.40	741.33	2299.88	676.00	594.60	227.70	146.70	53.70	92.40	5628.61	CMSDAY
Mean	1.01	8.00	6.15	10.75	23.91	76.66	21.81	19.82	7.35	4.73	1.92	2.98	15.42	CMS
Max	2.40	16.20	8.40	34.40	121.00	225.00	38.60	44.70	9.00	6.00	3.60	4.50	225.00	CMS
Min	0.00	2.10	3.60	3.60	6.90	20.60	13.80	9.00	6.00	3.30	0.30	1.50	0.00	CMS
Runoff	2.62	21.44	15.94	28.81	64.05	198.71	58.41	51.37	19.67	12.68	4.64	7.98	486.31	MCM

Momentary Peak 226.50 CMS, at 194.79 m. (MSL.), at 08.00 Hours, on Sep 3, 2014

Runoff Yield 3.67 Liters/Second/Square KM. Momentary Peak Yield 53.839 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

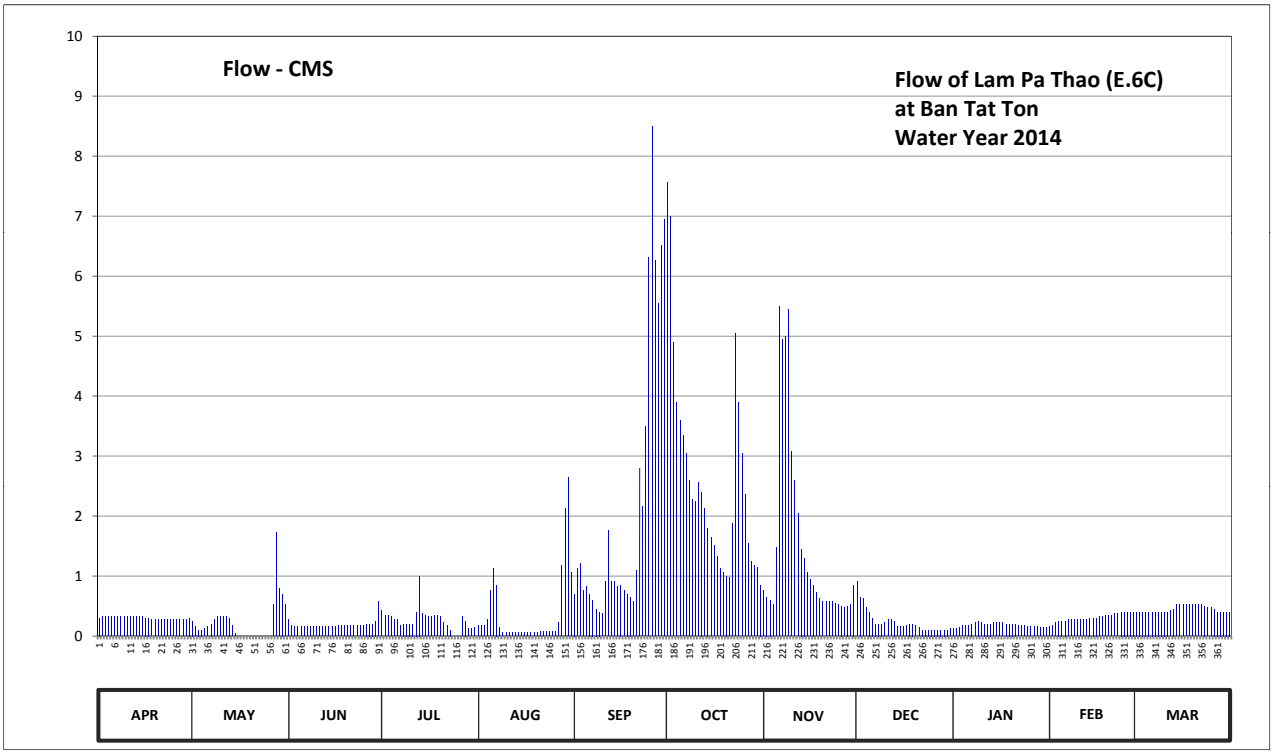
Location : on right bank about 5 kilometers upstream from E.6A station at Ban Tat Ton.

	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** +198.412 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 Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Lam Pa Thao Dam situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.94	192.92	192.93	192.99	192.89	193.10	194.60	193.12	193.17	192.86	192.88	192.98	
2	192.95	192.88	192.89	192.96	192.89	193.24	194.51	193.08	193.08	192.86	192.89	192.98	
3	192.95	192.85	192.88	192.96	192.89	193.27	194.14	193.06	193.07	192.87	192.91	192.98	
4	192.95	192.85	192.88	192.95	192.93	193.12	193.94	193.03	193.01	192.89	192.92	192.98	
5	192.95	192.86	192.88	192.93	193.12	193.14	193.88	193.36	192.98	192.89	192.92	192.98	
6	192.95	192.88	192.88	192.93	193.24	193.10	193.83	194.26	192.94	192.89	192.92	192.98	
7	192.95	192.90	192.88	192.89	193.15	193.06	193.76	194.15	192.90	192.90	192.93	192.98	
8	192.95	192.93	192.88	192.90	192.87	193.00	193.65	194.16	192.90	192.91	192.93	192.98	
9	192.95	192.95	192.88	192.90	192.83	192.98	193.57	194.25	192.90	192.92	192.93	192.98	
10	192.95	192.95	192.88	192.90	192.83	192.97	193.56	193.77	192.91	192.91	192.93	192.98	
11	192.95	192.95	192.88	192.90	192.83	193.17	193.64	193.65	192.93	192.90	192.93	192.98	
12	192.95	192.95	192.88	192.98	192.83	193.44	193.60	193.51	192.93	192.90	192.93	192.99	
13	192.95	192.94	192.88	193.20	192.83	193.17	193.53	193.35	192.92	192.90	192.93	193.00	
14	192.95	192.89	192.88	192.97	192.83	193.17	193.45	193.30	192.88	192.91	192.94	193.03	
15	192.95	192.82	192.88	192.96	192.83	193.14	193.41	193.22	192.88	192.91	192.94	193.03	
16	192.94	192.78	192.88	192.95	192.83	193.15	193.37	193.18	192.88	192.91	192.94	193.03	
17	192.94	192.78	192.89	192.95	192.83	193.12	193.31	193.15	192.89	192.91	192.95	193.03	
18	192.93	192.78	192.89	192.96	192.83	193.10	193.24	193.11	192.90	192.90	192.95	193.03	
19	192.93	192.78	192.89	192.96	192.83	193.08	193.22	193.07	192.90	192.90	192.96	193.03	
20	192.93	192.78	192.89	192.95	192.83	193.05	193.20	193.05	192.89	192.90	192.96	193.03	
21	192.93	192.78	192.89	192.91	192.84	193.23	193.19	193.05	192.87	192.90	192.96	193.03	
22	192.93	192.78	192.89	192.89	192.84	193.70	193.47	193.05	192.85	192.89	192.97	193.03	
23	192.93	192.78	192.89	192.85	192.84	193.54	194.17	193.05	192.85	192.89	192.97	193.02	
24	192.93	192.78	192.89	192.76	192.84	193.86	193.94	193.04	192.85	192.89	192.98	193.01	
25	192.93	192.79	192.89	192.76	192.84	194.40	193.76	193.03	192.85	192.88	192.98	193.01	
26	192.93	192.80	192.90	192.80	192.84	194.75	193.59	193.02	192.85	192.88	192.98	193.00	
27	192.93	193.03	192.90	192.95	192.91	194.39	193.38	193.01	192.85	192.88	192.98	192.98	
28	192.93	193.43	192.90	192.92	193.26	194.27	193.28	193.02	192.85	192.88	192.98	192.98	
29	192.93	193.13	192.92	192.86	193.53	194.43	193.26	193.03	192.85	192.87		192.98	
30	192.94	193.10	193.05	192.86	193.66	194.50	193.25	193.15	192.85	192.87		192.98	
31		193.03		192.87	193.22		193.15		192.86	192.87		192.98	
Mean	192.94	192.90	192.89	192.92	192.95	193.45	193.61	193.31	192.91	192.89	192.94	193.00	
Max	192.95	193.43	193.05	193.20	193.66	194.75	194.60	194.26	193.17	192.92	192.98	193.03	194.75
Min	192.93	192.78	192.88	192.76	192.83	192.97	193.15	193.01	192.85	192.86	192.88	192.98	192.76

Annual Max Momentary Gage Height	194.89	m. (MSL.) ,	at 06.00 Hours, on Sep 26, 2014		
Zero Gage at Bottom Elevation	192.70	m. (MSL.) ,	River Bed	192.41	m. (MSL.)
Left Bank Elevation	200.11	m. (MSL.) ,			
Right Bank Elevation	199.18	m. (MSL.) ,	Drainage Area	378	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.25	0.27	0.43	0.18	0.70	7.56	0.76	0.91	0.12	0.16	0.40		
2	0.33	0.16	0.18	0.35	0.18	1.12	7.00	0.65	0.65	0.12	0.18	0.40		
3	0.33	0.10	0.16	0.35	0.18	1.21	4.90	0.60	0.63	0.14	0.23	0.40		
4	0.33	0.10	0.16	0.33	0.27	0.76	3.90	0.52	0.47	0.18	0.25	0.40		
5	0.33	0.12	0.16	0.27	0.76	0.82	3.60	1.48	0.40	0.18	0.25	0.40		
6	0.33	0.16	0.16	0.27	1.12	0.70	3.35	5.50	0.30	0.18	0.25	0.40		
7	0.33	0.20	0.16	0.18	0.85	0.60	3.04	4.95	0.20	0.20	0.27	0.40		
8	0.33	0.27	0.16	0.20	0.14	0.45	2.60	5.00	0.20	0.23	0.27	0.40		
9	0.33	0.33	0.16	0.20	0.06	0.40	2.28	5.45	0.20	0.25	0.27	0.40		
10	0.33	0.33	0.16	0.20	0.06	0.38	2.24	3.08	0.23	0.23	0.27	0.40		
11	0.33	0.33	0.16	0.20	0.06	0.91	2.56	2.60	0.27	0.20	0.27	0.40		
12	0.33	0.33	0.16	0.40	0.06	1.76	2.40	2.04	0.27	0.20	0.27	0.43		
13	0.33	0.30	0.16	1.00	0.06	0.91	2.12	1.45	0.25	0.20	0.27	0.45		
14	0.33	0.18	0.16	0.38	0.06	0.91	1.80	1.30	0.16	0.23	0.30	0.52		
15	0.33	0.04	0.16	0.35	0.06	0.82	1.64	1.06	0.16	0.23	0.30	0.52		
16	0.30	0.00	0.16	0.33	0.06	0.85	1.51	0.94	0.16	0.23	0.30	0.52		
17	0.30	0.00	0.18	0.33	0.06	0.76	1.33	0.85	0.18	0.23	0.33	0.52		
18	0.27	0.00	0.18	0.35	0.06	0.70	1.12	0.73	0.20	0.20	0.33	0.52		
19	0.27	0.00	0.18	0.35	0.06	0.65	1.06	0.63	0.20	0.20	0.35	0.52		
20	0.27	0.00	0.18	0.33	0.06	0.58	1.00	0.58	0.18	0.20	0.35	0.52		
21	0.27	0.00	0.18	0.23	0.08	1.09	0.97	0.58	0.14	0.20	0.35	0.52		
22	0.27	0.00	0.18	0.18	0.08	2.80	1.88	0.58	0.10	0.18	0.38	0.52		
23	0.27	0.00	0.18	0.10	0.08	2.16	5.05	0.58	0.10	0.18	0.38	0.50		
24	0.27	0.00	0.18	0.00	0.08	3.50	3.90	0.55	0.10	0.18	0.40	0.47		
25	0.27	0.00	0.18	0.00	0.08	6.32	3.04	0.52	0.10	0.16	0.40	0.47		
26	0.27	0.00	0.20	0.00	0.08	8.49	2.36	0.50	0.10	0.16	0.40	0.45		
27	0.27	0.52	0.20	0.33	0.23	6.26	1.54	0.47	0.10	0.16	0.40	0.40		
28	0.27	1.72	0.20	0.25	1.18	5.55	1.24	0.50	0.10	0.16	0.40	0.40		
29	0.27	0.79	0.25	0.12	2.12	6.51	1.18	0.52	0.10	0.14		0.40		
30	0.30	0.70	0.58	0.12	2.64	6.94	1.15	0.85	0.10	0.14		0.40		
31		0.52		0.14	1.06		0.85		0.12	0.14		0.40		
Total	9.06	7.45	5.74	8.27	12.11	65.61	80.17	45.82	7.38	5.75	8.58	13.85	269.79	CMSDAY
Mean	0.30	0.24	0.19	0.27	0.39	2.19	2.59	1.53	0.24	0.19	0.31	0.45	0.74	CMS
Max	0.33	1.72	0.58	1.00	2.64	8.49	7.56	5.50	0.91	0.25	0.40	0.52	8.49	CMS
Min	0.27	0.00	0.16	0.00	0.06	0.38	0.85	0.47	0.10	0.12	0.16	0.40	0.00	CMS
Runoff	0.78	0.64	0.50	0.72	1.05	5.67	6.93	3.96	0.64	0.50	0.74	1.20	23.31	MCM

Momentary Peak 9.43 CMS, at 194.89 m. (MSL.), at 06.00 Hours, on Sep 26, 2014

Runoff Yield 1.96 Liters/Second/Square KM. Momentary Peak Yield 24.947 Liters/Second/Square KM.

WATER YEAR : 2014

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.

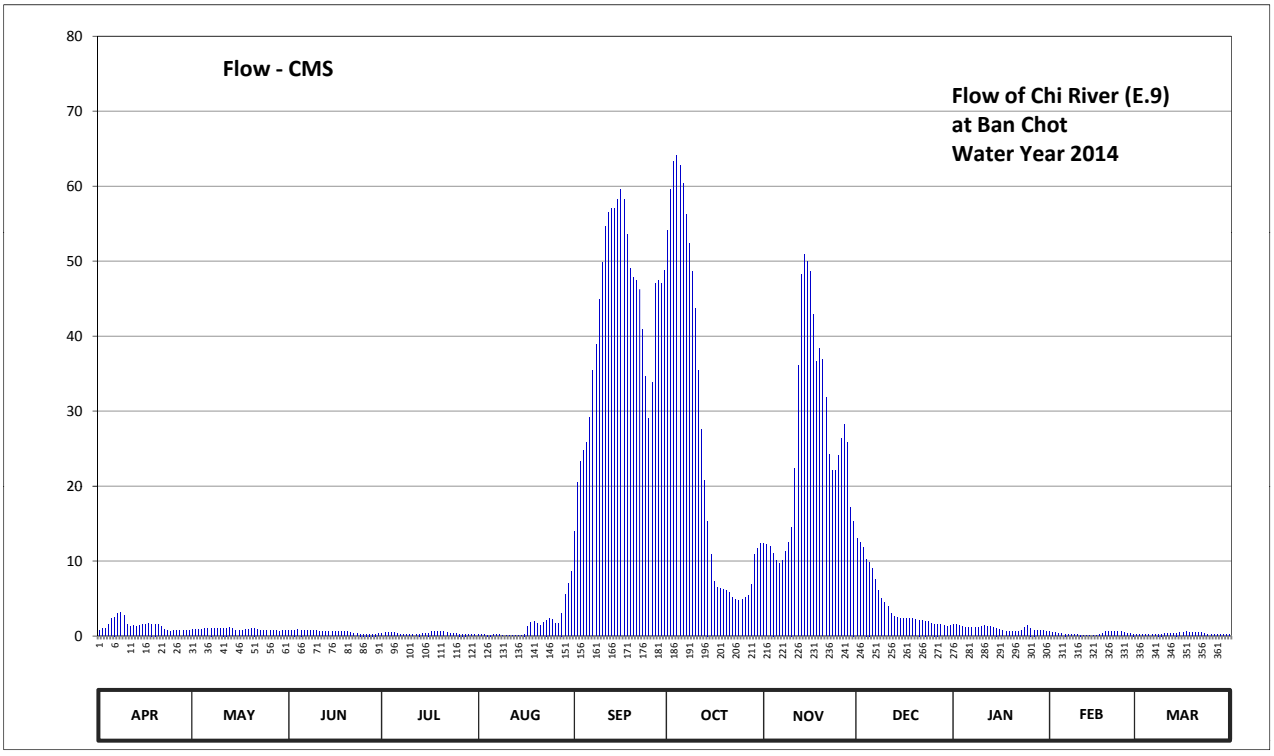
Ban Chot **Amphoe** Manchakhiri **Changwat** Khon Kaen

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 Flot	-
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.33	152.39	152.36	152.22	151.96	153.87	156.17	153.74	153.80	152.50	152.28	152.10	
2	152.41	152.38	152.36	152.25	151.96	154.34	156.40	153.73	153.76	152.50	152.27	152.07	
3	152.41	152.40	152.37	152.26	151.95	154.52	156.55	153.71	153.70	152.49	152.25	152.06	
4	152.50	152.40	152.40	152.24	151.87	154.61	156.58	153.64	153.57	152.47	152.22	152.07	
5	152.64	152.41	152.37	152.24	151.88	154.68	156.53	153.55	153.53	152.45	152.18	152.09	
6	152.68	152.42	152.36	152.20	151.91	154.89	156.43	153.51	153.45	152.44	152.15	152.10	
7	152.76	152.43	152.33	152.12	151.92	155.24	156.26	153.55	153.30	152.44	152.11	152.11	
8	152.78	152.41	152.35	152.12	151.91	155.43	156.10	153.66	153.16	152.44	152.03	152.14	
9	152.71	152.42	152.36	152.09	151.83	155.74	155.93	153.76	153.06	152.45	151.95	152.16	
10	152.51	152.42	152.35	152.09	151.67	155.99	155.68	153.92	153.01	152.46	151.92	152.17	
11	152.47	152.43	152.32	152.09	151.57	156.19	155.24	154.46	152.92	152.48	151.87	152.20	
12	152.48	152.43	152.32	152.09	151.47	156.27	154.79	155.28	152.76	152.47	151.81	152.22	
13	152.47	152.45	152.31	152.14	151.44	156.29	154.36	155.91	152.69	152.46	151.75	152.21	
14	152.48	152.42	152.29	152.21	151.41	156.29	153.98	156.04	152.66	152.44	151.72	152.23	
15	152.50	152.33	152.28	152.19	151.69	156.34	153.62	156.00	152.65	152.43	151.66	152.25	
16	152.51	152.34	152.28	152.23	152.15	156.40	153.28	155.93	152.65	152.39	151.69	152.27	
17	152.53	152.36	152.28	152.30	152.46	156.34	153.20	155.64	152.64	152.34	151.94	152.28	
18	152.52	152.38	152.29	152.32	152.56	156.15	153.19	155.31	152.64	152.32	152.19	152.26	
19	152.52	152.40	152.31	152.30	152.58	155.95	153.17	155.40	152.65	152.29	152.30	152.26	
20	152.51	152.41	152.29	152.30	152.54	155.89	153.16	155.32	152.63	152.30	152.32	152.25	
21	152.47	152.43	152.27	152.28	152.49	155.87	153.14	155.04	152.61	152.31	152.32	152.25	
22	152.38	152.40	152.21	152.24	152.56	155.81	153.07	154.58	152.60	152.31	152.31	152.24	
23	152.34	152.36	152.17	152.20	152.61	155.54	153.05	154.44	152.59	152.35	152.30	152.20	
24	152.31	152.35	152.15	152.17	152.65	155.20	153.03	154.44	152.58	152.44	152.28	152.10	
25	152.34	152.35	152.15	152.17	152.63	154.88	153.05	154.57	152.54	152.48	152.24	152.07	
26	152.35	152.34	152.16	152.14	152.54	155.15	153.07	154.71	152.52	152.43	152.21	152.05	
27	152.33	152.34	152.15	152.13	152.53	155.85	153.10	154.83	152.52	152.37	152.17	152.04	
28	152.33	152.33	152.15	152.13	152.77	155.87	153.24	154.68	152.50	152.36	152.14	152.03	
29	152.35	152.31	152.15	152.10	153.11	155.85	153.62	154.12	152.48	152.36		152.02	
30	152.35	152.33	152.17	152.06	153.25	155.94	153.69	153.98	152.47	152.34		152.01	
31		152.35		152.00	153.41		153.75		152.49	152.31		151.95	
Mean	152.48	152.38	152.28	152.18	152.23	155.58	154.40	154.58	152.88	152.41	152.09	152.14	
Max	152.78	152.45	152.40	152.32	153.41	156.40	156.58	156.04	153.80	152.50	152.32	152.28	156.58
Min	152.31	152.31	152.15	152.00	151.41	153.87	153.03	153.51	152.47	152.29	151.66	151.95	151.41

Annual Max Momentary Gage Height	156.59	m. (MSL.) ,	at 01.00 Hours, on Oct 4, 2014		
Zero Gage at Bottom Elevation	151.11	m. (MSL.) ,	River Bed	149.07	m. (MSL.)
Left Bank Elevation	164.09	m. (MSL.) ,			
Right Bank Elevation	162.33	m. (MSL.) ,	Drainage Area	10878	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.69	0.87	0.78	0.36	0.18	13.91	54.08	12.28	13.00	1.48	0.54	0.25		
2	0.96	0.84	0.78	0.45	0.18	20.44	59.60	12.16	12.52	1.48	0.51	0.24		
3	0.96	0.90	0.81	0.48	0.18	23.32	63.30	11.92	11.80	1.43	0.45	0.23		
4	1.48	0.90	0.90	0.42	0.14	24.76	64.08	11.08	10.29	1.31	0.36	0.24		
5	2.30	0.96	0.81	0.42	0.14	25.88	62.78	10.08	9.88	1.19	0.29	0.25		
6	2.53	1.02	0.78	0.30	0.16	29.24	60.32	9.67	9.05	1.13	0.27	0.25		
7	3.00	1.07	0.69	0.26	0.16	35.42	56.24	10.08	7.50	1.13	0.26	0.26		
8	3.12	0.96	0.75	0.26	0.16	38.84	52.40	11.32	6.05	1.13	0.22	0.27		
9	2.71	1.02	0.78	0.25	0.13	44.85	48.61	12.52	5.02	1.19	0.18	0.28		
10	1.54	1.02	0.75	0.25	0.09	49.80	43.66	14.56	4.50	1.25	0.16	0.29		
11	1.31	1.07	0.66	0.25	0.07	54.56	35.42	22.36	3.93	1.37	0.14	0.30		
12	1.37	1.07	0.66	0.25	0.05	56.48	27.64	36.14	3.00	1.31	0.12	0.36		
13	1.31	1.19	0.63	0.27	0.05	56.96	20.76	48.22	2.59	1.25	0.11	0.33		
14	1.37	1.02	0.57	0.33	0.04	56.96	15.34	50.96	2.42	1.13	0.10	0.39		
15	1.48	0.69	0.54	0.30	0.10	58.16	10.84	50.00	2.36	1.07	0.09	0.45		
16	1.54	0.72	0.54	0.39	0.27	59.60	7.29	48.61	2.36	0.87	0.10	0.51		
17	1.66	0.78	0.54	0.60	1.25	58.16	6.47	42.87	2.30	0.72	0.17	0.54		
18	1.60	0.84	0.57	0.66	1.83	53.60	6.36	36.68	2.30	0.66	0.30	0.48		
19	1.60	0.90	0.63	0.60	1.95	49.01	6.16	38.30	2.36	0.57	0.60	0.48		
20	1.54	0.96	0.57	0.60	1.72	47.82	6.05	36.86	2.24	0.60	0.66	0.45		
21	1.31	1.07	0.51	0.54	1.43	47.43	5.85	31.82	2.13	0.63	0.66	0.45		
22	0.84	0.90	0.33	0.42	1.83	46.24	5.12	24.28	2.07	0.63	0.63	0.42		
23	0.72	0.78	0.29	0.30	2.13	40.89	4.92	22.04	2.01	0.75	0.60	0.30		
24	0.63	0.75	0.27	0.29	2.36	34.70	4.71	22.04	1.95	1.13	0.54	0.25		
25	0.72	0.75	0.27	0.29	2.24	29.08	4.92	24.12	1.72	1.37	0.42	0.24		
26	0.75	0.72	0.28	0.27	1.72	33.80	5.12	26.36	1.60	1.07	0.33	0.23		
27	0.69	0.72	0.27	0.27	1.66	47.03	5.43	28.28	1.60	0.81	0.29	0.22		
28	0.69	0.69	0.27	0.27	3.06	47.43	6.88	25.88	1.48	0.78	0.27	0.22		
29	0.75	0.63	0.27	0.25	5.54	47.03	10.84	17.18	1.37	0.78		0.21		
30	0.75	0.69	0.29	0.23	6.98	48.81	11.68	15.34	1.31	0.72		0.20		
31		0.75		0.20	8.64		12.40		1.43	0.63		0.18		
Total	41.92	27.25	16.79	11.03	46.44	1280.21	785.27	764.01	134.14	31.57	9.37	9.77	3157.77	CMSDAY
Mean	1.40	0.88	0.56	0.36	1.50	42.67	25.33	25.47	4.33	1.02	0.33	0.32	8.65	CMS
Max	3.12	1.19	0.90	0.66	8.64	59.60	64.08	50.96	13.00	1.48	0.66	0.54	64.08	CMS
Min	0.63	0.63	0.27	0.20	0.04	13.91	4.71	9.67	1.31	0.57	0.09	0.18	0.04	CMS
Runoff	3.62	2.35	1.45	0.95	4.01	110.61	67.85	66.01	11.59	2.73	0.81	0.84	272.83	MCM

Momentary Peak 64.34 CMS, at 156.59 m. (MSL.), at 01.00 Hours, on Oct 4, 2014

Runoff Yield 0.80 Liters/Second/Square KM. Momentary Peak Yield 5.915 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

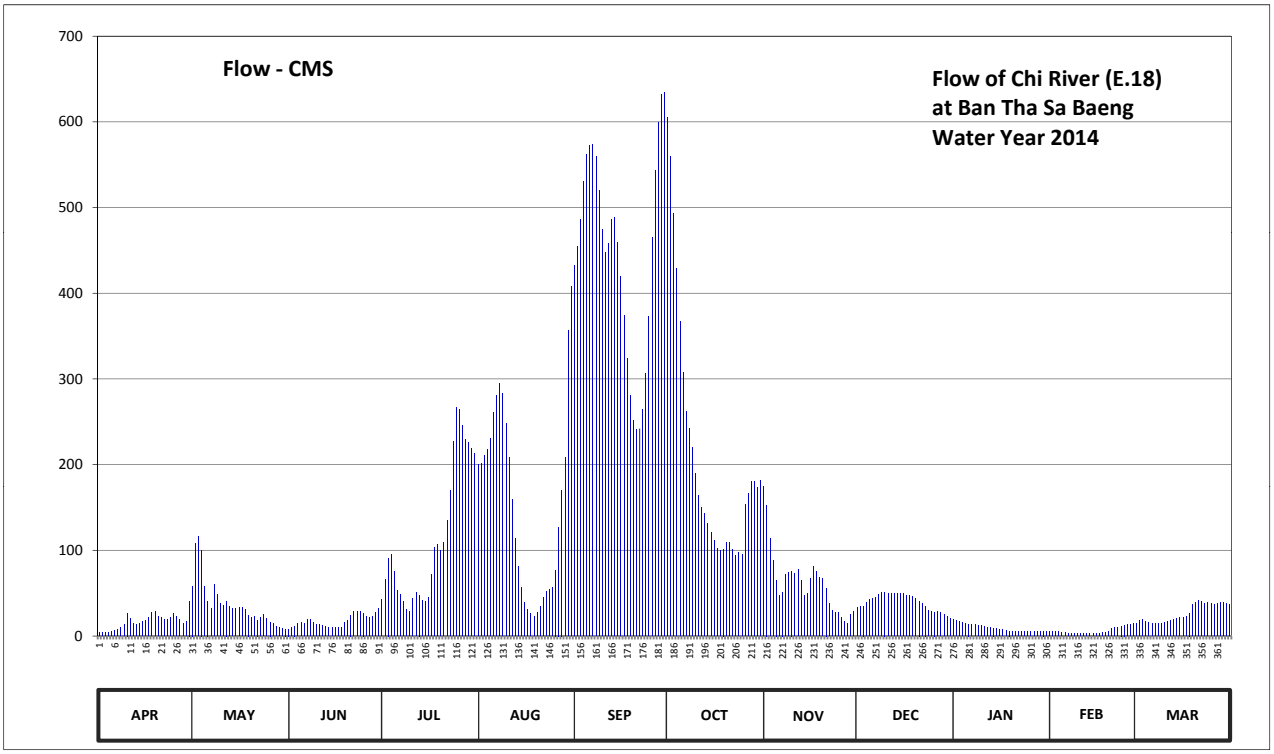
Location : on right bank at Ban Tha Sa Bang.

	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 Flot	-		
Rated by Current Meter	1974 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 58 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.03	125.08	122.82	124.17	126.28	128.29	129.45	125.99	124.67	124.33	123.18	124.20	
2	123.00	125.53	122.96	124.64	126.30	128.46	129.17	125.79	124.71	124.30	123.15	124.30	
3	123.02	125.59	123.14	125.03	126.40	128.69	128.74	125.57	124.72	124.26	123.13	124.33	
4	123.05	125.48	123.27	125.09	126.48	128.99	128.26	125.38	124.81	124.22	123.09	124.28	
5	123.10	125.07	123.32	124.78	126.62	129.19	127.79	125.16	124.86	124.17	123.03	124.23	
6	123.29	124.83	123.26	124.38	126.92	129.25	127.32	124.94	124.88	124.10	122.94	124.18	
7	123.49	124.65	123.47	124.29	127.10	129.26	126.93	124.99	124.90	124.05	122.84	124.18	
8	123.68	124.52	123.46	124.11	127.22	129.17	126.73	125.23	124.95	124.00	122.75	124.18	
9	124.05	124.29	123.33	123.84	127.12	128.92	126.50	125.25	124.98	123.97	122.67	124.20	
10	124.52	124.06	123.22	123.76	126.79	128.60	126.16	125.27	124.99	123.89	122.63	124.23	
11	124.37	123.99	123.20	124.19	126.38	128.41	125.88	125.24	124.97	123.81	122.65	124.26	
12	124.18	124.12	123.16	124.33	125.83	128.49	125.72	125.29	124.97	123.74	122.70	124.30	
13	124.08	123.96	123.09	124.28	125.32	128.69	125.64	125.15	124.97	123.67	122.70	124.34	
14	124.20	123.88	123.03	124.14	124.87	128.70	125.52	124.94	124.97	123.62	122.68	124.37	
15	124.26	123.89	123.04	124.10	124.45	128.50	125.40	124.96	124.97	123.56	122.67	124.39	
16	124.31	123.90	123.02	124.22	124.08	128.19	125.29	125.18	124.96	123.49	122.67	124.40	
17	124.38	123.93	122.94	124.73	123.83	127.85	125.18	125.32	124.94	123.41	122.76	124.42	
18	124.53	123.84	123.04	125.19	123.68	127.46	125.15	125.26	124.93	123.33	122.93	124.52	
19	124.57	123.64	123.36	125.24	123.59	127.10	125.17	125.19	124.92	123.25	123.06	124.75	
20	124.41	123.56	123.42	125.15	123.73	126.83	125.26	125.18	124.88	123.19	123.22	124.80	
21	124.38	123.59	123.64	125.26	123.95	126.72	125.27	125.05	124.83	123.19	123.53	124.84	
22	124.34	123.45	123.76	125.55	124.22	126.73	125.16	124.79	124.79	123.16	123.74	124.82	
23	124.34	123.54	123.76	125.94	124.35	126.96	125.07	124.59	124.72	123.11	123.75	124.79	
24	124.39	123.66	123.77	126.58	124.41	127.31	125.12	124.54	124.60	123.11	123.87	124.80	
25	124.50	123.50	123.71	126.98	124.46	127.84	125.09	124.54	124.56	123.11	123.98	124.79	
26	124.42	123.37	123.57	126.95	124.81	128.54	125.76	124.40	124.55	123.11	124.04	124.75	
27	124.34	123.26	123.54	126.77	125.47	129.07	125.90	124.25	124.56	123.11	124.07	124.78	
28	124.17	123.08	123.57	126.61	125.95	129.41	126.06	124.19	124.53	123.15	124.11	124.81	
29	124.28	122.97	123.73	126.57	126.38	129.60	126.06	124.47	124.48	123.22		124.81	
30	124.83	122.88	123.87	126.49	127.71	129.61	125.98	124.57	124.42	123.23		124.78	
31		122.81		126.43	128.10		126.08		124.37	123.20		124.76	
Mean	124.05	124.00	123.35	125.15	125.57	128.36	126.22	125.02	124.79	123.58	123.16	124.50	
Max	124.83	125.59	123.87	126.98	128.10	129.61	129.45	125.99	124.99	124.33	124.11	124.84	129.61
Min	123.00	122.81	122.82	123.76	123.59	126.72	125.07	124.19	124.37	123.11	122.63	124.18	122.63

Annual Max Momentary Gage Height	129.64	m. (MSL.) ,	at 01.00 Hours, on Sep 30, 2014		
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 Area	41187	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.24	58.40	8.20	42.80	200.20	432.49	605.50	174.10	32.80	19.20	5.44	15.00		
2	4.00	107.50	9.60	66.50	202.00	454.76	559.20	153.00	34.50	18.00	5.20	18.00		
3	4.16	116.50	11.80	91.10	211.00	486.60	493.60	113.50	35.00	16.80	5.04	19.20		
4	4.40	100.40	14.40	95.30	218.20	530.50	428.56	87.80	39.60	15.60	4.72	17.40		
5	4.80	57.60	15.40	75.25	231.00	562.40	366.99	65.40	42.60	14.70	4.24	15.90		
6	6.32	40.80	14.20	53.00	261.00	572.00	307.40	47.80	43.80	14.00	3.76	14.80		
7	7.92	32.00	19.22	48.50	281.00	573.60	262.00	51.30	45.00	13.50	3.36	14.80		
8	9.80	60.00	18.90	40.40	295.40	559.20	242.00	72.00	48.50	13.00	3.00	14.80		
9	13.50	48.50	15.60	30.93	283.40	520.00	220.00	74.00	50.60	12.70	2.68	15.00		
10	26.80	38.40	13.40	28.40	248.00	474.00	189.40	76.00	51.30	11.90	2.52	15.90		
11	20.80	35.68	13.00	43.60	209.20	448.21	164.20	73.00	49.90	11.10	2.60	16.80		
12	14.80	40.80	12.20	50.50	159.70	458.69	149.80	78.00	49.90	10.40	2.80	18.00		
13	13.80	34.73	10.90	48.00	113.80	486.60	142.60	64.50	49.90	9.70	2.80	19.60		
14	15.00	32.20	10.30	41.60	80.88	488.00	131.80	47.80	49.90	9.20	2.72	20.80		
15	16.80	32.52	10.40	40.00	56.50	460.00	121.00	49.20	49.90	8.60	2.68	21.60		
16	18.40	32.83	10.20	45.00	39.20	419.39	111.20	67.20	49.20	7.92	2.68	22.00		
17	21.20	33.78	9.40	72.13	30.62	374.85	102.40	81.20	47.80	7.28	3.04	22.80		
18	27.20	30.93	10.40	103.20	25.87	324.20	100.00	75.00	47.10	6.64	3.72	26.80		
19	28.80	24.60	16.20	107.20	23.02	281.00	101.60	68.10	46.40	6.00	4.48	36.50		
20	22.40	22.07	17.63	100.00	27.45	252.00	108.80	67.20	43.80	5.52	5.76	39.00		
21	21.20	23.02	24.60	108.80	34.42	241.00	109.60	56.00	40.80	5.52	8.30	41.40		
22	19.60	18.58	28.40	134.50	45.00	242.00	100.80	38.50	38.50	5.28	10.40	40.20		
23	19.60	21.43	28.40	169.60	51.50	265.00	93.90	29.60	35.00	4.88	10.50	38.50		
24	21.60	25.23	28.72	227.20	54.50	306.20	97.60	27.60	30.00	4.88	11.70	39.00		
25	26.00	20.17	26.82	267.00	57.00	373.54	95.30	27.60	28.40	4.88	12.80	38.50		
26	22.80	16.40	22.38	264.00	77.12	465.60	153.40	22.00	28.00	4.88	13.40	36.50		
27	19.60	14.20	21.43	246.00	127.30	543.20	166.00	16.50	28.40	4.88	13.70	38.00		
28	14.70	10.80	22.38	230.00	170.50	598.70	180.40	14.90	27.20	5.20	14.10	39.60		
29	17.40	9.70	27.45	226.30	209.20	632.00	180.40	24.80	25.20	5.76		39.60		
30	40.80	8.80	31.88	219.10	356.51	633.80	173.20	28.80	22.80	5.84		38.00		
31		8.10		213.70	407.60		182.20		20.80	5.60		37.00		
Total	508.44	1156.67	523.81	3529.61	4788.09	13459.53	6440.85	1872.40	1232.60	289.36	168.14	831.00	34800.50	CMSDAY
Mean	16.95	37.31	17.46	113.86	154.45	448.65	207.77	62.41	39.76	9.33	6.01	26.81	95.34	CMS
Max	40.80	116.50	31.88	267.00	407.60	633.80	605.50	174.10	51.30	19.20	14.10	41.40	633.80	CMS
Min	4.00	8.10	8.20	28.40	23.02	241.00	93.90	14.90	20.80	4.88	2.52	14.80	2.52	CMS
Runoff	43.93	99.94	45.26	304.96	413.69	1162.90	556.49	161.78	106.50	25.00	14.53	71.80	3006.76	MCM

Momentary Peak 639.20 CMS, at 129.64 m. (MSL.), at 01.00 Hours, on Sep 30, 2014

Runoff Yield 2.31 Liters/Second/Square KM. Momentary Peak Yield 15.519 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

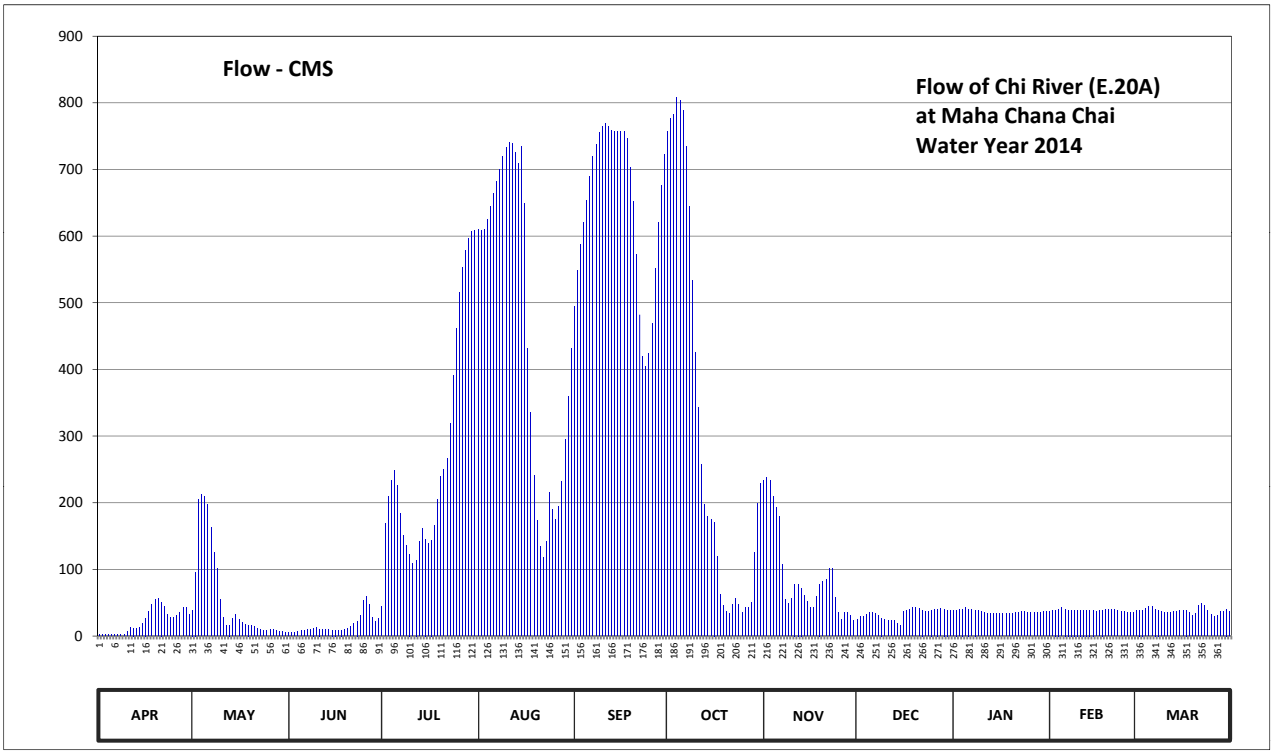
Location : on right bank about 800 meters upstream from E.20 station.

	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** +126.610 m. (MSL.)		
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings				
Period of Available Gage Records	1973 to date				
Rating Operation					
Period of Rating	1974 to date				
Rated by Flot	-				
Rated by Current Meter	1974 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Tat Noi barrage situated downstream from the gage site.				
	Stage-discharge relation defined by 23 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.37	116.05	114.85	116.11	119.97	119.28	120.76	117.27	115.84	116.04	116.03	116.04	
2	114.37	116.45	114.85	116.58	119.96	119.61	120.86	117.31	115.92	116.05	116.04	116.05	
3	114.38	116.98	114.86	117.02	119.97	119.84	120.89	117.26	115.92	116.06	116.05	116.05	
4	114.40	117.06	114.96	117.26	120.06	120.03	121.01	117.02	115.97	116.07	116.07	116.08	
5	114.39	117.02	115.10	117.42	120.17	120.22	120.99	116.86	116.00	116.09	116.09	116.11	
6	114.38	116.90	115.14	117.19	120.28	120.41	120.92	116.70	116.00	116.07	116.07	116.11	
7	114.39	116.66	115.24	116.75	120.37	120.57	120.65	116.49	115.98	116.06	116.05	116.07	
8	114.44	116.55	115.31	116.38	120.47	120.66	120.17	116.24	115.94	116.05	116.05	116.05	
9	114.53	116.47	115.40	116.21	120.57	120.75	119.52	116.18	115.88	116.04	116.05	116.02	
10	114.93	116.23	115.45	116.05	120.64	120.80	118.85	116.25	115.83	116.02	116.05	116.00	
11	115.41	115.89	115.33	115.86	120.68	120.82	118.23	116.38	115.80	116.00	116.05	116.00	
12	115.40	115.59	115.29	115.93	120.67	120.80	117.50	116.38	115.80	115.99	116.05	116.01	
13	115.38	115.62	115.30	116.28	120.60	120.77	116.90	116.35	115.80	115.98	116.05	116.02	
14	115.43	115.87	115.22	116.50	120.52	120.76	116.71	116.29	115.68	115.98	116.05	116.02	
15	115.67	115.96	115.21	116.33	120.65	120.76	116.69	116.21	115.61	115.98	116.05	116.04	
16	115.88	115.85	115.20	116.25	120.19	120.76	116.68	116.09	116.02	115.99	116.03	116.04	
17	116.03	115.74	115.18	116.31	118.89	120.76	116.53	116.09	116.04	115.99	116.04	116.05	
18	116.16	115.65	115.20	116.55	118.16	120.71	116.30	116.28	116.06	115.99	116.05	116.01	
19	116.24	115.62	115.23	116.98	117.34	120.48	116.13	116.38	116.09	115.99	116.06	115.93	
20	116.25	115.59	115.34	117.32	116.64	120.21	116.02	116.40	116.10	115.99	116.06	115.99	
21	116.20	115.51	115.51	117.43	116.19	119.75	115.98	116.41	116.08	116.00	116.06	116.14	
22	116.11	115.38	115.68	117.58	115.98	119.20	116.16	116.47	116.05	116.01	116.06	116.18	
23	115.97	115.25	115.79	118.03	116.29	118.81	116.25	116.47	116.02	116.02	116.04	116.14	
24	115.90	115.13	115.95	118.60	117.08	118.70	116.15	116.26	116.02	116.02	116.03	116.04	
25	115.89	115.12	116.22	119.07	116.83	118.83	116.01	116.01	116.05	116.01	116.02	115.96	
26	115.93	115.22	116.27	119.41	116.65	119.12	116.09	115.84	116.06	116.01	116.01	115.92	
27	116.01	115.30	116.15	119.64	116.87	119.63	116.09	116.00	116.07	116.00	116.01	115.94	
28	116.10	115.11	115.89	119.79	117.25	120.03	116.19	116.00	116.08	116.00	116.01	116.03	
29	116.09	114.97	115.78	119.89	117.83	120.34	116.55	115.94	116.07	116.01		116.02	
30	115.97	114.92	115.87	119.95	118.36	120.59	116.92	115.80	116.05	116.02		116.07	
31		114.88		119.96	118.88		117.22		116.04	116.03		116.02	
Mean	115.42	115.82	115.43	117.44	118.87	120.13	117.80	116.39	115.96	116.02	116.05	116.04	
Max	116.25	117.06	116.27	119.96	120.68	120.82	121.01	117.31	116.10	116.09	116.09	116.18	121.01
Min	114.37	114.88	114.85	115.86	115.98	118.70	115.98	115.80	115.61	115.98	116.01	115.92	114.37

Annual Max Momentary Gage Height	121.02	m. (MSL.) ,	at 06.00 Hours, on Oct 4, 2014		
Zero Gage at Bottom Elevation	112.00	m. (MSL.) ,	River Bed	111.51	m. (MSL.)
Left Bank Elevation	127.12	m. (MSL.) ,			
Right Bank Elevation	126.91	m. (MSL.) ,	Drainage Area	47800	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.85	39.00	5.50	43.80	609.90	494.80	757.00	234.00	25.00	38.20	37.40	38.20		
2	1.85	96.00	5.50	168.20	608.20	548.70	777.00	238.00	29.40	39.00	38.20	39.00		
3	1.90	205.00	5.60	209.00	609.90	587.80	783.00	233.00	29.40	39.80	39.00	39.00		
4	2.00	213.00	6.60	233.00	625.20	620.10	808.10	209.00	32.90	40.60	40.60	41.40		
5	1.95	209.00	8.00	249.20	644.60	653.60	803.90	193.40	35.00	42.20	42.20	43.80		
6	1.90	197.00	8.40	226.00	664.40	688.90	789.20	179.00	35.00	40.60	40.60	43.80		
7	1.95	163.40	9.40	183.50	681.30	719.30	735.00	107.20	33.60	39.80	39.00	40.60		
8	2.20	125.00	10.20	150.20	700.30	737.00	644.60	55.40	30.80	39.00	39.00	39.00		
9	2.65	101.60	12.00	135.80	719.30	755.00	533.40	49.40	27.00	38.20	39.00	36.60		
10	6.30	54.30	13.00	123.00	733.00	765.00	426.50	56.50	24.50	36.60	39.00	35.00		
11	12.20	27.50	10.60	109.20	741.00	769.00	343.60	78.00	23.00	35.00	39.00	35.00		
12	12.00	15.80	9.90	114.10	739.00	765.00	258.00	78.00	23.00	34.30	39.00	35.80		
13	11.60	16.60	10.00	141.40	725.00	759.00	197.00	72.00	23.00	33.60	39.00	36.60		
14	12.60	26.50	9.20	161.00	709.80	757.00	179.90	60.90	18.40	33.60	39.00	36.60		
15	18.10	32.20	9.10	145.70	735.00	757.00	175.10	52.10	16.30	33.60	39.00	38.20		
16	27.00	25.50	9.00	139.00	648.20	757.00	171.20	42.20	36.60	34.30	37.40	38.20		
17	37.40	20.60	8.80	143.90	432.50	757.00	119.00	42.20	38.20	34.30	38.20	39.00		
18	47.80	17.50	9.00	165.50	335.20	747.00	62.00	59.80	39.80	34.30	39.00	35.80		
19	55.40	16.60	9.30	205.00	241.00	702.20	45.40	78.00	42.20	34.30	39.80	30.10		
20	56.50	15.80	10.80	239.00	173.60	651.80	36.60	82.00	43.00	34.30	39.80	34.30		
21	51.00	14.20	14.20	250.30	134.20	572.50	33.60	84.80	41.40	35.00	39.80	46.20		
22	43.80	11.60	18.40	266.80	117.60	482.00	47.80	101.60	39.00	35.80	39.80	49.40		
23	32.90	9.50	22.60	319.60	142.20	420.50	56.50	101.60	36.60	36.60	38.20	46.20		
24	28.00	8.30	31.50	391.00	215.00	405.00	47.00	57.60	36.60	36.60	37.40	38.20		
25	27.50	8.20	53.20	461.20	190.70	423.50	35.80	35.80	39.00	35.80	36.60	32.20		
26	30.10	9.20	58.70	515.60	174.50	469.20	42.20	25.00	39.80	35.80	35.80	29.40		
27	35.80	10.00	47.00	553.80	194.30	552.10	42.20	35.00	40.60	35.00	35.80	30.80		
28	43.00	8.10	27.50	579.30	232.00	620.10	50.20	35.00	41.40	35.00	35.80	37.40		
29	42.20	6.70	22.20	596.30	295.60	675.60	125.00	30.80	40.60	35.80		36.60		
30	32.90	6.20	26.50	606.50	359.80	723.10	199.00	23.00	39.00	36.60		40.60		
31		5.80		608.20	431.00		229.00		38.20	37.40		36.60		
Total	682.35	1715.70	501.70	8434.10	14563.30	19335.80	9553.80	2730.30	1038.30	1131.00	1082.40	1179.60	61948.35	CMSDAY
Mean	22.75	55.35	16.72	272.07	469.78	644.53	308.19	91.01	33.49	36.48	38.66	38.05	169.72	CMS
Max	56.50	213.00	58.70	608.20	741.00	769.00	808.10	238.00	43.00	42.20	42.20	49.40	808.10	CMS
Min	1.85	5.80	5.50	43.80	117.60	405.00	33.60	23.00	16.30	33.60	35.80	29.40	1.85	CMS
Runoff	58.96	148.24	43.35	728.71	1258.27	1670.61	825.45	235.90	89.71	97.72	93.52	101.92	5352.34	MCM

Momentary Peak 810.20 CMS, at 121.02 m. (MSL.), at 06.00 Hours, on Oct 4, 2014

Runoff Yield 3.55 Liters/Second/Square KM. Momentary Peak Yield 16.950 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

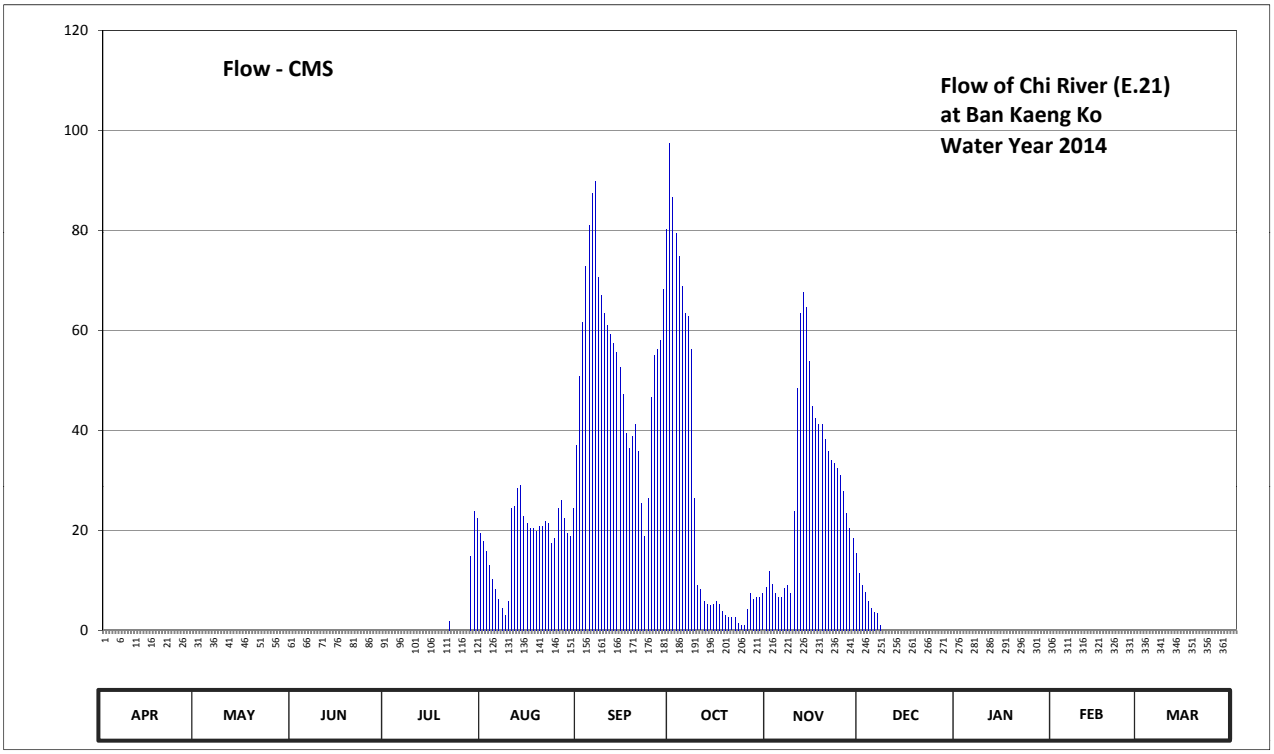
Location : on left bank about 75 meters upstream from the bridge on highway.

	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 Flot	-		
Rated by Current Meter	1968 - 1971 , 1973 - 1974 , 1982 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.69	165.57	165.25	165.48	167.48	168.08	168.62	167.35	167.26	166.38	166.07	165.30	
2	165.68	165.60	165.77	165.53	167.44	168.26	168.53	167.27	167.19	166.44	166.05	165.30	
3	165.68	165.64	165.87	165.66	167.38	168.44	168.47	167.17	167.10	166.46	166.04	165.30	
4	165.68	165.69	165.93	165.66	167.31	168.55	168.38	167.14	167.03	166.43	166.03	165.30	
5	165.68	165.77	165.92	165.65	167.22	168.63	168.29	167.14	166.99	166.41	166.01	165.31	
6	165.68	165.81	165.74	165.63	167.12	168.66	168.28	167.23	166.97	166.40	165.99	165.31	
7	165.68	165.83	165.46	165.64	167.03	168.41	168.17	167.26	166.86	166.35	165.97	165.31	
8	165.68	165.84	165.35	165.64	166.96	168.35	167.65	167.18	166.79	166.31	165.94	165.31	
9	165.67	165.84	165.27	165.66	167.10	168.29	167.25	167.60	166.78	166.29	165.93	165.31	
10	165.67	165.84	165.32	165.66	167.61	168.25	167.21	168.04	166.77	166.27	165.91	165.32	
11	165.67	165.84	165.80	165.66	167.62	168.22	167.10	168.29	166.75	166.24	165.90	165.32	
12	165.67	165.85	165.81	165.67	167.69	168.19	167.07	168.36	166.74	166.21	165.88	165.32	
13	165.67	165.85	165.83	165.68	167.70	168.16	167.05	168.31	166.71	166.20	165.84	165.32	
14	165.69	165.85	165.81	165.68	167.58	168.11	167.07	168.13	166.70	166.21	165.81	165.32	
15	165.71	165.85	165.82	165.69	167.55	168.02	167.10	167.98	166.68	166.20	165.78	165.31	
16	165.74	165.85	165.84	165.71	167.53	167.89	167.07	167.94	166.64	166.19	165.75	165.31	
17	165.75	165.85	165.81	165.73	167.53	167.84	167.00	167.92	166.61	166.18	165.74	165.31	
18	165.77	165.85	165.66	165.74	167.52	167.88	166.96	167.92	166.59	166.17	165.70	165.32	
19	165.77	165.83	165.69	165.75	167.54	167.92	166.94	167.87	166.57	166.18	165.55	165.33	
20	165.78	165.81	165.69	166.48	167.54	167.83	166.93	167.83	166.54	166.18	165.45	165.33	
21	165.76	165.71	165.68	166.90	167.56	167.63	166.94	167.80	166.51	166.19	165.39	165.33	
22	165.72	165.53	165.68	166.79	167.55	167.50	166.88	167.79	166.51	166.20	165.38	165.33	
23	165.64	165.39	165.66	166.73	167.47	167.65	166.85	167.77	166.52	166.19	165.36	165.33	
24	165.57	165.30	165.65	166.72	167.49	168.01	166.86	167.74	166.51	166.17	165.34	165.33	
25	165.56	165.21	165.63	166.69	167.61	168.15	167.02	167.68	166.51	166.15	165.33	165.34	
26	165.56	164.99	165.61	166.64	167.64	168.17	167.17	167.59	166.50	166.11	165.32	165.34	
27	165.56	164.98	165.60	166.78	167.57	168.20	167.12	167.53	166.46	166.10	165.31	165.34	
28	165.56	164.98	165.59	167.42	167.51	168.37	167.14	167.49	166.42	166.09	165.30	165.34	
29	165.56	164.98	165.55	167.60	167.50	168.54	167.14	167.43	166.42	166.08		165.33	
30	165.56	164.98	165.51	167.57	167.61	168.75	167.17	167.34	166.40	166.07		165.32	
31		164.98		167.51	167.85		167.24		166.37	166.07		165.32	
Mean	165.67	165.58	165.66	166.17	167.48	168.17	167.38	167.67	166.69	166.23	165.72	165.32	
Max	165.78	165.85	165.93	167.60	167.85	168.75	168.62	168.36	167.26	166.46	166.07	165.34	168.75
Min	165.56	164.98	165.25	165.48	166.96	167.50	166.85	167.14	166.37	166.07	165.30	165.30	164.98

Annual Max Momentary Gage Height	168.79	m. (MSL.) ,	at 06.00 Hours, on Sep 30, 2014		
Zero Gage at Bottom Elevation	164.98	m. (MSL.) ,	River Bed	163.49	m. (MSL.)
Left Bank Elevation	176.09	m. (MSL.) ,			
Right Bank Elevation	176.64	m. (MSL.) ,	Drainage Area	8777	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	18.00	50.80	86.60	12.00	9.20	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	16.00	61.60	79.40	9.40	7.80	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	13.20	72.80	74.90	7.40	6.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	10.40	81.00	68.80	6.80	4.60	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	8.40	87.40	63.40	6.80	3.80	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	6.40	89.80	62.80	8.60	3.40	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	4.60	70.70	56.20	9.20	1.20	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	3.20	67.00	26.50	7.60	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	6.00	63.40	9.00	24.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	24.50	61.00	8.20	48.40	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	25.00	59.20	6.00	63.40	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	28.50	57.40	5.40	67.60	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	29.00	55.60	5.00	64.60	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	23.00	52.60	5.40	53.80	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	21.50	47.20	6.00	44.80	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	20.50	39.40	5.40	42.40	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	20.50	36.40	4.00	41.20	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	20.00	38.80	3.20	41.20	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	21.00	41.20	2.80	38.20	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	21.00	35.80	2.60	35.80	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	2.00	22.00	25.50	2.80	34.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	21.50	19.00	1.60	33.50	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	17.50	26.50	1.00	32.50	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	18.50	46.60	1.20	31.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	24.50	55.00	4.40	28.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	26.00	56.20	7.40	23.50	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	22.50	58.00	6.40	20.50	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	15.00	19.50	68.20	6.80	18.50	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	24.00	19.00	80.20	6.80	15.50	0.00	0.00		0.00		
30	0.00	0.00	0.00	22.50	24.50	97.50	7.40	11.60	0.00	0.00		0.00		
31		0.00		19.50	37.00		8.80		0.00	0.00		0.00		
Total	0.00	0.00	0.00	83.00	593.20	1701.80	636.20	881.80	36.00	0.00	0.00	0.00	3932.00	CMSDAY
Mean	0.00	0.00	0.00	2.68	19.14	56.73	20.52	29.39	1.16	0.00	0.00	0.00	10.77	CMS
Max	0.00	0.00	0.00	24.00	37.00	97.50	86.60	67.60	9.20	0.00	0.00	0.00	97.50	CMS
Min	0.00	0.00	0.00	0.00	3.20	19.00	1.00	6.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	7.17	51.25	147.04	54.97	76.19	3.11	0.00	0.00	0.00	339.73	MCM

Momentary Peak 101.10 CMS, at 168.79 m. (MSL.), at 06.00 Hours, on Sep 30, 2014

Runoff Yield 1.23 Liters/Second/Square KM. Momentary Peak Yield 11.519 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

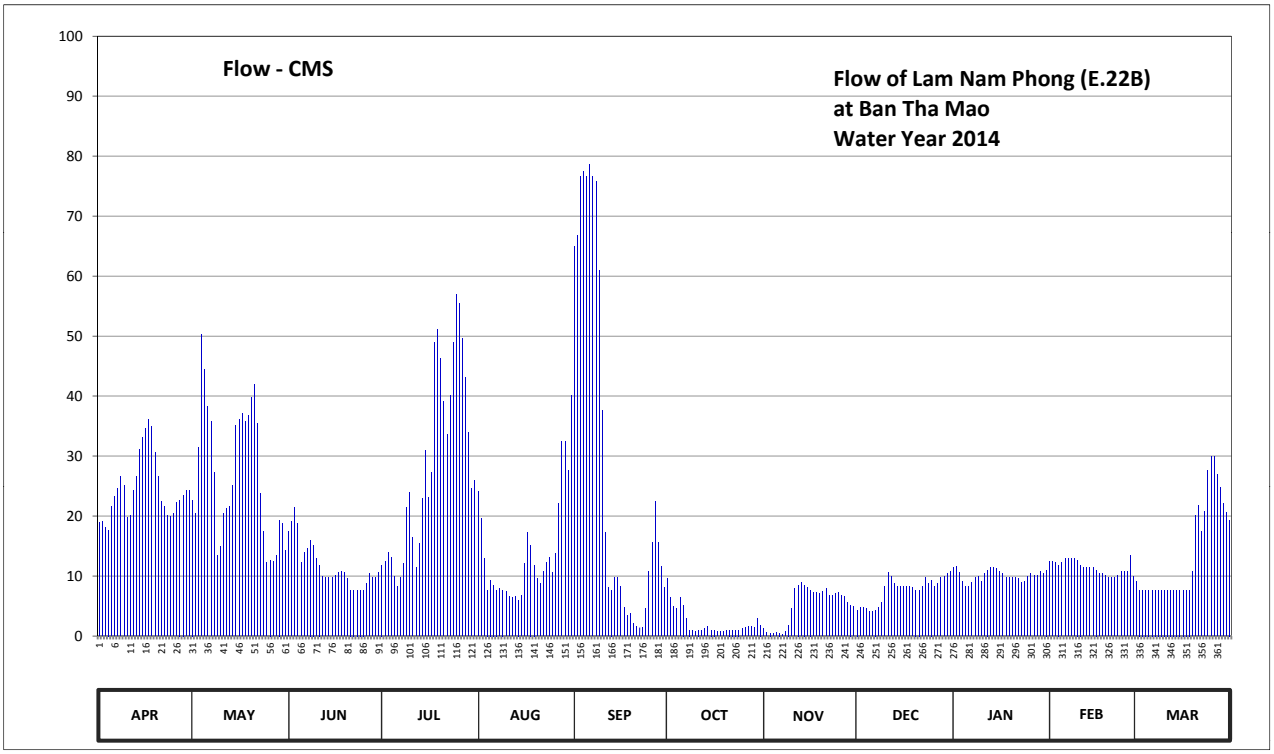
Location : on right bank at Ban Tha Mao.

	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 Flot	-		
Rated by Current Meter	1966 - 1972 , 1982 - 1987 , 1992 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. 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 21 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.96	152.14	151.89	151.62	152.21	153.57	151.51	151.11	151.26	151.60	151.65	151.49	
2	151.97	152.03	151.97	151.65	151.99	153.63	151.36	151.06	151.28	151.61	151.65	151.42	
3	151.92	152.48	152.08	151.72	151.67	153.89	151.29	151.05	151.28	151.56	151.64	151.42	
4	151.90	153.09	151.95	151.68	151.42	153.91	151.27	151.04	151.27	151.49	151.62	151.42	
5	152.09	152.90	151.64	151.53	151.50	153.89	151.36	151.06	151.25	151.45	151.64	151.42	
6	152.17	152.70	151.72	151.45	151.46	153.94	151.30	151.05	151.25	151.45	151.67	151.42	
7	152.23	152.62	151.75	151.52	151.42	153.89	151.19	151.03	151.26	151.48	151.67	151.42	
8	152.32	152.34	151.82	151.63	151.43	153.87	151.10	151.08	151.28	151.52	151.67	151.42	
9	152.26	151.70	151.78	152.08	151.42	153.44	151.09	151.14	151.32	151.53	151.67	151.42	
10	152.00	151.77	151.67	152.20	151.41	152.68	151.08	151.27	151.45	151.49	151.66	151.42	
11	152.02	152.03	151.62	151.84	151.37	151.88	151.10	151.43	151.56	151.55	151.62	151.42	
12	152.22	152.07	151.53	151.60	151.36	151.44	151.09	151.46	151.53	151.58	151.60	151.42	
13	152.32	152.09	151.52	151.79	151.37	151.42	151.11	151.48	151.47	151.60	151.60	151.42	
14	152.47	152.26	151.52	152.15	151.34	151.52	151.13	151.46	151.45	151.60	151.60	151.42	
15	152.53	152.60	151.52	152.46	151.38	151.52	151.10	151.44	151.45	151.59	151.60	151.42	
16	152.58	152.63	151.54	152.16	151.63	151.45	151.10	151.42	151.45	151.57	151.58	151.42	
17	152.63	152.66	151.56	152.34	151.88	151.28	151.08	151.40	151.45	151.55	151.55	151.42	
18	152.59	152.62	151.57	153.05	151.78	151.22	151.08	151.40	151.45	151.52	151.55	151.42	
19	152.45	152.65	151.56	153.12	151.62	151.23	151.08	151.39	151.44	151.52	151.54	151.57	
20	152.32	152.75	151.51	152.96	151.51	151.15	151.09	151.41	151.42	151.52	151.52	152.02	
21	152.13	152.82	151.42	152.73	151.47	151.13	151.10	151.43	151.42	151.52	151.52	152.10	
22	152.09	152.61	151.42	152.55	151.57	151.12	151.10	151.38	151.45	151.51	151.52	151.89	
23	152.02	152.19	151.42	152.76	151.64	151.12	151.10	151.38	151.52	151.48	151.54	152.05	
24	152.01	151.89	151.42	153.05	151.68	151.27	151.10	151.39	151.47	151.49	151.57	152.35	
25	152.03	151.64	151.42	153.31	151.56	151.57	151.11	151.40	151.50	151.53	151.57	152.43	
26	152.12	151.66	151.47	153.26	151.71	151.80	151.12	151.38	151.45	151.55	151.57	152.43	
27	152.14	151.65	151.55	153.07	152.11	152.13	151.13	151.37	151.47	151.54	151.70	152.33	
28	152.18	151.70	151.52	152.86	152.51	151.80	151.13	151.32	151.52	151.54	151.53	152.24	
29	152.22	151.98	151.52	152.56	152.51	151.61	151.12	151.30	151.53	151.57		152.11	
30	152.22	151.95	151.56	152.23	152.35	151.44	151.19	151.29	151.55	151.55		152.04	
31		151.74		152.30	152.76		151.14		151.57	151.58		151.98	
Mean	152.20	152.26	151.61	152.30	151.71	152.19	151.16	151.29	151.42	151.54	151.60	151.72	
Max	152.63	153.09	152.08	153.31	152.76	153.94	151.51	151.48	151.57	151.61	151.70	152.43	153.94
Min	151.90	151.64	151.42	151.45	151.34	151.12	151.08	151.03	151.25	151.45	151.52	151.42	151.03

Annual Max Momentary Gage Height	153.98	m. (MSL.) ,	at 06.00 Hours, on Sep 6, 2014		
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 Area	13638	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.92	22.67	17.46	11.83	24.13	65.01	9.54	1.21	4.33	11.42	12.46	9.13		
2	19.12	20.37	19.12	12.46	19.54	66.85	6.42	0.60	4.75	11.62	12.46	7.67		
3	18.08	31.53	21.42	13.92	12.87	76.60	4.96	0.50	4.75	10.58	12.25	7.67		
4	17.67	50.26	18.71	13.08	7.67	77.40	4.54	0.40	4.54	9.13	11.83	7.67		
5	21.62	44.43	12.25	9.96	9.33	76.60	6.42	0.60	4.12	8.29	12.25	7.67		
6	23.29	38.29	13.92	8.29	8.50	78.60	5.17	0.50	4.12	8.29	12.87	7.67		
7	24.54	35.83	14.54	9.75	7.67	76.60	2.87	0.30	4.33	8.92	12.87	7.67		
8	26.61	27.23	16.00	12.04	7.87	75.80	1.00	0.80	4.75	9.75	12.87	7.67		
9	25.17	13.50	15.17	21.42	7.67	61.01	0.90	1.83	5.58	9.96	12.87	7.67		
10	19.75	14.96	12.87	23.92	7.46	37.67	0.80	4.54	8.29	9.13	12.67	7.67		
11	20.17	20.37	11.83	16.42	6.62	17.25	1.00	7.87	10.58	10.37	11.83	7.67		
12	24.33	21.21	9.96	11.42	6.42	8.08	0.90	8.50	9.96	11.00	11.42	7.67		
13	26.61	21.62	9.75	15.37	6.62	7.67	1.21	8.92	8.71	11.42	11.42	7.67		
14	31.22	25.17	9.75	22.87	6.00	9.75	1.62	8.50	8.29	11.42	11.42	7.67		
15	33.06	35.21	9.75	30.91	6.83	9.75	1.00	8.08	8.29	11.21	11.42	7.67		
16	34.60	36.14	10.17	23.08	12.04	8.29	1.00	7.67	8.29	10.79	11.00	7.67		
17	36.14	37.06	10.58	27.23	17.25	4.75	0.80	7.25	8.29	10.37	10.37	7.67		
18	34.91	35.83	10.79	49.04	15.17	3.50	0.80	7.25	8.29	9.75	10.37	7.67		
19	30.61	36.75	10.58	51.19	11.83	3.71	0.80	7.04	8.08	9.75	10.17	10.79		
20	26.61	39.82	9.54	46.27	9.54	2.04	0.90	7.46	7.67	9.75	9.75	20.17		
21	22.46	41.97	7.67	39.21	8.71	1.62	1.00	7.87	7.67	9.75	9.75	21.83		
22	21.62	35.52	7.67	33.68	10.79	1.42	1.00	6.83	8.29	9.54	9.75	17.46		
23	20.17	23.71	7.67	40.13	12.25	1.42	1.00	6.83	9.75	8.92	10.17	20.79		
24	19.96	17.46	7.67	49.04	13.08	4.54	1.00	7.04	8.71	9.13	10.79	27.54		
25	20.37	12.25	7.67	57.02	10.58	10.79	1.21	7.25	9.33	9.96	10.79	29.99		
26	22.25	12.67	8.71	55.49	13.71	15.58	1.42	6.83	8.29	10.37	10.79	29.99		
27	22.67	12.46	10.37	49.65	22.04	22.46	1.62	6.62	8.71	10.17	13.50	26.92		
28	23.50	13.50	9.75	43.20	32.45	15.58	1.62	5.58	9.75	10.17	9.96	24.75		
29	24.33	19.33	9.75	33.99	32.45	11.62	1.42	5.17	9.96	10.79		22.04		
30	24.33	18.71	10.58	24.54	27.54	8.08	2.87	4.96	10.37	10.37		20.58		
31		14.33		26.00	40.13		1.83		10.79	11.00		19.33		
Total	734.69	830.16	351.67	882.42	434.76	860.04	68.64	154.80	237.63	313.09	320.07	431.70	5619.67	CMSDAY
Mean	24.49	26.78	11.72	28.47	14.02	28.67	2.21	5.16	7.67	10.10	11.43	13.93	15.40	CMS
Max	36.14	50.26	21.42	57.02	40.13	78.60	9.54	8.92	10.79	11.62	13.50	29.99	78.60	CMS
Min	17.67	12.25	7.67	8.29	6.00	1.42	0.80	0.30	4.12	8.29	9.75	7.67	0.30	CMS
Runoff	63.48	71.73	30.38	76.24	37.56	74.31	5.93	13.38	20.53	27.05	27.65	37.30	485.54	MCM

Momentary Peak 80.20 CMS, at 153.98 m. (MSL.), at 06.00 Hours, on Sep 6, 2014

Runoff Yield 1.13 Liters/Second/Square KM. Momentary Peak Yield 5.881 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

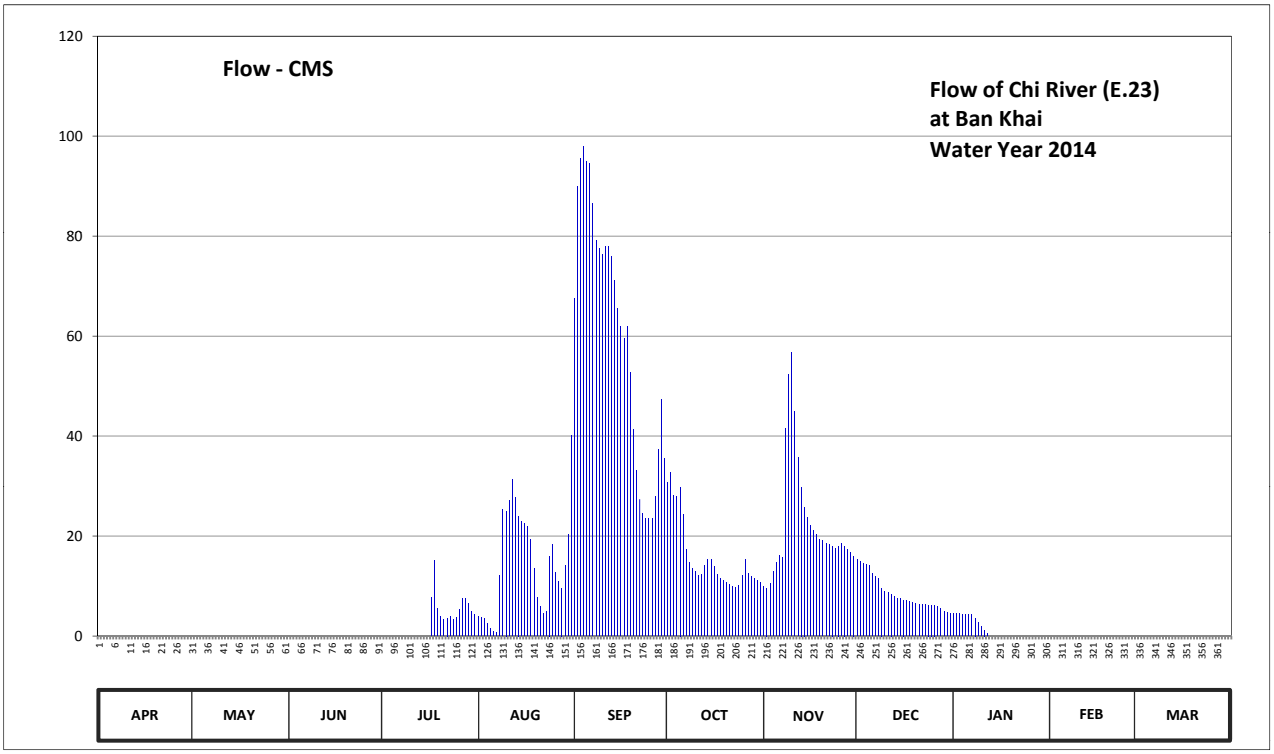
Location : on left bank at the bridge on highway.

	Ban Khai	**Amphoe** Mueang	**Changwat** Chaiyaphum
Drainge Area	6,282 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+176.200 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank about 20 meters from the automatic gage building.	**Elevation**	+185.546 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 Flot	-		
Rated by Current Meter	1968 - 1974 , 1982 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.38	179.14	179.23	178.46	179.72	181.99	180.95	180.09	180.36	179.76	179.28	179.23	
2	178.37	179.16	179.21	178.35	179.71	182.50	181.02	180.07	180.34	179.76	179.27	179.22	
3	178.38	179.13	179.20	178.18	179.69	182.61	180.86	180.12	180.32	179.76	179.26	179.22	
4	178.38	178.99	179.18	178.28	179.61	182.65	180.85	180.24	180.31	179.75	179.26	179.22	
5	178.43	178.95	179.17	178.68	179.53	182.60	180.92	180.33	180.30	179.75	179.26	179.20	
6	178.73	178.94	179.15	178.67	179.47	182.59	180.71	180.40	180.22	179.75	179.26	179.16	
7	178.97	178.95	179.14	178.66	179.46	182.43	180.44	180.38	180.19	179.75	179.26	179.11	
8	178.95	178.95	179.13	178.69	180.20	182.28	180.33	181.29	180.17	179.70	179.26	179.05	
9	178.93	178.95	179.10	178.52	180.75	182.24	180.27	181.59	180.07	179.62	179.24	179.01	
10	178.89	178.95	179.07	178.30	180.74	182.21	180.24	181.71	180.03	179.56	179.24	179.01	
11	178.87	178.96	179.05	178.51	180.82	182.25	180.20	181.38	180.02	179.50	179.24	179.04	
12	178.90	179.01	179.01	178.20	180.97	182.25	180.21	181.12	180.00	179.44	179.23	179.05	
13	178.94	179.21	178.95	178.17	180.84	182.20	180.30	180.92	179.97	179.38	179.23	179.06	
14	179.06	179.29	178.91	178.13	180.70	182.08	180.36	180.77	179.95	179.37	179.23	179.06	
15	179.09	179.28	178.87	178.10	180.66	181.94	180.36	180.69	179.95	179.35	179.23	179.03	
16	179.05	179.28	178.85	178.26	180.64	181.85	180.29	180.63	179.93	179.34	179.24	179.00	
17	179.02	179.27	178.83	179.96	180.62	181.79	180.21	180.59	179.92	179.31	179.24	178.97	
18	178.99	179.26	178.85	180.35	180.52	181.85	180.17	180.56	179.91	179.32	179.21	178.98	
19	178.93	179.30	178.92	179.83	180.27	181.60	180.15	180.52	179.90	179.32	179.21	178.97	
20	178.87	179.28	178.99	179.72	179.96	181.28	180.13	180.51	179.89	179.32	179.23	178.96	
21	178.82	179.27	179.01	179.67	179.85	181.03	180.11	180.49	179.88	179.33	179.25	178.95	
22	178.74	179.26	179.12	179.70	179.77	180.83	180.09	180.48	179.88	179.31	179.26	178.99	
23	178.66	179.26	179.13	179.72	179.80	180.72	180.08	180.47	179.88	179.32	179.28	179.05	
24	178.82	179.25	179.11	179.68	180.39	180.68	180.10	180.45	179.87	179.31	179.27	179.09	
25	179.04	179.23	179.08	179.71	180.48	180.68	180.20	180.47	179.87	179.31	179.26	179.12	
26	179.12	179.22	179.06	179.82	180.23	180.68	180.36	180.49	179.87	179.31	179.25	179.16	
27	179.13	179.25	179.04	179.95	180.14	180.85	180.22	180.47	179.85	179.29	179.24	179.19	
28	179.12	179.21	178.97	179.95	180.07	181.17	180.19	180.44	179.83	179.27	179.24	179.21	
29	179.11	179.21	178.89	179.89	180.30	181.45	180.17	180.42	179.79	179.26		179.21	
30	179.10	179.23	178.72	179.79	180.56	181.11	180.15	180.39	179.78	179.28		179.22	
31		179.22		179.75	181.25		180.13		179.77	179.28		179.23	
Mean	178.86	179.16	179.03	179.09	180.25	181.75	180.35	180.62	180.00	179.45	179.25	179.10	
Max	179.13	179.30	179.23	180.35	181.25	182.65	181.02	181.71	180.36	179.76	179.28	179.23	182.65
Min	178.37	178.94	178.72	178.10	179.46	180.68	180.08	180.07	179.77	179.26	179.21	178.95	178.10

Annual Max Momentary Gage Height	182.68	m. (MSL.) ,	at 05.00 Hours, on Sep 4, 2014		
Zero Gage at Bottom Elevation	176.20	m. (MSL.) ,	River Bed	175.29	m. (MSL.)
Left Bank Elevation	185.08	m. (MSL.) ,			
Right Bank Elevation	185.44	m. (MSL.) ,	Drainage Area	6282	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	3.88	67.60	30.70	9.93	15.36	4.44	0.00	0.00		
2	0.00	0.00	0.00	0.00	3.74	90.00	32.80	9.59	14.94	4.44	0.00	0.00		
3	0.00	0.00	0.00	0.00	3.48	95.60	28.16	10.50	14.52	4.44	0.00	0.00		
4	0.00	0.00	0.00	0.00	2.52	98.00	27.90	12.90	14.31	4.30	0.00	0.00		
5	0.00	0.00	0.00	0.00	1.56	95.00	29.80	14.73	14.10	4.30	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.84	94.50	24.26	16.20	12.50	4.30	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.72	86.50	17.24	15.78	11.90	4.30	0.00	0.00		
8	0.00	0.00	0.00	0.00	12.10	79.20	14.73	41.64	11.50	3.60	0.00	0.00		
9	0.00	0.00	0.00	0.00	25.30	77.60	13.50	52.44	9.59	2.64	0.00	0.00		
10	0.00	0.00	0.00	0.00	25.04	76.40	12.90	56.76	8.91	1.92	0.00	0.00		
11	0.00	0.00	0.00	0.00	27.12	78.00	12.10	44.88	8.74	1.20	0.00	0.00		
12	0.00	0.00	0.00	0.00	31.30	78.00	12.30	35.84	8.40	0.48	0.00	0.00		
13	0.00	0.00	0.00	0.00	27.64	76.00	14.10	29.80	7.89	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	24.00	71.20	15.36	25.82	7.55	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	22.96	65.60	15.36	23.74	7.55	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	22.44	62.00	13.90	22.18	7.21	0.00	0.00	0.00		
17	0.00	0.00	0.00	7.72	21.92	59.64	12.30	21.14	7.04	0.00	0.00	0.00		
18	0.00	0.00	0.00	15.15	19.32	62.00	11.50	20.36	6.87	0.00	0.00	0.00		
19	0.00	0.00	0.00	5.51	13.50	52.80	11.10	19.32	6.70	0.00	0.00	0.00		
20	0.00	0.00	0.00	3.88	7.72	41.28	10.70	19.06	6.53	0.00	0.00	0.00		
21	0.00	0.00	0.00	3.24	5.85	33.10	10.30	18.54	6.36	0.00	0.00	0.00		
22	0.00	0.00	0.00	3.60	4.58	27.38	9.93	18.28	6.36	0.00	0.00	0.00		
23	0.00	0.00	0.00	3.88	5.00	24.52	9.76	18.02	6.36	0.00	0.00	0.00		
24	0.00	0.00	0.00	3.36	15.99	23.48	10.10	17.50	6.19	0.00	0.00	0.00		
25	0.00	0.00	0.00	3.74	18.28	23.48	12.10	18.02	6.19	0.00	0.00	0.00		
26	0.00	0.00	0.00	5.34	12.70	23.48	15.36	18.54	6.19	0.00	0.00	0.00		
27	0.00	0.00	0.00	7.55	10.90	27.90	12.50	18.02	5.85	0.00	0.00	0.00		
28	0.00	0.00	0.00	7.55	9.59	37.44	11.90	17.24	5.51	0.00	0.00	0.00		
29	0.00	0.00	0.00	6.53	14.10	47.40	11.50	16.72	4.86	0.00		0.00		
30	0.00	0.00	0.00	4.86	20.36	35.52	11.10	15.99	4.72	0.00		0.00		
31		0.00		4.30	40.20		10.70		4.58	0.00		0.00		
Total	0.00	0.00	0.00	86.21	454.65	1810.62	485.96	679.48	265.28	40.36	0.00	0.00	3822.56	CMSDAY
Mean	0.00	0.00	0.00	2.78	14.67	60.35	15.68	22.65	8.56	1.30	0.00	0.00	10.47	CMS
Max	0.00	0.00	0.00	15.15	40.20	98.00	32.80	56.76	15.36	4.44	0.00	0.00	98.00	CMS
Min	0.00	0.00	0.00	0.00	0.72	23.48	9.76	9.59	4.58	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	7.45	39.28	156.44	41.99	58.71	22.92	3.49	0.00	0.00	330.27	MCM

Momentary Peak 99.80 CMS, at 182.68 m. (MSL.), at 05.00 Hours, on Sep 4, 2014

Runoff Yield 1.67 Liters/Second/Square KM. Momentary Peak Yield 15.887 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Lam Nam Phong at Ban Pha Nok Khao , Loei (E.29)

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

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

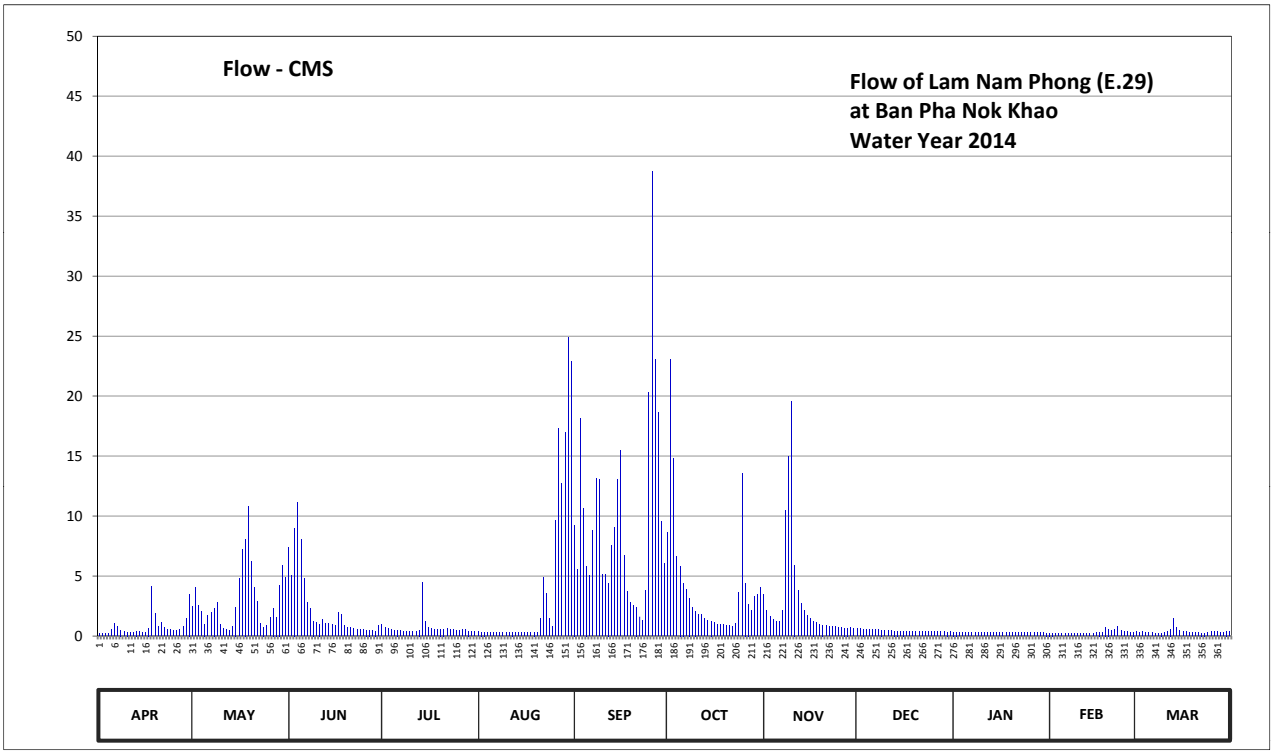
Ban Pha Nok Khao **Amphoe** Phu Kradung **Changwat** Loei

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 Flot	-
Rated by Current Meter	1978 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Ubonrat Dam.
	Stage-discharge relation defined by 43 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.80	227.06	228.55	226.54	225.95	228.95	228.83	227.38	226.24	225.93	225.85	225.95	
2	225.80	227.59	227.91	226.29	225.93	228.08	231.37	226.95	226.20	225.93	225.85	225.91	
3	225.80	227.09	228.90	226.24	225.93	230.59	230.03	226.77	226.18	225.92	225.84	225.96	
4	225.83	226.92	229.33	226.15	225.92	229.22	228.35	226.69	226.16	225.90	225.83	225.92	
5	226.12	226.55	228.71	226.09	225.91	228.16	228.16	226.63	226.17	225.91	225.82	225.88	
6	226.57	226.80	227.83	226.10	225.91	227.92	227.71	226.63	226.17	225.91	225.83	225.86	
7	226.39	226.89	227.17	226.04	225.91	228.86	227.52	226.95	226.15	225.90	225.83	225.84	
8	226.11	227.01	226.99	226.01	225.90	229.73	227.29	229.20	226.12	225.90	225.83	225.84	
9	225.98	227.17	226.65	226.00	225.90	229.72	227.03	230.06	226.11	225.91	225.82	225.85	
10	225.93	226.53	226.60	225.99	225.92	227.94	226.93	230.82	226.08	225.91	225.82	225.89	
11	225.90	226.24	226.55	225.97	225.91	227.95	226.83	228.18	226.07	225.92	225.82	225.99	
12	225.89	226.13	226.68	225.95	225.93	227.71	226.83	227.50	226.05	225.92	225.82	226.18	
13	226.03	226.08	226.57	226.11	225.92	228.59	226.73	227.15	226.03	225.92	225.82	226.73	
14	225.98	226.39	226.58	227.73	225.89	228.91	226.67	226.94	226.03	225.92	225.83	226.28	
15	225.91	227.04	226.52	226.63	225.87	229.71	226.65	226.80	226.01	225.92	225.83	226.07	
16	225.90	227.84	226.45	226.34	225.88	230.14	226.61	226.72	226.02	225.92	225.86	225.95	
17	226.27	228.50	226.88	226.21	225.91	228.38	226.54	226.65	226.00	225.90	225.93	225.94	
18	227.60	228.72	226.84	226.13	225.92	227.48	226.54	226.60	226.00	225.90	225.92	225.92	
19	226.87	229.26	226.47	226.14	225.93	227.17	226.54	226.54	225.99	225.89	226.36	225.90	
20	226.39	228.25	226.35	226.18	225.91	227.08	226.47	226.51	225.97	225.89	226.19	225.88	
21	226.62	227.58	226.28	226.19	226.72	227.04	226.45	226.47	225.98	225.88	226.05	225.86	
22	226.34	227.20	226.21	226.21	227.85	226.77	226.42	226.43	225.97	225.88	226.17	225.85	
23	226.17	226.59	226.16	226.16	227.41	226.66	226.58	226.41	225.96	225.88	226.42	225.85	
24	226.16	226.36	226.13	226.13	226.72	227.51	227.44	226.37	225.95	225.87	226.07	225.86	
25	226.07	226.47	226.14	226.08	226.41	230.95	229.81	226.35	225.94	225.87	226.01	226.01	
26	226.05	226.75	226.11	226.07	229.03	233.49	227.71	226.31	225.96	225.87	225.94	225.97	
27	226.15	227.01	226.11	226.13	230.45	231.37	227.12	226.27	225.96	225.87	225.92	225.97	
28	226.42	226.76	226.05	226.13	229.65	230.68	226.95	226.27	225.94	225.86	225.93	225.92	
29	226.73	227.65	226.03	226.02	230.40	229.01	227.33	226.29	225.94	225.86		225.91	
30	227.40	228.17	226.47	226.00	231.63	228.21	227.39	226.25	225.93	225.86		226.02	
31		227.85		225.98	231.34		227.57		225.94	225.85		226.01	
Mean	226.24	227.18	226.87	226.19	226.96	228.80	227.43	227.04	226.04	225.90	225.94	225.97	
Max	227.60	229.26	229.33	227.73	231.63	233.49	231.37	230.82	226.24	225.93	226.42	226.73	233.49
Min	225.80	226.08	226.03	225.95	225.87	226.66	226.42	226.25	225.93	225.85	225.82	225.84	225.80

Annual Max Momentary Gage Height	233.90	m. (MSL.) ,	at 09.00 Hours, on Sep 26, 2014		
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 Area	949	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	2.48	7.40	0.98	0.35	9.25	8.65	3.44	0.64	0.33	0.25	0.35		
2	0.20	4.07	5.03	0.69	0.33	5.54	23.09	2.15	0.60	0.33	0.25	0.31		
3	0.20	2.57	9.00	0.64	0.33	18.14	14.78	1.61	0.58	0.32	0.24	0.36		
4	0.23	2.06	11.15	0.55	0.32	10.60	6.60	1.37	0.56	0.30	0.23	0.32		
5	0.52	1.00	8.05	0.49	0.31	5.84	5.84	1.19	0.57	0.31	0.22	0.28		
6	1.04	1.70	4.79	0.50	0.31	5.06	4.43	1.19	0.57	0.31	0.23	0.26		
7	0.79	1.97	2.81	0.44	0.31	8.80	3.86	2.15	0.55	0.30	0.23	0.24		
8	0.51	2.33	2.27	0.41	0.30	13.15	3.17	10.50	0.52	0.30	0.23	0.24		
9	0.38	2.81	1.25	0.40	0.30	13.10	2.39	14.96	0.51	0.31	0.22	0.25		
10	0.33	0.96	1.10	0.39	0.32	5.12	2.09	19.52	0.48	0.31	0.22	0.29		
11	0.30	0.64	1.00	0.37	0.31	5.15	1.79	5.92	0.47	0.32	0.22	0.39		
12	0.29	0.53	1.34	0.35	0.33	4.43	1.79	3.80	0.45	0.32	0.22	0.58		
13	0.43	0.48	1.04	0.51	0.32	7.56	1.49	2.75	0.43	0.32	0.22	1.49		
14	0.38	0.79	1.06	4.49	0.29	9.05	1.31	2.12	0.43	0.32	0.23	0.68		
15	0.31	2.42	0.94	1.19	0.27	13.05	1.25	1.70	0.41	0.32	0.23	0.47		
16	0.30	4.82	0.85	0.74	0.28	15.44	1.13	1.46	0.42	0.32	0.26	0.35		
17	0.67	7.20	1.94	0.61	0.31	6.72	0.98	1.25	0.40	0.30	0.33	0.34		
18	4.10	8.10	1.82	0.53	0.32	3.74	0.98	1.10	0.40	0.30	0.32	0.32		
19	1.91	10.80	0.87	0.54	0.33	2.81	0.98	0.98	0.39	0.29	0.76	0.30		
20	0.79	6.20	0.75	0.58	0.31	2.54	0.87	0.92	0.37	0.29	0.59	0.28		
21	1.16	4.04	0.68	0.59	1.46	2.42	0.85	0.87	0.38	0.28	0.45	0.26		
22	0.74	2.90	0.61	0.61	4.85	1.61	0.82	0.83	0.37	0.28	0.57	0.25		
23	0.57	1.08	0.56	0.56	3.53	1.28	1.06	0.81	0.36	0.28	0.82	0.25		
24	0.56	0.76	0.53	0.53	1.46	3.83	3.62	0.77	0.35	0.27	0.47	0.26		
25	0.47	0.87	0.54	0.48	0.81	20.30	13.55	0.75	0.34	0.27	0.41	0.41		
26	0.45	1.55	0.51	0.47	9.65	38.72	4.43	0.71	0.36	0.27	0.34	0.37		
27	0.55	2.33	0.51	0.53	17.30	23.09	2.66	0.67	0.36	0.27	0.32	0.37		
28	0.82	1.58	0.45	0.53	12.75	18.68	2.15	0.67	0.34	0.26	0.33	0.32		
29	1.49	4.25	0.43	0.42	17.00	9.55	3.29	0.69	0.34	0.26		0.31		
30	3.50	5.88	0.87	0.40	24.91	6.04	3.47	0.65	0.33	0.26		0.42		
31		4.85		0.38	22.88		4.01		0.34	0.25		0.41		
Total	24.19	94.02	70.15	20.90	122.85	290.61	127.38	87.50	13.62	9.17	9.41	11.73	881.53	CMSDAY
Mean	0.81	3.03	2.34	0.67	3.96	9.69	4.11	2.92	0.44	0.30	0.34	0.38	2.42	CMS
Max	4.10	10.80	11.15	4.49	24.91	38.72	23.09	19.52	0.64	0.33	0.82	1.49	38.72	CMS
Min	0.20	0.48	0.43	0.35	0.27	1.28	0.82	0.65	0.33	0.25	0.22	0.24	0.20	CMS
Runoff	2.09	8.12	6.06	1.81	1.61	25.11	11.01	7.56	1.18	0.79	0.81	1.01	76.16	MCM

Momentary Peak 42.00 CMS, at 233.90 m. (MSL.), at 09.00 Hours, on Sep 26, 2014

Runoff Yield 2.54 Liters/Second/Square KM. Momentary Peak Yield 44.257 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

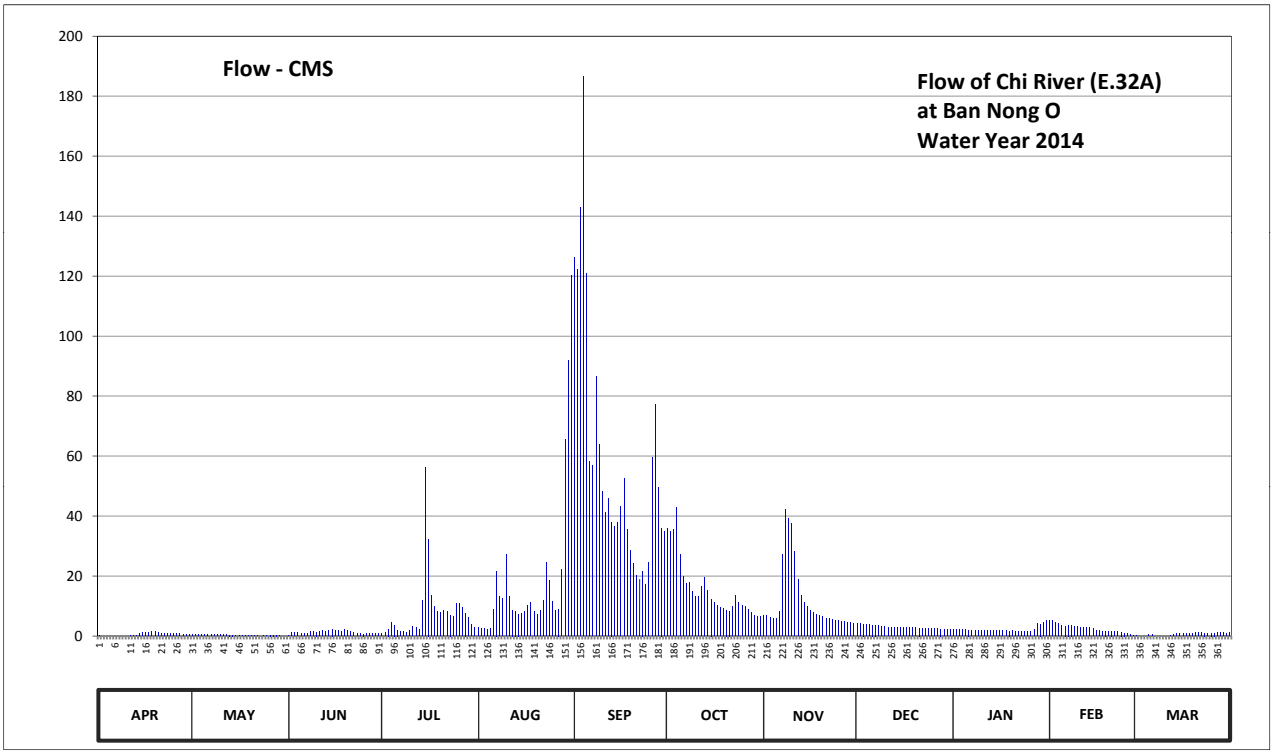
Location : on right bank about 500 meters north of Ban Nong O from about 600 meters upstream from E.32 gaging station.

	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** +211.424 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 Flot	-		
Rated by Current Meter	1968 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.32	198.42	198.34	198.48	198.85	204.31	201.13	199.25	199.02	198.71	199.09	198.34	
2	198.25	198.42	198.51	198.52	198.81	204.21	201.08	199.25	199.02	198.71	199.09	198.30	
3	198.24	198.41	198.53	198.77	198.78	204.69	201.12	199.19	198.99	198.71	199.03	198.27	
4	198.24	198.41	198.52	199.03	198.73	205.58	201.47	199.16	198.97	198.71	199.01	198.29	
5	198.24	198.41	198.49	198.96	198.78	204.17	200.71	199.15	198.97	198.71	198.95	198.38	
6	198.24	198.41	198.49	198.70	199.44	202.12	200.31	199.38	198.96	198.70	198.93	198.39	
7	198.24	198.41	198.49	198.62	200.42	202.07	200.16	200.71	198.96	198.69	198.96	198.30	
8	198.24	198.41	198.59	198.57	199.82	203.12	200.18	201.45	198.94	198.66	198.96	198.27	
9	198.26	198.41	198.58	198.52	199.77	202.32	199.98	201.30	198.92	198.67	198.91	198.24	
10	198.30	198.41	198.56	198.67	200.70	201.73	199.82	201.21	198.91	198.69	198.92	198.25	
11	198.31	198.40	198.62	198.91	199.83	201.40	199.84	200.75	198.90	198.68	198.88	198.29	
12	198.31	198.39	198.68	198.84	199.42	201.62	200.09	200.24	198.89	198.66	198.84	198.31	
13	198.31	198.37	198.60	198.76	199.39	201.24	200.29	199.85	198.89	198.68	198.87	198.38	
14	198.47	198.37	198.69	199.72	199.30	201.16	200.01	199.65	198.88	198.67	198.85	198.48	
15	198.55	198.36	198.77	202.05	199.31	201.23	199.76	199.52	198.86	198.66	198.79	198.48	
16	198.54	198.32	198.68	200.96	199.36	201.50	199.64	199.42	198.85	198.66	198.69	198.47	
17	198.53	198.35	198.65	199.85	199.55	201.91	199.57	199.35	198.85	198.67	198.65	198.46	
18	198.63	198.35	198.63	199.54	199.64	201.11	199.50	199.29	198.85	198.66	198.61	198.48	
19	198.62	198.35	198.73	199.38	199.37	200.77	199.46	199.25	198.84	198.64	198.64	198.49	
20	198.51	198.35	198.65	199.34	199.28	200.56	199.42	199.21	198.84	198.65	198.63	198.51	
21	198.48	198.34	198.58	199.40	199.41	200.32	199.39	199.17	198.83	198.63	198.64	198.53	
22	198.45	198.31	198.54	199.38	199.70	200.25	199.53	199.16	198.81	198.61	198.61	198.51	
23	198.46	198.27	198.49	199.27	200.58	200.42	199.86	199.14	198.80	198.63	198.60	198.50	
24	198.47	198.31	198.46	199.22	200.22	200.13	199.64	199.11	198.80	198.62	198.56	198.48	
25	198.48	198.35	198.44	199.63	199.68	200.57	199.56	199.09	198.80	198.59	198.50	198.50	
26	198.46	198.37	198.47	199.61	199.41	202.17	199.54	199.08	198.78	198.62	198.45	198.50	
27	198.45	198.37	198.47	199.50	199.45	202.80	199.43	199.06	198.79	198.71	198.38	198.53	
28	198.42	198.37	198.46	199.33	200.45	201.78	199.34	199.05	198.77	199.00	198.31	198.54	
29	198.41	198.33	198.47	199.19	202.38	201.14	199.26	199.03	198.73	198.99		198.52	
30	198.42	198.13	198.47	198.98	203.30	201.09	199.22	199.02	198.73	199.05		198.47	
31		198.00		198.89	204.16		199.21		198.71	199.11		198.52	
Mean	198.40	198.35	198.56	199.24	199.91	201.92	199.92	199.58	198.87	198.71	198.76	198.42	
Max	198.63	198.42	198.77	202.05	204.16	205.58	201.47	201.45	199.02	199.11	199.09	198.54	205.58
Min	198.24	198.00	198.34	198.48	198.73	200.13	199.21	199.02	198.71	198.59	198.31	198.24	198.00

Annual Max Momentary Gage Height	205.82	m. (MSL.) ,	at 15.00 Hours, on Sep 4, 2014		
Zero Gage at Bottom Elevation	198.00	m. (MSL.) ,	River Bed	197.39	m. (MSL.)
Left Bank Elevation	212.97	m. (MSL.) ,			
Right Bank Elevation	210.64	m. (MSL.) ,	Drainage Area	2867	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.60	0.20	0.90	2.75	126.40	35.81	6.82	4.31	2.05	5.07	0.20		
2	0.00	0.60	1.05	1.10	2.55	122.40	34.79	6.82	4.31	2.05	5.07	0.00		
3	0.00	0.55	1.15	2.35	2.40	142.74	35.61	6.16	3.98	2.05	4.42	0.00		
4	0.00	0.55	1.10	4.42	2.15	186.48	42.72	5.84	3.76	2.05	4.20	0.00		
5	0.00	0.55	0.95	3.65	2.40	120.80	27.27	5.73	3.76	2.05	3.55	0.40		
6	0.00	0.55	0.95	2.00	8.89	58.36	19.96	8.24	3.65	2.00	3.33	0.45		
7	0.00	0.55	0.95	1.60	21.72	56.96	17.56	27.27	3.65	1.95	3.65	0.00		
8	0.00	0.55	1.45	1.35	13.04	86.60	17.88	42.32	3.44	1.80	3.65	0.00		
9	0.00	0.55	1.40	1.10	12.49	63.96	14.78	39.27	3.22	1.85	3.11	0.00		
10	0.00	0.55	1.30	1.85	27.07	48.15	13.04	37.44	3.11	1.95	3.22	0.00		
11	0.05	0.50	1.60	3.11	13.15	41.30	13.25	28.08	3.00	1.90	2.90	0.00		
12	0.05	0.45	1.90	2.70	8.67	45.77	16.44	18.84	2.95	1.80	2.70	0.05		
13	0.05	0.35	1.50	2.30	8.35	38.05	19.64	13.36	2.95	1.90	2.85	0.40		
14	0.85	0.35	1.95	11.95	7.36	36.42	15.16	11.18	2.90	1.85	2.75	0.90		
15	1.25	0.30	2.35	56.40	7.47	37.84	12.38	9.76	2.80	1.80	2.45	0.90		
16	1.20	0.10	1.90	32.35	8.02	43.33	11.07	8.67	2.75	1.80	1.95	0.85		
17	1.15	0.25	1.75	13.36	10.09	52.66	10.31	7.91	2.75	1.85	1.75	0.80		
18	1.65	0.25	1.65	9.98	11.07	35.40	9.55	7.25	2.75	1.80	1.55	0.90		
19	1.60	0.25	2.15	8.24	8.13	28.49	9.11	6.82	2.70	1.70	1.70	0.95		
20	1.05	0.25	1.75	7.80	7.15	24.22	8.67	6.38	2.70	1.75	1.65	1.05		
21	0.90	0.20	1.40	8.45	8.56	20.12	8.35	5.95	2.65	1.65	1.70	1.15		
22	0.75	0.05	1.20	8.24	11.73	19.00	9.87	5.84	2.55	1.55	1.55	1.05		
23	0.80	0.00	0.95	7.04	24.63	21.72	13.47	5.62	2.50	1.65	1.50	1.00		
24	0.85	0.05	0.80	6.49	18.52	17.08	11.07	5.29	2.50	1.60	1.30	0.90		
25	0.90	0.25	0.70	10.96	11.51	24.42	10.20	5.07	2.50	1.45	1.00	1.00		
26	0.80	0.35	0.85	10.75	8.56	59.76	9.98	4.96	2.40	1.60	0.75	1.00		
27	0.75	0.35	0.85	9.55	9.00	77.40	8.78	4.75	2.45	2.05	0.40	1.15		
28	0.60	0.35	0.80	7.69	22.20	49.40	7.80	4.64	2.35	4.09	0.05	1.20		
29	0.55	0.15	0.85	6.16	65.64	36.01	6.93	4.42	2.15	3.98		1.10		
30	0.60	0.00	0.85	3.87	92.00	35.00	6.49	4.31	2.15	4.64		0.85		
31		0.00		2.95	120.40		6.38		2.05	5.29		1.10		
Total	16.50	10.40	38.25	250.66	577.67	1756.24	484.32	355.01	91.69	67.50	69.77	19.35	3737.36	CMSDAY
Mean	0.55	0.34	1.27	8.09	18.63	58.54	15.62	11.83	2.96	2.18	2.49	0.62	10.24	CMS
Max	1.65	0.60	2.35	56.40	120.40	186.48	42.72	42.32	4.31	5.29	5.07	1.20	186.48	CMS
Min	0.00	0.00	0.20	0.90	2.15	17.08	6.38	4.31	2.05	1.45	0.05	0.00	0.00	CMS
Runoff	1.43	0.90	3.31	21.66	49.91	151.74	41.85	30.67	7.92	5.83	6.03	1.67	322.91	MCM

Momentary Peak 199.92 CMS, at 205.82 m. (MSL.), at 15.00 Hours, on Sep 4, 2014

Runoff Yield 3.57 Liters/Second/Square KM. Momentary Peak Yield 69.731 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

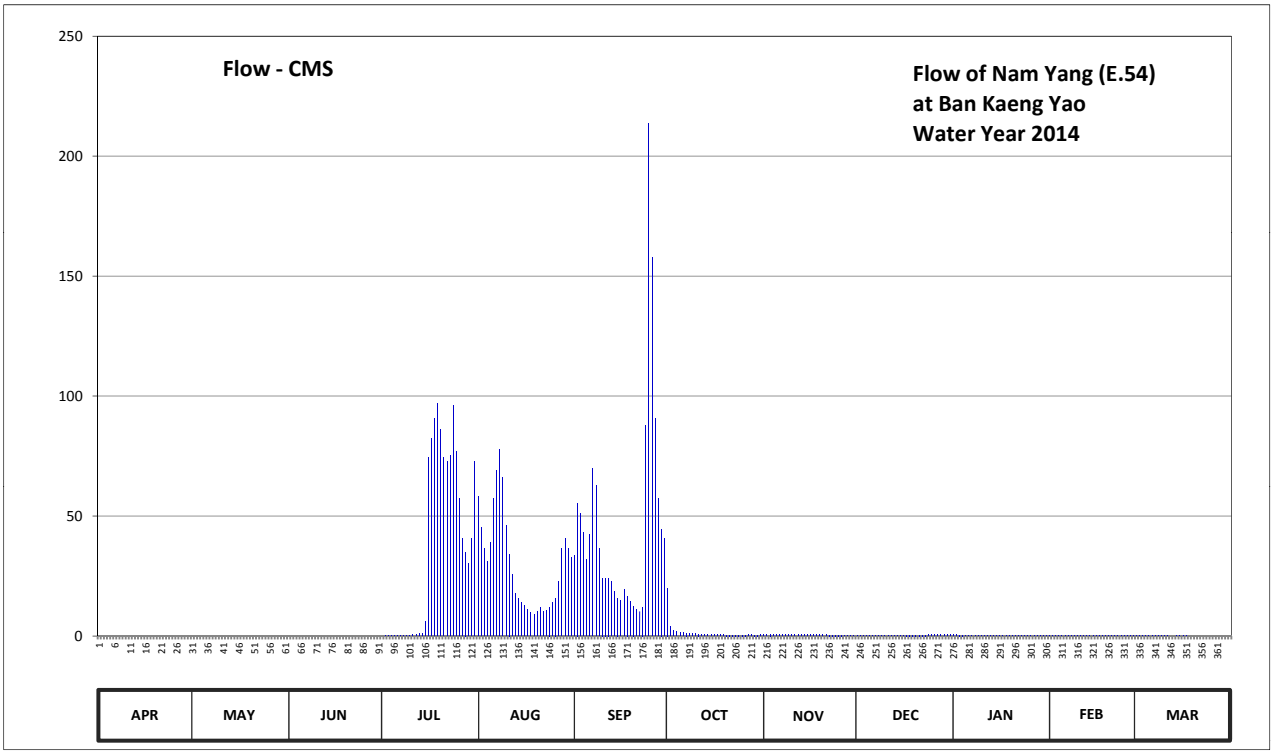
Location : on right bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite.

	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 Flot	-		
Rated by Current Meter	1969 - 1977 , 1983 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.13	140.02	139.80	139.78	142.18	141.88	141.70	140.35	140.30	140.33	140.27	140.26	
2	140.12	140.00	139.85	140.29	142.03	142.15	141.21	140.40	140.30	140.33	140.27	140.25	
3	140.12	139.98	139.89	140.30	141.92	142.10	140.81	140.42	140.30	140.32	140.27	140.25	
4	140.11	139.97	139.94	140.21	141.85	142.00	140.67	140.40	140.30	140.32	140.27	140.24	
5	140.11	140.00	139.98	140.25	141.95	141.86	140.61	140.38	140.30	140.31	140.27	140.24	
6	140.11	140.02	140.03	140.27	142.17	141.99	140.56	140.36	140.30	140.31	140.27	140.23	
7	140.10	140.00	140.08	140.24	142.30	142.31	140.53	140.34	140.30	140.30	140.27	140.23	
8	140.10	139.98	140.08	140.26	142.40	142.23	140.49	140.34	140.30	140.30	140.27	140.22	
9	140.09	139.96	140.09	140.28	142.27	141.92	140.46	140.34	140.31	140.29	140.27	140.22	
10	140.09	139.94	140.09	140.30	142.04	141.76	140.44	140.34	140.31	140.29	140.27	140.21	
11	140.09	139.92	140.07	140.34	141.89	141.76	140.42	140.34	140.31	140.28	140.27	140.21	
12	140.08	139.92	140.03	140.40	141.78	141.76	140.40	140.34	140.31	140.28	140.27	140.20	
13	140.08	139.91	139.95	140.44	141.64	141.74	140.38	140.34	140.31	140.27	140.27	140.20	
14	140.08	139.90	139.84	140.49	141.58	141.66	140.36	140.34	140.31	140.27	140.27	140.22	
15	140.08	139.88	139.78	141.33	141.54	141.59	140.36	140.34	140.31	140.27	140.27	140.24	
16	140.07	139.86	139.71	142.36	141.51	141.56	140.36	140.34	140.31	140.27	140.26	140.24	
17	140.07	139.84	139.67	142.45	141.46	141.68	140.34	140.34	140.32	140.27	140.26	140.22	
18	140.07	139.82	139.70	142.54	141.43	141.61	140.34	140.34	140.32	140.27	140.26	140.20	
19	140.06	139.81	139.75	142.61	141.41	141.55	140.34	140.34	140.32	140.27	140.26	140.18	
20	140.06	139.79	139.78	142.49	141.44	141.50	140.32	140.34	140.32	140.27	140.26	140.18	
21	140.05	139.76	139.81	142.36	141.48	141.46	140.32	140.33	140.32	140.27	140.26	140.18	
22	140.05	139.74	139.80	142.34	141.44	141.44	140.32	140.32	140.32	140.27	140.26	140.17	
23	140.05	139.72	139.80	142.37	141.45	141.49	140.32	140.32	140.32	140.27	140.26	140.17	
24	140.04	139.73	139.80	142.60	141.49	142.51	140.32	140.32	140.33	140.27	140.26	140.17	
25	140.04	139.75	139.76	142.39	141.54	143.77	140.32	140.32	140.33	140.27	140.26	140.16	
26	140.04	139.76	139.67	142.17	141.59	143.23	140.32	140.32	140.33	140.27	140.26	140.16	
27	140.03	139.74	139.61	141.97	141.74	142.54	140.33	140.30	140.33	140.27	140.26	140.16	
28	140.03	139.76	139.62	141.90	141.92	142.17	140.33	140.30	140.33	140.27	140.26	140.16	
29	140.03	139.76	139.60	141.84	141.97	142.02	140.32	140.30	140.33	140.27		140.15	
30	140.02	139.76	139.62	141.97	141.92	141.97	140.32	140.30	140.33	140.27		140.15	
31		139.76		142.34	141.87		140.34		140.33	140.27		140.15	
Mean	140.07	139.86	139.84	141.35	141.78	141.97	140.47	140.34	140.31	140.28	140.27	140.20	
Max	140.13	140.02	140.09	142.61	142.40	143.77	141.70	140.42	140.33	140.33	140.27	140.26	143.77
Min	140.02	139.72	139.60	139.78	141.41	141.44	140.32	140.30	140.30	140.27	140.26	140.15	139.60

Annual Max Momentary Gage Height	143.86	m. (MSL.) ,	at 12.00 Hours, on Sep 25, 2014		
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 Area	1548	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	58.20	33.40	20.00	0.56	0.38	0.49	0.26	0.22		
2	0.00	0.00	0.00	0.34	45.40	55.50	4.10	0.75	0.38	0.49	0.26	0.19		
3	0.00	0.00	0.00	0.38	36.60	51.00	2.29	0.83	0.38	0.45	0.26	0.19		
4	0.00	0.00	0.00	0.04	31.00	43.00	1.76	0.75	0.38	0.45	0.26	0.15		
5	0.00	0.00	0.00	0.19	39.00	31.80	1.54	0.68	0.38	0.41	0.26	0.15		
6	0.00	0.00	0.00	0.26	57.30	42.20	1.35	0.60	0.38	0.41	0.26	0.11		
7	0.00	0.00	0.00	0.15	69.00	69.90	1.24	0.52	0.38	0.38	0.26	0.11		
8	0.00	0.00	0.00	0.22	78.00	62.70	1.09	0.52	0.38	0.38	0.26	0.08		
9	0.00	0.00	0.00	0.30	66.30	36.60	0.98	0.52	0.41	0.34	0.26	0.08		
10	0.00	0.00	0.00	0.38	46.20	24.20	0.90	0.52	0.41	0.34	0.26	0.04		
11	0.00	0.00	0.00	0.52	34.20	24.20	0.83	0.52	0.41	0.30	0.26	0.04		
12	0.00	0.00	0.00	0.75	25.60	24.20	0.75	0.52	0.41	0.30	0.26	0.00		
13	0.00	0.00	0.00	0.90	17.75	22.80	0.68	0.52	0.41	0.26	0.26	0.00		
14	0.00	0.00	0.00	1.09	15.50	18.50	0.60	0.52	0.41	0.26	0.26	0.08		
15	0.00	0.00	0.00	6.12	14.00	15.87	0.60	0.52	0.41	0.26	0.26	0.15		
16	0.00	0.00	0.00	74.40	12.87	14.75	0.60	0.52	0.41	0.26	0.22	0.15		
17	0.00	0.00	0.00	82.50	11.00	19.25	0.52	0.52	0.45	0.26	0.22	0.08		
18	0.00	0.00	0.00	90.60	9.87	16.63	0.52	0.52	0.45	0.26	0.22	0.00		
19	0.00	0.00	0.00	96.90	9.13	14.38	0.52	0.52	0.45	0.26	0.22	0.00		
20	0.00	0.00	0.00	86.10	10.25	12.50	0.45	0.52	0.45	0.26	0.22	0.00		
21	0.00	0.00	0.00	74.40	11.75	11.00	0.45	0.49	0.45	0.26	0.22	0.00		
22	0.00	0.00	0.00	72.60	10.25	10.25	0.45	0.45	0.45	0.26	0.22	0.00		
23	0.00	0.00	0.00	75.30	10.62	12.13	0.45	0.45	0.45	0.26	0.22	0.00		
24	0.00	0.00	0.00	96.00	12.13	87.90	0.45	0.45	0.49	0.26	0.22	0.00		
25	0.00	0.00	0.00	77.10	14.00	213.70	0.45	0.45	0.49	0.26	0.22	0.00		
26	0.00	0.00	0.00	57.30	15.87	158.00	0.45	0.45	0.49	0.26	0.22	0.00		
27	0.00	0.00	0.00	40.60	22.80	90.60	0.49	0.38	0.49	0.26	0.22	0.00		
28	0.00	0.00	0.00	35.00	36.60	57.30	0.49	0.38	0.49	0.26	0.22	0.00		
29	0.00	0.00	0.00	30.20	40.60	44.60	0.45	0.38	0.49	0.26		0.00		
30	0.00	0.00	0.00	40.60	36.60	40.60	0.45	0.38	0.49	0.26		0.00		
31		0.00		72.60	32.60		0.52		0.49	0.26		0.00		
Total	0.00	0.00	0.00	1113.84	930.99	1359.46	46.42	15.71	13.39	9.68	6.76	1.82	3498.07	CMSDAY
Mean	0.00	0.00	0.00	35.93	30.03	45.32	1.50	0.52	0.43	0.31	0.24	0.06	9.58	CMS
Max	0.00	0.00	0.00	96.90	78.00	213.70	20.00	0.83	0.49	0.49	0.26	0.22	213.70	CMS
Min	0.00	0.00	0.00	0.00	9.13	10.25	0.45	0.38	0.38	0.26	0.22	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	96.24	80.44	117.46	4.01	1.36	1.16	0.84	0.58	0.16	302.23	MCM

Momentary Peak 223.60 CMS, at 143.86 m. (MSL.), at 12.00 Hours, on Sep 25, 2014

Runoff Yield 6.19 Liters/Second/Square KM. Momentary Peak Yield 144.444 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

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

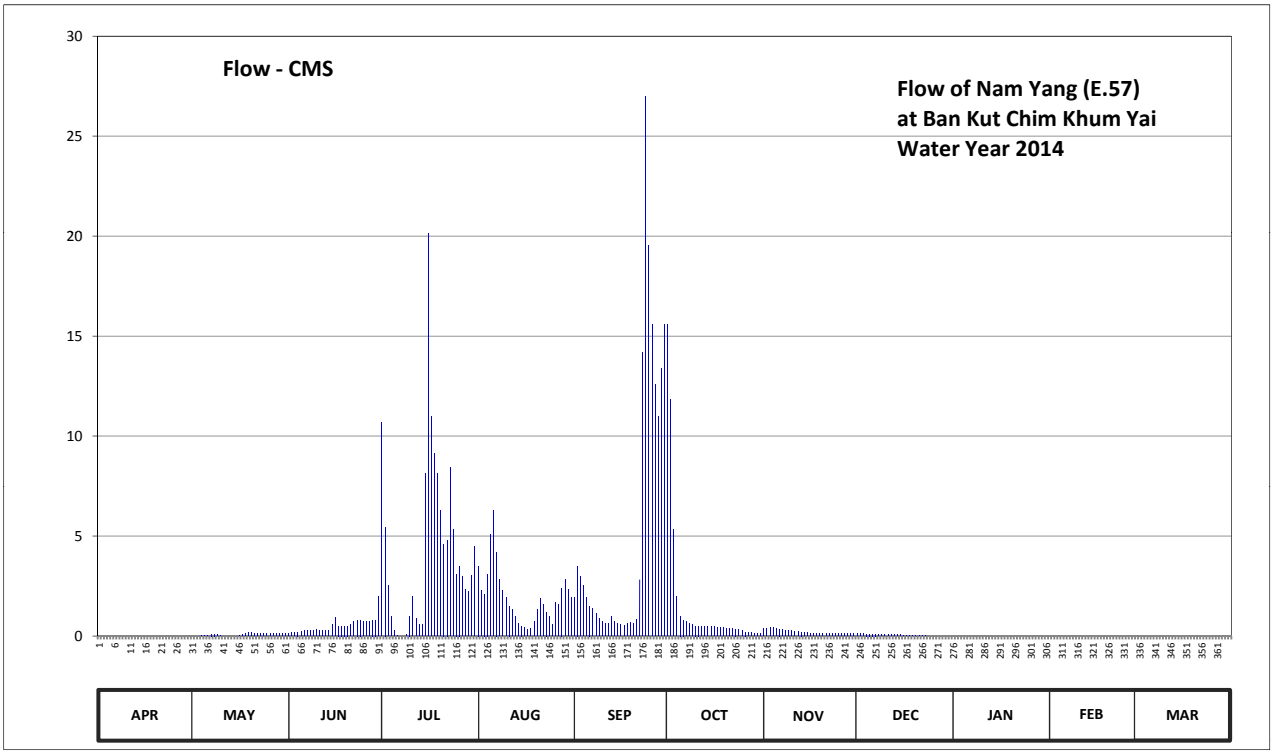
Ban Kut Chim Khum Yai **Amphoe** Khao Wong **Changwat** Kalasin

Drainge Area	103 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+170.100 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On right bank at the footpath of the bridge. **Elevation** +177.810 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic 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 Flot	-
Rated by Current Meter	1969 - 1970 , 1984 to date
Stability of Channel Regimes	Rather unstable.
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 12 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.86	170.00	170.07	171.31	170.74	170.52	171.57	170.16	170.06	169.99	169.96	169.96	
2	169.86	170.00	170.08	170.93	170.58	170.74	171.38	170.16	170.06	169.99	169.96	169.96	
3	169.86	170.00	170.09	170.62	170.55	170.68	170.92	170.18	170.06	169.99	169.96	169.96	
4	169.86	170.01	170.10	170.34	170.70	170.62	170.53	170.17	170.05	169.99	169.95	169.96	
5	169.86	170.01	170.11	170.12	170.90	170.52	170.35	170.16	170.05	169.99	169.95	169.96	
6	169.86	170.02	170.12	170.02	171.00	170.45	170.30	170.15	170.05	169.99	169.95	169.96	
7	169.87	170.05	170.12	170.00	170.81	170.43	170.27	170.14	170.05	169.98	169.95	169.96	
8	169.87	170.05	170.13	169.98	170.66	170.38	170.24	170.13	170.04	169.98	169.94	169.96	
9	169.87	170.04	170.13	170.03	170.58	170.32	170.22	170.12	170.04	169.98	169.94	169.96	
10	169.87	170.01	170.14	170.35	170.52	170.27	170.20	170.12	170.04	169.98	169.94	169.96	
11	169.88	170.00	170.13	170.53	170.45	170.25	170.20	170.11	170.04	169.98	169.94	169.96	
12	169.88	169.96	170.12	170.32	170.42	170.24	170.19	170.11	170.03	169.98	169.93	169.96	
13	169.89	169.97	170.13	170.22	170.34	170.34	170.19	170.10	170.03	169.97	169.93	169.96	
14	169.90	169.98	170.12	170.23	170.25	170.28	170.19	170.09	170.03	169.97	169.93	169.96	
15	169.91	170.00	170.23	171.14	170.20	170.24	170.19	170.08	170.03	169.97	169.93	169.96	
16	169.92	170.02	170.33	171.76	170.17	170.22	170.19	170.07	170.02	169.97	169.93	169.96	
17	169.93	170.04	170.20	171.33	170.14	170.21	170.18	170.07	170.02	169.97	169.92	169.96	
18	169.94	170.07	170.20	171.21	170.16	170.25	170.17	170.07	170.02	169.97	169.92	169.96	
19	169.95	170.09	170.20	171.14	170.28	170.26	170.17	170.06	170.02	169.97	169.92	169.96	
20	169.96	170.08	170.20	171.00	170.42	170.24	170.16	170.06	170.01	169.97	169.92	169.96	
21	169.97	170.07	170.22	170.85	170.51	170.31	170.16	170.06	170.01	169.97	169.92	169.96	
22	169.97	170.07	170.28	170.87	170.46	170.66	170.16	170.06	170.01	169.97	169.93	169.97	
23	169.98	170.07	170.30	171.16	170.40	171.50	170.15	170.06	170.01	169.97	169.94	169.99	
24	169.98	170.07	170.30	170.92	170.34	172.00	170.14	170.06	170.00	169.97	169.95	169.99	
25	169.98	170.06	170.27	170.70	170.22	171.74	170.12	170.06	170.00	169.96	169.96	170.00	
26	169.99	170.06	170.27	170.74	170.48	171.57	170.10	170.06	170.00	169.96	169.96	170.00	
27	169.99	170.06	170.28	170.68	170.46	171.42	170.08	170.06	170.00	169.96	169.96	169.99	
28	170.00	170.06	170.30	170.59	170.60	171.33	170.08	170.06	170.00	169.96	169.96	169.98	
29	170.00	170.06	170.30	170.57	170.66	171.46	170.07	170.06	169.99	169.96		169.97	
30	170.00	170.06	170.53	170.69	170.59	171.57	170.07	170.06	169.99	169.96		169.97	
31		170.06		170.84	170.52		170.06		169.99	169.96		169.96	
Mean	169.92	170.04	170.20	170.68	170.49	170.70	170.29	170.10	170.02	169.97	169.94	169.97	
Max	170.00	170.09	170.53	171.76	171.00	172.00	171.57	170.18	170.06	169.99	169.96	170.00	172.00
Min	169.86	169.96	170.07	169.98	170.14	170.21	170.06	170.06	169.99	169.96	169.92	169.96	169.86

Annual Max Momentary Gage Height	172.10	m. (MSL.) ,	at 06.00 Hours, on Sep 24, 2014		
Zero Gage at Bottom Elevation	170.10	m. (MSL.) ,	River Bed	169.37	m. (MSL.)
Left Bank Elevation	177.58	m. (MSL.) ,			
Right Bank Elevation	177.59	m. (MSL.) ,	Drainage Area	103	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.14	10.67	3.50	1.92	15.60	0.38	0.12	0.00	0.00	0.00		
2	0.00	0.00	0.16	5.46	2.28	3.50	11.86	0.38	0.12	0.00	0.00	0.00		
3	0.00	0.00	0.18	2.54	2.10	2.96	5.34	0.44	0.12	0.00	0.00	0.00		
4	0.00	0.02	0.20	0.96	3.10	2.54	1.98	0.41	0.10	0.00	0.00	0.00		
5	0.00	0.02	0.23	0.26	5.10	1.92	1.00	0.38	0.10	0.00	0.00	0.00		
6	0.00	0.04	0.26	0.04	6.30	1.50	0.80	0.35	0.10	0.00	0.00	0.00		
7	0.00	0.10	0.26	0.00	4.20	1.38	0.71	0.32	0.10	0.00	0.00	0.00		
8	0.00	0.10	0.29	0.00	2.82	1.12	0.62	0.29	0.08	0.00	0.00	0.00		
9	0.00	0.08	0.29	0.06	2.28	0.88	0.56	0.26	0.08	0.00	0.00	0.00		
10	0.00	0.02	0.32	1.00	1.92	0.71	0.50	0.26	0.08	0.00	0.00	0.00		
11	0.00	0.00	0.29	1.98	1.50	0.65	0.50	0.23	0.08	0.00	0.00	0.00		
12	0.00	0.00	0.26	0.88	1.32	0.62	0.47	0.23	0.06	0.00	0.00	0.00		
13	0.00	0.00	0.29	0.56	0.96	0.96	0.47	0.20	0.06	0.00	0.00	0.00		
14	0.00	0.00	0.26	0.59	0.65	0.74	0.47	0.18	0.06	0.00	0.00	0.00		
15	0.00	0.00	0.59	8.16	0.50	0.62	0.47	0.16	0.06	0.00	0.00	0.00		
16	0.00	0.04	0.92	20.12	0.41	0.56	0.47	0.14	0.04	0.00	0.00	0.00		
17	0.00	0.08	0.50	11.01	0.32	0.53	0.44	0.14	0.04	0.00	0.00	0.00		
18	0.00	0.14	0.50	9.15	0.38	0.65	0.41	0.14	0.04	0.00	0.00	0.00		
19	0.00	0.18	0.50	8.16	0.74	0.68	0.41	0.12	0.04	0.00	0.00	0.00		
20	0.00	0.16	0.50	6.30	1.32	0.62	0.38	0.12	0.02	0.00	0.00	0.00		
21	0.00	0.14	0.56	4.60	1.86	0.84	0.38	0.12	0.02	0.00	0.00	0.00		
22	0.00	0.14	0.74	4.80	1.56	2.82	0.38	0.12	0.02	0.00	0.00	0.00		
23	0.00	0.14	0.80	8.44	1.20	14.20	0.35	0.12	0.02	0.00	0.00	0.00		
24	0.00	0.14	0.80	5.34	0.96	27.00	0.32	0.12	0.00	0.00	0.00	0.00		
25	0.00	0.12	0.71	3.10	0.56	19.55	0.26	0.12	0.00	0.00	0.00	0.00		
26	0.00	0.12	0.71	3.50	1.68	15.60	0.20	0.12	0.00	0.00	0.00	0.00		
27	0.00	0.12	0.74	2.96	1.56	12.60	0.16	0.12	0.00	0.00	0.00	0.00		
28	0.00	0.12	0.80	2.34	2.40	11.01	0.16	0.12	0.00	0.00	0.00	0.00		
29	0.00	0.12	0.80	2.22	2.82	13.40	0.14	0.12	0.00	0.00		0.00		
30	0.00	0.12	1.98	3.03	2.34	15.60	0.14	0.12	0.00	0.00		0.00		
31		0.12		4.50	1.92		0.12		0.00	0.00		0.00		
Total	0.00	2.38	15.58	132.73	60.56	157.68	46.07	6.33	1.56	0.00	0.00	0.00	422.89	CMSDAY
Mean	0.00	0.08	0.52	4.28	1.95	5.26	1.49	0.21	0.05	0.00	0.00	0.00	1.16	CMS
Max	0.00	0.18	1.98	20.12	6.30	27.00	15.60	0.44	0.12	0.00	0.00	0.00	27.00	CMS
Min	0.00	0.00	0.14	0.00	0.32	0.53	0.12	0.12	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.21	1.35	11.47	5.23	13.62	3.98	0.55	0.14	0.00	0.00	0.00	36.54	MCM

Momentary Peak 32.00 CMS, at 172.10 m. (MSL.), at 06.00 Hours, on Sep 24, 2014

Runoff Yield 11.25 Liters/Second/Square KM. Momentary Peak Yield 310.68 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1979 - 1980 , 1997 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 10 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

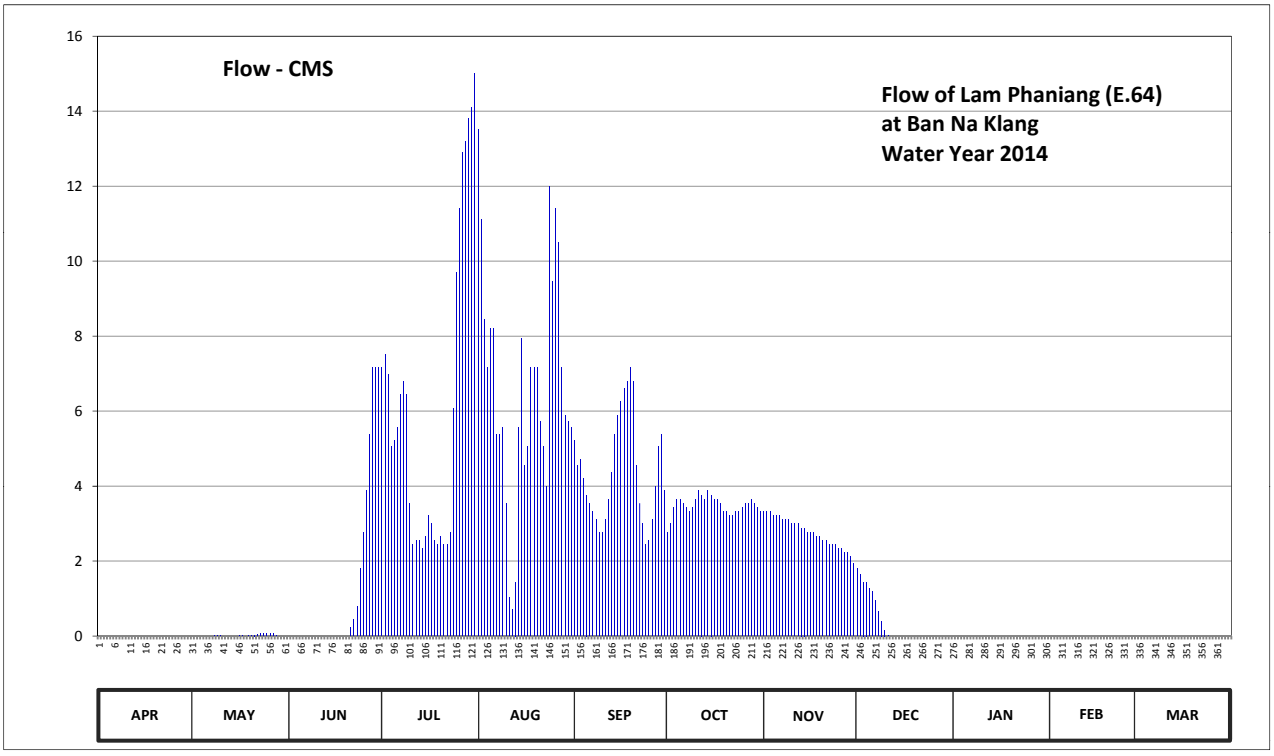
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.84	256.94	256.97	257.97	258.21	257.86	257.67	257.72	257.57	256.72	256.57	256.37	
2	256.84	256.95	256.97	257.99	258.13	257.82	257.69	257.72	257.55	256.72	256.56	256.38	
3	256.84	256.96	256.97	257.96	258.03	257.83	257.73	257.72	257.52	256.72	256.56	256.41	
4	256.84	256.97	256.97	257.85	257.97	257.80	257.75	257.71	257.52	256.71	256.56	256.42	
5	256.84	256.97	256.97	257.86	258.02	257.76	257.75	257.71	257.49	256.71	256.55	256.43	
6	256.84	256.97	256.92	257.88	258.02	257.74	257.74	257.71	257.47	256.71	256.55	256.44	
7	256.84	257.00	256.92	257.93	257.87	257.72	257.73	257.70	257.41	256.70	256.55	256.45	
8	256.84	257.01	256.92	257.95	257.87	257.70	257.72	257.70	257.34	256.70	256.54	256.46	
9	256.84	257.02	256.92	257.93	257.88	257.67	257.73	257.70	257.25	256.68	256.54	256.47	
10	256.85	257.02	256.92	257.74	257.74	257.67	257.75	257.69	257.13	256.67	256.54	256.48	
11	256.92	257.00	256.87	257.64	257.43	257.70	257.77	257.69	257.01	256.66	256.55	256.49	
12	256.92	256.99	256.87	257.65	257.35	257.75	257.76	257.69	256.91	256.64	256.54	256.50	
13	256.92	256.98	256.87	257.65	257.52	257.81	257.75	257.68	256.83	256.62	256.53	256.51	
14	256.92	256.98	256.87	257.63	257.88	257.87	257.77	257.68	256.77	256.63	256.52	256.52	
15	256.92	257.00	256.87	257.66	258.01	257.90	257.76	257.67	256.76	256.63	256.53	256.53	
16	256.95	257.01	256.77	257.71	257.82	257.92	257.75	257.67	256.76	256.64	256.54	256.54	
17	256.95	257.01	256.77	257.69	257.85	257.94	257.75	257.67	256.76	256.65	256.53	256.56	
18	256.95	257.00	256.77	257.65	257.97	257.95	257.74	257.66	256.76	256.66	256.51	256.56	
19	256.95	257.01	256.77	257.64	257.97	257.97	257.72	257.66	256.76	256.67	256.50	256.57	
20	256.95	257.01	256.77	257.66	257.97	257.95	257.72	257.65	256.76	256.65	256.48	256.57	
21	256.97	257.03	257.17	257.64	257.89	257.82	257.71	257.65	256.75	256.62	256.48	256.54	
22	256.97	257.05	257.27	257.64	257.85	257.74	257.71	257.64	256.75	256.62	256.47	256.53	
23	256.97	257.06	257.37	257.67	257.78	257.69	257.72	257.64	256.75	256.62	256.46	256.52	
24	256.97	257.07	257.57	257.91	258.16	257.64	257.72	257.64	256.74	256.63	256.44	256.50	
25	256.96	257.07	257.67	258.08	258.07	257.65	257.73	257.63	256.74	256.65	256.42	256.50	
26	256.94	257.07	257.77	258.14	258.14	257.70	257.74	257.63	256.73	256.66	256.40	256.51	
27	256.94	257.06	257.87	258.19	258.11	257.78	257.74	257.62	256.73	256.66	256.38	256.52	
28	256.94	257.01	257.97	258.20	257.97	257.85	257.75	257.62	256.72	256.64	256.37	256.55	
29	256.94	256.99	257.97	258.22	257.90	257.87	257.74	257.61	256.72	256.61		256.55	
30	256.94	256.98	257.97	258.23	257.89	257.77	257.73	257.59	256.72	256.59		256.56	
31		256.97		258.26	257.88		257.72		256.72	256.58		256.57	
Mean	256.91	257.01	257.14	257.87	257.91	257.79	257.73	257.67	256.98	256.66	256.51	256.50	
Max	256.97	257.07	257.97	258.26	258.21	257.97	257.77	257.72	257.57	256.72	256.57	256.57	258.26
Min	256.84	256.94	256.77	257.63	257.35	257.64	257.67	257.59	256.72	256.58	256.37	256.37	256.37

Annual Max Momentary Gage Height 258.27 m. (MSL.) , at 11.00 Hours, on Jul 31, 2014

Zero Gage at Bottom Elevation 254.47 m. (MSL.) , River Bed 254.14 m. (MSL.)

Left Bank Elevation 261.46 m. (MSL.) ,

Right Bank Elevation 261.40 m. (MSL.) , Drainage Area 362 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	7.16	13.50	5.22	2.77	3.32	1.79	0.00	0.00	0.00		
2	0.00	0.00	0.00	7.52	11.10	4.54	2.99	3.32	1.65	0.00	0.00	0.00		
3	0.00	0.00	0.00	6.98	8.45	4.71	3.43	3.32	1.44	0.00	0.00	0.00		
4	0.00	0.00	0.00	5.05	7.16	4.20	3.65	3.21	1.44	0.00	0.00	0.00		
5	0.00	0.00	0.00	5.22	8.20	3.76	3.65	3.21	1.26	0.00	0.00	0.00		
6	0.00	0.00	0.00	5.56	8.20	3.54	3.54	3.21	1.18	0.00	0.00	0.00		
7	0.00	0.00	0.00	6.44	5.39	3.32	3.43	3.10	0.94	0.00	0.00	0.00		
8	0.00	0.01	0.00	6.80	5.39	3.10	3.32	3.10	0.66	0.00	0.00	0.00		
9	0.00	0.02	0.00	6.44	5.56	2.77	3.43	3.10	0.40	0.00	0.00	0.00		
10	0.00	0.02	0.00	3.54	3.54	2.77	3.65	2.99	0.16	0.00	0.00	0.00		
11	0.00	0.00	0.00	2.44	1.02	3.10	3.87	2.99	0.01	0.00	0.00	0.00		
12	0.00	0.00	0.00	2.55	0.70	3.65	3.76	2.99	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	2.55	1.44	4.37	3.65	2.88	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	2.33	5.56	5.39	3.87	2.88	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	2.66	7.95	5.90	3.76	2.77	0.00	0.00	0.00	0.00		
16	0.00	0.01	0.00	3.21	4.54	6.26	3.65	2.77	0.00	0.00	0.00	0.00		
17	0.00	0.01	0.00	2.99	5.05	6.62	3.65	2.77	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	2.55	7.16	6.80	3.54	2.66	0.00	0.00	0.00	0.00		
19	0.00	0.01	0.00	2.44	7.16	7.16	3.32	2.66	0.00	0.00	0.00	0.00		
20	0.00	0.01	0.00	2.66	7.16	6.80	3.32	2.55	0.00	0.00	0.00	0.00		
21	0.00	0.03	0.24	2.44	5.73	4.54	3.21	2.55	0.00	0.00	0.00	0.00		
22	0.00	0.05	0.44	2.44	5.05	3.54	3.21	2.44	0.00	0.00	0.00	0.00		
23	0.00	0.06	0.78	2.77	3.98	2.99	3.32	2.44	0.00	0.00	0.00	0.00		
24	0.00	0.07	1.79	6.08	12.00	2.44	3.32	2.44	0.00	0.00	0.00	0.00		
25	0.00	0.07	2.77	9.70	9.45	2.55	3.43	2.33	0.00	0.00	0.00	0.00		
26	0.00	0.07	3.87	11.40	11.40	3.10	3.54	2.33	0.00	0.00	0.00	0.00		
27	0.00	0.06	5.39	12.90	10.50	3.98	3.54	2.22	0.00	0.00	0.00	0.00		
28	0.00	0.01	7.16	13.20	7.16	5.05	3.65	2.22	0.00	0.00	0.00	0.00		
29	0.00	0.00	7.16	13.80	5.90	5.39	3.54	2.11	0.00	0.00		0.00		
30	0.00	0.00	7.16	14.10	5.73	3.87	3.43	1.93	0.00	0.00		0.00		
31		0.00		15.00	5.56		3.32		0.00	0.00		0.00		
Total	0.00	0.51	36.76	190.92	206.69	131.43	107.76	82.81	10.93	0.00	0.00	0.00	767.81	CMSDAY
Mean	0.00	0.02	1.23	6.16	6.67	4.38	3.48	2.76	0.35	0.00	0.00	0.00	2.10	CMS
Max	0.00	0.07	7.16	15.00	13.50	7.16	3.87	3.32	1.79	0.00	0.00	0.00	15.00	CMS
Min	0.00	0.00	0.00	2.33	0.70	2.44	2.77	1.93	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.04	3.18	16.50	17.86	11.36	9.31	7.16	0.94	0.00	0.00	0.00	66.34	MCM

Momentary Peak 15.30 CMS, at 258.27 m. (MSL.), at 11.00 Hours, on Jul 31, 2014

Runoff Yield 5.81 Liters/Second/Square KM. Momentary Peak Yield 42.265 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

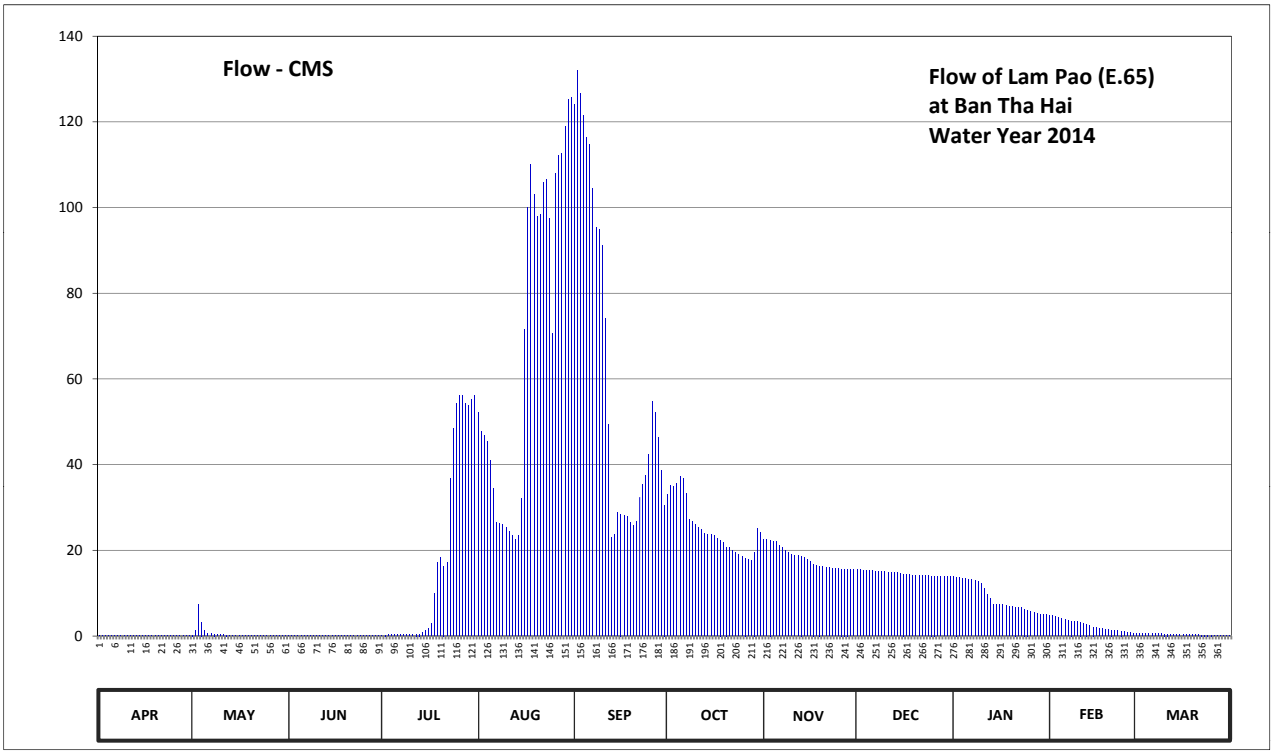
Location : on left bank at the bridge on highway.

	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.- Highways Dept.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +169.494 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 Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by Lam Pao Dam.		
	Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.00	160.14	159.95	160.01	163.73	165.31	163.20	162.78	162.37	162.24	161.48	160.49	
2	160.00	160.83	159.95	160.17	163.63	165.46	163.27	162.78	162.37	162.23	161.45	160.49	
3	160.00	161.70	159.94	160.23	163.61	165.36	163.26	162.77	162.36	162.22	161.42	160.48	
4	160.00	161.21	159.94	160.25	163.58	165.26	163.29	162.75	162.36	162.21	161.38	160.48	
5	160.00	160.81	159.94	160.28	163.47	165.16	163.34	162.75	162.35	162.20	161.34	160.47	
6	159.99	160.49	159.94	160.30	163.25	165.13	163.33	162.71	162.35	162.19	161.31	160.46	
7	159.99	160.40	159.94	160.31	162.98	164.92	163.21	162.68	162.34	162.18	161.28	160.44	
8	159.99	160.37	159.93	160.33	162.96	164.71	163.01	162.65	162.34	162.17	161.25	160.43	
9	159.99	160.33	159.93	160.31	162.95	164.70	162.99	162.62	162.33	162.15	161.23	160.41	
10	159.99	160.25	159.93	160.29	162.92	164.62	162.95	162.60	162.33	162.11	161.23	160.39	
11	159.98	160.20	159.92	160.34	162.87	164.23	162.92	162.59	162.32	162.00	161.21	160.36	
12	159.98	160.14	159.92	160.37	162.82	163.67	162.89	162.59	162.32	161.89	161.17	160.32	
13	159.98	160.10	159.92	160.38	162.78	162.80	162.85	162.58	162.31	161.81	161.13	160.29	
14	159.98	160.06	159.92	160.58	162.82	162.84	162.84	162.56	162.31	161.70	161.08	160.29	
15	159.96	160.04	159.92	160.82	163.17	163.06	162.84	162.53	162.30	161.69	161.02	160.28	
16	159.94	160.03	159.92	160.93	164.17	163.05	162.82	162.50	162.29	161.69	160.98	160.25	
17	159.94	160.02	159.92	161.14	164.82	163.04	162.79	162.46	162.28	161.69	160.95	160.24	
18	159.94	160.01	159.92	161.91	165.04	163.03	162.77	162.44	162.28	161.67	160.92	160.22	
19	159.94	159.99	159.93	162.48	164.89	162.98	162.74	162.43	162.27	161.66	160.89	160.20	
20	159.94	159.97	159.93	162.56	164.77	162.94	162.69	162.42	162.27	161.66	160.86	160.19	
21	159.93	159.95	159.93	162.43	164.78	162.99	162.68	162.41	162.26	161.65	160.84	160.18	
22	159.93	159.94	159.93	162.48	164.95	163.18	162.65	162.40	162.26	161.64	160.82	160.17	
23	159.93	159.94	159.94	163.33	164.97	163.28	162.62	162.39	162.26	161.63	160.80	160.16	
24	159.93	159.93	159.94	163.65	164.76	163.35	162.60	162.39	162.26	161.61	160.76	160.15	
25	159.92	159.94	159.94	163.78	164.15	163.51	162.57	162.39	162.25	161.59	160.72	160.14	
26	159.92	159.93	159.95	163.82	165.00	163.79	162.55	162.38	162.25	161.56	160.64	160.13	
27	159.91	159.94	159.96	163.82	165.08	163.73	162.53	162.38	162.24	161.54	160.59	160.12	
28	159.92	159.94	159.95	163.78	165.09	163.60	162.51	162.38	162.24	161.52	160.53	160.11	
29	159.98	159.94	159.95	163.77	165.21	163.39	162.63	162.37	162.24	161.51		160.11	
30	160.04	159.94	159.94	163.80	165.33	163.12	162.90	162.37	162.24	161.50		160.10	
31		159.94		163.82	165.34		162.86		162.24	161.49		160.09	
Mean	159.96	160.21	159.93	161.69	164.06	163.87	162.87	162.53	162.30	161.83	161.05	160.28	
Max	160.04	161.70	159.96	163.82	165.34	165.46	163.34	162.78	162.37	162.24	161.48	160.49	165.46
Min	159.91	159.93	159.92	160.01	162.78	162.80	162.51	162.37	162.24	161.49	160.53	160.09	159.91

Annual Max Momentary Gage Height	165.49	m. (MSL.) ,	at 24.00 Hours, on Sep 1, 2014		
Zero Gage at Bottom Elevation	158.99	m. (MSL.) ,	River Bed	159.12	m. (MSL.)
Left Bank Elevation	169.45	m. (MSL.) ,			
Right Bank Elevation	166.42	m. (MSL.) ,	Drainage Area	2149	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.24	0.05	0.11	52.12	124.12	33.00	22.60	15.51	13.88	4.88	0.59		
2	0.10	1.39	0.05	0.27	47.72	131.92	35.10	22.60	15.51	13.76	4.70	0.59		
3	0.10	7.40	0.04	0.33	46.84	126.72	34.80	22.40	15.38	13.64	4.52	0.58		
4	0.10	3.26	0.04	0.35	45.52	121.52	35.70	22.00	15.38	13.52	4.28	0.58		
5	0.10	1.33	0.04	0.38	41.10	116.32	37.20	22.00	15.25	13.40	4.04	0.57		
6	0.09	0.59	0.04	0.40	34.50	114.76	36.90	21.20	15.25	13.28	3.86	0.56		
7	0.09	0.50	0.04	0.41	26.60	104.48	33.30	20.60	15.12	13.16	3.68	0.54		
8	0.09	0.47	0.03	0.43	26.20	95.24	27.30	20.00	15.12	13.04	3.50	0.53		
9	0.09	0.43	0.03	0.41	26.00	94.80	26.80	19.40	14.99	12.80	3.38	0.51		
10	0.09	0.35	0.03	0.39	25.40	91.28	26.00	19.00	14.99	12.32	3.38	0.49		
11	0.08	0.30	0.02	0.44	24.40	74.12	25.40	18.84	14.86	11.00	3.26	0.46		
12	0.08	0.24	0.02	0.47	23.40	49.48	24.80	18.84	14.86	9.68	3.02	0.42		
13	0.08	0.20	0.02	0.48	22.60	23.00	24.00	18.68	14.73	8.72	2.78	0.39		
14	0.08	0.16	0.02	0.76	23.40	23.80	23.80	18.36	14.73	7.40	2.48	0.39		
15	0.06	0.14	0.02	1.36	32.10	28.80	23.80	17.88	14.60	7.28	2.12	0.38		
16	0.04	0.13	0.02	1.72	71.48	28.50	23.40	17.40	14.48	7.28	1.92	0.35		
17	0.04	0.12	0.02	2.84	100.08	28.20	22.80	16.80	14.36	7.28	1.80	0.34		
18	0.04	0.11	0.02	9.92	110.08	27.90	22.40	16.50	14.36	7.04	1.68	0.32		
19	0.04	0.09	0.03	17.10	103.16	26.60	21.80	16.35	14.24	6.92	1.57	0.30		
20	0.04	0.07	0.03	18.36	97.88	25.80	20.80	16.20	14.24	6.92	1.48	0.29		
21	0.03	0.05	0.03	16.35	98.32	26.80	20.60	16.05	14.12	6.80	1.42	0.28		
22	0.03	0.04	0.03	17.10	105.80	32.40	20.00	15.90	14.12	6.68	1.36	0.27		
23	0.03	0.04	0.04	36.90	106.68	35.40	19.40	15.77	14.12	6.56	1.30	0.26		
24	0.03	0.03	0.04	48.60	97.44	37.50	19.00	15.77	14.12	6.32	1.18	0.25		
25	0.02	0.04	0.04	54.32	70.60	42.44	18.52	15.77	14.00	6.08	1.06	0.24		
26	0.02	0.03	0.05	56.08	108.00	54.76	18.20	15.64	14.00	5.72	0.88	0.23		
27	0.01	0.04	0.06	56.08	112.16	52.12	17.88	15.64	13.88	5.48	0.78	0.22		
28	0.02	0.04	0.05	54.32	112.68	46.40	17.56	15.64	13.88	5.24	0.66	0.21		
29	0.08	0.04	0.05	53.88	118.92	38.70	19.60	15.51	13.88	5.12		0.21		
30	0.14	0.04	0.04	55.20	125.16	30.60	25.00	15.51	13.88	5.00		0.20		
31		0.04		56.08	125.68		24.20		13.88	4.94		0.19		
Total	1.94	17.95	1.04	561.84	2162.02	1854.48	779.06	544.85	451.84	276.26	70.97	11.74	6733.99	CMSDAY
Mean	0.06	0.58	0.03	18.12	69.74	61.82	25.13	18.16	14.58	8.91	2.53	0.38	18.45	CMS
Max	0.14	7.40	0.06	56.08	125.68	131.92	37.20	22.60	15.51	13.88	4.88	0.59	131.92	CMS
Min	0.01	0.03	0.02	0.11	22.60	23.00	17.56	15.51	13.88	4.94	0.66	0.19	0.01	CMS
Runoff	0.17	1.55	0.09	48.54	186.80	160.23	67.31	47.08	39.04	23.87	6.13	1.01	581.82	MCM

Momentary Peak 133.48 CMS, at 165.49 m. (MSL.), at 24.00 Hours, on Sep 1, 2014

Runoff Yield 8.59 Liters/Second/Square KM. Momentary Peak Yield 62.113 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

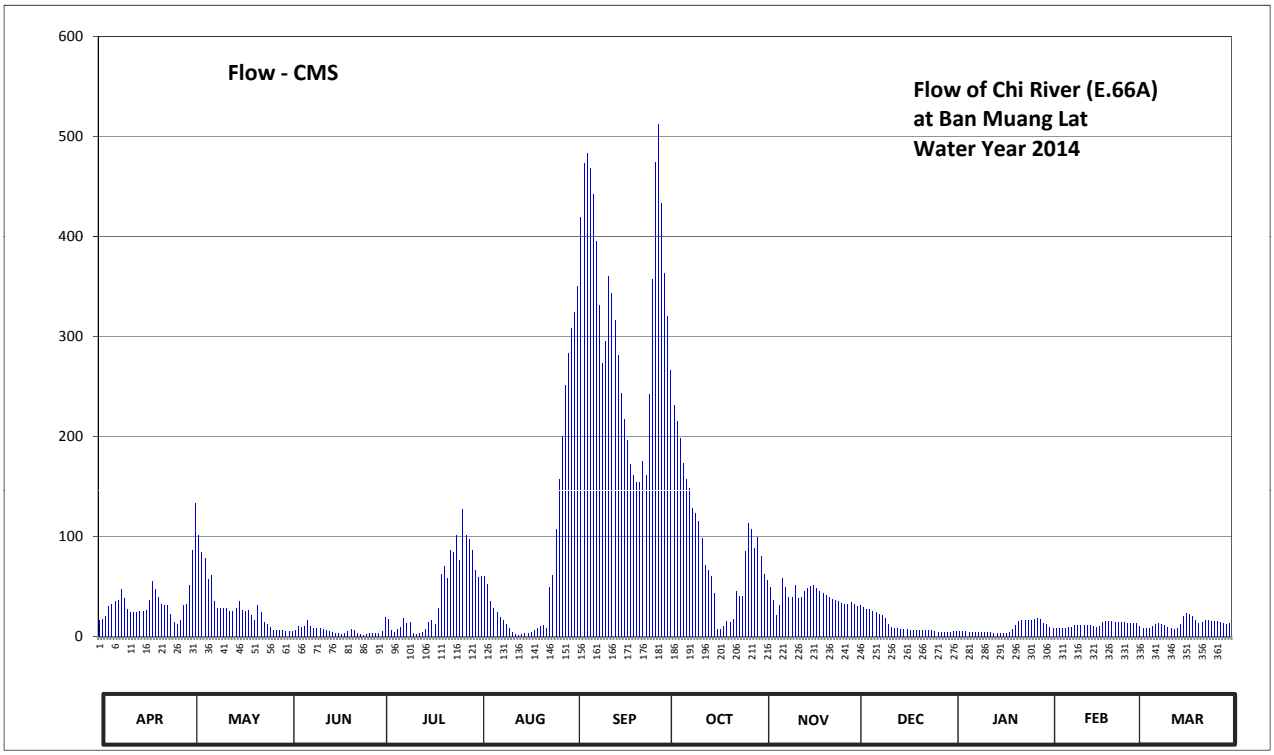
Location : on right bank at the bridge.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.30	131.45	129.80	129.78	131.15	133.92	133.88	131.20	130.65	129.73	130.06	130.21	
2	130.33	131.83	129.80	130.38	131.16	134.18	133.32	131.10	130.66	129.73	130.04	130.11	
3	130.40	131.58	129.87	130.34	131.17	134.84	132.90	131.00	130.63	129.73	130.01	130.03	
4	130.65	131.43	130.12	129.89	131.04	135.33	132.71	130.78	130.59	129.72	130.01	130.01	
5	130.70	131.37	130.06	129.68	130.74	135.42	132.49	130.43	130.58	129.71	130.01	130.02	
6	130.75	131.12	130.11	129.93	130.62	135.28	132.17	130.66	130.55	129.69	130.02	130.12	
7	130.77	131.18	130.32	130.07	130.50	135.05	131.94	131.14	130.51	129.64	130.06	130.20	
8	130.95	130.75	130.11	130.36	130.39	134.62	131.82	131.00	130.47	129.62	130.09	130.23	
9	130.81	130.62	130.01	130.23	130.31	133.99	131.53	130.82	130.45	129.62	130.14	130.18	
10	130.58	130.60	130.01	130.24	130.19	133.40	131.46	130.82	130.37	129.62	130.16	130.14	
11	130.52	130.61	130.00	129.52	130.03	133.63	131.35	131.02	130.17	129.62	130.16	130.08	
12	130.50	130.60	129.96	129.30	129.67	134.28	131.07	130.81	130.07	129.62	130.16	130.04	
13	130.52	130.55	129.87	129.43	129.35	134.11	130.63	130.82	130.05	129.61	130.16	129.99	
14	130.54	130.54	129.77	129.63	129.18	133.84	130.53	130.92	130.02	129.58	130.16	130.01	
15	130.54	130.62	129.66	129.90	129.27	133.49	130.42	130.97	129.97	129.58	130.13	130.20	
16	130.56	130.74	129.54	130.25	129.49	133.05	130.07	131.01	129.92	129.58	130.06	130.40	
17	130.76	130.56	129.43	130.31	129.54	132.73	129.96	131.02	129.90	129.58	130.11	130.49	
18	131.09	130.53	129.39	130.20	129.62	132.47	129.97	130.97	129.87	129.58	130.25	130.47	
19	130.95	130.56	129.54	130.62	129.83	132.16	130.11	130.92	129.84	129.66	130.27	130.42	
20	130.82	130.43	129.73	131.20	130.03	132.00	130.29	130.89	129.84	129.92	130.29	130.31	
21	130.69	130.31	129.90	131.28	130.12	131.90	130.26	130.86	129.84	130.15	130.27	130.22	
22	130.67	130.66	129.83	131.13	130.16	131.90	130.33	130.83	129.84	130.28	130.25	130.25	
23	130.67	130.50	129.54	131.45	130.02	132.20	130.93	130.80	129.82	130.30	130.25	130.32	
24	130.47	130.26	129.29	131.42	130.19	132.01	130.85	130.77	129.81	130.31	130.25	130.31	
25	130.24	130.19	129.14	131.58	130.44	133.04	130.84	130.74	129.81	130.31	130.24	130.27	
26	130.17	130.10	129.31	131.35	131.23	134.25	131.44	130.71	129.73	130.32	130.22	130.29	
27	130.31	129.89	129.49	131.79	131.95	135.34	131.68	130.68	129.68	130.34	130.22	130.27	
28	130.67	129.88	129.47	131.58	132.52	135.68	131.63	130.68	129.64	130.36	130.22	130.24	
29	130.69	129.87	129.43	131.55	133.15	134.97	131.46	130.73	129.62	130.33		130.21	
30	131.02	129.84	129.49	131.45	133.51	134.31	131.56	130.69	129.62	130.21		130.19	
31		129.80		131.24	133.76		131.38		129.62	130.20		130.22	
Mean	130.62	130.61	129.73	130.55	130.66	133.78	131.32	130.86	130.07	129.88	130.15	130.21	
Max	131.09	131.83	130.32	131.79	133.76	135.68	133.88	131.20	130.66	130.36	129.29	130.49	135.68
Min	130.17	129.80	129.14	129.30	129.18	131.90	129.96	130.43	129.62	129.58	130.01	129.99	129.14

Annual Max Momentary Gage Height	135.82	m. (MSL.) ,	at 06.00 Hours, on Sep 28, 2014		
Zero Gage at Bottom Elevation	126.90	m. (MSL.) ,	River Bed	126.70	m. (MSL.)
Left Bank Elevation	141.57	m. (MSL.) ,			
Right Bank Elevation	143.45	m. (MSL.) ,	Drainage Area	31879	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.00	87.00	6.00	5.80	59.50	324.00	320.00	63.00	30.50	5.30	9.20	13.30		
2	17.20	133.50	6.00	19.20	60.20	350.00	265.80	56.00	31.00	5.30	8.80	10.30		
3	20.00	101.60	6.70	17.60	60.90	419.40	231.00	50.00	29.50	5.30	8.20	8.60		
4	30.50	85.00	10.60	6.90	52.40	473.30	215.80	37.00	27.60	5.20	8.20	8.20		
5	33.00	79.00	9.20	4.80	35.00	483.20	198.20	21.20	27.20	5.10	8.20	8.40		
6	35.50	57.40	10.30	7.30	29.00	467.80	172.90	31.00	26.00	4.90	8.40	10.60		
7	36.50	61.60	16.80	9.40	24.00	442.50	156.80	58.80	24.40	4.40	9.20	13.00		
8	47.00	35.50	10.30	18.40	19.60	395.20	148.40	50.00	22.80	4.20	9.80	13.90		
9	38.60	29.00	8.20	13.90	16.40	331.00	128.10	39.20	22.00	4.20	11.20	12.40		
10	27.20	28.00	8.20	14.20	12.70	273.00	123.20	39.20	18.80	4.20	11.80	11.20		
11	24.80	28.50	8.00	3.60	8.60	295.00	115.50	51.20	12.10	4.20	11.80	9.60		
12	24.00	28.00	7.60	2.50	4.70	360.00	98.20	38.60	9.40	4.20	11.80	8.80		
13	24.80	26.00	6.70	3.15	2.75	343.00	71.80	39.20	9.00	4.10	11.80	7.90		
14	25.60	25.60	5.70	4.30	1.90	316.00	66.50	45.20	8.40	3.90	11.80	8.20		
15	25.60	29.00	4.60	7.00	2.35	281.10	61.00	48.20	7.70	3.90	10.90	13.00		
16	26.40	35.00	3.70	14.50	3.45	243.00	43.50	50.60	7.20	3.90	9.20	20.00		
17	36.00	26.40	3.15	16.40	3.70	217.40	7.60	51.20	7.00	3.90	10.30	23.60		
18	55.40	25.20	2.95	13.00	4.20	196.60	7.70	48.20	6.70	3.90	14.50	22.80		
19	47.00	26.40	3.70	29.00	6.30	172.20	10.30	45.20	6.40	4.60	15.10	20.80		
20	39.20	21.20	5.30	63.00	8.60	161.00	15.70	43.40	6.40	7.20	15.70	16.40		
21	32.50	16.40	7.00	70.20	10.60	154.00	14.80	41.60	6.40	11.50	15.10	13.60		
22	31.50	31.00	6.30	58.10	11.80	154.00	17.20	39.80	6.40	15.40	14.50	14.50		
23	31.50	24.00	3.70	87.00	8.40	175.00	45.80	38.00	6.20	16.00	14.50	16.80		
24	22.80	14.80	2.45	84.00	49.50	161.70	41.00	36.50	6.10	16.40	14.50	16.40		
25	14.20	12.70	1.70	101.60	62.00	242.20	40.40	35.00	6.10	16.40	14.20	15.10		
26	12.10	10.00	2.55	77.00	107.80	357.00	86.00	33.50	5.30	16.80	13.60	15.70		
27	16.40	6.90	3.45	127.70	157.50	474.40	113.60	32.00	4.80	17.60	13.60	15.10		
28	31.50	6.80	3.35	101.60	200.60	511.80	107.60	32.00	4.40	18.40	13.60	14.20		
29	32.50	6.70	3.15	98.00	251.00	433.70	88.00	34.50	4.20	17.20		13.30		
30	51.20	6.40	3.45	87.00	283.00	363.00	99.20	32.50	4.20	13.30		12.70		
31		6.00		66.60	308.00		80.00		4.20	13.00		13.60		
Total	906.50	1110.60	180.80	1232.75	1866.45	9571.50	3191.60	1261.80	398.40	263.90	329.50	422.00	20735.80	CMSDAY
Mean	30.22	35.83	6.03	39.77	60.21	319.05	102.95	42.06	12.85	8.51	11.77	13.61	56.81	CMS
Max	55.40	133.50	16.80	127.70	308.00	511.80	320.00	63.00	31.00	18.40	15.70	23.60	511.80	CMS
Min	12.10	6.00	1.70	2.50	1.90	154.00	7.60	21.20	4.20	3.90	8.20	7.90	1.70	CMS
Runoff	78.32	95.96	15.62	106.51	161.26	826.98	275.75	109.02	34.42	22.80	28.47	36.46	1791.57	MCM

Momentary Peak 527.20 CMS, at 135.82 m. (MSL.), at 06.00 Hours, on Sep 28, 2014

Runoff Yield 1.78 Liters/Second/Square KM. Momentary Peak Yield 16.538 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

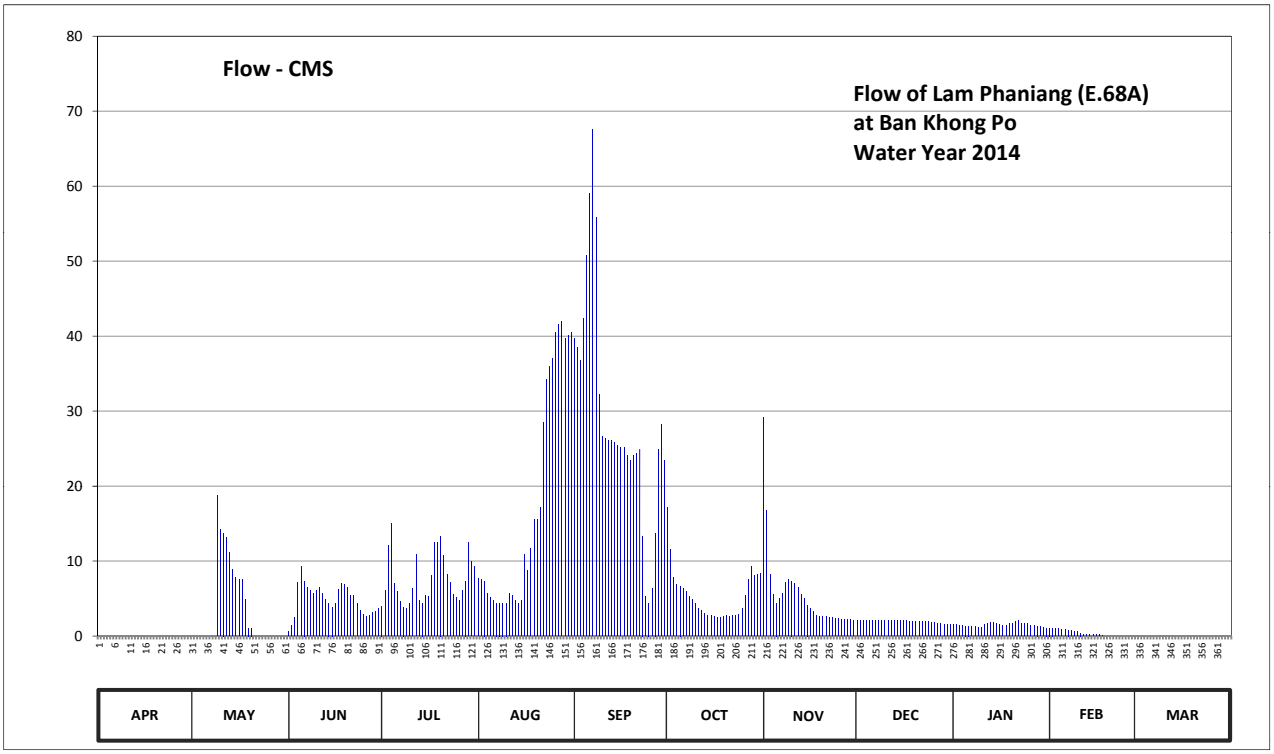
Location : on left bank at the bridge of Nong Bua Lamphu - Amphoe Non Sang Highway.

	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 Flot	-		
Rated by Current Meter	1997 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 10 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	195.91	195.83	196.67	197.00	197.24	198.43	197.70	198.12	196.83	196.78	196.73	196.75	
2	195.91	195.83	196.77	197.14	197.23	198.40	197.44	197.68	196.83	196.78	196.73	197.13	
3	195.91	195.85	196.87	197.47	197.22	198.35	197.25	197.27	196.83	196.77	196.72	197.33	
4	195.91	195.86	197.21	197.61	197.12	198.50	197.19	197.11	196.83	196.77	196.72	197.33	
5	195.91	195.86	197.33	197.20	197.08	198.70	197.18	197.03	196.83	196.76	196.71	197.33	
6	195.91	195.87	197.22	197.13	197.05	198.89	197.16	197.07	196.83	196.76	196.71	197.34	
7	195.91	195.88	197.17	197.04	197.03	199.07	197.13	197.12	196.83	196.75	196.70	197.35	
8	195.90	196.41	197.14	196.99	197.03	198.82	197.09	197.21	196.83	196.75	196.69	197.36	
9	195.88	197.76	197.12	196.97	197.03	198.22	197.06	197.23	196.83	196.74	196.68	197.37	
10	195.88	197.57	197.14	197.02	197.03	198.04	197.02	197.22	196.83	196.74	196.67	197.38	
11	195.88	197.55	197.17	197.16	197.12	198.03	196.97	197.20	196.83	196.78	196.65	197.39	
12	195.88	197.52	197.12	197.41	197.10	198.02	196.95	197.17	196.83	196.79	196.63	197.40	
13	195.88	197.42	197.06	197.05	197.05	198.02	196.92	197.11	196.83	196.81	196.63	197.41	
14	195.88	197.31	197.03	197.03	197.02	198.01	196.90	197.07	196.83	196.81	196.63	197.42	
15	195.87	197.25	196.99	197.10	197.05	198.00	196.89	197.01	196.83	196.80	196.62	197.43	
16	195.87	197.23	197.02	197.09	197.41	197.99	196.88	196.97	196.83	196.78	196.62	197.42	
17	195.86	197.23	197.15	197.26	197.30	197.99	196.87	196.94	196.83	196.77	196.62	197.41	
18	195.85	197.06	197.20	197.49	197.45	197.95	196.87	196.90	196.82	196.77	196.61	197.40	
19	195.85	196.73	197.19	197.49	197.63	197.93	196.88	196.88	196.82	196.79	196.60	197.39	
20	195.83	196.73	197.17	197.53	197.63	197.95	196.89	196.88	196.82	196.79	196.59	197.38	
21	195.83	196.53	197.10	197.40	197.70	197.96	196.88	196.88	196.82	196.82	196.57	197.40	
22	195.83	196.42	197.10	197.27	198.10	197.98	196.89	196.87	196.82	196.83	196.55	197.42	
23	195.83	196.32	197.02	197.21	198.28	197.53	196.89	196.87	196.82	196.80	196.54	197.44	
24	195.83	196.20	196.95	197.11	198.33	197.09	196.91	196.86	196.82	196.80	196.56	197.46	
25	195.83	196.13	196.91	197.08	198.36	197.03	196.97	196.86	196.81	196.79	196.57	197.48	
26	195.83	196.13	196.88	197.05	198.45	197.16	197.10	196.85	196.81	196.77	196.56	197.50	
27	195.83	196.13	196.89	197.14	198.48	197.55	197.23	196.85	196.80	196.77	196.54	197.52	
28	195.83	196.10	196.93	197.22	198.49	197.98	197.33	196.85	196.79	196.76	196.53	197.54	
29	195.83	196.03	196.94	197.49	198.43	198.09	197.26	196.84	196.78	196.75		197.55	
30	195.83	196.03	196.97	197.36	198.44	197.93	197.27	196.83	196.78	196.74		197.54	
31		196.03		197.33	198.45		197.28		196.78	196.73		197.55	
Mean	195.87	196.54	197.05	197.22	197.59	198.05	197.07	197.06	196.82	196.78	196.63	197.39	
Max	195.91	197.76	197.33	197.61	198.49	199.07	197.70	198.12	196.83	196.83	196.73	197.55	199.07
Min	195.83	195.83	196.67	196.97	197.02	197.03	196.87	196.83	196.78	196.73	196.53	196.75	195.83

Annual Max Momentary Gage Height	199.13	m. (MSL.) ,	at 12.00 Hours, on Sep 7, 2014			
Zero Gage at Bottom Elevation	194.73	m. (MSL.) ,	River Bed	193.67	m. (MSL.)	
Left Bank Elevation	201.51	m. (MSL.) ,				
Right Bank Elevation	201.52	m. (MSL.) ,	Drainage Area	1364	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.56	4.00	7.68	39.67	17.20	29.10	2.03	1.52	1.07	0.00		
2	0.00	0.00	1.43	6.04	7.51	38.50	11.50	16.72	2.03	1.52	1.07	0.00		
3	0.00	0.00	2.47	12.10	7.34	36.70	7.85	8.19	2.03	1.43	0.98	0.00		
4	0.00	0.00	7.17	15.04	5.72	42.40	6.84	5.56	2.03	1.43	0.98	0.00		
5	0.00	0.00	9.30	7.00	5.12	50.70	6.68	4.42	2.03	1.34	0.89	0.00		
6	0.00	0.00	7.34	5.88	4.70	58.96	6.36	4.98	2.03	1.34	0.89	0.00		
7	0.00	0.00	6.52	4.56	4.42	67.56	5.88	5.72	2.03	1.25	0.80	0.00		
8	0.00	0.00	6.04	3.88	4.42	55.88	5.26	7.17	2.03	1.25	0.72	0.00		
9	0.00	18.76	5.72	3.64	4.42	32.18	4.84	7.51	2.03	1.16	0.64	0.00		
10	0.00	14.17	6.04	4.28	4.42	26.70	4.28	7.34	2.03	1.16	0.56	0.00		
11	0.00	13.75	6.52	6.36	5.72	26.40	3.64	7.00	2.03	1.52	0.40	0.00		
12	0.00	13.12	5.72	10.90	5.40	26.10	3.40	6.52	2.03	1.61	0.24	0.00		
13	0.00	11.10	4.84	4.70	4.70	26.10	3.04	5.56	2.03	1.81	0.24	0.00		
14	0.00	8.90	4.42	4.42	4.28	25.80	2.80	4.98	2.03	1.81	0.24	0.00		
15	0.00	7.85	3.88	5.40	4.70	25.50	2.69	4.14	2.03	1.70	0.16	0.00		
16	0.00	7.51	4.28	5.26	10.90	25.21	2.58	3.64	2.03	1.52	0.16	0.00		
17	0.00	7.51	6.20	8.02	8.70	25.21	2.47	3.28	2.03	1.43	0.16	0.00		
18	0.00	4.84	7.00	12.50	11.70	24.05	2.47	2.80	1.92	1.43	0.08	0.00		
19	0.00	1.07	6.84	12.50	15.52	23.47	2.58	2.58	1.92	1.61	0.00	0.00		
20	0.00	1.07	6.52	13.33	15.52	24.05	2.69	2.58	1.92	1.61	0.00	0.00		
21	0.00	0.00	5.40	10.70	17.20	24.34	2.58	2.58	1.92	1.92	0.00	0.00		
22	0.00	0.00	5.40	8.19	28.50	24.92	2.69	2.47	1.92	2.03	0.00	0.00		
23	0.00	0.00	4.28	7.17	34.22	13.33	2.69	2.47	1.92	1.70	0.00	0.00		
24	0.00	0.00	3.40	5.56	35.98	5.26	2.92	2.36	1.92	1.70	0.00	0.00		
25	0.00	0.00	2.92	5.12	37.06	4.42	3.64	2.36	1.81	1.61	0.00	0.00		
26	0.00	0.00	2.58	4.70	40.45	6.36	5.40	2.25	1.81	1.43	0.00	0.00		
27	0.00	0.00	2.69	6.04	41.62	13.75	7.51	2.25	1.70	1.43	0.00	0.00		
28	0.00	0.00	3.16	7.34	42.01	24.92	9.30	2.25	1.61	1.34	0.00	0.00		
29	0.00	0.00	3.28	12.50	39.67	28.20	8.02	2.14	1.52	1.25		0.00		
30	0.00	0.00	3.64	9.90	40.06	23.47	8.19	2.03	1.52	1.16		0.00		
31		0.00		9.30	40.45		8.36		1.52	1.07		0.00		
Total	0.00	109.65	145.56	236.33	540.11	870.11	166.35	162.95	59.44	46.09	10.28	0.00	2346.87	CMSDAY
Mean	0.00	3.54	4.85	7.62	17.42	29.00	5.37	5.43	1.92	1.49	0.37	0.00	6.43	CMS
Max	0.00	18.76	9.30	15.04	42.01	67.56	17.20	29.10	2.03	2.03	1.07	0.00	67.56	CMS
Min	0.00	0.00	0.56	3.64	4.28	4.42	2.47	2.03	1.52	1.07	0.00	0.00	0.00	CMS
Runoff	0.00	9.47	12.58	20.42	46.67	75.18	14.37	14.08	5.14	3.98	0.89	0.00	202.77	MCM

Momentary Peak 70.44 CMS, at 199.13 m. (MSL.), at 12.00 Hours, on Sep 7, 2014

Runoff Yield 4.71 Liters/Second/Square KM. Momentary Peak Yield 51.642 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

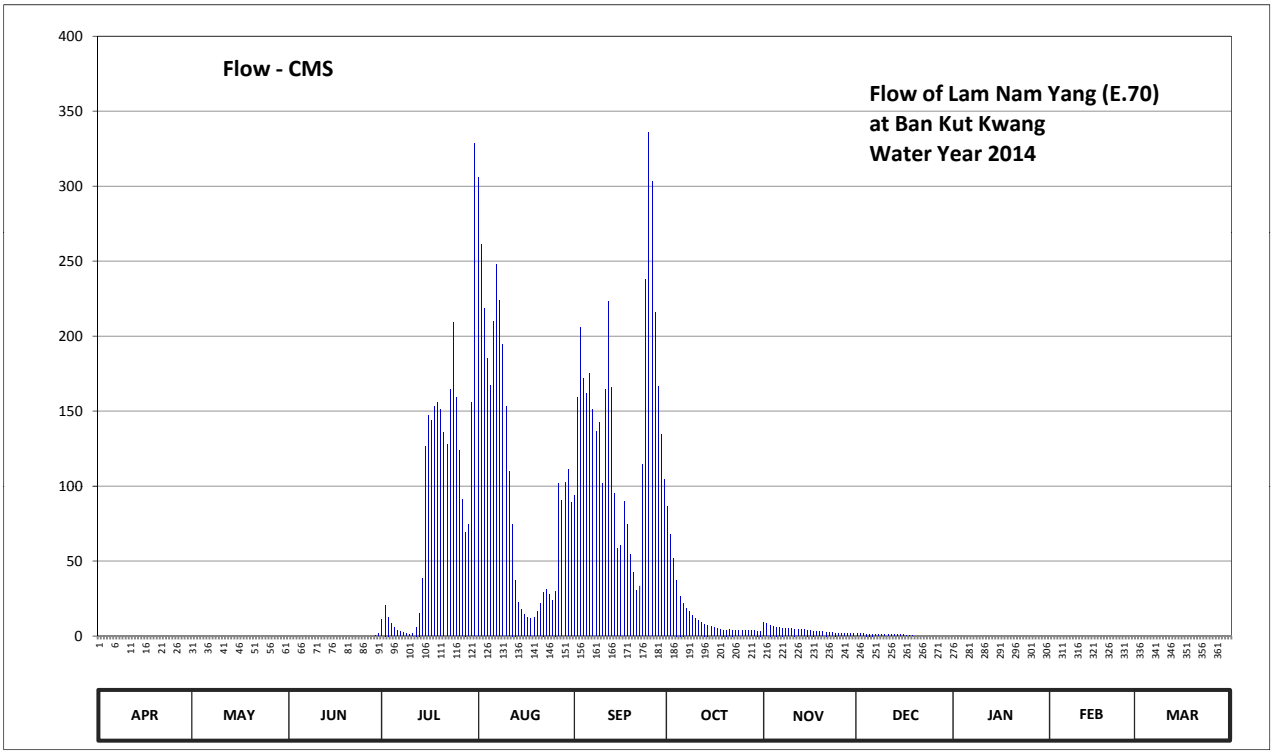
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.19	131.20	131.31	132.42	137.70	134.53	134.40	132.33	131.80	131.59	131.47	131.42	
2	131.19	131.20	131.32	132.86	137.10	135.63	134.05	132.28	131.80	131.59	131.47	131.41	
3	131.19	131.21	131.32	132.53	136.51	136.32	133.70	132.21	131.80	131.58	131.47	131.39	
4	131.19	131.22	131.33	132.27	136.02	135.82	133.35	132.16	131.79	131.57	131.47	131.38	
5	131.19	131.22	131.33	132.10	135.75	135.67	133.07	132.13	131.79	131.56	131.47	131.36	
6	131.19	131.23	131.32	131.98	136.38	135.87	132.92	132.09	131.79	131.55	131.47	131.34	
7	131.19	131.24	131.33	131.92	136.91	135.52	132.77	132.08	131.78	131.54	131.47	131.32	
8	131.19	131.24	131.35	131.86	136.58	135.28	132.67	132.07	131.78	131.53	131.47	131.31	
9	131.19	131.25	131.34	131.81	136.16	135.37	132.56	132.06	131.78	131.52	131.47	131.30	
10	131.19	131.26	131.33	131.77	135.55	134.68	132.48	132.05	131.77	131.51	131.47	131.29	
11	131.20	131.27	131.33	131.80	134.82	135.71	132.40	132.04	131.77	131.50	131.47	131.28	
12	131.20	131.29	131.36	132.13	134.18	136.57	132.31	132.03	131.77	131.49	131.47	131.27	
13	131.20	131.32	131.38	132.64	133.35	135.73	132.25	132.02	131.76	131.48	131.47	131.26	
14	131.20	131.35	131.40	133.38	132.93	134.55	132.21	132.01	131.76	131.48	131.47	131.25	
15	131.20	131.39	131.40	135.11	132.73	133.85	132.14	132.00	131.75	131.48	131.42	131.24	
16	131.20	131.40	131.40	135.45	132.59	133.90	132.10	131.98	131.73	131.48	131.42	131.23	
17	131.20	131.39	131.40	135.40	132.51	134.46	132.06	131.96	131.71	131.48	131.42	131.22	
18	131.20	131.39	131.39	135.55	132.49	134.17	132.02	131.95	131.69	131.48	131.42	131.20	
19	131.20	131.39	131.38	135.59	132.51	133.76	132.00	131.94	131.67	131.48	131.42	131.18	
20	131.20	131.38	131.38	135.52	132.69	133.48	132.00	131.93	131.65	131.48	131.42	131.16	
21	131.20	131.37	131.38	135.26	132.91	133.17	132.01	131.91	131.63	131.48	131.42	131.16	
22	131.20	131.36	131.38	135.13	133.14	133.25	132.00	131.89	131.62	131.48	131.42	131.16	
23	131.20	131.35	131.40	135.71	133.19	134.90	131.99	131.87	131.62	131.48	131.42	131.18	
24	131.20	131.34	131.45	136.37	133.10	136.78	131.99	131.85	131.61	131.47	131.42	131.19	
25	131.20	131.33	131.49	135.64	132.99	138.07	131.98	131.84	131.61	131.47	131.42	131.20	
26	131.20	131.31	131.51	135.06	133.16	137.66	131.97	131.83	131.61	131.47	131.42	131.20	
27	131.20	131.29	131.55	134.48	134.67	136.47	131.97	131.82	131.61	131.47	131.42	131.19	
28	131.20	131.28	131.63	134.08	134.47	135.74	131.97	131.81	131.60	131.47	131.42	131.18	
29	131.20	131.29	131.67	134.17	134.69	135.24	131.97	131.81	131.60	131.47		131.18	
30	131.20	131.32	131.80	135.59	134.84	134.72	131.96	131.80	131.60	131.47		131.18	
31		131.31		137.98	134.45		131.96		131.60	131.47		131.16	
Mean	131.20	131.30	131.41	133.99	134.42	135.23	132.43	131.99	131.70	131.50	131.44	131.25	
Max	131.20	131.40	131.80	137.98	137.70	138.07	134.40	132.33	131.80	131.59	131.47	131.42	138.07
Min	131.19	131.20	131.31	131.77	132.49	133.17	131.96	131.80	131.60	131.47	131.42	131.16	131.16

Annual Max Momentary Gage Height 138.25 m. (MSL.) , at 18.00 Hours, on Jul 31, 2014

Zero Gage at Bottom Elevation 132.12 m. (MSL.) , River Bed 130.33 m. (MSL.)

Left Bank Elevation 140.27 m. (MSL.) ,

Right Bank Elevation 138.74 m. (MSL.) , Drainage Area 2647 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	10.72	306.00	93.68	86.60	9.28	1.50	0.00	0.00	0.00		
2	0.00	0.00	0.00	20.64	261.20	158.84	67.70	8.48	1.50	0.00	0.00	0.00		
3	0.00	0.00	0.00	12.72	218.72	205.76	51.80	7.36	1.50	0.00	0.00	0.00		
4	0.00	0.00	0.00	8.32	185.36	171.76	37.30	6.56	1.40	0.00	0.00	0.00		
5	0.00	0.00	0.00	5.60	167.00	161.56	26.66	6.08	1.40	0.00	0.00	0.00		
6	0.00	0.00	0.00	3.70	209.84	175.16	22.08	5.44	1.40	0.00	0.00	0.00		
7	0.00	0.00	0.00	2.80	247.52	151.36	18.48	5.28	1.30	0.00	0.00	0.00		
8	0.00	0.00	0.00	2.10	223.76	136.80	16.08	5.12	1.30	0.00	0.00	0.00		
9	0.00	0.00	0.00	1.60	194.88	142.20	13.44	4.96	1.30	0.00	0.00	0.00		
10	0.00	0.00	0.00	1.20	153.40	102.08	11.68	4.80	1.20	0.00	0.00	0.00		
11	0.00	0.00	0.00	1.50	109.92	164.28	10.40	4.64	1.20	0.00	0.00	0.00		
12	0.00	0.00	0.00	6.08	74.72	223.04	8.96	4.48	1.20	0.00	0.00	0.00		
13	0.00	0.00	0.00	15.36	37.30	165.64	8.00	4.32	1.10	0.00	0.00	0.00		
14	0.00	0.00	0.00	38.44	22.32	94.80	7.36	4.16	1.10	0.00	0.00	0.00		
15	0.00	0.00	0.00	126.60	17.52	58.40	6.24	4.00	1.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	147.00	14.16	60.60	5.60	3.70	0.80	0.00	0.00	0.00		
17	0.00	0.00	0.00	144.00	12.24	89.84	4.96	3.40	0.60	0.00	0.00	0.00		
18	0.00	0.00	0.00	153.40	11.84	74.18	4.32	3.25	0.40	0.00	0.00	0.00		
19	0.00	0.00	0.00	156.12	12.24	54.44	4.00	3.10	0.20	0.00	0.00	0.00		
20	0.00	0.00	0.00	151.36	16.56	42.24	4.00	2.95	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	135.60	21.84	30.46	4.16	2.65	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	127.80	29.32	33.50	4.00	2.40	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	164.28	31.22	114.40	3.85	2.20	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	209.16	27.80	238.16	3.85	2.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	159.52	23.76	335.60	3.70	1.90	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	123.60	30.08	302.80	3.55	1.80	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	90.92	101.52	215.96	3.55	1.70	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	69.32	90.38	166.32	3.55	1.60	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.20	74.18	102.64	134.40	3.55	1.60	0.00	0.00		0.00		
30	0.00	0.00	1.50	156.12	111.04	104.32	3.40	1.50	0.00	0.00		0.00		
31		0.00		328.40	89.30		3.40		0.00	0.00		0.00		
Total	0.00	0.00	1.70	2648.16	3155.40	4202.58	456.22	120.71	21.40	0.00	0.00	0.00	10606.17	CMSDAY
Mean	0.00	0.00	0.06	85.42	101.79	140.09	14.72	4.02	0.69	0.00	0.00	0.00	29.06	CMS
Max	0.00	0.00	1.50	328.40	306.00	335.60	86.60	9.28	1.50	0.00	0.00	0.00	335.60	CMS
Min	0.00	0.00	0.00	1.20	11.84	30.46	3.40	1.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.15	228.80	272.63	363.10	39.42	10.43	1.85	0.00	0.00	0.00	916.37	MCM

Momentary Peak 350.00 CMS, at 138.25 m. (MSL.), at 18.00 Hours, on Jul 31, 2014

Runoff Yield 10.98 Liters/Second/Square KM. Momentary Peak Yield 132.225 Liters/Second/Square KM.

WATER YEAR : 2014

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.

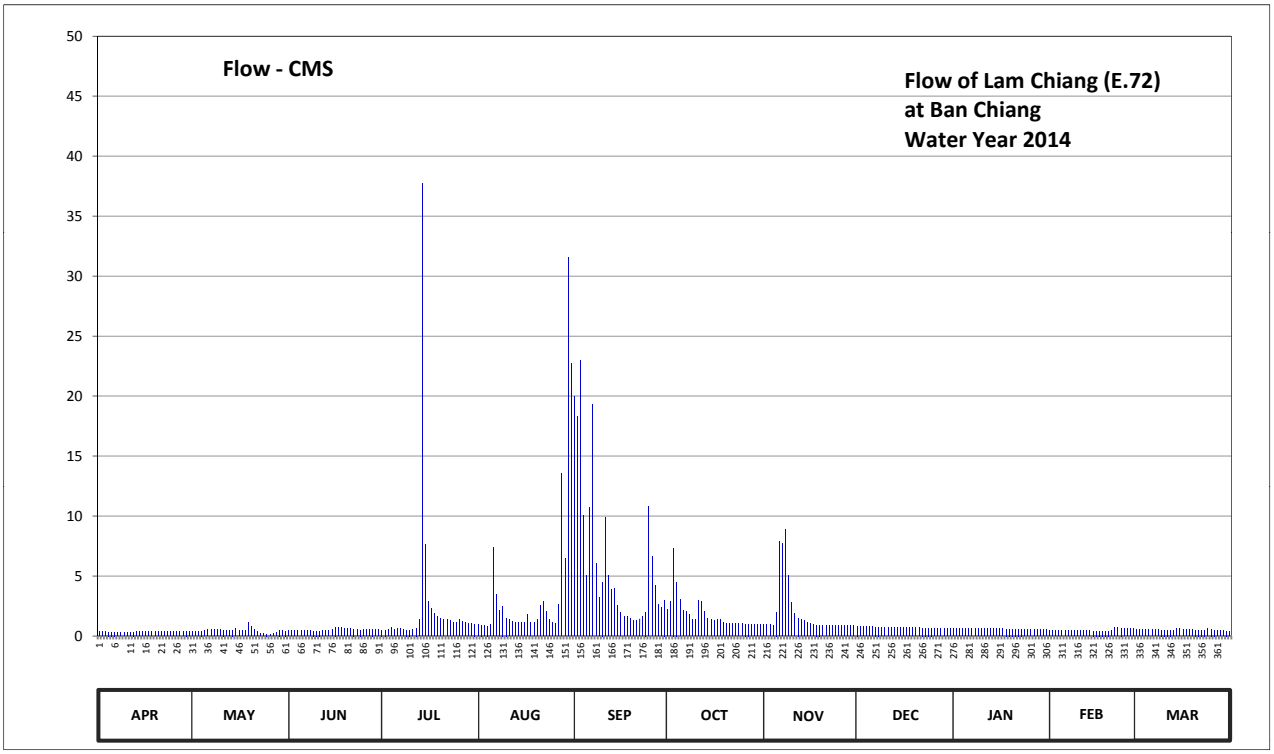
Ban Chiang **Amphoe** Phak Di Chumphon **Changwat** Chaiyaphum

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 Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.46	234.50	234.54	234.55	234.77	237.20	235.14	234.78	234.72	234.61	234.54	234.57	
2	234.45	234.50	234.54	234.55	234.76	237.06	235.28	234.78	234.71	234.61	234.54	234.57	
3	234.44	234.50	234.53	234.57	234.75	237.44	235.93	234.77	234.70	234.61	234.53	234.57	
4	234.43	234.51	234.53	234.65	234.72	236.25	235.55	234.75	234.70	234.61	234.53	234.57	
5	234.43	234.54	234.52	234.56	234.79	235.63	235.31	235.10	234.69	234.61	234.53	234.57	
6	234.43	234.57	234.52	234.62	235.94	236.32	235.13	236.00	234.69	234.61	234.53	234.56	
7	234.42	234.57	234.52	234.60	235.38	237.14	235.11	235.98	234.68	234.61	234.53	234.56	
8	234.42	234.57	234.52	234.56	235.12	235.77	235.06	236.12	234.68	234.61	234.52	234.56	
9	234.42	234.56	234.51	234.55	235.20	235.34	234.95	235.64	234.67	234.60	234.52	234.55	
10	234.42	234.56	234.51	234.55	235.00	235.55	234.95	235.26	234.67	234.60	234.52	234.55	
11	234.42	234.55	234.51	234.58	234.97	236.23	235.29	235.08	234.67	234.60	234.52	234.55	
12	234.43	234.54	234.52	234.63	234.91	235.63	235.28	235.00	234.66	234.60	234.52	234.55	
13	234.45	234.54	234.52	234.97	234.88	235.45	235.11	234.97	234.66	234.60	234.52	234.54	
14	234.46	234.55	234.54	238.43	234.87	235.46	234.98	234.92	234.66	234.60	234.52	234.62	
15	234.46	234.60	234.56	235.97	234.86	235.21	234.95	234.86	234.65	234.60	234.51	234.60	
16	234.46	234.53	234.68	235.28	234.87	235.09	234.93	234.82	234.65	234.60	234.51	234.57	
17	234.46	234.52	234.67	235.16	235.06	235.02	234.95	234.79	234.65	234.60	234.51	234.56	
18	234.46	234.54	234.64	235.07	234.87	235.02	234.95	234.76	234.65	234.59	234.51	234.56	
19	234.46	234.86	234.62	235.02	234.85	234.98	234.86	234.76	234.65	234.59	234.51	234.56	
20	234.46	234.70	234.61	234.99	234.95	234.93	234.82	234.75	234.65	234.59	234.51	234.55	
21	234.47	234.57	234.60	234.96	235.21	234.93	234.82	234.74	234.64	234.59	234.52	234.55	
22	234.47	234.44	234.59	234.95	235.27	234.98	234.82	234.74	234.63	234.59	234.65	234.55	
23	234.47	234.32	234.57	234.93	235.11	235.03	234.81	234.74	234.63	234.59	234.66	234.55	
24	234.47	234.28	234.55	234.86	234.96	235.10	234.81	234.74	234.63	234.58	234.63	234.62	
25	234.47	234.27	234.56	234.87	234.87	236.33	234.81	234.74	234.63	234.58	234.62	234.59	
26	234.47	234.26	234.56	234.95	234.83	235.84	234.80	234.74	234.62	234.58	234.61	234.55	
27	234.47	234.28	234.57	234.91	235.23	235.50	234.80	234.74	234.62	234.58	234.60	234.54	
28	234.48	234.39	234.59	234.87	236.63	235.23	234.79	234.74	234.62	234.57	234.60	234.53	
29	234.51	234.55	234.57	234.84	235.82	235.17	234.78	234.74	234.61	234.57		234.52	
30	234.50	234.53	234.56	234.81	238.05	235.30	234.77	234.73	234.61	234.57		234.51	
31		234.51		234.80	237.42		234.77		234.61	234.57		234.50	
Mean	234.45	234.51	234.56	234.96	235.26	235.67	235.01	234.98	234.66	234.59	234.55	234.56	
Max	234.51	234.86	234.68	238.43	238.05	237.44	235.93	236.12	234.72	234.61	234.66	234.62	238.43
Min	234.42	234.26	234.51	234.55	234.72	234.93	234.77	234.73	234.61	234.57	234.51	234.50	234.26

Annual Max Momentary Gage Height	239.52	m. (MSL.) ,	at 16.00 Hours, on Jul 14, 2014		
Zero Gage at Bottom Elevation	234.12	m. (MSL.) ,	River Bed	233.53	m. (MSL.)
Left Bank Elevation	243.28	m. (MSL.) ,			
Right Bank Elevation	243.27	m. (MSL.) ,	Drainage Area	323	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.36	0.40	0.48	0.50	0.94	20.00	2.20	0.96	0.84	0.62	0.48	0.54		
2	0.35	0.40	0.48	0.50	0.92	18.32	2.90	0.96	0.82	0.62	0.48	0.54		
3	0.34	0.40	0.46	0.54	0.90	23.02	7.34	0.94	0.80	0.62	0.46	0.54		
4	0.33	0.42	0.46	0.70	0.84	10.05	4.50	0.90	0.80	0.62	0.46	0.54		
5	0.33	0.48	0.44	0.52	0.98	5.01	3.06	2.00	0.78	0.62	0.46	0.54		
6	0.33	0.54	0.44	0.64	7.42	10.68	2.15	7.90	0.78	0.62	0.46	0.52		
7	0.32	0.54	0.44	0.60	3.48	19.28	2.05	7.74	0.76	0.62	0.46	0.52		
8	0.32	0.54	0.44	0.52	2.10	6.06	1.80	8.88	0.76	0.62	0.44	0.52		
9	0.32	0.52	0.42	0.50	2.50	3.24	1.35	5.08	0.74	0.60	0.44	0.50		
10	0.32	0.52	0.42	0.50	1.50	4.50	1.35	2.80	0.74	0.60	0.44	0.50		
11	0.32	0.50	0.42	0.56	1.41	9.87	2.95	1.90	0.74	0.60	0.44	0.50		
12	0.33	0.48	0.44	0.66	1.23	5.01	2.90	1.50	0.72	0.60	0.44	0.50		
13	0.35	0.48	0.44	1.41	1.16	3.90	2.05	1.41	0.72	0.60	0.44	0.48		
14	0.36	0.50	0.48	37.68	1.14	3.96	1.44	1.26	0.72	0.60	0.44	0.64		
15	0.36	0.60	0.52	7.66	1.12	2.55	1.35	1.12	0.70	0.60	0.42	0.60		
16	0.36	0.46	0.76	2.90	1.14	1.95	1.29	1.04	0.70	0.60	0.42	0.54		
17	0.36	0.44	0.74	2.30	1.80	1.60	1.35	0.98	0.70	0.60	0.42	0.52		
18	0.36	0.48	0.68	1.85	1.14	1.60	1.35	0.92	0.70	0.58	0.42	0.52		
19	0.36	1.12	0.64	1.60	1.10	1.44	1.12	0.92	0.70	0.58	0.42	0.52		
20	0.36	0.80	0.62	1.47	1.35	1.29	1.04	0.90	0.70	0.58	0.42	0.50		
21	0.37	0.54	0.60	1.38	2.55	1.29	1.04	0.88	0.68	0.58	0.44	0.50		
22	0.37	0.34	0.58	1.35	2.85	1.44	1.04	0.88	0.66	0.58	0.70	0.50		
23	0.37	0.22	0.54	1.29	2.05	1.65	1.02	0.88	0.66	0.58	0.72	0.50		
24	0.37	0.18	0.50	1.12	1.38	2.00	1.02	0.88	0.66	0.56	0.66	0.64		
25	0.37	0.17	0.52	1.14	1.14	10.77	1.02	0.88	0.66	0.56	0.64	0.58		
26	0.37	0.16	0.52	1.35	1.06	6.62	1.00	0.88	0.64	0.56	0.62	0.50		
27	0.37	0.18	0.54	1.23	2.65	4.20	1.00	0.88	0.64	0.56	0.60	0.48		
28	0.38	0.29	0.58	1.14	13.60	2.65	0.98	0.88	0.64	0.54	0.60	0.46		
29	0.42	0.50	0.54	1.08	6.46	2.35	0.96	0.88	0.62	0.54		0.44		
30	0.40	0.46	0.52	1.02	31.60	3.00	0.94	0.86	0.62	0.54		0.42		
31		0.42		1.00	22.76		0.94		0.62	0.54		0.40		
Total	10.63	14.08	15.66	76.71	122.27	189.30	56.50	58.89	22.02	18.24	13.84	16.00	614.14	CMSDAY
Mean	0.35	0.45	0.52	2.47	3.94	6.31	1.82	1.96	0.71	0.59	0.49	0.52	1.68	CMS
Max	0.42	1.12	0.76	37.68	31.60	23.02	7.34	8.88	0.84	0.62	0.72	0.64	37.68	CMS
Min	0.32	0.16	0.42	0.50	0.84	1.29	0.94	0.86	0.62	0.54	0.42	0.40	0.16	CMS
Runoff	0.92	1.22	1.35	6.63	10.56	16.36	4.88	5.09	1.90	1.58	1.20	1.38	53.06	MCM

Momentary Peak 57.40 CMS, at 239.52 m. (MSL.), at 16.00 Hours, on Jul 14, 2014

Runoff Yield 5.21 Liters/Second/Square KM. Momentary Peak Yield 177.709 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

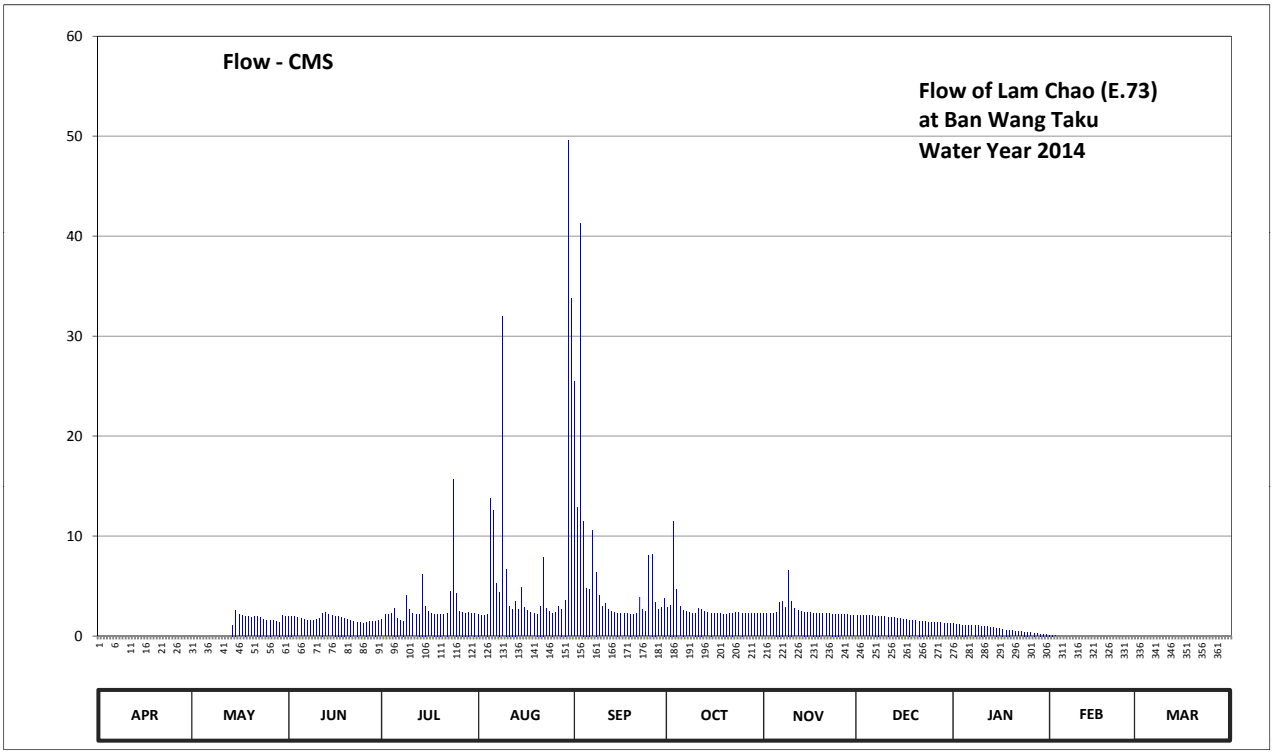
Location : on left bank at Ban Wang Taku, Tambon Ban Chiang.

	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 Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Rather unstable.		
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 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.81	248.63	249.60	249.54	249.64	251.36	249.78	249.65	249.62	249.45	249.22	249.03	
2	248.80	248.62	249.60	249.63	249.61	250.59	249.81	249.65	249.62	249.44	249.22	249.02	
3	248.79	248.62	249.59	249.63	249.61	252.15	250.50	249.65	249.62	249.43	249.21	249.02	
4	248.77	248.61	249.57	249.65	249.64	250.50	249.97	249.65	249.62	249.42	249.20	249.00	
5	248.76	248.60	249.55	249.76	250.65	249.98	249.79	249.68	249.61	249.42	249.19	249.00	
6	248.76	248.60	249.54	249.56	250.57	249.97	249.72	249.84	249.61	249.41	249.18	248.99	
7	248.76	248.63	249.51	249.51	250.03	250.44	249.69	249.85	249.60	249.41	249.17	248.99	
8	248.75	248.62	249.51	249.50	249.94	250.14	249.67	249.78	249.60	249.42	249.16	248.99	
9	248.74	248.62	249.51	249.91	251.70	249.91	249.65	250.16	249.59	249.41	249.15	249.00	
10	248.72	248.62	249.53	249.73	250.17	249.79	249.66	249.85	249.59	249.40	249.14	249.00	
11	248.72	248.61	249.55	249.65	249.80	249.83	249.76	249.75	249.58	249.40	249.13	248.99	
12	248.71	248.61	249.66	249.63	249.74	249.73	249.74	249.71	249.57	249.39	249.12	248.99	
13	248.71	248.60	249.67	249.64	249.85	249.70	249.69	249.69	249.57	249.38	249.12	249.02	
14	248.72	249.42	249.63	250.12	249.73	249.67	249.67	249.68	249.56	249.37	249.11	249.02	
15	248.74	249.72	249.61	249.80	249.99	249.66	249.66	249.68	249.55	249.36	249.09	249.02	
16	248.75	249.63	249.60	249.70	249.77	249.65	249.65	249.67	249.54	249.35	249.08	249.01	
17	248.74	249.61	249.60	249.65	249.71	249.65	249.65	249.66	249.53	249.34	249.07	249.01	
18	248.73	249.60	249.58	249.64	249.67	249.65	249.65	249.66	249.52	249.32	249.06	249.00	
19	248.73	249.59	249.56	249.64	249.65	249.64	249.64	249.66	249.51	249.32	249.05	248.99	
20	248.73	249.57	249.54	249.64	249.64	249.63	249.64	249.65	249.51	249.31	249.05	248.98	
21	248.72	249.59	249.52	249.63	249.80	249.66	249.65	249.65	249.50	249.30	249.04	248.98	
22	248.71	249.60	249.49	249.66	250.26	249.89	249.66	249.65	249.50	249.29	249.06	248.97	
23	248.70	249.58	249.48	249.95	249.75	249.73	249.67	249.64	249.49	249.29	249.07	248.96	
24	248.69	249.54	249.47	250.78	249.69	249.69	249.67	249.64	249.48	249.28	249.06	248.97	
25	248.68	249.52	249.45	249.93	249.66	250.27	249.66	249.64	249.47	249.28	249.06	248.97	
26	248.67	249.52	249.48	249.69	249.67	250.28	249.65	249.63	249.47	249.27	249.05	248.98	
27	248.66	249.51	249.49	249.68	249.79	249.84	249.65	249.63	249.47	249.26	249.04	248.97	
28	248.65	249.49	249.49	249.66	249.74	249.73	249.65	249.63	249.47	249.25	249.04	248.96	
29	248.64	249.48	249.50	249.68	249.86	249.77	249.65	249.62	249.46	249.24		248.97	
30	248.64	249.61	249.51	249.65	252.52	249.88	249.65	249.62	249.45	249.24		248.97	
31		249.60		249.66	251.79		249.65		249.45	249.24		248.97	
Mean	248.72	249.17	249.55	249.73	250.05	250.01	249.72	249.70	249.54	249.34	249.11	248.99	
Max	248.81	249.72	249.67	250.78	252.52	252.15	250.50	250.16	249.62	249.45	249.22	249.03	252.52
Min	248.64	248.60	249.45	249.50	249.61	249.63	249.64	249.62	249.45	249.24	249.04	248.96	248.60

Annual Max Momentary Gage Height	253.26	m. (MSL.) ,	at 14.00 Hours, on Aug 30, 2014		
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 Area	251	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.00	1.70	2.20	25.48	2.90	2.25	2.10	1.25	0.10	0.00		
2	0.00	0.00	2.00	2.15	2.05	12.85	3.10	2.25	2.10	1.20	0.10	0.00		
3	0.00	0.00	1.95	2.15	2.05	41.30	11.50	2.25	2.10	1.15	0.05	0.00		
4	0.00	0.00	1.85	2.25	2.20	11.50	4.70	2.25	2.10	1.10	0.00	0.00		
5	0.00	0.00	1.75	2.80	13.75	4.80	2.95	2.40	2.05	1.10	0.00	0.00		
6	0.00	0.00	1.70	1.80	12.55	4.70	2.60	3.40	2.05	1.05	0.00	0.00		
7	0.00	0.00	1.55	1.55	5.30	10.60	2.45	3.50	2.00	1.05	0.00	0.00		
8	0.00	0.00	1.55	1.50	4.40	6.40	2.35	2.90	2.00	1.10	0.00	0.00		
9	0.00	0.00	1.55	4.10	32.00	4.10	2.25	6.60	1.95	1.05	0.00	0.00		
10	0.00	0.00	1.65	2.65	6.70	2.95	2.30	3.50	1.95	1.00	0.00	0.00		
11	0.00	0.00	1.75	2.25	3.00	3.30	2.80	2.75	1.90	1.00	0.00	0.00		
12	0.00	0.00	2.30	2.15	2.70	2.65	2.70	2.55	1.85	0.95	0.00	0.00		
13	0.00	0.00	2.35	2.20	3.50	2.50	2.45	2.45	1.85	0.90	0.00	0.00		
14	0.00	1.10	2.15	6.20	2.65	2.35	2.35	2.40	1.80	0.85	0.00	0.00		
15	0.00	2.60	2.05	3.00	4.90	2.30	2.30	2.40	1.75	0.80	0.00	0.00		
16	0.00	2.15	2.00	2.50	2.85	2.25	2.25	2.35	1.70	0.75	0.00	0.00		
17	0.00	2.05	2.00	2.25	2.55	2.25	2.25	2.30	1.65	0.70	0.00	0.00		
18	0.00	2.00	1.90	2.20	2.35	2.25	2.25	2.30	1.60	0.60	0.00	0.00		
19	0.00	1.95	1.80	2.20	2.25	2.20	2.20	2.30	1.55	0.60	0.00	0.00		
20	0.00	1.85	1.70	2.20	2.20	2.15	2.20	2.25	1.55	0.55	0.00	0.00		
21	0.00	1.95	1.60	2.15	3.00	2.30	2.25	2.25	1.50	0.50	0.00	0.00		
22	0.00	2.00	1.45	2.30	7.90	3.90	2.30	2.25	1.50	0.45	0.00	0.00		
23	0.00	1.90	1.40	4.50	2.75	2.65	2.35	2.20	1.45	0.45	0.00	0.00		
24	0.00	1.70	1.35	15.70	2.45	2.45	2.35	2.20	1.40	0.40	0.00	0.00		
25	0.00	1.60	1.25	4.30	2.30	8.05	2.30	2.20	1.35	0.40	0.00	0.00		
26	0.00	1.60	1.40	2.45	2.35	8.20	2.25	2.15	1.35	0.35	0.00	0.00		
27	0.00	1.55	1.45	2.40	2.95	3.40	2.25	2.15	1.35	0.30	0.00	0.00		
28	0.00	1.45	1.45	2.30	2.70	2.65	2.25	2.15	1.35	0.25	0.00	0.00		
29	0.00	1.40	1.50	2.40	3.60	2.85	2.25	2.10	1.30	0.20		0.00		
30	0.00	2.05	1.55	2.25	49.52	3.80	2.25	2.10	1.25	0.20		0.00		
31		2.00		2.30	33.80		2.25		1.25	0.20		0.00		
Total	0.00	32.90	51.95	92.85	225.47	189.13	85.90	77.10	52.65	22.45	0.25	0.00	830.65	CMSDAY
Mean	0.00	1.06	1.73	3.00	7.27	6.30	2.77	2.57	1.70	0.72	0.01	0.00	2.28	CMS
Max	0.00	2.60	2.35	15.70	49.52	41.30	11.50	6.60	2.10	1.25	0.10	0.00	49.52	CMS
Min	0.00	0.00	1.25	1.50	2.05	2.15	2.20	2.10	1.25	0.20	0.00	0.00	0.00	CMS
Runoff	0.00	2.84	4.49	8.02	19.48	16.34	7.42	6.66	4.55	1.94	0.02	0.00	71.77	MCM

Momentary Peak 69.80 CMS, at 253.26 m. (MSL.), at 14.00 Hours, on Aug 30, 2014

Runoff Yield 9.07 Liters/Second/Square KM. Momentary Peak Yield 278.088 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

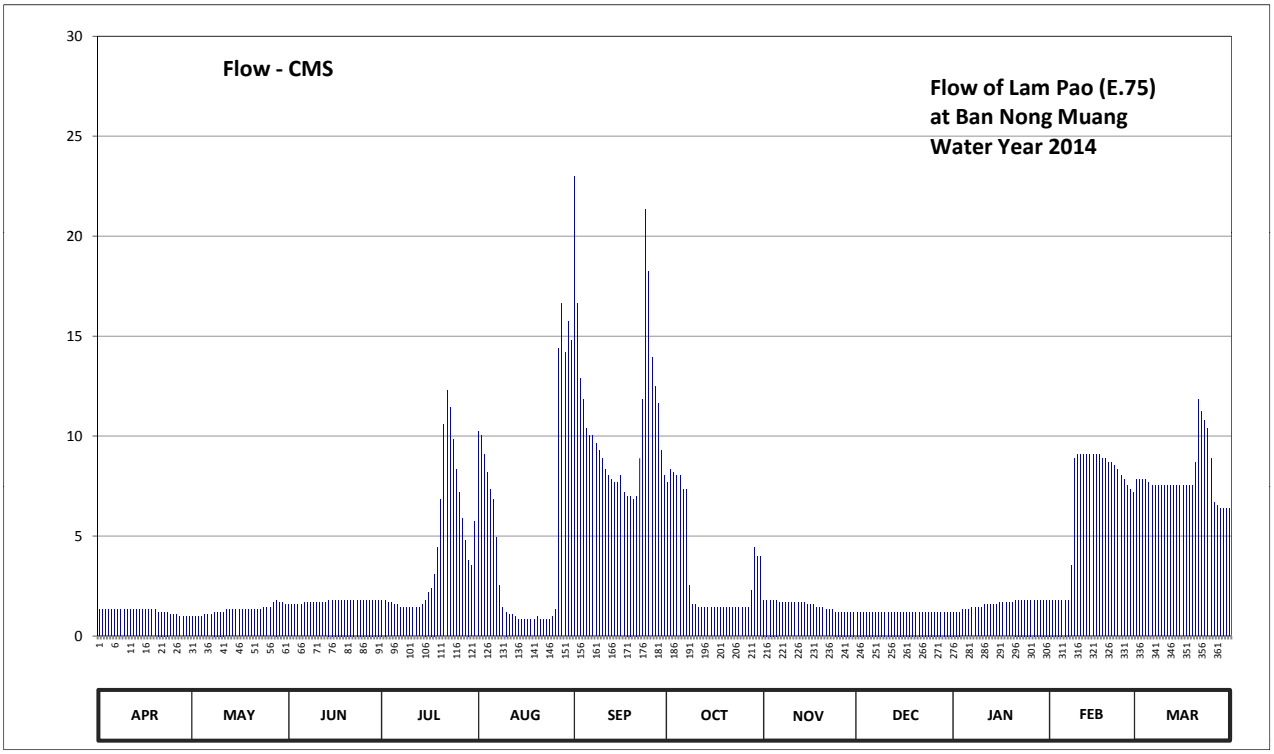
Location : on left bank about 3 kilometers downstream from Lam Pao Damsite.

	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 Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Lam Pao Dam.		
	Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.61	137.58	137.63	137.65	138.18	138.75	138.04	137.65	137.60	137.60	137.65	138.05	
2	137.61	137.58	137.63	137.65	138.17	138.48	138.08	137.65	137.60	137.60	137.65	138.05	
3	137.61	137.58	137.63	137.64	138.12	138.31	138.07	137.65	137.60	137.60	137.65	138.05	
4	137.61	137.58	137.63	137.64	138.07	138.26	138.06	137.65	137.60	137.61	137.65	138.05	
5	137.61	137.59	137.63	137.63	138.02	138.19	138.06	137.65	137.60	137.61	137.65	138.04	
6	137.61	137.59	137.64	137.63	137.99	138.17	138.02	137.64	137.60	137.61	137.65	138.03	
7	137.61	137.59	137.64	137.62	137.87	138.17	138.02	137.64	137.60	137.62	137.65	138.03	
8	137.61	137.60	137.64	137.62	137.71	138.15	137.71	137.64	137.60	137.62	137.78	138.03	
9	137.61	137.60	137.64	137.62	137.62	138.13	137.63	137.64	137.60	137.62	138.11	138.03	
10	137.61	137.60	137.64	137.62	137.60	138.11	137.63	137.64	137.60	137.62	138.12	138.03	
11	137.61	137.60	137.64	137.62	137.59	138.08	137.62	137.64	137.60	137.63	138.12	138.03	
12	137.61	137.61	137.64	137.62	137.59	138.06	137.62	137.64	137.60	137.63	138.12	138.03	
13	137.61	137.61	137.64	137.62	137.58	138.05	137.62	137.64	137.60	137.63	138.12	138.03	
14	137.61	137.61	137.65	137.63	137.57	138.04	137.62	137.64	137.60	137.63	138.12	138.03	
15	137.61	137.61	137.65	137.65	137.57	138.04	137.62	137.63	137.60	137.63	138.12	138.03	
16	137.61	137.61	137.65	137.68	137.57	138.06	137.62	137.63	137.60	137.64	138.12	138.03	
17	137.61	137.61	137.65	137.70	137.57	138.01	137.62	137.63	137.60	137.64	138.12	138.03	
18	137.61	137.61	137.65	137.75	137.57	138.00	137.62	137.62	137.60	137.64	138.11	138.03	
19	137.61	137.61	137.65	137.84	137.57	138.00	137.62	137.62	137.60	137.64	138.11	138.03	
20	137.60	137.61	137.65	137.99	137.58	137.99	137.62	137.62	137.60	137.64	138.10	138.10	
21	137.60	137.61	137.65	138.20	137.57	138.00	137.62	137.61	137.60	137.65	138.10	138.26	
22	137.60	137.61	137.65	138.28	137.57	138.11	137.62	137.61	137.60	137.65	138.09	138.23	
23	137.60	137.61	137.65	138.24	137.57	138.26	137.62	137.61	137.60	137.65	138.08	138.21	
24	137.59	137.62	137.65	138.16	137.57	138.68	137.62	137.60	137.60	137.65	138.06	138.19	
25	137.59	137.62	137.65	138.08	137.58	138.55	137.62	137.60	137.60	137.65	138.05	138.11	
26	137.59	137.62	137.65	138.01	137.61	138.36	137.62	137.60	137.60	137.65	138.03	137.98	
27	137.58	137.64	137.65	137.93	138.38	138.29	137.62	137.60	137.60	137.65	138.02	137.97	
28	137.58	137.65	137.65	137.86	138.48	138.25	137.69	137.60	137.60	137.65	138.01	137.96	
29	137.58	137.64	137.65	137.80	138.37	138.13	137.84	137.60	137.60	137.65		137.96	
30	137.58	137.64	137.65	137.78	138.44	138.06	137.81	137.60	137.60	137.65		137.96	
31		137.63		137.92	138.40		137.81		137.60	137.65		137.96	
Mean	137.60	137.61	137.64	137.80	137.83	138.19	137.74	137.63	137.60	137.63	137.97	138.05	
Max	137.61	137.65	137.65	138.28	138.48	138.75	138.08	137.65	137.60	137.65	138.12	138.26	138.75
Min	137.58	137.58	137.63	137.62	137.57	137.99	137.62	137.60	137.60	137.60	137.65	137.96	137.57

Annual Max Momentary Gage Height	138.83	m. (MSL.) ,	at 14.00 Hours, on Sep 1, 2014		
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 Area	6013	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.32	0.96	1.56	1.80	10.22	23.00	7.68	1.80	1.20	1.20	1.80	7.85		
2	1.32	0.96	1.56	1.80	10.03	16.64	8.36	1.80	1.20	1.20	1.80	7.85		
3	1.32	0.96	1.56	1.68	9.08	12.91	8.19	1.80	1.20	1.20	1.80	7.85		
4	1.32	0.96	1.56	1.68	8.19	11.86	8.02	1.80	1.20	1.32	1.80	7.85		
5	1.32	1.08	1.56	1.56	7.34	10.41	8.02	1.80	1.20	1.32	1.80	7.68		
6	1.32	1.08	1.68	1.56	6.84	10.03	7.34	1.68	1.20	1.32	1.80	7.51		
7	1.32	1.08	1.68	1.44	4.92	10.03	7.34	1.68	1.20	1.44	1.80	7.51		
8	1.32	1.20	1.68	1.44	2.54	9.65	2.54	1.68	1.20	1.44	3.52	7.51		
9	1.32	1.20	1.68	1.44	1.44	9.27	1.56	1.68	1.20	1.44	8.89	7.51		
10	1.32	1.20	1.68	1.44	1.20	8.89	1.56	1.68	1.20	1.44	9.08	7.51		
11	1.32	1.20	1.68	1.44	1.08	8.36	1.44	1.68	1.20	1.56	9.08	7.51		
12	1.32	1.32	1.68	1.44	1.08	8.02	1.44	1.68	1.20	1.56	9.08	7.51		
13	1.32	1.32	1.68	1.44	0.96	7.85	1.44	1.68	1.20	1.56	9.08	7.51		
14	1.32	1.32	1.80	1.56	0.84	7.68	1.44	1.68	1.20	1.56	9.08	7.51		
15	1.32	1.32	1.80	1.80	0.84	7.68	1.44	1.56	1.20	1.56	9.08	7.51		
16	1.32	1.32	1.80	2.16	0.84	8.02	1.44	1.56	1.20	1.68	9.08	7.51		
17	1.32	1.32	1.80	2.40	0.84	7.17	1.44	1.56	1.20	1.68	9.08	7.51		
18	1.32	1.32	1.80	3.10	0.84	7.00	1.44	1.44	1.20	1.68	8.89	7.51		
19	1.32	1.32	1.80	4.44	0.84	7.00	1.44	1.44	1.20	1.68	8.89	7.51		
20	1.20	1.32	1.80	6.84	0.96	6.84	1.44	1.44	1.20	1.68	8.70	8.70		
21	1.20	1.32	1.80	10.60	0.84	7.00	1.44	1.32	1.20	1.80	8.70	11.86		
22	1.20	1.32	1.80	12.28	0.84	8.89	1.44	1.32	1.20	1.80	8.53	11.23		
23	1.20	1.32	1.80	11.44	0.84	11.86	1.44	1.32	1.20	1.80	8.36	10.81		
24	1.08	1.44	1.80	9.84	0.84	21.32	1.44	1.20	1.20	1.80	8.02	10.41		
25	1.08	1.44	1.80	8.36	0.96	18.25	1.44	1.20	1.20	1.80	7.85	8.89		
26	1.08	1.44	1.80	7.17	1.32	13.96	1.44	1.20	1.20	1.80	7.51	6.68		
27	0.96	1.68	1.80	5.88	14.38	12.49	1.44	1.20	1.20	1.80	7.34	6.52		
28	0.96	1.80	1.80	4.76	16.64	11.65	2.28	1.20	1.20	1.80	7.17	6.36		
29	0.96	1.68	1.80	3.80	14.17	9.27	4.44	1.20	1.20	1.80		6.36		
30	0.96	1.68	1.80	3.52	15.72	8.02	3.96	1.20	1.20	1.80		6.36		
31		1.56		5.72	14.80		3.96		1.20	1.80		6.36		
Total	36.96	40.44	51.84	125.83	152.27	321.02	99.73	45.48	37.20	49.32	187.61	244.76	1392.46	CMSDAY
Mean	1.23	1.30	1.73	4.06	4.91	10.70	3.22	1.52	1.20	1.59	6.70	7.90	3.81	CMS
Max	1.32	1.80	1.80	12.28	16.64	23.00	8.36	1.80	1.20	1.80	9.08	11.86	23.00	CMS
Min	0.96	0.96	1.56	1.44	0.84	6.84	1.44	1.20	1.20	1.20	1.80	6.36	0.84	CMS
Runoff	3.19	3.49	4.48	10.87	13.16	27.74	8.62	3.93	3.21	4.26	16.21	21.15	120.31	MCM

Momentary Peak 24.95 CMS, at 138.83 m. (MSL.), at 14.00 Hours, on Sep 1, 2014

Runoff Yield 0.63 Liters/Second/Square KM. Momentary Peak Yield 4.149 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

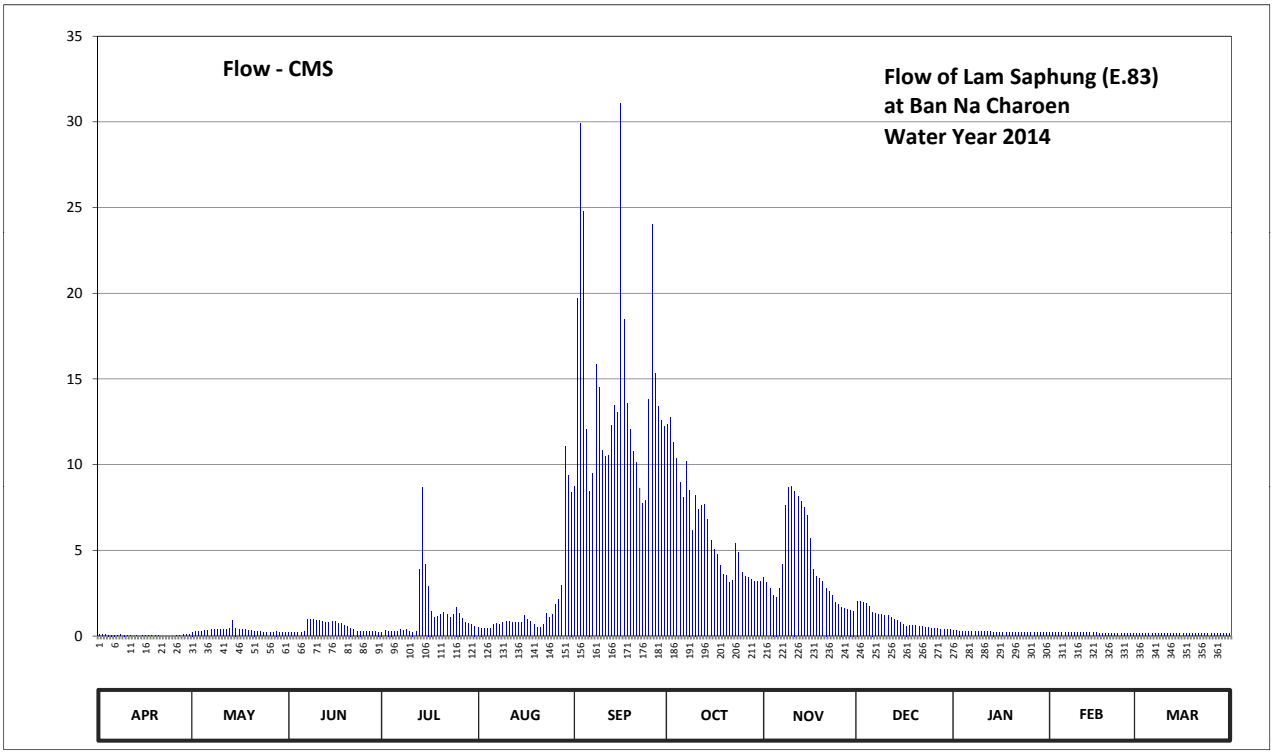
Location : on left bank at Ban Na Charoen.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	222.97	223.13	223.12	223.13	223.30	225.16	225.71	224.15	223.81	223.22	223.09	223.06	
2	222.97	223.14	223.10	223.22	223.28	226.57	225.77	224.08	223.80	223.21	223.09	223.06	
3	222.97	223.16	223.09	223.20	223.26	227.58	225.56	223.99	223.78	223.20	223.09	223.06	
4	222.96	223.17	223.09	223.20	223.26	227.08	225.42	223.90	223.76	223.19	223.09	223.06	
5	222.96	223.21	223.10	223.18	223.26	225.67	225.19	223.87	223.71	223.18	223.09	223.06	
6	222.96	223.21	223.18	223.19	223.36	225.11	225.05	223.99	223.60	223.17	223.09	223.06	
7	222.95	223.23	223.45	223.23	223.37	225.28	225.40	224.31	223.57	223.16	223.09	223.06	
8	223.00	223.23	223.46	223.22	223.36	226.14	225.12	224.97	223.56	223.15	223.09	223.06	
9	222.96	223.25	223.45	223.23	223.40	225.99	224.71	225.14	223.55	223.15	223.09	223.06	
10	222.94	223.24	223.44	223.19	223.42	225.49	225.07	225.16	223.54	223.14	223.09	223.06	
11	222.92	223.23	223.43	223.13	223.42	225.44	224.93	225.11	223.53	223.14	223.09	223.06	
12	222.90	223.24	223.42	223.17	223.40	225.45	224.97	225.06	223.49	223.14	223.08	223.06	
13	222.91	223.26	223.40	224.26	223.40	225.70	224.98	225.01	223.46	223.14	223.08	223.06	
14	222.89	223.44	223.39	225.14	223.40	225.86	224.83	224.95	223.44	223.13	223.08	223.06	
15	222.94	223.28	223.42	224.31	223.40	225.81	224.59	224.87	223.40	223.12	223.08	223.06	
16	222.94	223.24	223.41	224.03	223.54	227.69	224.49	224.62	223.36	223.12	223.08	223.06	
17	222.93	223.24	223.38	223.62	223.46	226.43	224.43	224.26	223.33	223.12	223.07	223.06	
18	222.92	223.23	223.37	223.49	223.42	225.87	224.30	224.17	223.34	223.12	223.07	223.06	
19	222.92	223.22	223.34	223.52	223.36	225.67	224.20	224.14	223.34	223.12	223.07	223.06	
20	222.91	223.21	223.32	223.56	223.30	225.48	224.19	224.09	223.34	223.12	223.07	223.06	
21	222.90	223.20	223.28	223.59	223.30	225.39	224.08	224.00	223.32	223.11	223.07	223.06	
22	222.90	223.18	223.23	223.55	223.35	225.14	224.11	223.95	223.32	223.11	223.06	223.06	
23	222.89	223.16	223.20	223.50	223.57	224.99	224.56	223.89	223.30	223.11	223.06	223.06	
24	222.89	223.11	223.20	223.56	223.49	225.02	224.45	223.78	223.29	223.11	223.06	223.06	
25	222.90	223.09	223.18	223.70	223.55	225.90	224.22	223.74	223.28	223.10	223.06	223.06	
26	222.91	223.08	223.18	223.58	223.74	227.00	224.17	223.70	223.26	223.10	223.06	223.06	
27	222.92	223.08	223.17	223.48	223.83	226.08	224.15	223.67	223.26	223.10	223.06	223.06	
28	222.97	223.20	223.17	223.40	224.04	225.85	224.12	223.65	223.25	223.09	223.06	223.06	
29	223.01	223.12	223.14	223.38	225.52	225.74	224.10	223.64	223.24	223.09		223.06	
30	223.01	223.10	223.13	223.35	225.26	225.69	224.10	223.62	223.24	223.09		223.06	
31		223.10		223.33	225.10		224.09		223.23	223.09		223.06	
Mean	222.94	223.19	223.27	223.50	223.62	225.88	224.68	224.25	223.44	223.13	223.08	223.06	
Max	223.01	223.44	223.46	225.14	225.52	227.69	225.77	225.16	223.81	223.22	223.09	223.06	227.69
Min	222.89	223.08	223.09	223.13	223.26	224.99	224.08	223.62	223.23	223.09	223.06	223.06	222.89

Annual Max Momentary Gage Height	227.95	m. (MSL.) ,	at 06.00 Hours, on Sep 16, 2014		
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 Area	744	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	0.23	0.22	0.23	0.50	8.76	12.37	3.40	2.04	0.34	0.19	0.16		
2	0.07	0.24	0.20	0.34	0.46	19.73	12.79	3.12	2.00	0.32	0.19	0.16		
3	0.07	0.26	0.19	0.30	0.42	29.88	11.32	2.76	1.94	0.30	0.19	0.16		
4	0.06	0.27	0.19	0.30	0.42	24.80	10.34	2.40	1.88	0.29	0.19	0.16		
5	0.06	0.32	0.20	0.28	0.42	12.09	8.94	2.28	1.73	0.28	0.19	0.16		
6	0.06	0.32	0.28	0.29	0.68	8.46	8.10	2.76	1.40	0.27	0.19	0.16		
7	0.05	0.36	0.95	0.36	0.71	9.48	10.20	4.15	1.31	0.26	0.19	0.16		
8	0.10	0.36	0.98	0.34	0.68	15.86	8.52	7.62	1.28	0.25	0.19	0.16		
9	0.06	0.40	0.95	0.36	0.80	14.52	6.15	8.64	1.25	0.25	0.19	0.16		
10	0.04	0.38	0.92	0.29	0.86	10.83	8.22	8.76	1.22	0.24	0.19	0.16		
11	0.02	0.36	0.89	0.23	0.86	10.48	7.38	8.46	1.19	0.24	0.19	0.16		
12	0.00	0.38	0.86	0.27	0.80	10.55	7.62	8.16	1.07	0.24	0.18	0.16		
13	0.01	0.42	0.80	3.90	0.80	12.30	7.68	7.86	0.98	0.24	0.18	0.16		
14	0.00	0.92	0.77	8.64	0.80	13.48	6.78	7.50	0.92	0.23	0.18	0.16		
15	0.04	0.46	0.86	4.15	0.80	13.08	5.55	7.02	0.80	0.22	0.18	0.16		
16	0.04	0.38	0.83	2.92	1.22	31.09	5.05	5.70	0.68	0.22	0.18	0.16		
17	0.03	0.38	0.74	1.46	0.98	18.47	4.75	3.90	0.59	0.22	0.17	0.16		
18	0.02	0.36	0.71	1.07	0.86	13.56	4.10	3.48	0.62	0.22	0.17	0.16		
19	0.02	0.34	0.62	1.16	0.68	12.09	3.60	3.36	0.62	0.22	0.17	0.16		
20	0.01	0.32	0.56	1.28	0.50	10.76	3.56	3.16	0.62	0.22	0.17	0.16		
21	0.00	0.30	0.46	1.37	0.50	10.14	3.12	2.80	0.56	0.21	0.17	0.16		
22	0.00	0.28	0.36	1.25	0.65	8.64	3.24	2.60	0.56	0.21	0.16	0.16		
23	0.00	0.26	0.30	1.10	1.31	7.74	5.40	2.36	0.50	0.21	0.16	0.16		
24	0.00	0.21	0.30	1.28	1.07	7.92	4.85	1.94	0.48	0.21	0.16	0.16		
25	0.00	0.19	0.28	1.70	1.25	13.80	3.70	1.82	0.46	0.20	0.16	0.16		
26	0.01	0.18	0.28	1.34	1.82	24.00	3.48	1.70	0.42	0.20	0.16	0.16		
27	0.02	0.18	0.27	1.04	2.12	15.32	3.40	1.61	0.42	0.20	0.16	0.16		
28	0.07	0.30	0.27	0.80	2.96	13.40	3.28	1.55	0.40	0.19	0.16	0.16		
29	0.11	0.22	0.24	0.74	11.04	12.58	3.20	1.52	0.38	0.19		0.16		
30	0.11	0.20	0.23	0.65	9.36	12.23	3.20	1.46	0.38	0.19		0.16		
31		0.20		0.59	8.40		3.16		0.36	0.19		0.16		
Total	1.15	9.98	15.71	40.03	54.73	426.04	193.05	123.85	29.06	7.27	4.96	4.96	910.79	CMSDAY
Mean	0.04	0.32	0.52	1.29	1.77	14.20	6.23	4.13	0.94	0.23	0.18	0.16	2.50	CMS
Max	0.11	0.92	0.98	8.64	11.04	31.09	12.79	8.76	2.04	0.34	0.19	0.16	31.09	CMS
Min	0.00	0.18	0.19	0.23	0.42	7.74	3.12	1.46	0.36	0.19	0.16	0.16	0.00	CMS
Runoff	0.10	0.86	1.36	3.46	4.73	36.81	16.68	10.70	2.51	0.63	0.43	0.43	78.69	MCM

Momentary Peak 33.95 CMS, at 227.95 m. (MSL.), at 06.00 Hours, on Sep 16, 2014

Runoff Yield 3.35 Liters/Second/Square KM. Momentary Peak Yield 45.632 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Chi River at Ban Nang Dad Khok , Chaiyaphum (E.84)

Lat 16 - 09 - 08 N Long 101 - 35 - 07 E

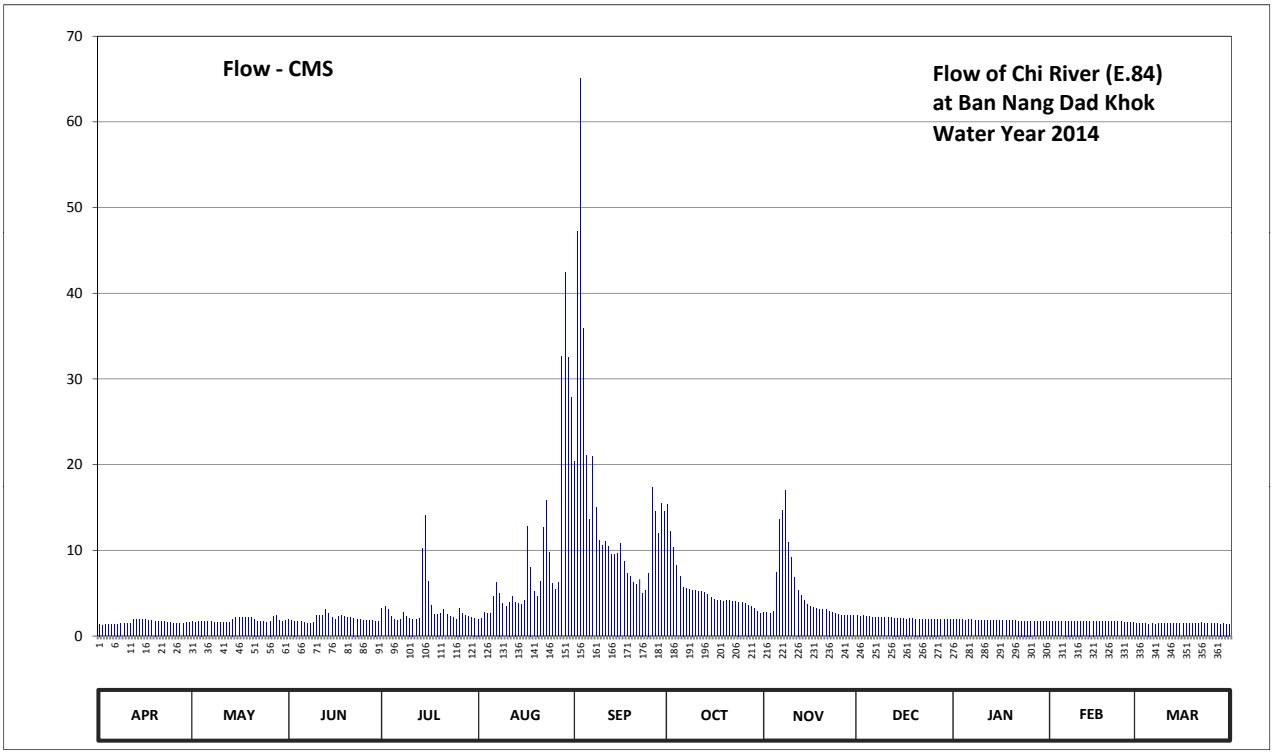
Location : on left bank at Ban Nang Dad Khok.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.28	239.33	239.38	239.60	239.40	241.36	240.94	239.54	239.47	239.39	239.33	239.29	
2	239.25	239.32	239.36	239.64	239.41	242.74	240.65	239.53	239.46	239.39	239.33	239.30	
3	239.26	239.33	239.35	239.58	239.53	243.25	240.48	239.52	239.47	239.39	239.33	239.29	
4	239.26	239.35	239.34	239.45	239.52	242.32	240.25	239.55	239.45	239.38	239.33	239.29	
5	239.26	239.34	239.33	239.39	239.52	241.41	240.10	240.16	239.45	239.37	239.34	239.28	
6	239.27	239.33	239.31	239.37	239.80	240.78	239.96	240.78	239.44	239.38	239.35	239.29	
7	239.28	239.33	239.30	239.39	240.03	241.40	239.93	240.88	239.44	239.39	239.35	239.28	
8	239.29	239.32	239.30	239.53	239.86	240.91	239.92	241.08	239.43	239.37	239.35	239.29	
9	239.29	239.32	239.32	239.46	239.68	240.56	239.91	240.54	239.44	239.37	239.34	239.30	
10	239.29	239.31	239.49	239.42	239.63	240.51	239.90	240.35	239.43	239.37	239.35	239.29	
11	239.30	239.31	239.47	239.40	239.71	240.55	239.89	240.09	239.43	239.37	239.35	239.29	
12	239.39	239.31	239.47	239.39	239.80	240.49	239.88	239.91	239.43	239.36	239.33	239.30	
13	239.39	239.32	239.59	239.41	239.71	240.39	239.87	239.82	239.42	239.37	239.33	239.29	
14	239.39	239.40	239.52	240.47	239.69	240.39	239.83	239.73	239.42	239.36	239.35	239.29	
15	239.38	239.44	239.44	240.82	239.67	240.41	239.79	239.67	239.41	239.36	239.35	239.29	
16	239.38	239.44	239.38	240.04	239.74	240.53	239.75	239.63	239.41	239.36	239.34	239.30	
17	239.37	239.43	239.46	239.65	240.71	240.30	239.74	239.62	239.40	239.37	239.34	239.30	
18	239.36	239.44	239.47	239.50	240.23	240.14	239.73	239.60	239.41	239.36	239.35	239.29	
19	239.35	239.44	239.45	239.51	239.88	240.11	239.72	239.59	239.41	239.36	239.33	239.29	
20	239.34	239.43	239.44	239.52	239.81	240.03	239.73	239.58	239.40	239.36	239.33	239.30	
21	239.33	239.40	239.43	239.59	240.04	240.00	239.73	239.58	239.40	239.36	239.33	239.30	
22	239.33	239.35	239.42	239.50	240.70	240.07	239.72	239.56	239.39	239.35	239.34	239.31	
23	239.32	239.34	239.40	239.46	240.98	239.86	239.72	239.53	239.40	239.35	239.34	239.29	
24	239.31	239.33	239.39	239.43	240.42	239.90	239.71	239.52	239.39	239.35	239.33	239.30	
25	239.30	239.32	239.37	239.40	240.01	240.15	239.70	239.50	239.40	239.35	239.32	239.29	
26	239.30	239.35	239.37	239.61	239.92	241.11	239.69	239.49	239.40	239.35	239.32	239.29	
27	239.30	239.45	239.37	239.52	240.03	240.87	239.66	239.49	239.40	239.34	239.32	239.30	
28	239.30	239.48	239.37	239.47	242.16	240.63	239.63	239.49	239.39	239.34	239.32	239.28	
29	239.31	239.37	239.35	239.45	242.58	240.95	239.60	239.48	239.39	239.34		239.29	
30	239.31	239.34	239.34	239.43	242.15	240.87	239.55	239.47	239.38	239.34		239.28	
31		239.37		239.42	241.89		239.52		239.38	239.33		239.27	
Mean	239.32	239.37	239.40	239.57	240.20	240.77	239.88	239.81	239.42	239.36	239.34	239.29	
Max	239.39	239.48	239.59	240.82	242.58	243.25	240.94	241.08	239.47	239.39	239.35	239.31	243.25
Min	239.25	239.31	239.30	239.37	239.40	239.86	239.52	239.47	239.38	239.33	239.32	239.27	239.25

Annual Max Momentary Gage Height	243.44	m. (MSL.) ,	at 09.00 Hours, on Sep 3, 2014		
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 Area	508	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	1.65	1.90	3.20	2.00	20.44	15.34	2.78	2.35	1.95	1.65	1.45		
2	1.25	1.60	1.80	3.48	2.05	47.20	12.15	2.71	2.30	1.95	1.65	1.50		
3	1.30	1.65	1.75	3.06	2.71	65.00	10.32	2.64	2.35	1.95	1.65	1.45		
4	1.30	1.75	1.70	2.25	2.64	35.90	8.25	2.85	2.25	1.90	1.65	1.45		
5	1.30	1.70	1.65	1.95	2.64	21.14	6.90	7.44	2.25	1.85	1.70	1.40		
6	1.35	1.65	1.55	1.85	4.60	13.58	5.72	13.58	2.20	1.90	1.75	1.45		
7	1.40	1.65	1.50	1.95	6.27	21.00	5.51	14.68	2.20	1.95	1.75	1.40		
8	1.45	1.60	1.50	2.71	5.02	15.01	5.44	16.96	2.15	1.85	1.75	1.45		
9	1.45	1.60	1.60	2.30	3.76	11.16	5.37	10.94	2.20	1.85	1.70	1.50		
10	1.45	1.55	2.45	2.10	3.41	10.61	5.30	9.15	2.15	1.85	1.75	1.45		
11	1.50	1.55	2.35	2.00	3.97	11.05	5.23	6.81	2.15	1.85	1.75	1.45		
12	1.95	1.55	2.35	1.95	4.60	10.41	5.16	5.37	2.15	1.80	1.65	1.50		
13	1.95	1.60	3.13	2.05	3.97	9.51	5.09	4.74	2.10	1.85	1.65	1.45		
14	1.95	2.00	2.64	10.23	3.83	9.51	4.81	4.11	2.10	1.80	1.75	1.45		
15	1.90	2.20	2.20	14.02	3.69	9.69	4.53	3.69	2.05	1.80	1.75	1.45		
16	1.90	2.20	1.90	6.36	4.18	10.83	4.25	3.41	2.05	1.80	1.70	1.50		
17	1.85	2.15	2.30	3.55	12.81	8.70	4.18	3.34	2.00	1.85	1.70	1.50		
18	1.80	2.20	2.35	2.50	8.07	7.26	4.11	3.20	2.05	1.80	1.75	1.45		
19	1.75	2.20	2.25	2.57	5.16	6.99	4.04	3.13	2.05	1.80	1.65	1.45		
20	1.70	2.15	2.20	2.64	4.67	6.27	4.11	3.06	2.00	1.80	1.65	1.50		
21	1.65	2.00	2.15	3.13	6.36	6.00	4.11	3.06	2.00	1.80	1.65	1.50		
22	1.65	1.75	2.10	2.50	12.70	6.63	4.04	2.92	1.95	1.75	1.70	1.55		
23	1.60	1.70	2.00	2.30	15.78	5.02	4.04	2.71	2.00	1.75	1.70	1.45		
24	1.55	1.65	1.95	2.15	9.78	5.30	3.97	2.64	1.95	1.75	1.65	1.50		
25	1.50	1.60	1.85	2.00	6.09	7.35	3.90	2.50	2.00	1.75	1.60	1.45		
26	1.50	1.75	1.85	3.27	5.44	17.32	3.83	2.45	2.00	1.75	1.60	1.45		
27	1.50	2.25	1.85	2.64	6.27	14.57	3.62	2.45	2.00	1.70	1.60	1.50		
28	1.50	2.40	1.85	2.35	32.70	11.93	3.41	2.45	1.95	1.70	1.60	1.40		
29	1.55	1.85	1.75	2.25	42.40	15.45	3.20	2.40	1.95	1.70		1.45		
30	1.55	1.70	1.70	2.15	32.50	14.57	2.85	2.35	1.90	1.70		1.40		
31		1.85		2.10	27.86		2.64		1.90	1.65		1.35		
Total	47.45	56.70	60.12	99.56	287.93	455.40	165.42	150.52	64.70	56.15	47.10	45.20	1536.25	CMSDAY
Mean	1.58	1.83	2.00	3.21	9.29	15.18	5.34	5.02	2.09	1.81	1.68	1.46	4.21	CMS
Max	1.95	2.40	3.13	14.02	42.40	65.00	15.34	16.96	2.35	1.95	1.75	1.55	65.00	CMS
Min	1.25	1.55	1.50	1.85	2.00	5.02	2.64	2.35	1.90	1.65	1.60	1.35	1.25	CMS
Runoff	4.10	4.90	5.19	8.60	24.88	39.35	14.29	13.01	5.59	4.85	4.07	3.91	132.73	MCM

Momentary Peak 74.00 CMS, at 243.44 m. (MSL.), at 09.00 Hours, on Sep 3, 2014

Runoff Yield 8.29 Liters/Second/Square KM. Momentary Peak Yield 145.669 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

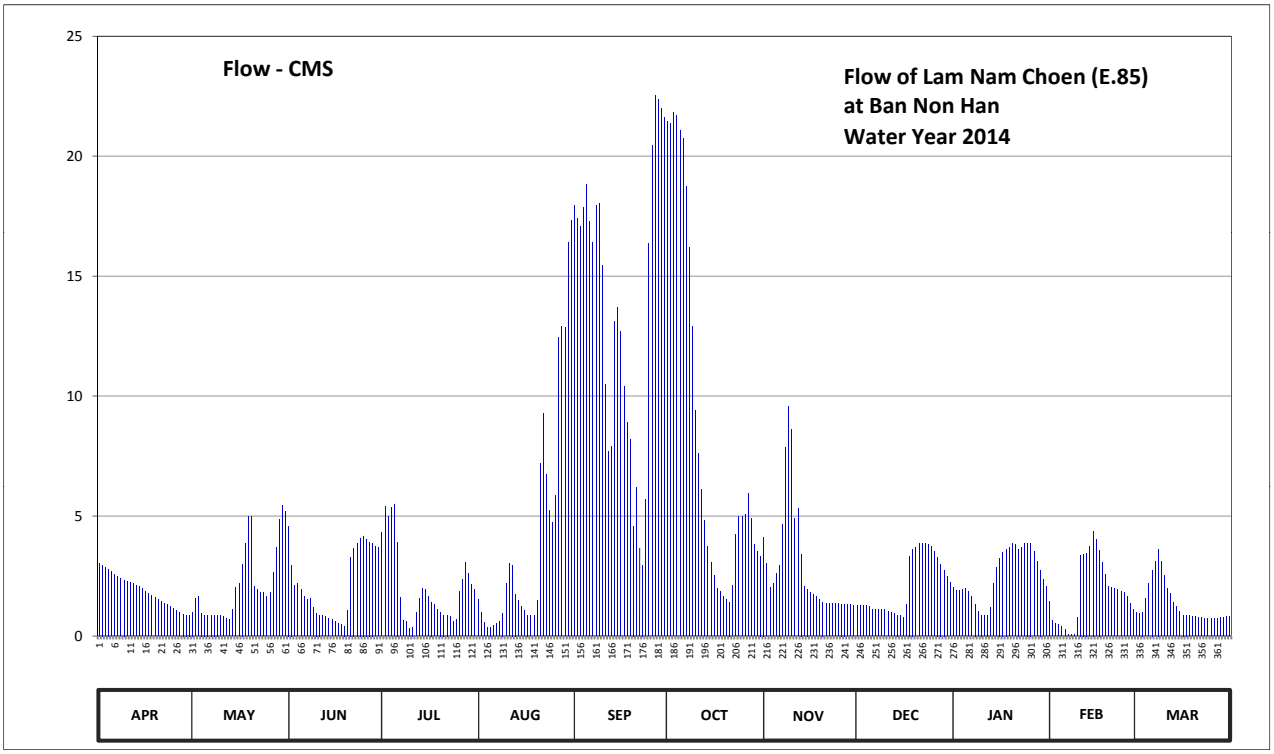
Location : on left bank at Ban Non Han.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	227.00	226.40	227.37	227.30	226.58	229.57	229.96	227.26	226.49	226.74	226.55	226.39	
2	226.98	226.59	226.98	227.56	226.39	229.50	229.95	227.00	226.49	226.70	226.22	226.37	
3	226.96	226.62	226.77	227.46	226.17	229.45	230.00	226.74	226.49	226.70	226.14	226.40	
4	226.94	226.38	226.80	227.55	226.03	229.56	229.99	226.80	226.49	226.71	226.12	226.59	
5	226.92	226.34	226.71	227.58	226.05	229.67	229.92	226.90	226.48	226.73	226.07	226.79	
6	226.89	226.34	226.61	227.21	226.10	229.48	229.88	226.98	226.44	226.68	225.98	226.93	
7	226.87	226.34	226.57	226.60	226.15	229.36	229.66	227.38	226.44	226.61	225.85	227.02	
8	226.85	226.34	226.59	226.23	226.20	229.57	229.33	228.09	226.44	226.51	225.85	227.14	
9	226.83	226.34	226.46	226.21	226.38	229.58	228.86	228.38	226.44	226.41	225.85	227.02	
10	226.82	226.33	226.38	226.00	226.80	229.22	228.35	228.22	226.43	226.34	226.28	226.88	
11	226.81	226.31	226.34	226.05	227.00	228.51	228.04	227.44	226.41	226.32	227.08	226.73	
12	226.79	226.27	226.33	226.39	226.98	228.06	227.73	227.54	226.39	226.34	227.09	226.66	
13	226.77	226.24	226.31	226.59	226.65	228.10	227.42	227.09	226.37	226.46	227.10	226.53	
14	226.75	226.43	226.27	226.73	226.56	228.89	227.17	226.75	226.34	226.79	227.17	226.48	
15	226.73	226.74	226.24	226.71	226.48	228.97	227.01	226.72	226.33	226.96	227.32	226.41	
16	226.69	226.80	226.20	226.61	226.42	228.83	226.88	226.67	226.28	227.05	227.23	226.34	
17	226.66	226.99	226.14	226.54	226.34	228.50	226.73	226.64	226.50	227.11	227.13	226.34	
18	226.63	227.19	226.11	226.50	226.33	228.27	226.68	226.61	227.07	227.14	227.01	226.33	
19	226.60	227.46	226.08	226.44	226.33	228.15	226.62	226.58	227.14	227.16	226.89	226.31	
20	226.57	227.46	226.42	226.40	226.56	227.37	226.58	226.54	227.16	227.19	226.75	226.30	
21	226.55	226.75	227.06	226.34	227.96	227.75	226.54	226.52	227.19	227.18	226.74	226.29	
22	226.52	226.71	227.15	226.34	228.33	227.15	226.77	226.52	227.19	227.14	226.73	226.28	
23	226.50	226.67	227.20	226.31	227.87	226.98	227.28	226.52	227.19	227.16	226.71	226.27	
24	226.48	226.67	227.25	226.21	227.52	227.63	227.46	226.52	227.18	227.19	226.69	226.26	
25	226.45	226.62	227.27	226.24	227.40	229.35	227.46	226.52	227.17	227.20	226.67	226.26	
26	226.42	226.67	227.24	226.68	227.67	229.85	227.48	226.51	227.12	227.20	226.61	226.27	
27	226.39	226.91	227.21	226.84	228.79	230.08	227.69	226.51	227.06	227.12	226.52	226.27	
28	226.36	227.16	227.20	227.01	228.86	230.06	227.44	226.50	226.99	227.02	226.43	226.28	
29	226.34	227.43	227.17	226.90	228.85	230.02	227.18	226.50	226.93	226.93		226.29	
30	226.34	227.57	227.16	226.78	229.36	229.98	227.12	226.49	226.87	226.84		226.30	
31		227.51		226.71	229.49		227.07		226.81	226.76		226.31	
Mean	226.68	226.73	226.72	226.68	227.12	228.92	227.94	226.91	226.72	226.85	226.60	226.49	
Max	227.00	227.57	227.37	227.58	229.49	230.08	230.00	228.38	227.19	227.20	227.32	227.14	230.08
Min	226.34	226.24	226.08	226.00	226.03	226.98	226.54	226.49	226.28	226.32	225.85	226.26	225.85

Annual Max Momentary Gage Height	230.13	m. (MSL.) ,	at 06.00 Hours, on Sep 27, 2014		
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 Area	1218	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.04	1.00	4.59	4.30	1.54	17.96	21.44	4.13	1.27	2.02	1.45	0.98		
2	2.96	1.57	2.96	5.39	0.98	17.40	21.35	3.04	1.27	1.90	0.64	0.94		
3	2.87	1.66	2.11	4.97	0.56	17.05	21.80	2.02	1.27	1.90	0.51	1.00		
4	2.79	0.96	2.20	5.35	0.34	17.88	21.71	2.20	1.27	1.93	0.48	1.57		
5	2.70	0.88	1.93	5.48	0.38	18.83	21.08	2.62	1.24	1.99	0.41	2.17		
6	2.58	0.88	1.63	3.92	0.45	17.26	20.72	2.96	1.12	1.84	0.27	2.75		
7	2.49	0.88	1.51	1.60	0.52	16.42	18.74	4.64	1.12	1.63	0.08	3.12		
8	2.41	0.88	1.57	0.66	0.60	17.96	16.21	7.85	1.12	1.33	0.08	3.63		
9	2.33	0.88	1.18	0.62	0.96	18.04	12.92	9.58	1.12	1.03	0.08	3.12		
10	2.28	0.86	0.96	0.30	2.20	15.44	9.40	8.62	1.09	0.88	0.76	2.54		
11	2.24	0.82	0.88	0.38	3.04	10.47	7.60	4.89	1.03	0.84	3.38	1.99		
12	2.17	0.74	0.86	0.98	2.96	7.70	6.11	5.31	0.98	0.88	3.42	1.78		
13	2.11	0.68	0.82	1.57	1.75	7.90	4.80	3.42	0.94	1.18	3.46	1.39		
14	2.05	1.09	0.74	1.99	1.48	13.13	3.75	2.05	0.88	2.17	3.75	1.24		
15	1.99	2.02	0.68	1.93	1.24	13.69	3.08	1.96	0.86	2.87	4.38	1.03		
16	1.87	2.20	0.60	1.63	1.06	12.71	2.54	1.81	0.76	3.25	4.01	0.88		
17	1.78	3.00	0.51	1.42	0.88	10.40	1.99	1.72	1.30	3.50	3.59	0.88		
18	1.69	3.84	0.47	1.30	0.86	8.92	1.84	1.63	3.33	3.63	3.08	0.86		
19	1.60	4.97	0.42	1.12	0.86	8.20	1.66	1.54	3.63	3.71	2.58	0.82		
20	1.51	4.97	1.06	1.00	1.48	4.59	1.54	1.42	3.71	3.84	2.05	0.80		
21	1.45	2.05	3.29	0.88	7.20	6.19	1.42	1.36	3.84	3.80	2.02	0.78		
22	1.36	1.93	3.67	0.88	9.28	3.67	2.11	1.36	3.84	3.63	1.99	0.76		
23	1.30	1.81	3.88	0.82	6.75	2.96	4.22	1.36	3.84	3.71	1.93	0.74		
24	1.24	1.81	4.09	0.62	5.22	5.69	4.97	1.36	3.80	3.84	1.87	0.72		
25	1.15	1.66	4.17	0.68	4.72	16.35	4.97	1.36	3.75	3.88	1.81	0.72		
26	1.06	1.81	4.05	1.84	5.85	20.45	5.06	1.33	3.54	3.88	1.63	0.74		
27	0.98	2.66	3.92	2.37	12.43	22.52	5.94	1.33	3.29	3.54	1.36	0.74		
28	0.92	3.71	3.88	3.08	12.92	22.34	4.89	1.30	3.00	3.12	1.09	0.76		
29	0.88	4.85	3.75	2.62	12.85	21.98	3.80	1.30	2.75	2.75		0.78		
30	0.88	5.43	3.71	2.14	16.42	21.62	3.54	1.27	2.49	2.37		0.80		
31		5.18		1.93	17.33		3.33		2.24	2.08		0.82		
Total	56.68	67.68	66.09	63.77	135.11	415.72	264.53	86.74	65.69	78.92	52.16	41.85	1394.94	CMSDAY
Mean	1.89	2.18	2.20	2.06	4.36	13.86	8.53	2.89	2.12	2.55	1.86	1.35	3.82	CMS
Max	3.04	5.43	4.59	5.48	17.33	22.52	21.80	9.58	3.84	3.88	4.38	3.63	22.52	CMS
Min	0.88	0.68	0.42	0.30	0.34	2.96	1.42	1.27	0.76	0.84	0.08	0.72	0.08	CMS
Runoff	4.90	5.85	5.71	5.51	11.67	35.92	22.86	7.49	5.68	6.82	4.51	3.62	120.52	MCM

Momentary Peak 23.00 CMS, at 230.13 m. (MSL.), at 06.00 Hours, on Sep 27, 2014

Runoff Yield 3.14 Liters/Second/Square KM. Momentary Peak Yield 18.883 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

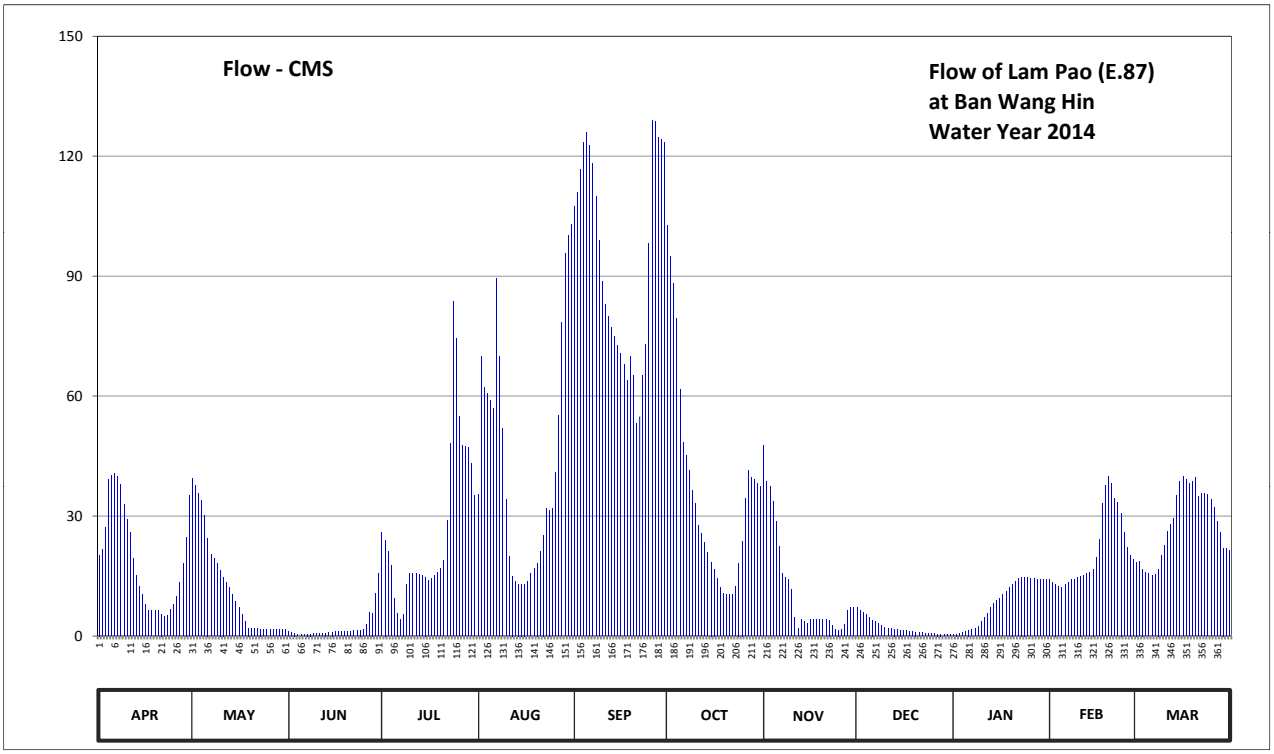
Location : on left bank at Ban Wang Hin.

	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 mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.83	131.58	129.85	131.07	131.44	133.46	133.34	131.86	130.23	129.68	130.55	130.75	
2	130.89	131.52	129.79	131.00	132.50	133.55	133.15	131.56	130.20	129.70	130.52	130.76	
3	131.12	131.45	129.75	130.87	132.28	133.69	132.98	131.51	130.18	129.74	130.50	130.67	
4	131.57	131.38	129.68	130.71	132.24	133.86	132.75	131.37	130.15	129.79	130.47	130.63	
5	131.61	131.24	129.64	130.34	132.19	133.92	132.27	131.18	130.12	129.85	130.46	130.62	
6	131.62	131.02	129.68	130.17	132.14	133.84	131.88	130.93	130.09	129.90	130.49	130.60	
7	131.60	130.84	129.70	130.10	133.01	133.73	131.77	130.62	130.07	129.94	130.52	130.61	
8	131.53	130.79	129.70	130.16	132.50	133.52	131.65	130.57	130.05	129.98	130.55	130.67	
9	131.34	130.73	129.71	130.49	132.00	133.25	131.48	130.55	130.03	130.02	130.55	130.82	
10	131.20	130.66	129.71	130.62	131.39	132.99	131.35	130.44	130.01	130.07	130.57	130.94	
11	131.07	130.58	129.72	130.62	130.81	132.84	131.14	130.12	129.99	130.12	130.59	131.08	
12	130.79	130.52	129.73	130.62	130.59	132.76	131.06	129.97	129.97	130.17	130.60	131.15	
13	130.60	130.46	129.75	130.61	130.53	132.69	130.97	130.10	129.95	130.23	130.62	131.21	
14	130.47	130.38	129.78	130.60	130.50	132.63	130.86	130.07	129.92	130.28	130.63	131.43	
15	130.38	130.30	129.80	130.58	130.50	132.57	130.75	130.05	129.90	130.31	130.67	131.56	
16	130.27	130.23	129.82	130.54	130.50	132.52	130.67	130.10	129.88	130.34	130.80	131.60	
17	130.20	130.15	129.81	130.56	130.53	132.44	130.56	130.10	129.86	130.38	131.01	131.57	
18	130.20	130.07	129.82	130.60	130.62	132.33	130.46	130.10	129.84	130.42	131.35	131.54	
19	130.20	130.00	129.84	130.63	130.68	132.50	130.39	130.10	129.82	130.46	131.52	131.56	
20	130.20	129.99	129.84	130.68	130.74	132.37	130.38	130.10	129.80	130.50	131.60	131.59	
21	130.16	129.98	129.85	130.77	130.87	132.03	130.38	130.10	129.78	130.53	131.54	131.42	
22	130.13	129.96	129.87	131.19	131.05	132.08	130.38	130.09	129.76	130.56	131.40	131.45	
23	130.14	129.95	129.89	131.87	131.30	132.37	130.47	130.03	129.74	130.58	131.36	131.45	
24	130.21	129.94	129.90	132.86	131.29	132.58	130.74	129.94	129.72	130.58	131.26	131.44	
25	130.27	129.94	129.94	132.62	131.30	133.23	130.99	129.90	129.71	130.57	131.07	131.39	
26	130.36	129.93	130.04	132.08	131.63	134.00	131.40	129.92	129.71	130.56	130.92	131.31	
27	130.52	129.93	130.18	131.86	132.09	133.99	131.65	130.04	129.70	130.56	130.83	131.18	
28	130.73	129.93	130.17	131.85	132.72	133.89	131.59	130.20	129.70	130.55	130.78	131.07	
29	131.03	129.93	130.39	131.84	133.17	133.88	131.57	130.23	129.69	130.55		130.91	
30	131.43	129.92	130.62	131.71	133.28	133.86	131.54	130.23	129.69	130.55		130.90	
31		129.92		131.43	133.35		131.51		129.69	130.55		130.88	
Mean	130.76	130.43	129.87	131.02	131.60	133.11	131.36	130.40	129.90	130.26	130.85	131.12	
Max	131.62	131.58	130.62	132.86	133.35	134.00	133.34	131.86	130.23	130.58	131.60	131.60	134.00
Min	130.13	129.92	129.64	130.10	130.50	132.03	130.38	129.90	129.69	129.68	130.46	130.60	129.64

Annual Max Momentary Gage Height	134.12	m. (MSL.) ,	at 17.00 Hours, on Sep 26, 2014		
Zero Gage at Bottom Elevation	128.90	m. (MSL.) ,	River Bed	129.18	m. (MSL.)
Left Bank Elevation	139.88	m. (MSL.) ,			
Right Bank Elevation	139.88	m. (MSL.) ,	Drainage Area	7068	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.26	39.40	1.25	25.82	35.44	107.40	102.60	47.80	7.06	0.44	14.10	18.50		
2	21.58	37.60	0.95	24.00	70.00	111.00	95.00	38.80	6.40	0.50	13.44	18.72		
3	27.12	35.70	0.75	21.14	62.08	116.60	88.24	37.30	5.96	0.70	13.00	16.74		
4	39.10	33.88	0.44	17.62	60.64	123.40	79.50	33.62	5.30	0.95	12.34	15.86		
5	40.30	30.24	0.32	9.48	58.84	125.80	61.72	28.68	4.64	1.25	12.12	15.64		
6	40.60	24.52	0.44	5.74	57.04	122.60	48.40	22.46	3.98	1.50	12.78	15.20		
7	40.00	20.48	0.50	4.20	89.40	118.20	45.10	15.64	3.54	1.70	13.44	15.42		
8	37.90	19.38	0.50	5.52	70.00	109.80	41.50	14.54	3.10	1.90	14.10	16.74		
9	32.84	18.06	0.55	12.78	52.00	99.00	36.48	14.10	2.66	2.44	14.10	20.04		
10	29.20	16.52	0.55	15.64	34.14	88.62	33.10	11.68	2.22	3.54	14.54	22.68		
11	25.82	14.76	0.60	15.64	19.82	82.92	27.64	4.64	1.95	4.64	14.98	26.08		
12	19.38	13.44	0.65	15.64	14.98	79.88	25.56	1.85	1.85	5.74	15.20	27.90		
13	15.20	12.12	0.75	15.42	13.66	77.22	23.34	4.20	1.75	7.06	15.64	29.46		
14	12.34	10.36	0.90	15.20	13.00	74.94	20.92	3.54	1.60	8.16	15.86	35.18		
15	10.36	8.60	1.00	14.76	13.00	72.66	18.50	3.10	1.50	8.82	16.74	38.80		
16	7.94	7.06	1.10	13.88	13.00	70.76	16.74	4.20	1.40	9.48	19.60	40.00		
17	6.40	5.30	1.05	14.32	13.66	67.84	14.32	4.20	1.30	10.36	24.26	39.10		
18	6.40	3.54	1.10	15.20	15.64	63.88	12.12	4.20	1.20	11.24	33.10	38.20		
19	6.40	2.00	1.20	15.86	16.96	70.00	10.58	4.20	1.10	12.12	37.60	38.80		
20	6.40	1.95	1.20	16.96	18.28	65.32	10.36	4.20	1.00	13.00	40.00	39.70		
21	5.52	1.90	1.25	18.94	21.14	53.08	10.36	4.20	0.90	13.66	38.20	34.92		
22	4.86	1.80	1.35	28.94	25.30	54.88	10.36	3.98	0.80	14.32	34.40	35.70		
23	5.08	1.75	1.45	48.10	31.80	65.32	12.34	2.66	0.70	14.76	33.36	35.70		
24	6.62	1.70	1.50	83.68	31.54	73.04	18.28	1.70	0.60	14.76	30.76	35.44		
25	7.94	1.70	1.70	74.56	31.80	98.20	23.78	1.50	0.55	14.54	25.82	34.14		
26	9.92	1.65	2.88	54.88	40.90	129.00	34.40	1.60	0.55	14.32	22.24	32.06		
27	13.44	1.65	5.96	47.80	55.24	128.60	41.50	2.88	0.50	14.32	20.26	28.68		
28	18.06	1.65	5.74	47.50	78.36	124.60	39.70	6.40	0.50	14.10	19.16	25.82		
29	24.78	1.65	10.58	47.20	95.80	124.20	39.10	7.06	0.47	14.10		22.02		
30	35.18	1.60	15.64	43.30	100.20	123.40	38.20	7.06	0.47	14.10		21.80		
31		1.60		35.18	103.00		37.30		0.47	14.10		21.36		
Total	576.94	373.56	63.85	824.90	1356.66	2822.16	1117.04	341.99	66.02	262.62	591.14	856.40	9253.28	CMSDAY
Mean	19.23	12.05	2.13	26.61	43.76	94.07	36.03	11.40	2.13	8.47	21.11	27.63	25.35	CMS
Max	40.60	39.40	15.64	83.68	103.00	129.00	102.60	47.80	7.06	14.76	40.00	40.00	129.00	CMS
Min	4.86	1.60	0.32	4.20	13.00	53.08	10.36	1.50	0.47	0.44	12.12	15.20	0.32	CMS
Runoff	49.85	32.28	5.52	71.27	117.22	243.84	96.51	29.55	5.70	22.69	51.07	73.99	799.48	MCM

Momentary Peak 134.04 CMS, at 134.12 m. (MSL.), at 17.00 Hours, on Sep 26, 2014

Runoff Yield 3.59 Liters/Second/Square KM. Momentary Peak Yield 18.964 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

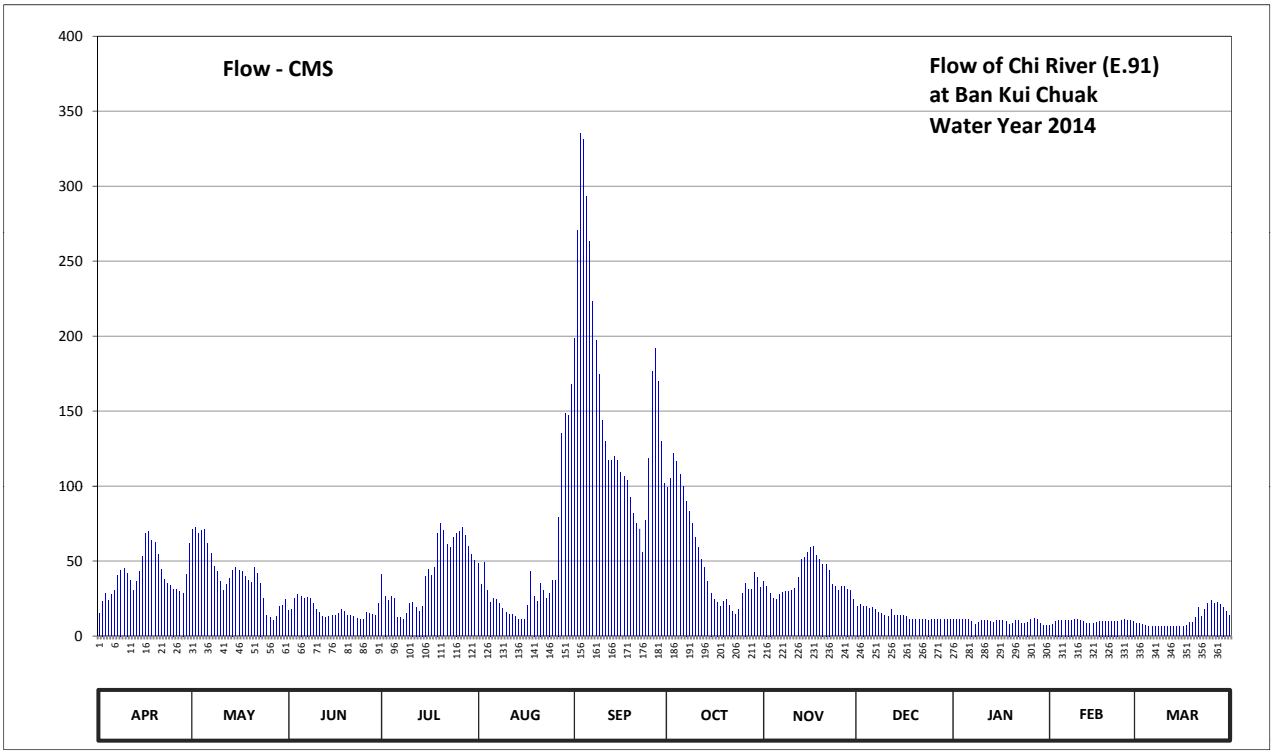
Location : on left bank at Ban Kui Chuak.

	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 Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.84	141.16	139.91	140.58	140.73	143.03	141.64	140.48	140.00	139.65	139.46	139.52	
2	140.11	141.19	139.93	140.22	140.43	143.82	141.74	140.41	140.03	139.65	139.49	139.51	
3	140.28	141.11	140.17	140.13	140.74	144.47	142.00	140.29	140.00	139.65	139.60	139.49	
4	140.13	141.15	140.25	140.21	140.33	144.43	141.91	140.16	139.99	139.65	139.63	139.45	
5	140.25	141.16	140.22	140.17	140.09	144.05	141.78	140.15	139.95	139.65	139.63	139.43	
6	140.34	140.99	140.16	139.72	140.16	143.74	141.65	140.25	139.97	139.65	139.63	139.41	
7	140.57	140.86	140.20	139.71	140.15	143.31	141.50	140.30	139.93	139.60	139.63	139.41	
8	140.64	140.69	140.16	139.64	140.05	143.01	141.38	140.31	139.85	139.50	139.63	139.41	
9	140.66	140.62	140.05	139.84	139.94	142.73	141.23	140.32	139.84	139.54	139.64	139.41	
10	140.60	140.48	139.93	140.06	139.86	142.32	141.07	140.33	139.78	139.61	139.65	139.42	
11	140.50	140.34	139.86	140.09	139.82	142.11	140.94	140.37	139.75	139.61	139.63	139.43	
12	140.33	140.44	139.74	139.98	139.81	141.93	140.78	140.54	139.92	139.62	139.59	139.43	
13	140.49	140.53	139.73	139.89	139.75	141.93	140.68	140.78	139.79	139.59	139.51	139.43	
14	140.62	140.64	139.75	140.00	139.66	141.97	140.48	140.81	139.77	139.54	139.52	139.43	
15	140.82	140.68	139.78	140.56	139.64	141.93	140.29	140.87	139.80	139.62	139.52	139.43	
16	141.11	140.63	139.80	140.65	139.64	141.80	140.15	140.94	139.79	139.62	139.55	139.42	
17	141.14	140.62	139.83	140.57	140.01	141.76	140.09	140.95	139.74	139.62	139.60	139.46	
18	141.03	140.55	139.92	140.67	140.62	141.72	139.99	140.84	139.65	139.59	139.60	139.54	
19	141.01	140.50	139.87	141.12	140.22	141.54	140.11	140.78	139.65	139.50	139.60	139.55	
20	140.85	140.47	139.78	141.23	140.10	141.35	140.14	140.72	139.65	139.53	139.60	139.71	
21	140.65	140.67	139.77	141.15	140.46	141.23	140.02	140.72	139.65	139.62	139.60	139.98	
22	140.51	140.59	139.76	140.98	140.34	141.17	139.89	140.64	139.65	139.63	139.60	139.75	
23	140.45	140.46	139.69	140.94	140.16	140.87	139.82	140.44	139.64	139.53	139.60	139.93	
24	140.42	140.16	139.64	141.07	140.29	141.27	139.92	140.40	139.63	139.53	139.61	140.05	
25	140.36	139.79	139.67	141.12	140.50	141.95	140.28	140.34	139.64	139.57	139.65	140.12	
26	140.35	139.72	139.85	141.14	140.50	142.76	140.46	140.40	139.65	139.64	139.63	140.05	
27	140.32	139.61	139.83	141.18	141.31	142.95	140.35	140.40	139.65	139.68	139.63	140.09	
28	140.29	139.76	139.81	141.09	142.19	142.67	140.35	140.36	139.65	139.65	139.60	140.03	
29	140.58	139.99	139.78	140.95	142.39	142.12	140.61	140.34	139.65	139.51		139.98	
30	141.00	140.01	140.05	140.85	142.37	141.68	140.54	140.15	139.65	139.45		139.88	
31		140.14		140.77	142.65		140.39		139.65	139.44		139.80	
Mean	140.54	140.51	139.90	140.53	140.48	142.39	140.72	140.49	139.77	139.59	139.59	139.64	
Max	141.14	141.19	140.25	141.23	142.65	144.47	142.00	140.95	140.03	139.68	139.65	140.12	144.47
Min	139.84	139.61	139.64	139.64	139.64	140.87	139.82	140.15	139.63	139.44	139.46	139.41	139.41

Annual Max Momentary Gage Height	144.54	m. (MSL.) ,	at 06.00 Hours, on Sep 4, 2014		
Zero Gage at Bottom Elevation	138.00	m. (MSL.) ,	River Bed	138.30	m. (MSL.)
Left Bank Elevation	152.09	m. (MSL.) ,			
Right Bank Elevation	152.05	m. (MSL.) ,	Drainage Area	29265	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.20	70.96	17.30	41.00	48.50	198.64	98.96	36.20	20.00	11.00	7.20	8.40		
2	23.30	72.64	17.90	26.60	34.20	270.72	105.36	33.40	20.90	11.00	7.80	8.20		
3	28.40	68.16	25.10	23.90	49.00	335.00	122.00	28.70	20.00	11.00	10.00	7.80		
4	23.90	70.40	27.50	26.30	30.20	331.00	116.24	24.80	19.70	11.00	10.60	7.00		
5	27.50	70.96	26.60	25.10	22.70	293.00	107.92	24.50	18.50	11.00	10.60	6.60		
6	30.60	61.50	24.80	12.40	24.80	263.04	99.60	27.50	19.10	11.00	10.60	6.20		
7	40.50	55.00	26.00	12.20	24.50	223.28	90.00	29.00	17.90	10.00	10.60	6.20		
8	44.00	46.50	24.80	10.80	21.50	196.88	83.28	29.40	15.50	8.00	10.60	6.20		
9	45.00	43.00	21.50	15.20	18.20	174.40	74.88	29.80	15.20	8.80	10.80	6.20		
10	42.00	36.20	17.90	21.80	15.80	143.76	65.92	30.20	13.60	10.20	11.00	6.40		
11	37.00	30.60	15.80	22.70	14.60	129.48	59.00	31.80	13.00	10.20	10.60	6.60		
12	30.20	34.60	12.80	19.40	14.30	117.52	51.00	39.00	17.60	10.40	9.80	6.60		
13	36.60	38.50	12.60	16.70	13.00	117.52	46.00	51.00	13.80	9.80	8.20	6.60		
14	43.00	44.00	13.00	20.00	11.20	120.08	36.20	52.50	13.40	8.80	8.40	6.60		
15	53.00	46.00	13.60	40.00	10.80	117.52	28.70	55.50	14.00	10.40	8.40	6.60		
16	68.16	43.50	14.00	44.50	10.80	109.20	24.50	59.00	13.80	10.40	9.00	6.40		
17	69.84	43.00	14.90	40.50	20.30	106.64	22.70	59.50	12.80	10.40	10.00	7.20		
18	63.68	39.50	17.60	45.50	43.00	104.08	19.70	54.00	11.00	9.80	10.00	8.80		
19	62.56	37.00	16.10	68.72	26.60	92.56	23.30	51.00	11.00	8.00	10.00	9.00		
20	54.50	35.80	13.60	74.88	23.00	81.60	24.20	48.00	11.00	8.60	10.00	12.20		
21	44.50	45.50	13.40	70.40	35.40	74.88	20.60	48.00	11.00	10.40	10.00	19.40		
22	37.50	41.50	13.20	61.00	30.60	71.52	16.70	44.00	11.00	10.60	10.00	13.00		
23	35.00	35.40	11.80	59.00	24.80	55.50	14.60	34.60	10.80	8.60	10.00	17.90		
24	33.80	24.80	10.80	65.92	28.70	77.12	17.60	33.00	10.60	8.60	10.20	21.50		
25	31.40	13.80	11.40	68.72	37.00	118.80	28.40	30.60	10.80	9.40	11.00	23.60		
26	31.00	12.40	15.50	69.84	37.00	176.80	35.40	33.00	11.00	10.80	10.60	21.50		
27	29.80	10.20	14.90	72.08	79.36	192.00	31.00	33.00	11.00	11.60	10.60	22.70		
28	28.70	13.20	14.30	67.04	134.92	169.60	31.00	31.40	11.00	11.00	10.00	20.90		
29	41.00	19.70	13.60	59.50	148.52	130.16	42.50	30.60	11.00	8.20		19.40		
30	62.00	20.30	21.50	54.50	147.16	101.52	39.00	24.50	11.00	7.00		16.40		
31		24.20		50.50	168.00		32.60		11.00	6.80		14.00		
Total	1213.64	1248.82	513.80	1306.70	1348.46	4693.82	1608.86	1137.50	432.00	302.80	276.60	356.10	14439.10	CMSDAY
Mean	40.45	40.28	17.13	42.15	43.50	156.46	51.90	37.92	13.94	9.77	9.88	11.49	39.56	CMS
Max	69.84	72.64	27.50	74.88	168.00	335.00	122.00	59.50	20.90	11.60	11.00	23.60	335.00	CMS
Min	15.20	10.20	10.80	10.80	10.80	55.50	14.60	24.50	10.60	6.80	7.20	6.20	6.20	CMS
Runoff	104.86	107.90	44.39	112.90	116.51	405.55	139.01	98.28	37.33	26.16	23.90	30.77	1247.54	MCM

Momentary Peak 342.00 CMS, at 144.54 m. (MSL.), at 06.00 Hours, on Sep 4, 2014

Runoff Yield 1.35 Liters/Second/Square KM. Momentary Peak Yield 11.686 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

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

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

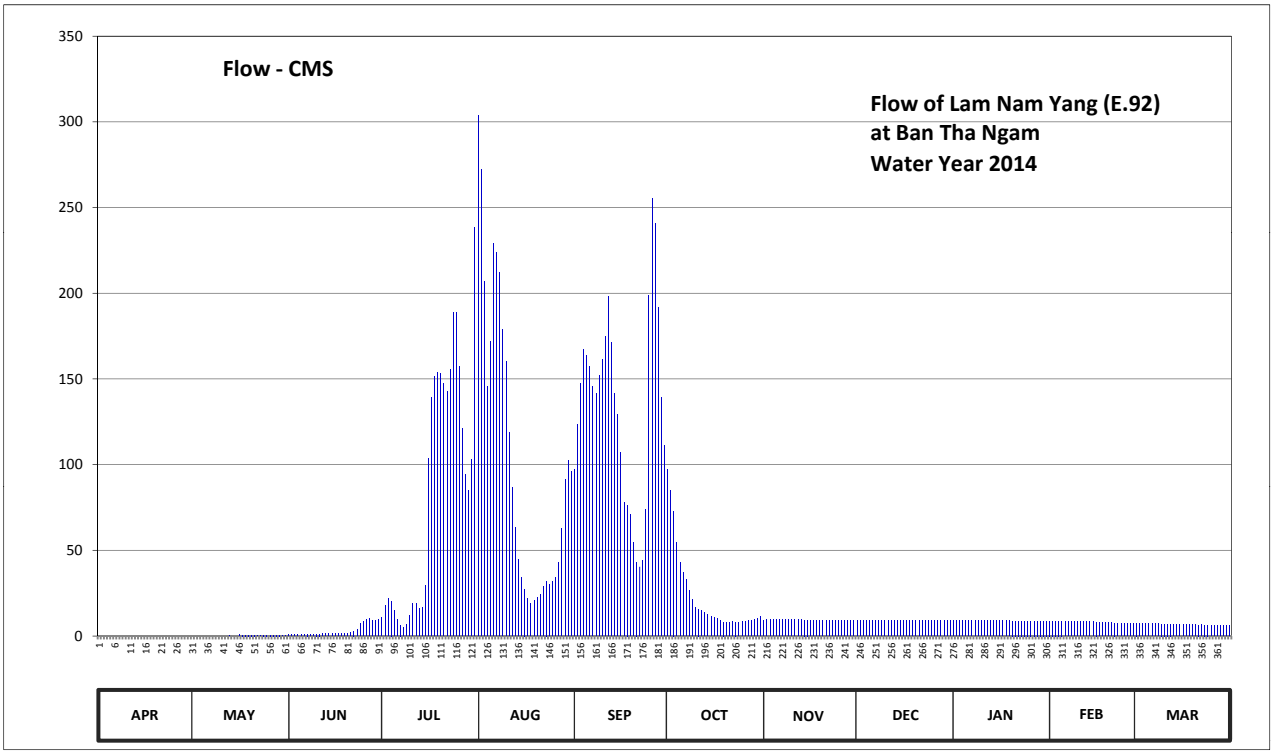
Location : on right bank at the bridge.

	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 mean of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.93	124.93	126.17	128.00	134.15	132.01	132.01	127.73	127.70	127.70	127.68	127.52	
2	124.93	124.93	126.23	128.66	133.94	132.39	131.76	127.77	127.70	127.70	127.68	127.51	
3	124.93	124.93	126.25	129.08	133.37	132.73	131.52	127.79	127.70	127.70	127.68	127.50	
4	124.93	124.93	126.26	128.94	132.71	132.95	131.06	127.80	127.70	127.70	127.68	127.49	
5	124.93	124.93	126.27	128.40	133.00	132.91	130.59	127.80	127.70	127.70	127.68	127.47	
6	124.93	124.93	126.28	127.78	133.59	132.84	130.25	127.80	127.70	127.70	127.67	127.46	
7	124.93	124.94	126.30	127.35	133.54	132.71	129.95	127.80	127.70	127.70	127.67	127.46	
8	124.93	125.01	126.28	127.14	133.42	132.65	129.47	127.79	127.70	127.70	127.67	127.44	
9	124.93	125.21	126.28	127.39	133.08	132.78	129.03	127.79	127.70	127.70	127.67	127.43	
10	124.93	125.42	126.29	128.10	132.87	132.88	128.59	127.78	127.70	127.70	127.67	127.43	
11	124.93	125.64	126.30	128.77	132.33	133.03	128.48	127.78	127.70	127.69	127.67	127.42	
12	124.93	125.91	126.32	128.78	131.79	133.28	128.38	127.77	127.70	127.69	127.65	127.42	
13	124.93	126.08	126.33	128.52	131.31	132.99	128.28	127.77	127.70	127.69	127.63	127.40	
14	124.93	125.83	126.34	128.57	130.67	132.65	128.14	127.76	127.70	127.69	127.62	127.39	
15	124.93	125.95	126.35	129.68	130.05	132.48	128.05	127.76	127.70	127.69	127.61	127.39	
16	124.93	126.24	126.35	132.11	129.53	132.16	127.98	127.75	127.70	127.69	127.60	127.39	
17	124.93	126.15	126.35	132.62	129.06	131.62	127.86	127.75	127.70	127.69	127.59	127.38	
18	124.93	126.15	126.35	132.77	128.77	131.59	127.71	127.75	127.70	127.69	127.58	127.38	
19	124.93	126.15	126.36	132.80	128.95	131.48	127.60	127.74	127.70	127.69	127.56	127.37	
20	124.93	126.15	126.40	132.79	129.13	131.06	127.58	127.74	127.70	127.68	127.55	127.37	
21	124.93	126.15	126.54	132.73	129.29	130.61	127.57	127.73	127.70	127.68	127.53	127.35	
22	124.93	126.13	126.73	132.67	129.64	130.46	127.64	127.73	127.70	127.68	127.52	127.36	
23	124.93	126.12	127.00	132.82	129.89	130.66	127.60	127.72	127.70	127.68	127.51	127.35	
24	124.93	126.15	127.45	133.19	129.73	131.54	127.59	127.72	127.70	127.68	127.50	127.34	
25	124.93	126.15	127.63	133.19	129.86	133.29	127.61	127.71	127.70	127.68	127.49	127.33	
26	124.93	126.15	127.82	132.84	130.05	133.81	127.64	127.71	127.70	127.68	127.49	127.32	
27	124.93	126.15	127.92	132.36	130.59	133.69	127.70	127.71	127.70	127.68	127.49	127.30	
28	124.93	126.15	127.74	131.95	131.29	133.22	127.75	127.70	127.70	127.68	127.49	127.30	
29	124.93	126.15	127.73	131.76	131.89	132.62	127.80	127.70	127.70	127.68		127.29	
30	124.93	126.14	127.79	132.10	132.09	132.22	127.92	127.70	127.70	127.68		127.29	
31		126.14		133.67	131.98		128.06		127.70	127.68		127.30	
Mean	124.93	125.74	126.68	130.57	131.34	132.38	128.68	127.75	127.70	127.69	127.60	127.39	
Max	124.93	126.24	127.92	133.67	134.15	133.81	132.01	127.80	127.70	127.70	127.68	127.52	134.15
Min	124.93	124.93	126.17	127.14	128.77	130.46	127.57	127.70	127.70	127.68	127.49	127.29	124.93

Annual Max Momentary Gage Height	134.15	m. (MSL.) ,	at 01.00 Hours, on Aug 1, 2014		
Zero Gage at Bottom Elevation	124.50	m. (MSL.) ,	River Bed	124.56	m. (MSL.)
Left Bank Elevation	136.69	m. (MSL.) ,			
Right Bank Elevation	136.69	m. (MSL.) ,	Drainage Area	3359	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.68	11.00	303.50	97.60	97.60	9.11	8.90	8.90	8.76	7.64		
2	0.00	0.00	0.92	17.60	272.00	123.30	85.00	9.39	8.90	8.90	8.76	7.57		
3	0.00	0.00	1.00	21.96	207.00	147.70	73.00	9.53	8.90	8.90	8.76	7.50		
4	0.00	0.00	1.04	20.40	145.90	167.50	54.80	9.60	8.90	8.90	8.76	7.43		
5	0.00	0.00	1.08	15.00	172.00	163.90	42.80	9.60	8.90	8.90	8.76	7.29		
6	0.00	0.00	1.12	9.46	229.00	157.60	37.25	9.60	8.90	8.90	8.69	7.22		
7	0.00	0.00	1.20	6.45	224.00	145.90	32.85	9.60	8.90	8.90	8.69	7.22		
8	0.00	0.00	1.12	4.98	212.00	141.50	26.64	9.53	8.90	8.90	8.69	7.08		
9	0.00	0.00	1.12	6.73	179.20	152.20	21.36	9.53	8.90	8.90	8.69	7.01		
10	0.00	0.00	1.16	12.00	160.30	161.20	16.90	9.46	8.90	8.90	8.69	7.01		
11	0.00	0.00	1.20	18.70	119.10	174.70	15.80	9.46	8.90	8.83	8.69	6.94		
12	0.00	0.00	1.28	18.80	86.50	198.00	14.80	9.39	8.90	8.83	8.55	6.94		
13	0.00	0.32	1.32	16.20	63.40	171.10	13.80	9.39	8.90	8.83	8.41	6.80		
14	0.00	0.00	1.36	16.70	44.40	141.50	12.40	9.32	8.90	8.83	8.34	6.73		
15	0.00	0.00	1.40	29.34	34.25	129.60	11.50	9.32	8.90	8.83	8.27	6.73		
16	0.00	0.96	1.40	103.70	27.39	107.20	10.86	9.25	8.90	8.83	8.20	6.73		
17	0.00	0.60	1.40	139.40	21.72	78.00	10.02	9.25	8.90	8.83	8.13	6.66		
18	0.00	0.60	1.40	151.30	18.70	76.50	8.97	9.25	8.90	8.83	8.06	6.66		
19	0.00	0.60	1.44	154.00	20.50	71.00	8.20	9.18	8.90	8.83	7.92	6.59		
20	0.00	0.60	1.60	153.10	22.56	54.80	8.06	9.18	8.90	8.76	7.85	6.59		
21	0.00	0.60	2.16	147.70	24.48	43.20	7.99	9.11	8.90	8.76	7.71	6.45		
22	0.00	0.52	2.92	142.90	28.82	40.40	8.48	9.11	8.90	8.76	7.64	6.52		
23	0.00	0.48	4.00	155.80	32.07	44.20	8.20	9.04	8.90	8.76	7.57	6.45		
24	0.00	0.60	7.15	189.10	29.99	74.00	8.13	9.04	8.90	8.76	7.50	6.38		
25	0.00	0.60	8.41	189.10	31.68	199.00	8.27	8.97	8.90	8.76	7.43	6.31		
26	0.00	0.60	9.74	157.60	34.25	255.20	8.48	8.97	8.90	8.76	7.43	6.24		
27	0.00	0.60	10.44	121.20	42.80	240.80	8.90	8.97	8.90	8.76	7.43	6.10		
28	0.00	0.60	9.18	94.50	62.60	192.00	9.25	8.90	8.90	8.76	7.43	6.10		
29	0.00	0.60	9.11	85.00	91.50	139.40	9.60	8.90	8.90	8.76		6.03		
30	0.00	0.56	9.53	103.00	102.40	111.40	10.44	8.90	8.90	8.76		6.03		
31		0.56		238.40	96.00		11.60		8.90	8.76		6.10		
Total	0.00	10.00	96.88	2551.12	3140.01	4000.40	701.95	277.85	275.90	273.59	229.81	209.05	11766.56	CMSDAY
Mean	0.00	0.32	3.23	82.29	101.29	133.35	22.64	9.26	8.90	8.83	8.21	6.74	32.24	CMS
Max	0.00	0.96	10.44	238.40	303.50	255.20	97.60	9.60	8.90	8.90	8.76	7.64	303.50	CMS
Min	0.00	0.00	0.68	4.98	18.70	40.40	7.99	8.90	8.90	8.76	7.43	6.03	0.00	CMS
Runoff	0.00	0.86	8.37	220.42	271.30	345.64	60.65	24.01	23.84	23.64	19.86	18.06	1016.63	MCM

Momentary Peak 303.50 CMS, at 134.15 m. (MSL.), at 01.00 Hours, on Aug 1, 2014

Runoff Yield 9.60 Liters/Second/Square KM. Momentary Peak Yield 90.354 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Chi River at Wang Yang Barrage , Roi Et (E.94)

Lat 16 - 11 - 59 N Long 103 - 28 - 26 E

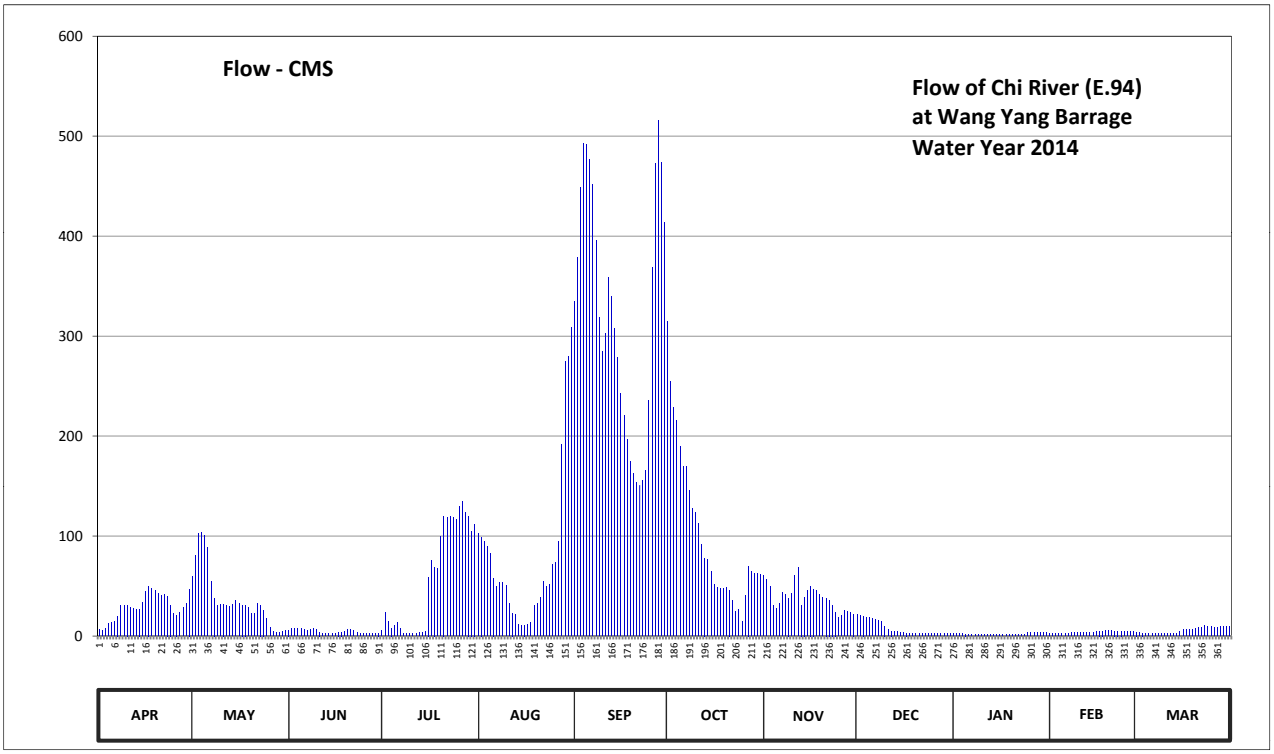
Location : on left bank at Wang Yang Barrage.

	Ban -	**Amphoe**	Changhan	**Changwat**	Roi Et
Drainge Area	31,226 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+128.800 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On left bank near the relate.			**Elevation**	+142.200 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	2013 to date				
Rating Operation					
Period of Rating	2013 to date				
Rated by Flot	-				
Rated by Current Meter	2013 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.14	131.38	130.13	130.11	131.56	134.44	134.23	131.39	130.69	129.76	129.88	130.00	
2	130.11	131.62	130.21	130.74	131.50	134.90	133.56	131.34	130.66	129.73	129.86	129.96	
3	130.21	131.81	130.20	130.45	131.43	135.59	133.26	131.24	130.63	129.73	129.83	129.90	
4	130.38	131.82	130.19	130.22	131.34	136.02	133.10	130.89	130.59	129.73	129.83	129.87	
5	130.42	131.80	130.21	130.31	131.21	136.01	132.79	130.83	130.58	129.71	129.83	129.85	
6	130.45	131.70	130.16	130.41	130.75	135.86	132.54	130.94	130.55	129.69	129.85	129.85	
7	130.63	131.32	130.11	130.18	130.57	135.62	132.55	131.14	130.51	129.64	129.88	129.84	
8	130.89	131.04	130.14	129.87	130.65	135.07	132.22	131.11	130.47	129.62	129.91	129.83	
9	130.89	130.89	130.18	129.88	130.65	134.27	131.96	131.04	130.45	129.62	129.96	129.83	
10	130.90	130.91	130.14	129.84	130.59	133.90	131.89	131.12	130.30	129.62	129.98	129.83	
11	130.86	130.92	130.00	129.83	130.19	134.10	131.72	131.40	130.16	129.62	129.98	129.83	
12	130.83	130.89	129.82	129.87	129.95	134.69	131.37	131.49	130.07	129.62	129.98	129.81	
13	130.81	130.87	129.80	129.93	129.91	134.50	131.14	130.90	130.06	129.61	129.98	129.77	
14	130.82	130.91	129.78	129.93	129.62	134.15	131.12	131.06	130.02	129.58	129.98	129.85	
15	130.95	130.99	129.81	130.06	129.58	133.83	130.89	131.18	129.97	129.58	129.98	130.05	
16	131.16	130.93	129.87	130.77	129.60	133.43	130.61	131.25	129.92	129.58	130.01	130.14	
17	131.25	130.90	129.99	131.09	129.62	133.16	130.55	131.20	129.90	129.58	130.07	130.16	
18	131.21	130.90	129.99	130.98	129.68	132.87	130.53	131.17	129.87	129.58	130.07	130.17	
19	131.17	130.85	130.02	130.95	130.14	132.61	130.53	131.11	129.84	129.58	130.09	130.17	
20	131.12	130.71	130.17	131.51	130.19	132.45	130.55	131.05	129.84	129.58	130.12	130.20	
21	131.09	130.72	130.14	131.84	130.33	132.33	130.50	131.04	129.84	129.58	130.09	130.24	
22	131.11	130.93	130.09	131.81	130.68	132.29	130.25	131.00	129.84	129.58	130.07	130.26	
23	131.08	130.90	129.93	131.83	130.58	132.36	129.99	130.90	129.82	129.58	130.07	130.32	
24	130.90	130.80	129.73	131.81	130.61	132.49	130.03	130.75	129.82	129.65	130.07	130.29	
25	130.71	130.55	129.75	131.78	131.02	133.34	130.44	130.58	129.82	129.93	130.06	130.27	
26	130.67	130.26	129.84	131.99	131.06	134.79	131.09	130.66	129.82	129.97	130.04	130.24	
27	130.74	130.01	129.84	132.06	131.42	135.82	131.51	130.79	129.82	129.98	130.04	130.26	
28	130.86	129.94	129.85	131.90	132.81	136.24	131.44	130.77	129.82	129.98	130.03	130.28	
29	130.93	129.93	129.86	131.84	133.79	135.83	131.42	130.74	129.82	129.96		130.27	
30	131.20	130.06	129.90	131.60	133.84	135.25	131.42	130.70	129.82	129.93		130.27	
31		130.08		131.71	134.16		131.41		129.82	129.92		130.27	
Mean	130.82	130.88	130.00	130.87	130.94	134.27	131.50	131.03	130.10	129.70	129.98	130.06	
Max	131.25	131.82	130.21	132.06	134.16	136.24	134.23	131.49	130.69	129.98	130.12	130.32	136.24
Min	130.11	129.93	129.73	129.83	129.58	132.29	129.99	130.58	129.82	129.58	129.83	129.77	129.58

Annual Max Momentary Gage Height	136.28	m. (MSL.) ,	at 14.00 Hours, on Sep 28, 2014			
Zero Gage at Bottom Elevation	128.80	m. (MSL.) ,	River Bed	128.90	m. (MSL.)	
Left Bank Elevation	142.09	m. (MSL.) ,				
Right Bank Elevation	141.98	m. (MSL.) ,	Drainage Area	31226	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.30	59.40	6.10	5.70	102.72	334.48	315.16	60.20	21.70	2.30	2.90	4.00		
2	5.70	81.00	7.75	23.60	99.00	379.20	254.40	56.20	20.80	2.15	2.80	3.60		
3	7.75	102.40	7.50	14.50	94.94	448.36	228.84	49.40	19.90	2.15	2.65	3.00		
4	12.40	103.80	7.30	8.00	89.72	493.08	215.40	30.50	18.70	2.15	2.65	2.85		
5	13.60	101.00	7.75	10.30	82.18	492.04	189.78	27.50	18.40	2.05	2.65	2.75		
6	14.50	89.00	6.70	13.30	58.00	476.44	169.28	33.00	17.50	1.95	2.75	2.75		
7	19.90	54.60	5.70	7.10	49.36	451.48	170.10	43.40	16.30	1.70	2.90	2.70		
8	30.50	38.00	6.30	2.85	53.20	396.00	145.84	41.60	15.10	1.60	3.10	2.65		
9	30.50	30.50	7.10	2.90	53.20	318.84	127.52	38.00	14.50	1.60	3.60	2.65		
10	31.00	31.50	6.30	2.70	50.32	285.00	123.18	42.20	10.00	1.60	3.80	2.65		
11	29.00	32.00	4.00	2.65	32.98	303.20	112.64	61.00	6.70	1.60	3.80	2.65		
12	27.50	30.50	2.60	2.85	23.00	358.62	91.46	68.20	5.05	1.60	3.80	2.55		
13	26.50	29.50	2.50	3.30	21.40	340.00	78.12	31.00	4.90	1.55	3.80	2.35		
14	27.00	31.50	2.40	3.30	11.60	307.80	76.96	39.00	4.30	1.40	3.80	2.75		
15	33.50	35.50	2.55	4.90	10.40	278.70	64.72	45.80	3.70	1.40	3.80	4.75		
16	44.60	32.50	2.85	58.96	11.00	243.12	51.28	50.00	3.20	1.40	4.15	6.30		
17	50.00	31.00	3.90	75.22	11.60	220.44	48.40	47.00	3.00	1.40	5.05	6.70		
18	47.60	31.00	3.90	69.04	13.40	196.34	47.44	45.20	2.85	1.40	5.05	6.90		
19	45.20	28.50	4.30	67.60	30.88	175.02	47.44	41.60	2.70	1.40	5.35	6.90		
20	42.20	22.40	6.90	99.62	32.98	162.40	48.40	38.50	2.70	1.40	5.90	7.50		
21	40.50	22.80	6.30	120.08	38.86	153.76	46.00	38.00	2.70	1.40	5.35	8.50		
22	41.60	32.50	5.35	118.22	54.64	150.88	35.50	36.00	2.70	1.40	5.05	9.00		
23	40.00	31.00	3.30	119.46	49.84	155.92	24.60	31.00	2.60	1.40	5.05	10.60		
24	31.00	26.00	2.15	118.22	51.28	165.28	26.26	24.00	2.60	1.75	5.05	9.75		
25	22.40	17.50	2.25	116.36	71.16	235.56	14.20	18.40	2.60	3.30	4.90	9.25		
26	21.10	9.00	2.70	129.38	73.48	368.42	40.50	20.80	2.60	3.70	4.60	8.50		
27	23.60	4.15	2.70	134.32	94.36	472.28	70.00	25.60	2.60	3.80	4.60	9.00		
28	29.00	3.40	2.75	123.80	191.42	515.96	64.20	24.80	2.60	3.80	4.45	9.50		
29	32.50	3.30	2.80	120.08	275.10	473.32	62.60	23.60	2.60	3.60		9.25		
30	47.00	4.90	3.00	105.20	279.60	414.00	62.60	22.00	2.60	3.30		9.25		
31		5.20		112.02	308.72		61.80		2.60	3.20		9.25		
Total	873.95	1155.35	137.70	1795.53	2420.34	9765.94	3114.62	1153.50	240.80	64.45	113.35	180.80	21016.33	CMSDAY
Mean	29.13	37.27	4.59	57.92	78.08	325.53	100.47	38.45	7.77	2.08	4.05	5.83	57.58	CMS
Max	50.00	103.80	7.75	134.32	308.72	515.96	315.16	68.20	21.70	3.80	5.90	10.60	515.96	CMS
Min	5.70	3.30	2.15	2.65	10.40	150.88	14.20	18.40	2.60	1.40	2.65	2.35	1.40	CMS
Runoff	75.51	99.82	11.90	155.13	209.12	843.78	269.10	99.66	20.81	5.57	9.79	15.62	1815.81	MCM

Momentary Peak 520.12 CMS, at 136.28 m. (MSL.), at 14.00 Hours, on Sep 28, 2014

Runoff Yield 1.84 Liters/Second/Square KM. Momentary Peak Yield 16.657 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Chi River at Roi Et Barrage , Roi Et (E.95)

Lat 16 - 10 - 26 N Long 103 - 47 - 27 E

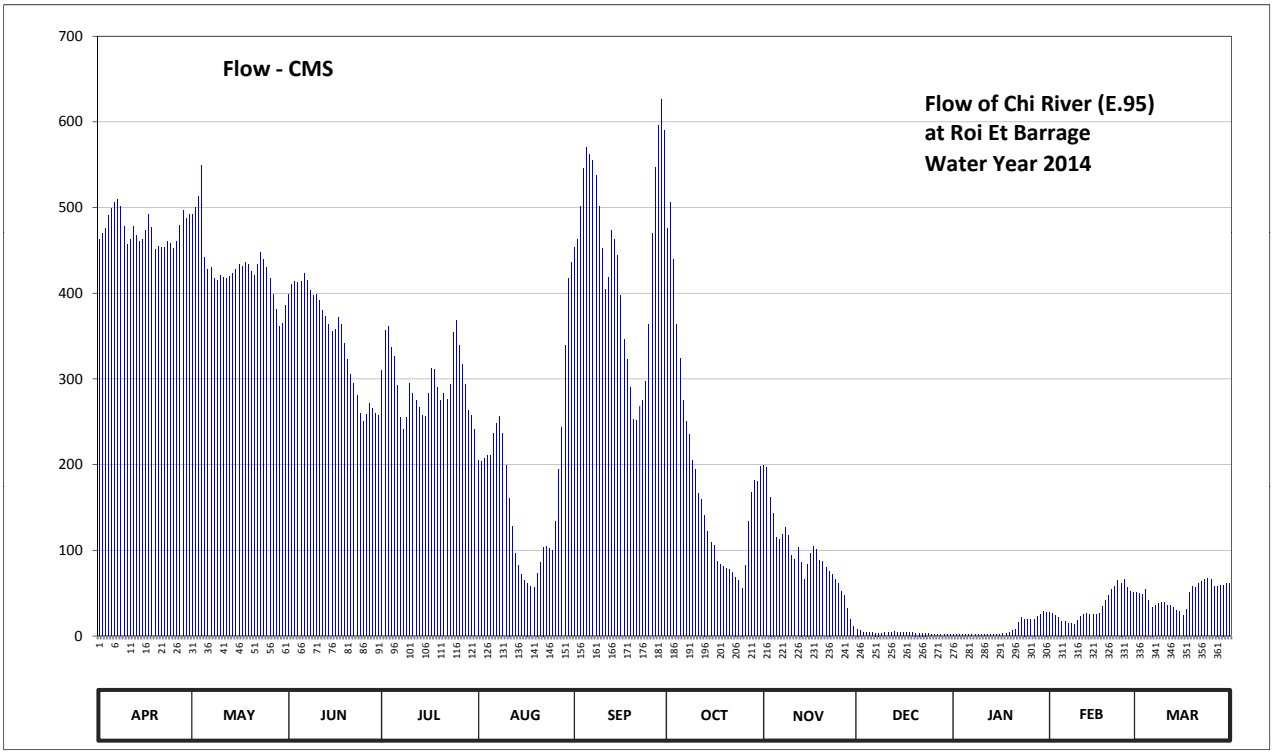
Location : on right bank at Wang Yang Barrage.

	Ban -	**Amphoe**	Chiang Khwan	**Changwat**	Roi Et
Drainge Area	40,780 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+125.000 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On right bank near the relate.			**Elevation**	+134.665 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	2013 to date				
Rating Operation					
Period of Rating	2013 to date				
Rated by Flot	-				
Rated by Current Meter	2013 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.10	130.32	129.61	128.92	128.02	130.03	130.19	127.96	125.33	125.07	125.88	126.32	
2	130.15	130.38	129.70	129.28	128.01	130.10	130.42	127.94	125.27	125.07	125.85	126.30	
3	130.19	130.48	129.72	129.32	128.04	130.39	129.92	127.63	125.17	125.07	125.81	126.28	
4	130.31	130.74	129.71	129.13	128.07	130.71	129.34	127.46	125.16	125.07	125.75	126.38	
5	130.37	129.94	129.72	129.05	128.07	130.89	129.03	127.18	125.15	125.07	125.64	126.16	
6	130.42	129.83	129.79	128.77	128.30	130.83	128.63	127.16	125.15	125.07	125.63	126.02	
7	130.45	129.85	129.73	128.46	128.40	130.78	128.42	127.22	125.14	125.07	125.56	126.05	
8	130.39	129.75	129.64	128.33	128.47	130.65	128.28	127.30	125.14	125.08	125.54	126.09	
9	130.21	129.73	129.60	128.46	128.30	130.39	128.02	127.20	125.10	125.08	125.53	126.12	
10	130.05	129.78	129.61	128.79	127.97	130.02	127.92	126.93	125.15	125.08	125.65	126.12	
11	130.10	129.76	129.55	128.69	127.62	129.65	127.67	126.86	125.16	125.08	125.77	126.06	
12	130.21	129.75	129.46	128.63	127.31	129.76	127.60	127.04	125.18	125.08	125.84	126.05	
13	130.13	129.77	129.41	128.56	126.95	130.18	127.44	126.83	125.19	125.08	125.85	126.02	
14	130.08	129.79	129.34	128.48	126.78	130.10	127.25	126.56	125.18	125.08	125.84	125.94	
15	130.10	129.83	129.27	128.47	126.65	129.96	127.11	126.80	125.18	125.08	125.82	125.91	
16	130.18	129.88	129.29	128.69	126.54	129.60	127.07	126.96	125.17	125.09	125.82	125.81	
17	130.32	129.86	129.40	128.94	126.50	129.20	126.84	127.06	125.16	125.11	125.87	125.97	
18	130.20	129.89	129.34	128.93	126.43	129.02	126.79	127.01	125.15	125.13	126.03	126.32	
19	130.01	129.88	129.17	128.75	126.41	128.75	126.76	126.85	125.15	125.15	126.16	126.43	
20	130.04	129.81	129.02	128.63	126.67	128.44	126.74	126.84	125.14	125.25	126.25	126.42	
21	130.03	129.78	128.88	128.69	126.82	128.43	126.72	126.75	125.14	125.32	126.37	126.48	
22	130.03	129.88	128.79	128.64	127.05	128.57	126.68	126.70	125.14	125.59	126.43	126.53	
23	130.08	129.98	128.67	128.78	127.06	128.63	126.61	126.65	125.14	125.73	126.55	126.57	
24	130.06	129.92	128.50	129.26	127.03	128.81	126.54	126.57	125.10	125.70	126.50	126.59	
25	130.02	129.85	128.42	129.37	127.00	129.34	126.40	126.48	125.08	125.69	126.57	126.57	
26	130.08	129.75	128.49	129.15	127.37	130.15	126.78	126.33	125.07	125.68	126.41	126.43	
27	130.22	129.61	128.60	128.98	127.92	130.72	127.37	126.25	125.07	125.70	126.33	126.44	
28	130.35	129.47	128.55	128.78	128.36	131.07	127.68	125.99	125.07	125.76	126.32	126.45	
29	130.28	129.32	128.50	128.53	129.15	131.29	127.81	125.69	125.07	125.84		126.46	
30	130.32	129.35	128.48	128.48	129.75	131.03	127.79	125.43	125.07	125.92		126.48	
31		129.51		128.33	129.89		127.95		125.07	125.90		126.49	
Mean	130.18	129.85	129.20	128.78	127.64	129.92	127.73	126.85	125.14	125.31	125.98	126.27	
Max	130.45	130.74	129.79	129.37	129.89	131.29	130.42	127.96	125.33	125.92	126.57	126.59	131.29
Min	130.01	129.32	128.42	128.33	126.41	128.43	126.40	125.43	125.07	125.07	125.53	125.81	125.07

Annual Max Momentary Gage Height	131.31	m. (MSL.) ,	at 08.00 Hours, on Sep 29, 2014		
Zero Gage at Bottom Elevation	125.00	m. (MSL.) ,	River Bed	124.93	m. (MSL.)
Left Bank Elevation	134.36	m. (MSL.) ,			
Right Bank Elevation	134.45	m. (MSL.) ,	Drainage Area	40780	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	463.20	492.24	399.30	310.40	205.28	453.96	475.08	198.60	8.25	1.75	27.20	51.20		
2	469.80	500.16	411.00	356.40	204.14	463.20	505.44	196.40	6.75	1.75	26.00	50.00		
3	475.08	513.36	413.60	361.60	207.56	501.48	439.60	162.30	4.25	1.75	24.40	48.80		
4	490.92	549.60	412.30	336.90	210.98	545.40	364.20	143.60	4.00	1.75	22.00	54.80		
5	498.84	442.20	413.60	326.50	210.98	570.60	323.90	115.20	3.75	1.75	17.60	41.60		
6	505.44	427.90	422.70	292.40	237.20	562.20	275.60	113.40	3.75	1.75	17.20	34.00		
7	509.40	430.50	414.90	255.44	248.60	555.20	250.88	119.00	3.50	1.75	14.80	35.50		
8	501.48	417.50	403.20	240.62	256.58	537.00	234.92	127.00	3.50	2.00	14.20	37.50		
9	477.72	414.90	398.00	255.44	237.20	501.48	205.28	117.00	2.50	2.00	13.90	39.20		
10	456.60	421.40	399.30	294.80	199.70	452.64	194.20	94.40	3.75	2.00	18.00	39.20		
11	463.20	418.80	391.50	282.80	161.20	404.50	166.70	88.80	4.00	2.00	22.80	36.00		
12	477.72	417.50	379.80	275.60	128.00	418.80	159.00	103.20	4.50	2.00	25.60	35.50		
13	467.16	420.10	373.30	267.20	96.00	473.76	141.40	86.40	4.75	2.00	26.00	34.00		
14	460.56	422.70	364.20	257.72	82.40	463.20	122.00	65.60	4.50	2.00	25.60	30.00		
15	463.20	427.90	355.10	256.58	72.00	444.80	108.90	84.00	4.50	2.00	24.80	28.50		
16	473.76	434.40	357.70	282.80	64.40	398.00	105.60	96.80	4.25	2.25	24.80	24.40		
17	492.24	431.80	372.00	312.80	62.00	346.00	87.20	104.80	4.00	2.75	26.80	31.50		
18	476.40	435.70	364.20	311.60	57.80	322.60	83.20	100.80	3.75	3.25	34.50	51.20		
19	451.32	434.40	342.10	290.00	56.60	290.00	80.80	88.00	3.75	3.75	41.60	57.80		
20	455.28	425.30	322.60	275.60	73.60	253.16	79.20	87.20	3.50	6.25	47.00	57.20		
21	453.96	421.40	305.60	282.80	85.60	252.02	77.60	80.00	3.50	8.00	54.20	60.80		
22	453.96	434.40	294.80	276.80	104.00	268.40	74.40	76.00	3.50	15.70	57.80	63.80		
23	460.56	447.40	280.40	293.60	104.80	275.60	68.80	72.00	3.50	21.20	65.00	66.20		
24	457.92	439.60	260.00	353.80	102.40	297.20	64.40	66.20	2.50	20.00	62.00	67.40		
25	452.64	430.50	250.88	368.10	100.00	364.20	56.00	60.80	2.00	19.60	66.20	66.20		
26	460.56	417.50	258.86	339.50	134.00	469.80	82.40	51.80	1.75	19.20	56.60	57.80		
27	479.04	399.30	272.00	317.60	194.20	546.80	134.00	47.00	1.75	20.00	51.80	58.40		
28	496.20	381.10	266.00	293.60	244.04	595.80	167.80	32.50	1.75	22.40	51.20	59.00		
29	486.96	361.60	260.00	263.60	339.50	626.60	182.10	19.60	1.75	25.60		59.60		
30	492.24	365.50	257.72	257.72	417.50	590.20	179.90	10.90	1.75	29.00		60.80		
31		386.30		240.62	435.70		197.50		1.75	28.00		61.40		
Total	14223.36	13362.96	10416.66	9130.94	5333.96	13244.60	5688.00	2809.30	111.00	275.20	959.60	1499.30	77054.88	CMSDAY
Mean	474.11	431.06	347.22	294.55	172.06	441.49	183.48	93.64	3.58	8.88	34.27	48.36	211.11	CMS
Max	509.40	549.60	422.70	368.10	435.70	626.60	505.44	198.60	8.25	29.00	66.20	67.40	626.60	CMS
Min	451.32	361.60	250.88	240.62	56.60	252.02	56.00	10.90	1.75	1.75	13.90	24.40	1.75	CMS
Runoff	1228.90	1154.56	900.00	788.91	460.85	1144.33	491.44	242.72	9.59	23.78	82.91	129.54	6657.54	MCM

Momentary Peak 629.40 CMS, at 131.31 m. (MSL.), at 08.00 Hours, on Sep 29, 2014

Runoff Yield 5.18 Liters/Second/Square KM. Momentary Peak Yield 15.434 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Chi River at Yasothon-Phanom Prai Barrage , Yasothon (E.97)

Lat 15 - 43 - 56 N Long 104 - 07 - 56 E

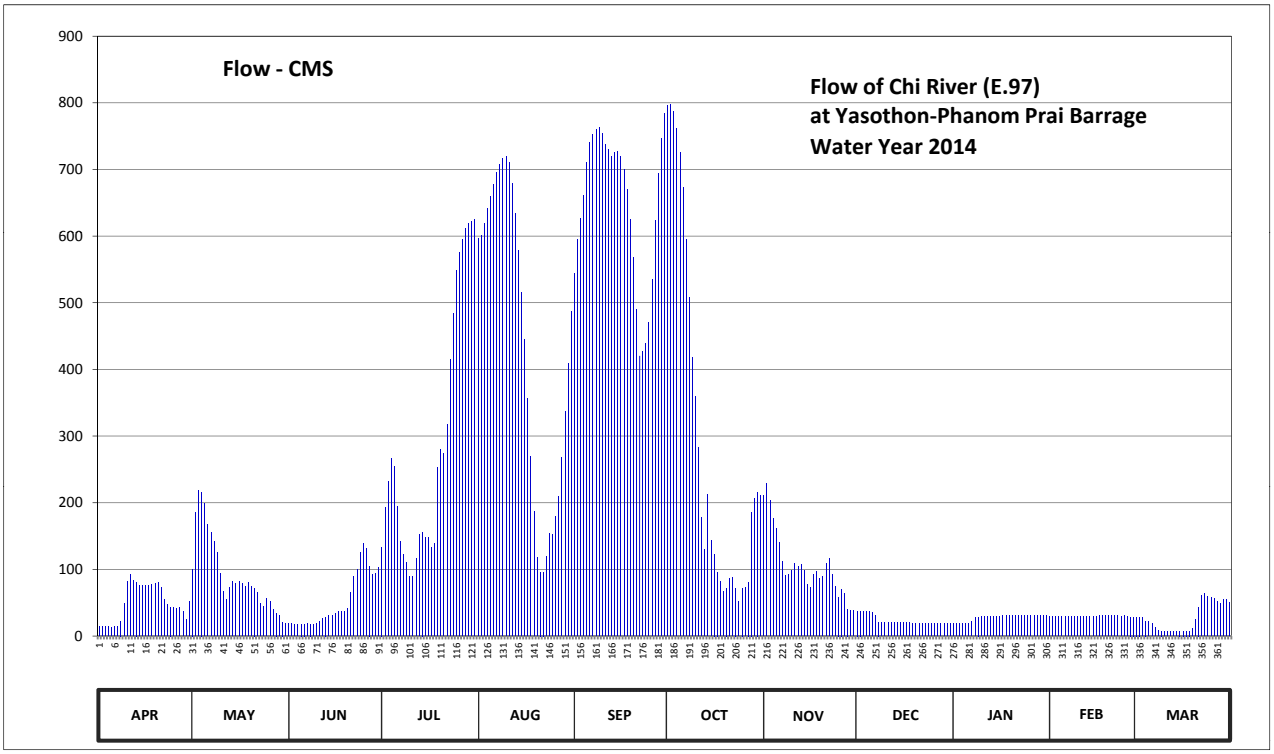
Location : on right bank at Yasothon-Phanon Prai Barrage.

	Ban -	**Amphoe**	Mueang	**Changwat**	Yasothon
Drainge Area	46,766 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+118.000 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On right bank at the automatic gage building.			**Elevation**	+127.055 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	2013 to date				
Rating Operation					
Period of Rating	2013 to date				
Rated by Flot	-				
Rated by Current Meter	2013 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.94	119.25	118.04	119.62	123.51	123.11	124.92	120.41	118.36	118.03	118.23	118.21	
2	117.94	120.15	118.04	120.23	123.54	123.49	124.93	120.58	118.36	118.03	118.23	118.21	
3	117.94	120.49	118.01	120.61	123.67	123.72	124.85	120.33	118.35	118.03	118.23	118.19	
4	117.94	120.46	118.01	120.91	123.82	123.96	124.68	120.07	118.34	118.03	118.23	118.11	
5	117.93	120.29	118.02	120.81	123.95	124.32	124.42	119.91	118.34	118.03	118.23	118.10	
6	117.95	119.97	118.02	120.25	124.08	124.53	124.05	119.69	118.33	118.04	118.23	118.04	
7	117.95	119.85	118.03	119.71	124.21	124.61	123.50	119.38	118.24	118.10	118.23	117.91	
8	118.11	119.71	118.02	119.49	124.30	124.67	122.84	119.14	118.08	118.19	118.23	117.82	
9	118.54	119.52	118.01	119.36	124.36	124.69	122.14	119.16	118.07	118.21	118.23	117.79	
10	119.02	119.17	118.03	119.12	124.38	124.63	121.69	119.22	118.07	118.22	118.23	117.78	
11	119.15	118.79	118.10	119.11	124.32	124.51	121.06	119.35	118.07	118.22	118.23	117.78	
12	119.04	118.63	118.17	119.42	124.09	124.46	120.08	119.29	118.07	118.22	118.23	117.78	
13	119.00	118.89	118.21	119.83	123.77	124.38	119.57	119.33	118.07	118.22	118.23	117.78	
14	118.92	119.01	118.25	119.86	123.37	124.42	120.43	119.23	118.07	118.23	118.23	117.78	
15	118.92	118.97	118.25	119.78	122.90	124.44	119.72	118.95	118.06	118.23	118.23	117.79	
16	118.92	119.02	118.29	119.77	122.35	124.38	119.50	118.88	118.06	118.23	118.23	117.79	
17	118.92	118.97	118.34	119.61	121.66	124.24	119.20	119.16	118.06	118.24	118.24	117.79	
18	118.94	118.91	118.34	119.67	120.94	124.03	119.02	119.21	118.06	118.24	118.24	117.79	
19	118.97	118.99	118.34	120.80	120.17	123.71	118.79	119.08	118.05	118.24	118.24	117.87	
20	118.99	118.90	118.43	121.03	119.44	123.29	118.87	119.12	118.05	118.24	118.24	118.14	
21	118.88	118.87	118.78	120.98	119.20	122.70	119.08	119.35	118.05	118.24	118.24	118.46	
22	118.63	118.77	119.11	121.35	119.20	122.16	119.09	119.42	118.05	118.24	118.25	118.72	
23	118.52	118.53	119.24	122.12	119.46	122.21	118.87	119.15	118.05	118.24	118.25	118.76	
24	118.46	118.48	119.52	122.66	119.84	122.31	118.58	118.90	118.05	118.24	118.23	118.69	
25	118.44	118.64	119.68	123.15	119.82	122.55	118.87	118.68	118.05	118.24	118.24	118.67	
26	118.43	118.58	119.59	123.35	120.09	123.05	118.88	118.85	118.05	118.24	118.22	118.65	
27	118.45	118.40	119.30	123.50	120.39	123.70	119.00	118.76	118.05	118.24	118.21	118.58	
28	118.35	118.31	119.15	123.61	120.93	124.20	120.16	118.41	118.05	118.24	118.21	118.54	
29	118.14	118.24	119.18	123.66	121.51	124.57	120.36	118.38	118.05	118.25		118.63	
30	118.59	118.08	119.28	123.69	122.07	124.83	120.46	118.38	118.05	118.25		118.62	
31		118.04		123.71	122.68		120.41		118.05	118.25		118.57	
Mean	118.53	119.06	118.53	120.99	122.19	123.86	120.90	119.26	118.12	118.19	118.23	118.17	
Max	119.15	120.49	119.68	123.71	124.38	124.83	124.93	120.58	118.36	118.25	118.25	118.76	124.93
Min	117.93	118.04	118.01	119.11	119.20	122.16	118.58	118.38	118.05	118.03	118.21	117.78	117.78

Annual Max Momentary Gage Height	124.95	m. (MSL.) ,	at 01.00 Hours, on Oct 2, 2014		
Zero Gage at Bottom Elevation	118.00	m. (MSL.) ,	River Bed	111.09	m. (MSL.)
Left Bank Elevation	126.50	m. (MSL.) ,			
Right Bank Elevation	126.53	m. (MSL.) ,	Drainage Area	46766	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.00	100.50	19.00	133.80	597.40	543.74	796.48	211.00	37.60	18.50	29.80	28.60		
2	14.00	185.00	19.00	193.00	601.60	594.66	797.92	228.96	37.60	18.50	29.80	28.60		
3	14.00	219.00	17.50	232.32	619.80	626.80	786.40	203.00	37.00	18.50	29.80	27.40		
4	14.00	216.00	17.50	265.92	640.80	660.40	761.92	177.00	36.40	18.50	29.80	22.60		
5	13.50	199.00	18.00	254.72	659.00	710.80	724.80	161.00	36.40	18.50	29.80	22.00		
6	14.50	167.00	18.00	195.00	677.20	740.32	673.00	140.10	35.80	19.00	29.80	19.00		
7	14.50	155.00	18.50	141.90	695.40	751.84	596.00	112.20	30.40	22.00	29.80	12.50		
8	22.60	141.90	18.00	122.10	708.00	760.48	508.20	91.20	21.00	27.40	29.80	8.80		
9	48.80	124.80	17.50	110.40	716.40	763.36	417.92	92.80	20.50	28.60	29.80	7.60		
10	82.40	93.60	18.50	89.60	719.20	754.72	360.32	97.80	20.50	29.20	29.80	7.20		
11	92.00	66.30	22.00	88.80	710.80	737.44	283.20	109.50	20.50	29.20	29.80	7.20		
12	83.80	55.10	26.20	115.80	678.60	730.40	178.00	104.10	20.50	29.20	29.80	7.20		
13	81.00	73.30	28.60	153.00	633.80	719.20	129.30	107.70	20.50	29.20	29.80	7.20		
14	75.40	81.70	31.00	156.00	578.58	724.80	213.00	98.70	20.50	29.80	29.80	7.20		
15	75.40	78.90	31.00	148.20	516.00	727.60	142.80	77.50	20.00	29.80	29.80	7.60		
16	75.40	82.40	33.40	147.30	444.80	719.20	123.00	72.60	20.00	29.80	29.80	7.60		
17	75.40	78.90	36.40	132.90	356.48	699.60	96.00	92.80	20.00	30.40	30.40	7.60		
18	76.80	74.70	36.40	138.30	269.28	670.20	82.40	96.90	20.00	30.40	30.40	7.60		
19	78.90	80.30	36.40	253.60	187.00	625.40	66.30	86.60	19.50	30.40	30.40	10.80		
20	80.30	74.00	41.80	279.60	117.60	567.86	71.90	89.60	19.50	30.40	30.40	24.40		
21	72.60	71.90	65.60	273.76	96.00	490.00	86.60	109.50	19.50	30.40	30.40	43.60		
22	55.10	64.90	88.80	318.00	96.00	420.48	87.30	115.80	19.50	30.40	31.00	61.40		
23	47.40	48.10	99.60	415.36	119.40	426.88	71.90	92.00	19.50	30.40	31.00	64.20		
24	43.60	44.80	124.80	484.80	154.00	439.68	51.60	74.00	19.50	30.40	29.80	59.30		
25	42.40	55.80	139.20	549.10	152.00	470.50	71.90	58.60	19.50	30.40	30.40	57.90		
26	41.80	51.60	131.10	575.90	179.00	535.70	72.60	70.50	19.50	30.40	29.20	56.50		
27	43.00	40.00	105.00	596.00	209.00	624.00	81.00	64.20	19.50	30.40	28.60	51.60		
28	37.00	34.60	92.00	611.40	268.16	694.00	186.00	40.60	19.50	30.40	28.60	48.80		
29	24.40	30.40	94.40	618.40	337.28	746.08	206.00	38.80	19.50	31.00		55.10		
30	52.30	21.00	103.20	622.60	408.96	783.52	216.00	38.80	19.50	31.00		54.40		
31		19.00		625.40	487.40		211.00		19.50	31.00		50.90		
Total	1506.30	2829.50	1548.40	9042.98	13634.94	19459.66	9150.76	3153.86	728.70	853.50	837.40	882.40	63628.40	CMSDAY
Mean	50.21	91.27	51.61	291.71	439.84	648.66	295.19	105.13	23.51	27.53	29.91	28.46	174.32	CMS
Max	92.00	219.00	139.20	625.40	719.20	783.52	797.92	228.96	37.60	31.00	31.00	64.20	797.92	CMS
Min	13.50	19.00	17.50	88.80	96.00	420.48	51.60	38.80	19.50	18.50	28.60	7.20	7.20	CMS
Runoff	130.14	244.47	133.78	781.31	1178.06	1681.32	790.63	272.49	62.96	73.74	72.35	76.24	5497.49	MCM

Momentary Peak 800.80 CMS, at 124.95 m. (MSL.), at 01.00 Hours, on Oct 2, 2014

Runoff Yield 3.73 Liters/Second/Square KM. Momentary Peak Yield 17.124 Liters/Second/Square KM.

WATER YEAR : 2014

CHI RIVER BASIN

Chi River at That Noi Barrage , Ubon Ratchathani (E.98)

Lat 15 - 18 - 40 N Long 104 - 27 - 24 E

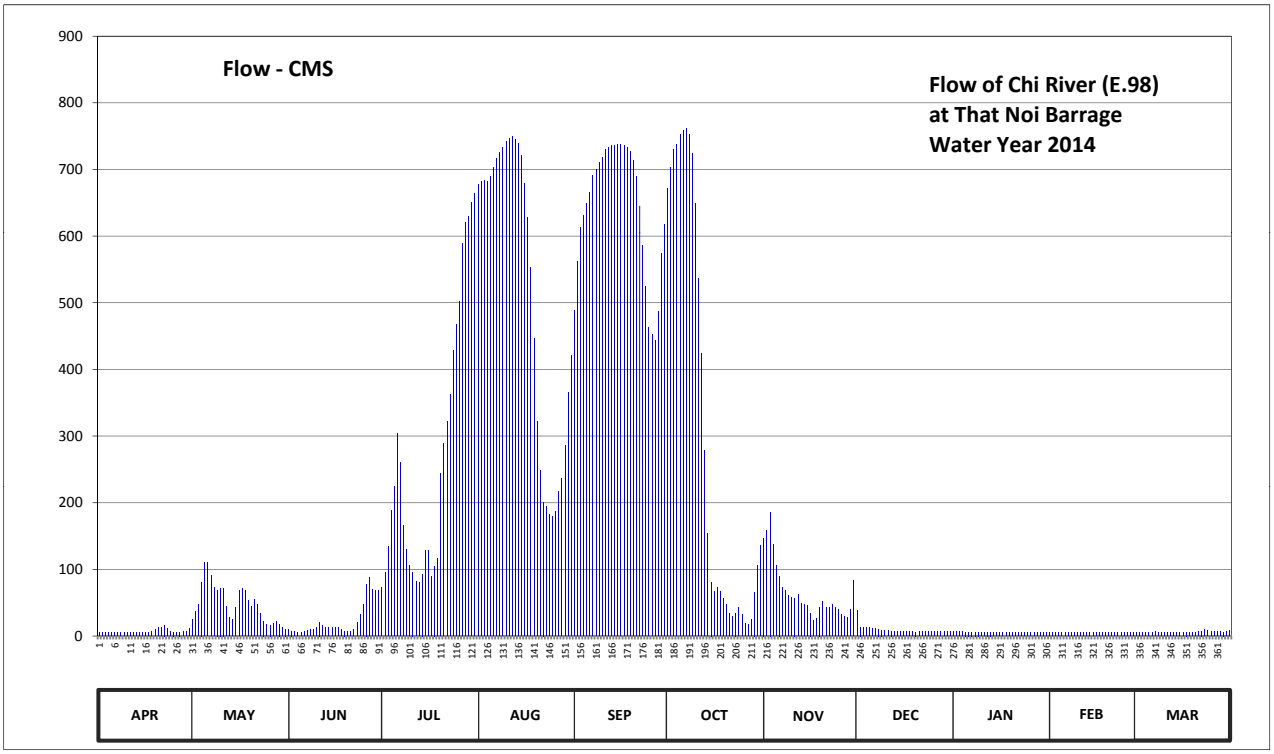
Location : on right bank at That Noi Barrage.

	Ban -	**Amphoe**	Khueang Nai	**Changwat**	Ubon Ratchathani
Drainge Area	48,254 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+109.200 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On right bank at the automatic gage building.			**Elevation**	+118.863 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	2013 to date				
Rating Operation					
Period of Rating	2013 to date				
Rated by Flot	-				
Rated by Current Meter	2013 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.35	111.09	110.67	111.75	115.82	114.44	115.78	112.34	111.33	110.44	110.35	110.35	
2	110.35	111.29	110.56	111.97	115.86	114.98	116.01	112.40	110.82	110.41	110.35	110.35	
3	110.35	111.47	110.45	112.26	115.87	115.35	116.20	112.54	110.81	110.41	110.35	110.35	
4	110.35	111.83	110.33	112.55	115.86	115.48	116.26	112.28	110.80	110.41	110.35	110.35	
5	110.35	112.10	110.32	112.72	115.91	115.61	116.36	112.07	110.78	110.40	110.35	110.35	
6	110.35	112.10	110.46	112.98	116.01	115.74	116.41	111.92	110.76	110.40	110.35	110.37	
7	110.35	111.93	110.63	112.86	116.11	115.92	116.43	111.75	110.76	110.39	110.35	110.41	
8	110.35	111.75	110.67	112.44	116.17	115.99	116.37	111.70	110.72	110.39	110.35	110.37	
9	110.35	111.71	110.66	112.23	116.22	116.06	116.16	111.63	110.65	110.39	110.35	110.35	
10	110.35	111.74	110.80	112.07	116.29	116.12	115.62	111.60	110.64	110.38	110.35	110.35	
11	110.35	111.74	111.02	111.98	116.32	116.20	114.79	111.59	110.63	110.37	110.35	110.35	
12	110.35	111.43	110.90	111.84	116.34	116.23	113.94	111.64	110.57	110.39	110.35	110.35	
13	110.35	111.15	110.81	111.82	116.31	116.25	112.72	111.49	110.48	110.39	110.35	110.35	
14	110.35	111.10	110.78	111.95	116.27	116.25	111.58	111.48	110.45	110.38	110.35	110.35	
15	110.35	111.39	110.79	112.22	116.14	116.26	111.83	111.44	110.44	110.38	110.35	110.35	
16	110.35	111.70	110.77	112.22	115.83	116.26	111.69	111.26	110.44	110.38	110.35	110.37	
17	110.37	111.73	110.77	111.91	115.46	116.25	111.75	111.07	110.42	110.38	110.35	110.39	
18	110.47	111.70	110.70	112.06	114.91	116.22	111.69	111.13	110.42	110.37	110.35	110.38	
19	110.68	111.55	110.57	112.14	114.11	116.18	111.58	111.41	110.42	110.37	110.35	110.35	
20	110.77	111.43	110.51	112.42	113.08	116.08	111.48	111.53	110.40	110.37	110.36	110.37	
21	110.78	111.56	110.54	112.81	112.47	115.91	111.25	111.40	110.44	110.37	110.36	110.43	
22	110.91	111.48	110.66	113.08	112.03	115.59	111.17	111.40	110.53	110.37	110.36	110.56	
23	110.74	111.24	111.01	113.42	111.96	115.16	111.26	111.48	110.53	110.36	110.37	110.68	
24	110.44	111.05	111.23	113.97	111.85	114.70	111.39	111.40	110.53	110.36	110.35	110.63	
25	110.39	110.94	111.48	114.27	111.82	114.24	111.22	111.34	110.53	110.36	110.35	110.55	
26	110.38	110.91	111.80	114.54	111.89	114.16	110.98	111.22	110.53	110.36	110.35	110.45	
27	110.39	110.96	111.90	115.18	112.17	114.09	110.92	111.18	110.53	110.36	110.35	110.44	
28	110.42	111.04	111.72	115.41	112.36	114.42	111.09	111.15	110.53	110.36	110.35	110.44	
29	110.50	110.95	111.70	115.47	112.78	115.07	111.68	111.34	110.53	110.36		110.40	
30	110.75	110.78	111.70	115.63	113.44	115.39	112.07	111.85	110.53	110.36		110.46	
31		110.72		115.72	113.91		112.27		110.53	110.36		110.59	
Mean	110.45	111.41	110.90	113.03	114.57	115.55	113.22	111.60	110.60	110.38	110.35	110.41	
Max	110.91	112.10	111.90	115.72	116.34	116.26	116.43	112.54	111.33	110.44	110.37	110.68	116.43
Min	110.35	110.72	110.32	111.75	111.82	114.09	110.92	111.07	110.40	110.36	110.35	110.35	110.32

Annual Max Momentary Gage Height	116.44	m. (MSL.) ,	at 06.00 Hours, on Oct 7, 2014		
Zero Gage at Bottom Elevation	109.20	m. (MSL.) ,	River Bed	106.50	m. (MSL.)
Left Bank Elevation	119.77	m. (MSL.) ,			
Right Bank Elevation	118.66	m. (MSL.) ,	Drainage Area	48254	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.50	24.50	9.40	73.00	677.16	489.20	671.64	147.20	38.80	6.40	5.50	5.50		
2	5.50	36.40	7.60	95.00	682.68	562.28	703.38	158.00	13.60	6.10	5.50	5.50		
3	5.50	47.20	6.50	134.00	684.06	612.60	729.60	186.00	13.30	6.10	5.50	5.50		
4	5.50	81.00	5.30	188.00	682.68	630.28	737.88	137.00	13.00	6.10	5.50	5.50		
5	5.50	110.00	5.20	225.00	689.58	648.18	751.68	106.40	12.40	6.00	5.50	5.50		
6	5.50	110.00	6.60	304.00	703.38	666.12	758.58	90.00	11.80	6.00	5.50	5.70		
7	5.50	91.00	8.60	261.20	717.18	690.96	761.34	73.00	11.80	5.90	5.50	6.10		
8	5.50	73.00	9.40	166.00	725.46	700.62	753.06	68.00	10.60	5.90	5.50	5.70		
9	5.50	69.00	9.20	129.50	732.36	710.28	724.08	61.00	9.00	5.90	5.50	5.50		
10	5.50	72.00	13.00	106.40	742.02	718.56	649.56	58.00	8.80	5.80	5.50	5.50		
11	5.50	72.00	21.00	96.00	746.16	729.60	536.44	57.10	8.60	5.70	5.50	5.50		
12	5.50	44.80	16.00	82.00	748.92	733.74	424.80	62.00	7.70	5.90	5.50	5.50		
13	5.50	28.00	13.30	80.00	744.78	736.50	278.40	48.40	6.80	5.90	5.50	5.50		
14	5.50	25.00	12.40	93.00	739.26	736.50	154.32	47.80	6.50	5.80	5.50	5.50		
15	5.50	42.40	12.70	128.00	721.32	737.88	81.00	45.40	6.40	5.80	5.50	5.50		
16	5.50	68.00	12.10	128.00	678.54	737.88	67.00	34.60	6.40	5.80	5.50	5.70		
17	5.70	71.00	12.10	89.00	627.56	736.50	73.00	23.50	6.20	5.80	5.50	5.90		
18	6.70	68.00	10.00	105.20	552.76	732.36	67.00	26.80	6.20	5.70	5.50	5.80		
19	9.60	53.50	7.70	116.00	446.30	726.84	56.20	43.60	6.20	5.70	5.50	5.50		
20	12.10	44.80	7.10	243.36	321.60	713.04	47.80	51.70	6.00	5.70	5.60	5.70		
21	12.40	54.40	7.40	289.20	248.76	689.58	34.00	43.00	6.40	5.70	5.60	6.30		
22	16.40	47.80	9.20	321.60	201.24	645.42	29.20	43.00	7.30	5.70	5.60	7.60		
23	11.20	33.40	20.50	362.40	193.84	586.76	34.60	47.80	7.30	5.60	5.70	9.60		
24	6.40	22.50	32.80	428.40	182.40	524.20	42.40	43.00	7.30	5.60	5.50	8.60		
25	5.90	17.60	47.80	467.10	179.28	463.20	32.20	39.40	7.30	5.60	5.50	7.50		
26	5.80	16.40	78.00	502.44	186.56	452.80	19.20	32.20	7.30	5.60	5.50	6.50		
27	5.90	18.40	88.00	589.48	216.36	443.70	16.80	29.80	7.30	5.60	5.50	6.40		
28	6.20	22.00	70.00	620.76	236.88	486.60	24.50	28.00	7.30	5.60	5.50	6.40		
29	7.00	18.00	68.00	628.92	285.60	574.52	66.00	39.40	7.30	5.60		6.00		
30	11.50	12.40	68.00	650.94	364.80	618.04	106.40	83.00	7.30	5.60		6.60		
31		10.60		663.36	421.20		135.50		7.30	5.60		7.90		
Total	210.80	1505.10	694.90	8367.26	16080.68	19234.74	9567.56	1954.10	289.50	179.80	154.50	191.50	58430.45	CMSDAY
Mean	7.03	48.55	23.16	269.91	518.73	641.16	308.63	65.14	9.34	5.80	5.52	6.18	160.08	CMS
Max	16.40	110.00	88.00	663.36	748.92	737.88	761.34	186.00	38.80	6.40	5.70	9.60	761.34	CMS
Min	5.50	10.60	5.20	73.00	179.28	443.70	16.80	23.50	6.00	5.60	5.50	5.50	5.20	CMS
Runoff	18.21	130.04	60.04	722.93	1389.37	1661.88	826.64	168.83	25.01	15.54	13.35	16.55	5048.39	MCM

Momentary Peak 762.72 CMS, at 116.44 m. (MSL.), at 06.00 Hours, on Oct 7, 2014

Runoff Yield 3.32 Liters/Second/Square KM. Momentary Peak Yield 15.806 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

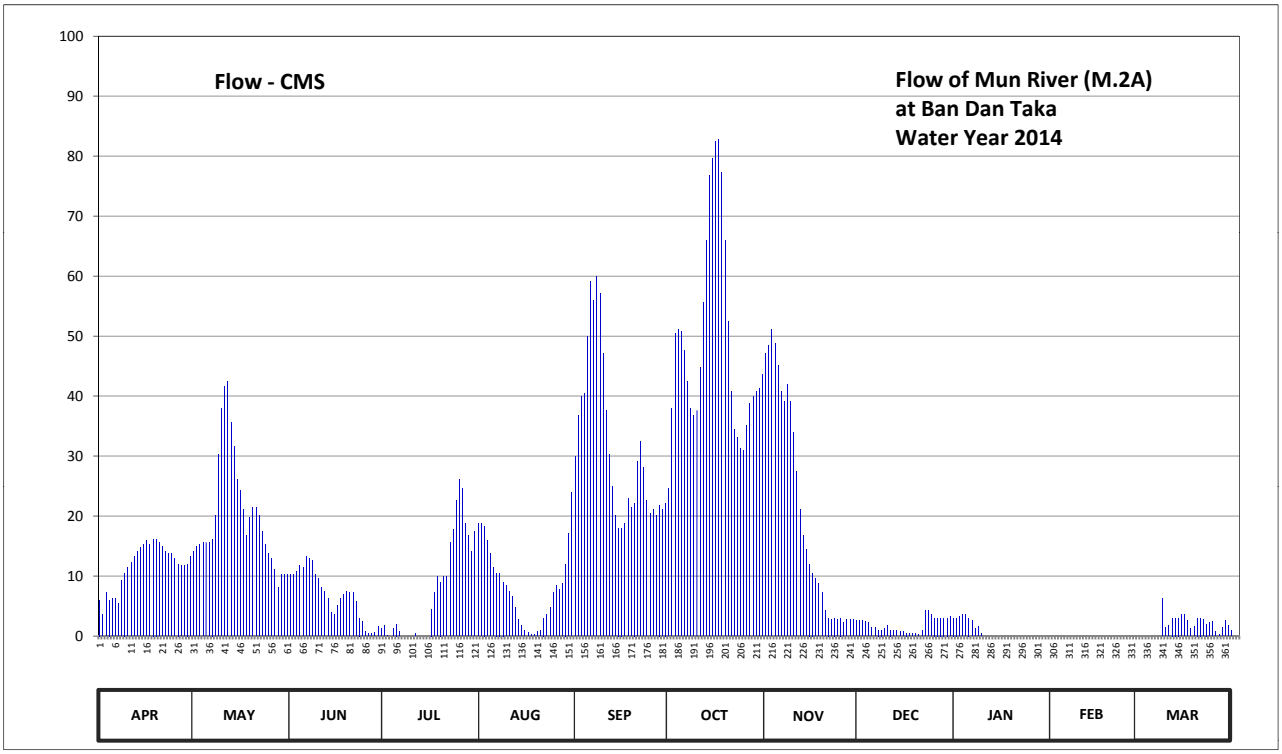
Location : on left bank at Ban Dan Taka.

	Ban Dan Taka	**Amphoe** Chaloem Phra Kiat	**Changwat** Nakhon Ratchasima
Drainge Area	4,724 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+161.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath.		**Elevation** +169.284 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.10	163.37	163.24	162.94	163.52	164.02	164.05	164.31	162.98	163.01	161.35	161.33	
2	163.02	163.40	163.24	162.81	163.51	164.10	164.36	164.38	162.97	163.02	161.35	161.33	
3	163.14	163.41	163.26	162.78	163.43	164.11	164.38	164.32	162.96	163.02	161.35	161.33	
4	163.10	163.42	163.29	162.91	163.36	164.35	164.37	164.23	162.92	163.00	161.35	161.32	
5	163.11	163.42	163.28	162.95	163.28	164.58	164.29	164.12	162.92	162.98	161.35	161.52	
6	163.11	163.42	163.34	162.88	163.25	164.50	164.16	164.08	162.90	162.91	161.37	162.32	
7	163.08	163.44	163.33	162.72	163.25	164.60	164.05	164.15	162.90	162.93	161.37	163.11	
8	163.21	163.56	163.32	162.66	163.20	164.53	164.02	164.08	162.91	162.84	161.37	162.92	
9	163.25	163.85	163.24	162.70	163.18	164.28	164.04	163.95	162.94	162.62	161.37	162.94	
10	163.28	164.05	163.22	162.76	163.15	164.04	164.22	163.77	162.90	162.57	161.36	163.00	
11	163.31	164.14	163.17	162.84	163.12	163.85	164.49	163.59	162.89	162.59	161.36	163.00	
12	163.34	164.16	163.15	162.73	163.06	163.70	164.75	163.46	162.89	162.79	161.36	163.00	
13	163.37	163.99	163.11	162.58	162.99	163.56	165.02	163.38	162.88	162.79	161.35	163.02	
14	163.39	163.89	163.03	162.54	162.94	163.50	165.09	163.30	162.87	162.78	161.35	163.02	
15	163.41	163.73	163.02	162.70	162.89	163.50	165.16	163.25	162.85	162.68	161.33	162.98	
16	163.43	163.68	163.07	163.05	162.86	163.52	165.17	163.22	162.84	162.60	161.33	162.91	
17	163.41	163.59	163.11	163.14	162.82	163.64	165.03	163.19	162.84	162.56	161.32	162.93	
18	163.44	163.46	163.13	163.23	162.82	163.60	164.75	163.14	162.84	162.49	161.32	163.00	
19	163.44	163.55	163.15	163.20	162.88	163.62	164.41	163.04	162.83	162.44	161.32	163.00	
20	163.42	163.60	163.14	163.23	162.89	163.82	164.12	163.00	162.89	162.36	161.30	162.99	
21	163.40	163.60	163.14	163.23	163.00	163.91	163.96	162.99	163.04	162.29	161.30	162.95	
22	163.37	163.56	163.09	163.42	163.02	163.79	163.93	163.00	163.04	162.17	161.30	162.96	
23	163.36	163.48	163.00	163.49	163.06	163.63	163.88	162.99	163.02	162.08	161.30	162.97	
24	163.36	163.41	162.97	163.63	163.14	163.57	163.87	163.00	163.00	162.00	161.33	162.88	
25	163.33	163.36	162.88	163.73	163.18	163.59	163.98	162.96	163.00	161.94	161.43	162.82	
26	163.30	163.33	162.84	163.69	163.16	163.56	164.07	162.99	163.00	161.76	161.40	162.92	
27	163.29	163.27	162.84	163.52	163.19	163.61	164.10	162.99	163.00	161.63	161.37	162.98	
28	163.29	163.17	162.86	163.46	163.30	163.59	164.12	162.99	163.00	161.58	161.37	162.94	
29	163.30	163.24	162.93	163.37	163.47	163.62	164.13	162.98	163.01	161.51		162.89	
30	163.34	163.24	162.91	163.48	163.67	163.69	164.19	162.98	163.00	161.48		162.70	
31		163.24		163.52	163.84		164.28		163.00	161.40		162.61	
Mean	163.29	163.55	163.11	163.09	163.18	163.87	164.34	163.46	162.94	162.41	161.35	162.66	
Max	163.44	164.16	163.34	163.73	163.84	164.60	165.17	164.38	163.04	163.02	161.43	163.11	165.17
Min	163.02	163.17	162.84	162.54	162.82	163.50	163.87	162.96	162.83	161.40	161.30	161.32	161.30

Annual Max Momentary Gage Height	165.20	m. (MSL.) ,	at 06.00 Hours , on Oct 16 , 2014		
Zero Gage at Bottom Elevation	161.00	m. (MSL.) ,	River Bed	158.93	m. (MSL.)
Left Bank Elevation	169.01	m. (MSL.) ,			
Right Bank Elevation	169.03	m. (MSL.) ,	Drainage Area	4724	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.00	14.10	10.20	1.80	18.70	36.80	38.00	48.40	2.60	3.30	0.00	0.00		
2	3.60	15.00	10.20	0.10	18.35	40.00	50.40	51.20	2.40	3.60	0.00	0.00		
3	7.20	15.30	10.80	0.00	15.90	40.40	51.20	48.80	2.20	3.60	0.00	0.00		
4	6.00	15.60	11.70	1.20	13.80	50.00	50.80	45.20	1.40	3.00	0.00	0.00		
5	6.30	15.60	11.40	2.00	11.40	59.20	47.60	40.80	1.40	2.60	0.00	0.00		
6	6.30	15.60	13.20	0.80	10.50	56.00	42.40	39.20	1.00	1.20	0.00	0.00		
7	5.40	16.20	12.90	0.00	10.50	60.00	38.00	42.00	1.00	1.60	0.00	6.30		
8	9.30	20.10	12.60	0.00	9.00	57.20	36.80	39.20	1.20	0.40	0.00	1.40		
9	10.50	30.25	10.20	0.00	8.40	47.20	37.60	34.00	1.80	0.00	0.00	1.80		
10	11.40	38.00	9.60	0.00	7.50	37.60	44.80	27.45	1.00	0.00	0.00	3.00		
11	12.30	41.60	8.10	0.40	6.60	30.25	55.60	21.15	0.90	0.00	0.00	3.00		
12	13.20	42.40	7.50	0.00	4.80	25.00	66.00	16.80	0.90	0.00	0.00	3.00		
13	14.10	35.60	6.30	0.00	2.80	20.10	76.80	14.40	0.80	0.00	0.00	3.60		
14	14.70	31.65	3.90	0.00	1.80	18.00	79.60	12.00	0.70	0.00	0.00	3.60		
15	15.30	26.05	3.60	0.00	0.90	18.00	82.40	10.50	0.50	0.00	0.00	2.60		
16	15.90	24.30	5.10	4.50	0.60	18.70	82.80	9.60	0.40	0.00	0.00	1.20		
17	15.30	21.15	6.30	7.20	0.20	22.90	77.20	8.70	0.40	0.00	0.00	1.60		
18	16.20	16.80	6.90	9.90	0.20	21.50	66.00	7.20	0.40	0.00	0.00	3.00		
19	16.20	19.75	7.50	9.00	0.80	22.20	52.40	4.20	0.30	0.00	0.00	3.00		
20	15.60	21.50	7.20	9.90	0.90	29.20	40.80	3.00	0.90	0.00	0.00	2.80		
21	15.00	21.50	7.20	9.90	3.00	32.40	34.40	2.80	4.20	0.00	0.00	2.00		
22	14.10	20.10	5.70	15.60	3.60	28.15	33.20	3.00	4.20	0.00	0.00	2.20		
23	13.80	17.40	3.00	17.70	4.80	22.55	31.30	2.80	3.60	0.00	0.00	2.40		
24	13.80	15.30	2.40	22.55	7.20	20.45	30.95	3.00	3.00	0.00	0.00	0.80		
25	12.90	13.80	0.80	26.05	8.40	21.15	35.20	2.20	3.00	0.00	0.00	0.20		
26	12.00	12.90	0.40	24.65	7.80	20.10	38.80	2.80	3.00	0.00	0.00	1.40		
27	11.70	11.10	0.40	18.70	8.70	21.85	40.00	2.80	3.00	0.00	0.00	2.60		
28	11.70	8.10	0.60	16.80	12.00	21.15	40.80	2.80	3.00	0.00	0.00	1.80		
29	12.00	10.20	1.60	14.10	17.10	22.20	41.20	2.60	3.30	0.00		0.90		
30	13.20	10.20	1.20	17.40	23.95	24.65	43.60	2.60	3.00	0.00		0.00		
31		10.20		18.70	29.90		47.20		3.00	0.00		0.00		
Total	351.00	627.35	198.50	248.95	270.10	944.90	1533.85	551.20	58.50	19.30	0.00	54.20	4857.85	CMSDAY
Mean	11.70	20.24	6.62	8.03	8.71	31.50	49.48	18.37	1.89	0.62	0.00	1.75	13.31	CMS
Max	16.20	42.40	13.20	26.05	29.90	60.00	82.80	51.20	4.20	3.60	0.00	6.30	82.80	CMS
Min	3.60	8.10	0.40	0.00	0.20	18.00	30.95	2.20	0.30	0.00	0.00	0.00	0.00	CMS
Runoff	30.33	54.20	17.15	21.51	23.34	81.64	132.53	47.62	5.05	1.67	0.00	4.68	419.72	MCM

Momentary Peak 84.00 CMS. at 165.20 m. (MSL.) at 06.00 Hours , on Oct 16 , 2014

Runoff Yield 2.82 Liters/Second/Square KM. Momentary Peak Yield 17.782 Liters/Second/Square KM.

WATER YEAR : 2014

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	Water - stage recorder		
Zero Gage at Bottom	+117.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		**Elevation** +128.995 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1996-1997, 2005 to date		
Rating Operation			
Period of Rating	1996-1997, 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1996-1997, 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 38 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

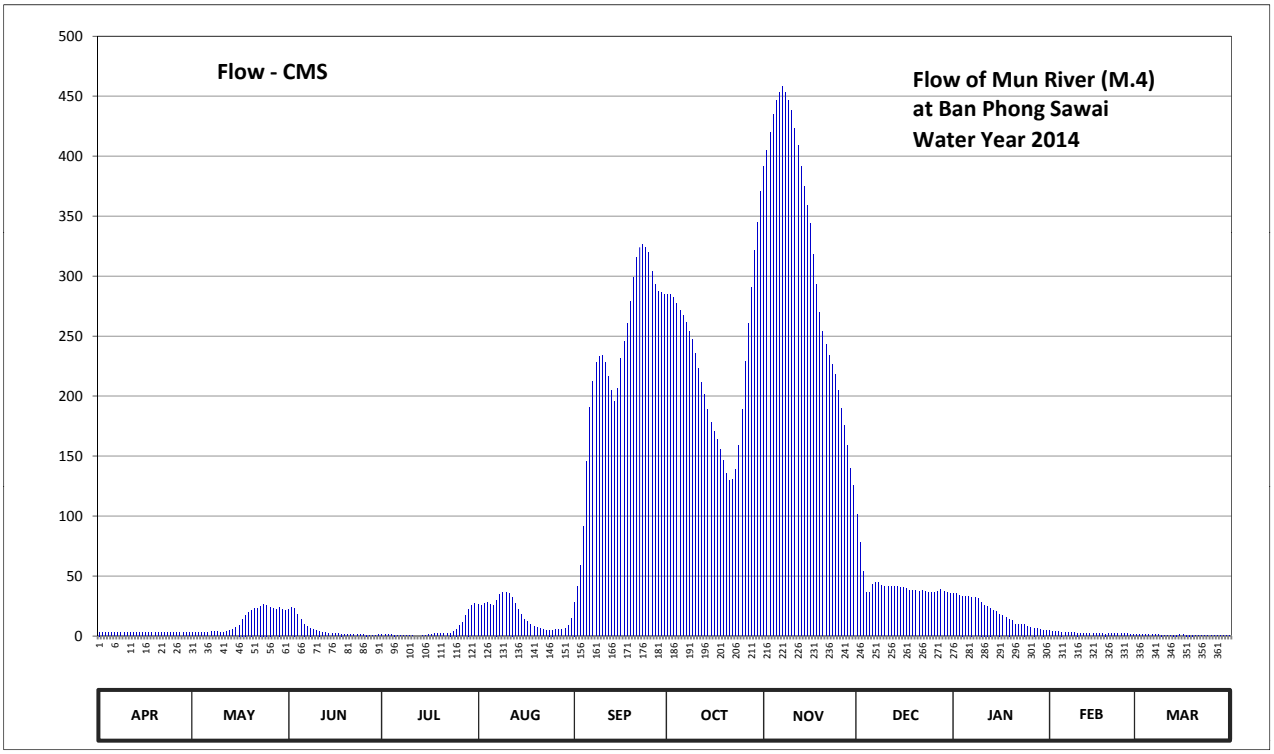
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.33	117.29	118.07	117.16	118.17	118.22	121.47	122.22	119.62	118.40	117.44	117.15	
2	117.32	117.30	118.11	117.15	118.15	118.53	121.47	122.31	119.27	118.39	117.41	117.15	
3	117.32	117.30	118.10	117.13	118.20	118.89	121.45	122.41	118.79	118.36	117.39	117.15	
4	117.31	117.31	117.97	117.12	118.21	119.48	121.41	122.50	118.42	118.34	117.36	117.14	
5	117.31	117.31	117.86	117.09	118.17	120.17	121.36	122.57	118.42	118.33	117.33	117.13	
6	117.30	117.31	117.75	117.08	118.15	120.64	121.33	122.61	118.57	118.33	117.31	117.12	
7	117.30	117.35	117.66	117.06	118.26	120.84	121.28	122.64	118.61	118.32	117.30	117.11	
8	117.29	117.35	117.58	117.03	118.37	120.98	121.22	122.61	118.61	118.31	117.29	117.10	
9	117.29	117.34	117.53	117.01	118.41	121.03	121.16	122.57	118.55	118.29	117.27	117.09	
10	117.28	117.32	117.48	117.02	118.42	121.04	121.05	122.52	118.53	118.22	117.25	117.08	
11	117.27	117.31	117.42	117.01	118.40	120.98	120.94	122.43	118.53	118.16	117.23	117.07	
12	117.27	117.34	117.32	117.00	118.32	120.88	120.83	122.34	118.54	118.14	117.22	117.06	
13	117.26	117.45	117.26	117.00	118.19	120.77	120.74	122.22	118.54	118.10	117.22	117.09	
14	117.26	117.53	117.23	117.02	118.07	120.69	120.62	122.11	118.53	118.05	117.21	117.09	
15	117.28	117.60	117.21	117.07	117.97	120.79	120.51	122.00	118.52	118.02	117.21	117.10	
16	117.28	117.71	117.22	117.11	117.87	121.01	120.44	121.89	118.52	117.98	117.20	117.10	
17	117.28	117.88	117.21	117.14	117.82	121.14	120.37	121.71	118.49	117.94	117.19	117.09	
18	117.27	117.96	117.17	117.19	117.74	121.27	120.28	121.53	118.46	117.91	117.18	117.09	
19	117.27	118.01	117.14	117.22	117.66	121.42	120.18	121.35	118.45	117.88	117.17	117.09	
20	117.27	118.06	117.14	117.22	117.59	121.57	120.06	121.22	118.45	117.85	117.19	117.08	
21	117.27	118.09	117.12	117.22	117.55	121.69	120.00	121.12	118.44	117.74	117.18	117.06	
22	117.27	118.09	117.12	117.22	117.51	121.75	120.01	121.04	118.46	117.73	117.18	117.08	
23	117.28	118.14	117.10	117.25	117.49	121.77	120.10	120.97	118.43	117.72	117.18	117.08	
24	117.28	118.18	117.10	117.35	117.50	121.75	120.32	120.89	118.41	117.75	117.18	117.08	
25	117.28	118.16	117.12	117.54	117.50	121.72	120.62	120.77	118.42	117.66	117.18	117.07	
26	117.28	118.12	117.09	117.68	117.51	121.61	120.99	120.63	118.42	117.62	117.18	117.07	
27	117.27	118.09	117.07	117.80	117.51	121.53	121.27	120.49	118.44	117.58	117.16	117.06	
28	117.27	118.07	117.05	117.95	117.52	121.49	121.51	120.32	118.47	117.55	117.16	117.05	
29	117.27	118.12	117.03	118.08	117.56	121.48	121.73	120.11	118.44	117.52		117.05	
30	117.28	118.07	117.15	118.15	117.69	121.47	121.90	119.94	118.41	117.50		117.07	
31		118.05		118.20	117.89		122.08		118.40	117.49		117.08	
Mean	117.28	117.72	117.38	117.30	117.92	120.89	120.93	121.67	118.55	117.97	117.24	117.09	
Max	117.33	118.18	118.11	118.20	118.42	121.77	122.08	122.64	119.62	118.40	117.44	117.15	122.64
Min	117.26	117.29	117.03	117.00	117.49	118.22	120.00	119.94	118.40	117.49	117.16	117.05	117.00

Annual Max Momentary Gage Height 122.64 m. (MSL.) , at 01.00 Hours , on Nov 7 , 2014

Zero Gage at Bottom Elevation 117.00 m. (MSL.) , River Bed 116.05 m. (MSL.)

Left Bank Elevation 128.76 m. (MSL.) ,

Right Bank Elevation 129.25 m. (MSL.) , Drainage Area 34654 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.30	2.90	22.14	1.60	26.26	28.33	285.10	391.04	101.40	35.75	4.40	1.50		
2	3.20	3.00	23.79	1.50	25.44	41.11	285.10	404.57	78.20	35.34	4.10	1.50		
3	3.20	3.00	23.37	1.30	27.50	58.50	282.50	419.75	53.50	34.10	3.90	1.50		
4	3.10	3.10	18.01	1.20	27.91	91.60	277.30	434.57	36.57	33.27	3.60	1.40		
5	3.10	3.10	13.47	0.90	26.26	145.30	271.20	446.11	36.57	32.86	3.30	1.30		
6	3.00	3.10	10.00	0.80	25.44	191.00	267.60	452.70	42.76	32.86	3.10	1.20		
7	3.00	3.50	8.20	0.60	29.98	212.40	261.60	457.64	44.50	32.45	3.00	1.10		
8	2.90	3.50	6.60	0.30	34.51	227.80	254.40	452.70	44.50	32.04	2.90	1.00		
9	2.90	3.40	5.60	0.10	36.16	233.30	247.60	446.11	41.94	31.21	2.70	0.90		
10	2.80	3.20	4.80	0.20	36.57	234.40	235.50	437.87	41.11	28.33	2.50	0.80		
11	2.70	3.10	4.20	0.10	35.75	227.80	223.40	423.04	41.11	25.85	2.30	0.70		
12	2.70	3.40	3.20	0.00	32.45	216.80	211.30	409.08	41.53	25.02	2.20	0.60		
13	2.60	4.50	2.60	0.00	27.09	204.70	201.40	391.04	41.53	23.37	2.20	0.90		
14	2.60	5.60	2.30	0.20	22.14	196.00	189.00	374.50	41.11	21.31	2.10	0.90		
15	2.80	7.00	2.10	0.70	18.01	206.90	178.00	359.00	40.70	20.07	2.10	1.00		
16	2.80	9.20	2.20	1.10	13.89	231.10	171.00	343.60	40.70	18.43	2.00	1.00		
17	2.80	14.30	2.10	1.40	11.82	245.40	164.00	318.40	39.46	16.78	1.90	0.90		
18	2.70	17.60	1.70	1.90	9.80	260.40	155.20	293.20	38.22	15.54	1.80	0.90		
19	2.70	19.66	1.40	2.20	8.20	278.60	146.20	270.00	37.81	14.30	1.70	0.90		
20	2.70	21.72	1.40	2.20	6.80	298.80	135.40	254.40	37.81	13.06	1.90	0.80		
21	2.70	22.96	1.20	2.20	6.00	315.60	130.00	243.20	37.40	9.80	1.80	0.60		
22	2.70	22.96	1.20	2.20	5.20	324.00	130.90	234.40	38.22	9.60	1.80	0.80		
23	2.80	25.02	1.00	2.50	4.90	326.80	139.00	226.70	36.99	9.40	1.80	0.80		
24	2.80	26.67	1.00	3.50	5.00	324.00	159.00	217.90	36.16	10.00	1.80	0.80		
25	2.80	25.85	1.20	5.80	5.00	319.80	189.00	204.70	36.57	8.20	1.80	0.70		
26	2.80	24.20	0.90	8.60	5.20	304.40	228.90	190.00	36.57	7.40	1.80	0.70		
27	2.70	22.96	0.70	11.00	5.20	293.20	260.40	176.00	37.40	6.60	1.60	0.60		
28	2.70	22.14	0.50	17.19	5.40	287.70	290.40	159.00	38.64	6.00	1.60	0.50		
29	2.70	24.20	0.30	22.55	6.20	286.40	321.20	139.90	37.40	5.40		0.50		
30	2.80	22.14	1.50	25.44	8.80	285.10	345.00	125.20	36.16	5.00		0.70		
31		21.31		27.50	14.71		370.20		35.75	4.90		0.80		
Total	85.10	398.29	168.68	146.78	553.59	6897.24	7006.80	9696.32	1328.29	604.24	67.70	28.30	26981.34	CMSDAY
Mean	2.84	12.85	5.62	4.73	17.86	229.91	226.03	323.21	42.85	19.49	2.42	0.91	73.92	CMS
Max	3.30	26.67	23.79	27.50	36.57	326.80	370.20	457.64	101.40	35.75	4.40	1.50	457.64	CMS
Min	2.60	2.90	0.30	0.00	4.90	28.33	130.00	125.20	35.75	4.90	1.60	0.50	0.00	CMS
Runoff	7.35	34.41	14.57	12.68	47.83	595.92	605.39	837.76	114.76	52.21	5.85	2.45	2331.19	MCM

Momentary Peak 457.64 CMS. at 122.64 m. (MSL.) at 01.00 Hours , on Nov 7 , 2014

Runoff Yield 2.13 Liters/Second/Square KM. Momentary Peak Yield 13.206 Liters/Second/Square KM.

WATER YEAR : 2014

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	1995 to date
Rating Operation	
Period of Rating	1972 to date
Rated by Flot	-
Rated by Current Meter	1972 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site. Stage-discharge relation defined by 43 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

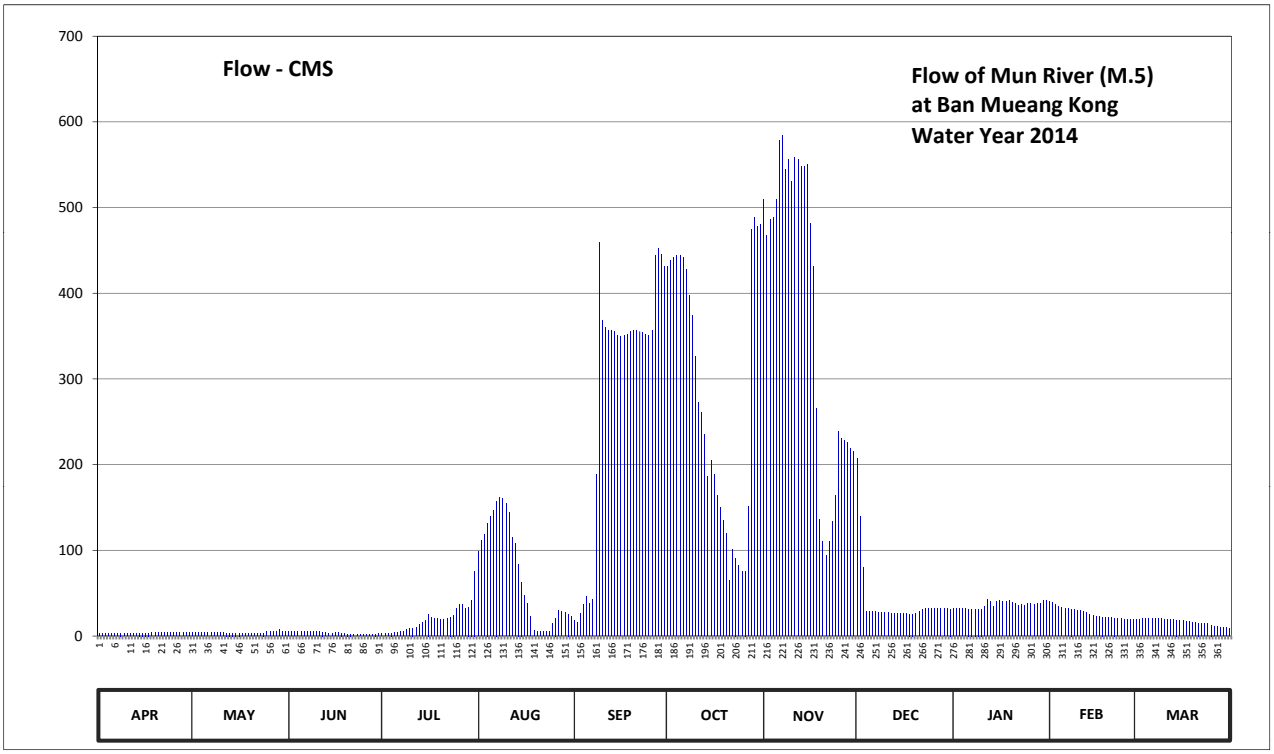
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.36	110.56	110.92	110.44	112.69	111.40	114.86	115.25	113.48	111.84	112.01	111.45	
2	110.38	110.56	110.90	110.43	112.81	111.34	114.89	115.04	113.03	111.85	111.98	111.46	
3	110.43	110.56	110.87	110.45	112.89	111.67	114.91	115.13	112.50	111.84	111.94	111.48	
4	110.43	110.56	110.85	110.50	112.98	111.93	114.92	115.14	111.76	111.84	111.89	111.49	
5	110.45	110.55	110.83	110.56	113.03	112.12	114.92	115.25	111.75	111.84	111.87	111.48	
6	110.47	110.55	110.82	110.61	113.08	111.97	114.91	115.59	111.74	111.83	111.85	111.48	
7	110.48	110.54	110.83	110.77	113.15	112.06	114.84	115.62	111.74	111.83	111.84	111.47	
8	110.49	110.54	110.84	110.88	113.18	113.36	114.69	115.42	111.72	111.83	111.83	111.47	
9	110.48	110.53	110.81	111.04	113.17	115.00	114.57	115.48	111.71	111.83	111.81	111.47	
10	110.47	110.53	110.82	111.10	113.13	114.54	114.28	115.35	111.70	111.83	111.80	111.46	
11	110.48	110.52	110.91	111.11	113.06	114.50	113.92	115.49	111.70	111.89	111.78	111.45	
12	110.48	110.51	110.73	111.13	112.85	114.48	113.84	115.48	111.69	112.06	111.75	111.44	
13	110.48	110.50	110.54	111.25	112.78	114.48	113.67	115.44	111.69	112.00	111.71	111.43	
14	110.49	110.50	110.44	111.34	112.54	114.47	113.34	115.44	111.68	111.89	111.65	111.42	
15	110.49	110.49	110.46	111.39	112.33	114.44	113.47	115.45	111.68	112.00	111.58	111.41	
16	110.50	110.49	110.55	111.66	112.14	114.43	113.36	115.11	111.67	112.03	111.57	111.39	
17	110.51	110.48	110.61	111.53	111.95	114.44	113.19	114.86	111.67	112.01	111.56	111.37	
18	110.52	110.47	110.51	111.47	111.55	114.45	113.10	113.87	111.66	112.00	111.54	111.36	
19	110.53	110.47	110.30	111.47	111.03	114.47	113.00	113.01	111.66	112.02	111.53	111.34	
20	110.54	110.46	110.27	111.46	110.96	114.48	112.90	112.80	111.68	111.99	111.52	111.32	
21	110.55	110.45	110.26	111.45	110.89	114.48	112.35	112.64	111.76	111.95	111.51	111.31	
22	110.54	110.44	110.25	111.48	110.84	114.47	112.71	112.80	111.81	111.91	111.50	111.30	
23	110.56	110.43	110.24	111.54	110.75	114.46	112.61	112.99	111.84	111.93	111.48	111.29	
24	110.56	110.51	110.22	111.62	110.93	114.45	112.52	113.19	111.85	111.91	111.47	111.27	
25	110.56	110.80	110.21	111.84	111.29	114.44	112.45	113.69	111.85	111.95	111.46	111.23	
26	110.57	110.85	110.21	111.94	111.50	114.48	112.46	113.64	111.84	111.95	111.46	111.18	
27	110.57	110.87	110.20	111.94	111.80	114.92	113.11	113.62	111.85	111.94	111.46	111.16	
28	110.57	110.91	110.20	111.85	111.75	114.96	115.07	113.61	111.85	111.95	111.45	111.15	
29	110.57	111.04	110.26	111.88	111.70	114.93	115.14	113.56	111.84	111.97		111.14	
30	110.57	110.96	110.46	112.04	111.66	114.86	115.09	113.54	111.84	112.02		111.13	
31		110.92		112.46	111.57		115.10		111.83	112.03		111.10	
Mean	110.50	110.60	110.54	111.31	112.13	113.88	113.88	114.45	111.87	111.93	111.67	111.35	
Max	110.57	111.04	110.92	112.46	113.18	115.00	115.14	115.62	113.48	112.06	112.01	111.49	115.62
Min	110.36	110.43	110.20	110.43	110.75	111.34	112.35	112.64	111.66	111.83	111.45	111.10	110.20

Annual Max Momentary Gage Height 115.69 m. (MSL.) , at 06.00 Hours , on Nov 7 , 2014

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

Left Bank Elevation 124.55 m. (MSL.) ,

Right Bank Elevation 122.57 m. (MSL.) , Drainage Area 45295 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.80	3.80	5.60	3.20	99.00	18.00	432.00	510.00	207.00	32.00	40.50	19.50		
2	2.90	3.80	5.50	3.15	111.00	16.20	438.00	468.00	139.50	32.50	39.00	19.80		
3	3.15	3.80	5.35	3.25	119.00	26.10	442.00	486.00	80.00	32.00	37.00	20.40		
4	3.15	3.80	5.25	3.50	132.00	36.50	444.00	488.00	28.80	32.00	34.50	20.70		
5	3.25	3.75	5.15	3.80	139.50	46.00	444.00	510.00	28.50	32.00	33.50	20.40		
6	3.35	3.75	5.10	4.05	147.00	38.50	442.00	578.00	28.20	31.50	32.50	20.40		
7	3.40	3.70	5.15	4.85	157.50	43.00	428.00	584.00	28.20	31.50	32.00	20.10		
8	3.45	3.70	5.20	5.40	162.00	189.00	398.00	544.00	27.60	31.50	31.50	20.10		
9	3.40	3.65	5.05	7.20	160.50	460.00	374.00	556.00	27.30	31.50	30.50	20.10		
10	3.35	3.65	5.10	9.00	154.50	368.00	327.00	530.00	27.00	31.50	30.00	19.80		
11	3.40	3.60	5.55	9.30	144.00	360.00	273.00	558.00	27.00	34.50	29.40	19.50		
12	3.40	3.55	4.65	9.90	115.00	357.00	261.00	556.00	26.70	43.00	28.50	19.20		
13	3.40	3.50	3.70	13.50	108.00	357.00	235.50	548.00	26.70	40.00	27.30	18.90		
14	3.45	3.50	3.20	16.20	84.00	355.50	186.00	548.00	26.40	34.50	25.50	18.60		
15	3.45	3.45	3.30	17.70	63.00	351.00	205.50	550.00	26.40	40.00	23.40	18.30		
16	3.50	3.45	3.75	25.80	47.00	349.50	189.00	482.00	26.10	41.50	23.10	17.70		
17	3.55	3.40	4.05	21.90	37.50	351.00	163.50	432.00	26.10	40.50	22.80	17.10		
18	3.60	3.35	3.55	20.10	22.50	352.50	150.00	265.50	25.80	40.00	22.20	16.80		
19	3.65	3.35	2.50	20.10	6.90	355.50	135.00	136.50	25.80	41.00	21.90	16.20		
20	3.70	3.30	2.35	19.80	5.80	357.00	120.00	110.00	26.40	39.50	21.60	15.60		
21	3.75	3.25	2.30	19.50	5.45	357.00	65.00	94.00	28.80	37.50	21.30	15.30		
22	3.70	3.20	2.25	20.40	5.20	355.50	101.00	110.00	30.50	35.50	21.00	15.00		
23	3.80	3.15	2.20	22.20	4.75	354.00	91.00	133.50	32.00	36.50	20.40	14.70		
24	3.80	3.55	2.10	24.60	5.65	352.50	82.00	163.50	32.50	35.50	20.10	14.10		
25	3.80	5.00	2.05	32.00	14.70	351.00	75.00	238.50	32.50	37.50	19.80	12.90		
26	3.85	5.25	2.05	37.00	21.00	357.00	76.00	231.00	32.00	37.50	19.80	11.40		
27	3.85	5.35	2.00	37.00	30.00	444.00	151.50	228.00	32.50	37.00	19.80	10.80		
28	3.85	5.55	2.00	32.50	28.50	452.00	474.00	226.50	32.50	37.50	19.50	10.50		
29	3.85	7.20	2.30	34.00	27.00	446.00	488.00	219.00	32.00	38.50		10.20		
30	3.85	5.80	3.30	42.00	25.80	432.00	478.00	216.00	32.00	41.00		9.90		
31		5.60		76.00	23.10		480.00		31.50	41.50		9.00		
Total	105.40	124.75	111.60	598.90	2206.85	8688.30	8649.00	11300.00	1234.30	1128.00	748.40	513.00	35408.50	CMSDAY
Mean	3.51	4.02	3.72	19.32	71.19	289.61	279.00	376.67	39.82	36.39	26.73	16.55	97.01	CMS
Max	3.85	7.20	5.60	76.00	162.00	460.00	488.00	584.00	207.00	43.00	40.50	20.70	584.00	CMS
Min	2.80	3.15	2.00	3.15	4.75	16.20	65.00	94.00	25.80	31.50	19.50	9.00	2.00	CMS
Runoff	9.11	10.78	9.64	51.75	190.67	750.67	747.27	976.32	106.64	97.46	64.66	44.32	3059.29	MCM

Momentary Peak 598.00 CMS. at 115.69 m. (MSL.) at 06.00 Hours , on Nov 7 , 2014

Runoff Yield 2.14 Liters/Second/Square KM. Momentary Peak Yield 13.202 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

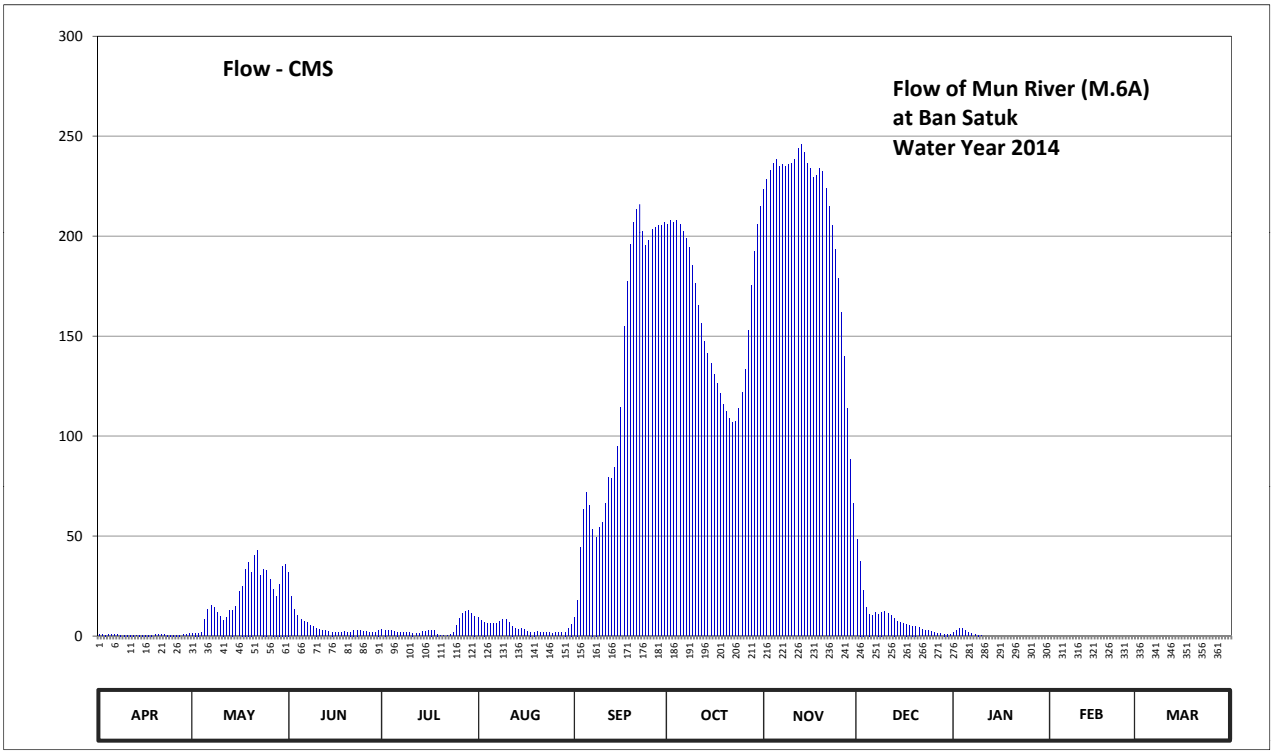
Location : on right bank at Satuk.

	Ban Satuk	**Amphoe** Satuk	**Changwat** Buri Ram
Drainge Area	28,458 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+123.000 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	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	1976 to date		
Rated by Flot	-		
Rated by Current Meter	1976 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
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 44 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.77	123.84	124.94	123.96	124.26	124.26	127.30	127.49	125.27	123.86	123.56	123.58	
2	123.76	123.85	124.69	123.95	124.19	124.65	127.32	127.55	125.05	123.93	123.56	123.57	
3	123.75	123.85	124.47	123.94	124.15	125.19	127.31	127.60	124.76	123.99	123.56	123.56	
4	123.76	123.87	124.32	123.93	124.12	125.49	127.32	127.64	124.52	123.99	123.56	123.55	
5	123.76	124.21	124.21	123.92	124.11	125.61	127.30	127.66	124.35	123.93	123.56	123.54	
6	123.76	124.46	124.16	123.90	124.11	125.52	127.26	127.62	124.31	123.87	123.56	123.53	
7	123.76	124.56	124.13	123.88	124.12	125.35	127.22	127.63	124.38	123.82	123.56	123.53	
8	123.75	124.52	124.07	123.87	124.17	125.29	127.17	127.62	124.35	123.78	123.56	123.54	
9	123.75	124.39	124.04	123.88	124.21	125.36	127.07	127.63	124.40	123.75	123.56	123.54	
10	123.75	124.28	124.00	123.87	124.22	125.40	126.97	127.64	124.42	123.73	123.56	123.54	
11	123.75	124.20	123.97	123.85	124.13	125.53	126.85	127.66	124.37	123.70	123.56	123.53	
12	123.75	124.27	123.94	123.83	124.05	125.72	126.75	127.72	124.31	123.68	123.56	123.53	
13	123.74	124.44	123.93	123.84	123.98	125.71	126.65	127.74	124.25	123.67	123.57	123.54	
14	123.75	124.45	123.92	123.91	123.97	125.79	126.58	127.70	124.17	123.65	123.58	123.54	
15	123.75	124.53	123.90	123.91	123.98	125.94	126.52	127.64	124.13	123.64	123.59	123.54	
16	123.75	124.75	123.89	123.93	123.97	126.22	126.45	127.61	124.11	123.63	123.60	123.54	
17	123.75	124.80	123.88	123.95	123.92	126.73	126.39	127.56	124.10	123.62	123.60	123.54	
18	123.75	124.97	123.89	123.93	123.90	126.98	126.32	127.57	124.06	123.62	123.60	123.53	
19	123.76	125.04	123.91	123.80	123.90	127.19	126.24	127.61	124.05	123.61	123.61	123.53	
20	123.76	124.94	123.89	123.72	123.91	127.31	126.19	127.59	124.05	123.60	123.62	123.52	
21	123.76	125.11	123.90	123.74	123.89	127.38	126.14	127.50	124.02	123.60	123.63	123.52	
22	123.76	125.16	123.95	123.74	123.88	127.41	126.11	127.40	123.97	123.60	123.65	123.52	
23	123.75	124.91	123.95	123.78	123.88	127.26	126.12	127.29	123.94	123.59	123.65	123.52	
24	123.75	124.97	123.93	123.87	123.86	127.18	126.21	127.16	123.93	123.59	123.65	123.51	
25	123.75	124.96	123.91	124.06	123.84	127.21	126.33	127.00	123.91	123.59	123.64	123.51	
26	123.75	124.87	123.91	124.23	123.88	127.27	126.48	126.81	123.88	123.59	123.62	123.51	
27	123.75	124.77	123.89	124.36	123.88	127.28	126.71	126.56	123.84	123.59	123.61	123.50	
28	123.78	124.70	123.88	124.42	123.87	127.29	126.96	126.21	123.83	123.58	123.60	123.50	
29	123.79	124.82	123.87	124.43	123.90	127.29	127.15	125.85	123.80	123.58		123.50	
30	123.83	125.00	123.95	124.36	123.99	127.31	127.30	125.53	123.80	123.57		123.49	
31		125.02		124.30	124.10		127.40		123.78	123.57		123.49	
Mean	123.76	124.60	124.04	123.97	124.01	126.27	126.78	127.33	124.20	123.69	123.59	123.53	
Max	123.83	125.16	124.94	124.43	124.26	127.41	127.40	127.74	125.27	123.99	123.65	123.58	127.74
Min	123.74	123.84	123.87	123.72	123.84	124.26	126.11	125.53	123.78	123.57	123.56	123.49	123.49

Annual Max Momentary Gage Height	127.75	m. (MSL.) ,	at 10.00 Hours , on Nov 13 , 2014		
Zero Gage at Bottom Elevation	123.00	m. (MSL.) ,	River Bed	121.33	m. (MSL.)
Left Bank Elevation	139.52	m. (MSL.) ,			
Right Bank Elevation	139.51	m. (MSL.) ,	Drainage Area	28458	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.70	1.40	32.00	3.20	9.20	9.20	206.00	223.10	48.50	1.60	0.00	0.00		
2	0.60	1.50	19.60	3.00	7.80	18.00	207.80	228.50	37.50	2.60	0.00	0.00		
3	0.50	1.50	13.40	2.80	7.00	44.50	206.90	233.00	23.00	3.80	0.00	0.00		
4	0.60	1.70	10.40	2.60	6.40	63.30	207.80	236.60	14.40	3.80	0.00	0.00		
5	0.60	8.20	8.20	2.40	6.20	71.70	206.00	238.40	11.00	2.60	0.00	0.00		
6	0.60	13.20	7.20	2.00	6.20	65.40	202.40	234.80	10.20	1.70	0.00	0.00		
7	0.60	15.20	6.60	1.80	6.40	53.50	198.80	235.70	11.60	1.20	0.00	0.00		
8	0.50	14.40	5.40	1.70	7.40	49.50	194.30	234.80	11.00	0.80	0.00	0.00		
9	0.50	11.80	4.80	1.80	8.20	54.20	185.30	235.70	12.00	0.50	0.00	0.00		
10	0.50	9.60	4.00	1.70	8.40	57.00	176.30	236.60	12.40	0.30	0.00	0.00		
11	0.50	8.00	3.40	1.50	6.60	66.10	165.50	238.40	11.40	0.00	0.00	0.00		
12	0.50	9.40	2.80	1.30	5.00	79.40	156.50	243.80	10.20	0.00	0.00	0.00		
13	0.40	12.80	2.60	1.40	3.60	78.70	147.50	245.60	9.00	0.00	0.00	0.00		
14	0.50	13.00	2.40	2.20	3.40	84.30	141.40	242.00	7.40	0.00	0.00	0.00		
15	0.50	14.60	2.00	2.20	3.60	94.80	136.60	236.60	6.60	0.00	0.00	0.00		
16	0.50	22.50	1.90	2.60	3.40	114.40	131.00	233.90	6.20	0.00	0.00	0.00		
17	0.50	25.00	1.80	3.00	2.40	154.70	126.30	229.40	6.00	0.00	0.00	0.00		
18	0.50	33.50	1.90	2.60	2.00	177.20	121.40	230.30	5.20	0.00	0.00	0.00		
19	0.60	37.00	2.20	1.00	2.00	196.10	115.80	233.90	5.00	0.00	0.00	0.00		
20	0.60	32.00	1.90	0.20	2.20	206.90	112.30	232.10	5.00	0.00	0.00	0.00		
21	0.60	40.50	2.00	0.40	1.90	213.20	108.80	224.00	4.40	0.00	0.00	0.00		
22	0.60	43.00	3.00	0.40	1.80	215.90	106.70	215.00	3.40	0.00	0.00	0.00		
23	0.50	30.50	3.00	0.80	1.80	202.40	107.40	205.10	2.80	0.00	0.00	0.00		
24	0.50	33.50	2.60	1.70	1.60	195.20	113.70	193.40	2.60	0.00	0.00	0.00		
25	0.50	33.00	2.20	5.20	1.40	197.90	122.10	179.00	2.20	0.00	0.00	0.00		
26	0.50	28.50	2.20	8.60	1.80	203.30	133.40	161.90	1.80	0.00	0.00	0.00		
27	0.50	23.50	1.90	11.20	1.80	204.20	152.90	139.80	1.40	0.00	0.00	0.00		
28	0.80	20.00	1.80	12.40	1.70	205.10	175.40	113.70	1.30	0.00	0.00	0.00		
29	0.90	26.00	1.70	12.60	2.00	205.10	192.50	88.50	1.00	0.00		0.00		
30	1.30	35.00	3.00	11.20	3.80	206.90	206.00	66.10	1.00	0.00		0.00		
31		36.00		10.00	6.00		215.00		0.80	0.00		0.00		
Total	17.50	635.80	157.90	115.50	133.00	3788.10	4979.80	6289.70	286.30	18.90	0.00	0.00	16422.50	CMSDAY
Mean	0.58	20.51	5.26	3.73	4.29	126.27	160.64	209.66	9.24	0.61	0.00	0.00	44.99	CMS
Max	1.30	43.00	32.00	12.60	9.20	215.90	215.00	245.60	48.50	3.80	0.00	0.00	245.60	CMS
Min	0.40	1.40	1.70	0.20	1.40	9.20	106.70	66.10	0.80	0.00	0.00	0.00	0.00	CMS
Runoff	1.51	54.93	13.64	9.98	11.49	327.29	430.26	543.43	24.74	1.63	0.00	0.00	1418.90	MCM

Momentary Peak 246.50 CMS. at 127.75 m. (MSL.) at 10.00 Hours , on Nov 13 , 2014

Runoff Yield 1.58 Liters/Second/Square KM. Momentary Peak Yield 8.662 Liters/Second/Square KM.

WATER YEAR : 2014

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	Water - stage recorder				
Zero Gage at Bottom	+105.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank at the abutment of 200 years Krung Ratanakosin			**Elevation**	+121.152 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1944 to date				
Rating Operation					
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date				
Rated by Flot	-				
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date				
Stability of Channel Regimes	Stable because of backwater effect.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 90 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

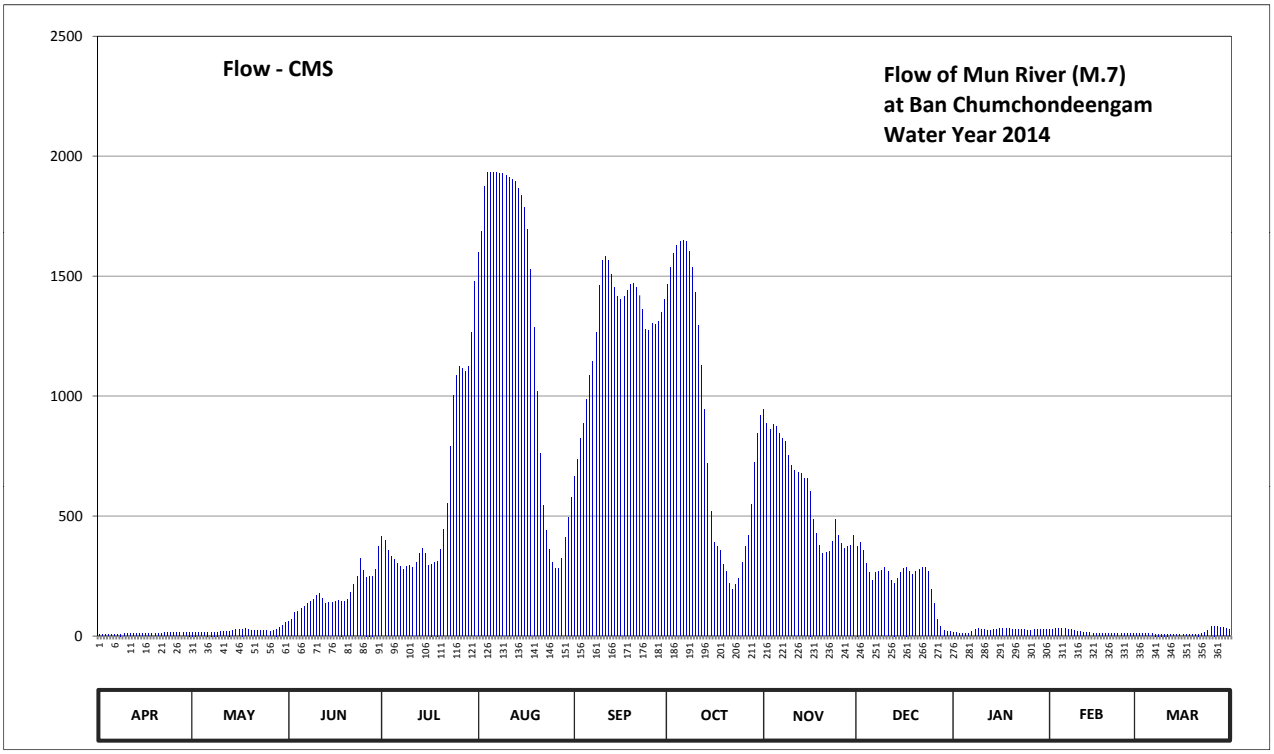
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.32	106.67	107.43	109.02	111.99	108.61	110.30	109.27	107.83	106.56	106.64	106.49	
2	106.32	106.66	107.50	108.96	112.13	108.79	110.42	109.14	107.87	106.54	106.64	106.49	
3	106.33	106.64	107.64	108.82	112.27	109.00	110.52	109.08	107.78	106.52	106.65	106.48	
4	106.34	106.63	107.67	108.72	112.30	109.14	110.58	109.13	107.62	106.51	106.65	106.47	
5	106.36	106.64	107.72	108.68	112.30	109.36	110.62	109.11	107.51	106.50	106.65	106.46	
6	106.36	106.66	107.77	108.61	112.30	109.57	110.63	109.04	107.42	106.52	106.65	106.45	
7	106.40	106.66	107.82	108.56	112.30	109.69	110.61	109.00	107.51	106.58	106.64	106.44	
8	106.44	106.66	107.87	108.51	112.28	109.93	110.54	108.97	107.52	106.63	106.63	106.43	
9	106.49	106.66	107.92	108.56	112.24	110.29	110.42	108.83	107.54	106.65	106.62	106.42	
10	106.49	106.68	107.99	108.57	112.16	110.47	110.24	108.73	107.57	106.64	106.60	106.41	
11	106.49	106.71	108.03	108.55	112.04	110.50	109.99	108.68	107.53	106.63	106.57	106.41	
12	106.48	106.74	107.94	108.62	111.90	110.47	109.66	108.66	107.42	106.62	106.55	106.40	
13	106.47	106.78	107.82	108.77	111.74	110.37	109.27	108.64	107.39	106.62	106.54	106.40	
14	106.47	106.82	107.85	108.85	111.56	110.28	108.75	108.59	107.44	106.63	106.53	106.39	
15	106.46	106.89	107.85	108.78	111.33	110.21	108.24	108.59	107.51	106.64	106.52	106.38	
16	106.47	106.95	107.87	108.58	111.08	110.19	107.87	108.46	107.56	106.65	106.52	106.36	
17	106.48	106.98	107.89	108.60	110.78	110.21	107.82	108.15	107.58	106.65	106.51	106.36	
18	106.49	106.99	107.88	108.62	110.41	110.26	107.78	107.98	107.53	106.65	106.50	106.36	
19	106.51	106.92	107.87	108.65	109.97	110.30	107.61	107.84	107.49	106.65	106.49	106.37	
20	106.53	106.83	107.92	108.84	109.43	110.31	107.53	107.74	107.53	106.64	106.48	106.38	
21	106.55	106.82	108.06	109.11	108.85	110.28	107.38	107.75	107.55	106.64	106.48	106.42	
22	106.58	106.81	108.23	109.47	108.31	110.22	107.31	107.76	107.57	106.64	106.50	106.49	
23	106.60	106.81	108.39	110.16	108.01	110.12	107.37	107.88	107.57	106.63	106.52	106.55	
24	106.62	106.80	108.69	110.76	107.79	109.96	107.44	108.15	107.53	106.63	106.51	106.61	
25	106.63	106.79	108.49	110.97	107.63	109.95	107.63	107.96	107.31	106.62	106.51	106.70	
26	106.65	106.76	108.38	111.05	107.56	110.01	107.82	107.86	107.12	106.62	106.51	106.71	
27	106.65	106.81	108.40	111.03	107.56	110.00	107.95	107.80	106.85	106.63	106.50	106.70	
28	106.64	106.98	108.40	111.01	107.68	110.02	108.32	107.82	106.70	106.63	106.50	106.68	
29	106.65	107.09	108.51	111.05	107.93	110.10	108.76	107.84	106.62	106.64		106.68	
30	106.67	107.30	108.88	111.35	108.17	110.19	109.04	107.96	106.59	106.64		106.66	
31		107.38		111.77	108.39		109.21		106.58	106.64		106.64	
Mean	106.50	106.82	108.02	109.41	110.34	109.96	108.96	108.41	107.39	106.61	106.56	106.49	
Max	106.67	107.38	108.88	111.77	112.30	110.50	110.63	109.27	107.87	106.65	106.65	106.71	112.30
Min	106.32	106.63	107.43	108.51	107.56	108.61	107.31	107.74	106.58	106.50	106.48	106.36	106.32

Annual Max Momentary Gage Height 112.30 m. (MSL.) , at 20.00 Hours , on Aug 3 , 2014

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

Left Bank Elevation 120.97 m. (MSL.) ,

Right Bank Elevation 117.55 m. (MSL.) , Drainage Area 107345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.40	16.80	61.25	416.00	1599.50	664.00	1466.00	946.50	375.50	16.00	28.00	9.80		
2	6.40	16.40	70.00	398.00	1684.00	736.00	1535.60	888.00	389.50	14.00	28.00	9.80		
3	6.60	15.60	98.00	356.00	1872.99	825.00	1593.60	861.00	358.00	12.00	30.00	9.60		
4	6.80	15.20	104.00	330.00	1930.00	888.00	1628.40	883.50	302.00	11.00	30.00	9.40		
5	7.20	15.60	114.00	320.00	1930.00	987.00	1646.00	874.50	263.50	10.00	30.00	9.20		
6	7.20	16.40	124.00	302.50	1930.00	1085.00	1649.00	843.00	232.00	12.00	30.00	9.00		
7	8.00	16.40	134.00	290.00	1930.00	1145.00	1643.00	825.00	263.50	18.00	28.00	8.80		
8	8.80	16.40	144.00	277.50	1928.67	1265.00	1605.20	811.50	267.00	26.00	26.00	8.60		
9	9.80	16.40	154.00	290.00	1926.00	1460.20	1535.60	752.00	274.00	30.00	24.00	8.40		
10	9.80	17.20	168.00	292.50	1920.67	1564.60	1431.20	712.00	284.50	28.00	20.00	8.20		
11	9.80	18.40	176.00	287.50	1912.67	1582.00	1295.00	692.00	270.50	26.00	17.00	8.20		
12	9.60	19.60	158.00	305.00	1905.00	1564.60	1130.00	684.00	232.00	24.00	15.00	8.00		
13	9.40	21.20	134.00	342.50	1894.00	1506.60	946.50	676.00	221.50	24.00	14.00	8.00		
14	9.40	22.80	140.00	365.00	1866.00	1454.40	720.00	656.00	239.00	26.00	13.00	7.80		
15	9.20	25.60	140.00	345.00	1836.00	1413.80	519.00	656.00	263.50	28.00	12.00	7.60		
16	9.40	28.00	144.00	295.00	1784.00	1402.20	389.50	604.00	281.00	30.00	12.00	7.20		
17	9.60	29.20	148.00	300.00	1694.00	1413.80	372.00	487.50	288.00	30.00	11.00	7.20		
18	9.80	29.60	146.00	305.00	1529.80	1442.80	358.00	428.00	270.50	30.00	10.00	7.20		
19	10.40	26.80	144.00	312.50	1285.00	1466.00	298.50	379.00	256.50	30.00	9.80	7.40		
20	11.20	23.20	154.00	362.00	1018.50	1471.80	270.50	344.00	270.50	28.00	9.60	7.60		
21	12.00	22.80	182.00	443.00	760.00	1454.40	218.00	347.50	277.50	28.00	9.60	8.40		
22	13.20	22.40	216.00	551.00	544.00	1419.60	193.50	351.00	284.50	28.00	10.00	9.80		
23	14.00	22.40	248.00	791.00	438.50	1361.60	214.50	393.00	284.50	26.00	12.00	15.00		
24	14.80	22.00	322.50	1004.00	361.50	1280.00	239.00	487.50	270.50	26.00	11.00	22.00		
25	15.20	21.60	272.50	1088.00	305.50	1275.00	305.50	421.00	193.50	24.00	11.00	40.00		
26	16.00	20.40	246.00	1122.50	281.00	1305.00	372.00	386.00	136.00	24.00	11.00	42.00		
27	16.00	22.40	250.00	1113.50	281.00	1300.00	417.50	365.00	70.00	26.00	10.00	40.00		
28	15.60	29.20	250.00	1104.50	323.00	1310.00	548.00	372.00	40.00	26.00	10.00	36.00		
29	16.00	34.50	277.50	1122.50	410.50	1350.00	724.00	379.00	24.00	28.00		36.00		
30	16.80	45.00	374.00	1265.00	494.50	1402.20	843.00	421.00	19.00	28.00		32.00		
31		55.00		1478.50	576.00		919.50		18.00	28.00		28.00		
Total	324.40	724.50	5293.75	17575.50	40152.30	38795.60	27027.10	17926.50	7220.00	745.00	482.00	476.20	156742.86	CMSDAY
Mean	10.81	23.37	176.46	566.95	1295.24	1293.19	871.84	597.55	232.90	24.03	17.21	15.36	429.43	CMS
Max	16.80	55.00	374.00	1478.50	1930.00	1582.00	1649.00	946.50	389.50	30.00	30.00	42.00	1930.00	CMS
Min	6.40	15.20	61.25	277.50	281.00	664.00	193.50	344.00	18.00	10.00	9.60	7.20	6.40	CMS
Runoff	28.03	62.60	457.38	1518.52	3469.16	3351.94	2335.14	1548.85	623.81	64.37	41.65	41.14	13542.58	MCM

Momentary Peak 1930.00 CMS. at 112.30 m. (MSL.) at 20.00 Hours , on Aug 3 , 2014

Runoff Yield 4.00 Liters/Second/Square KM. Momentary Peak Yield 17.979 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

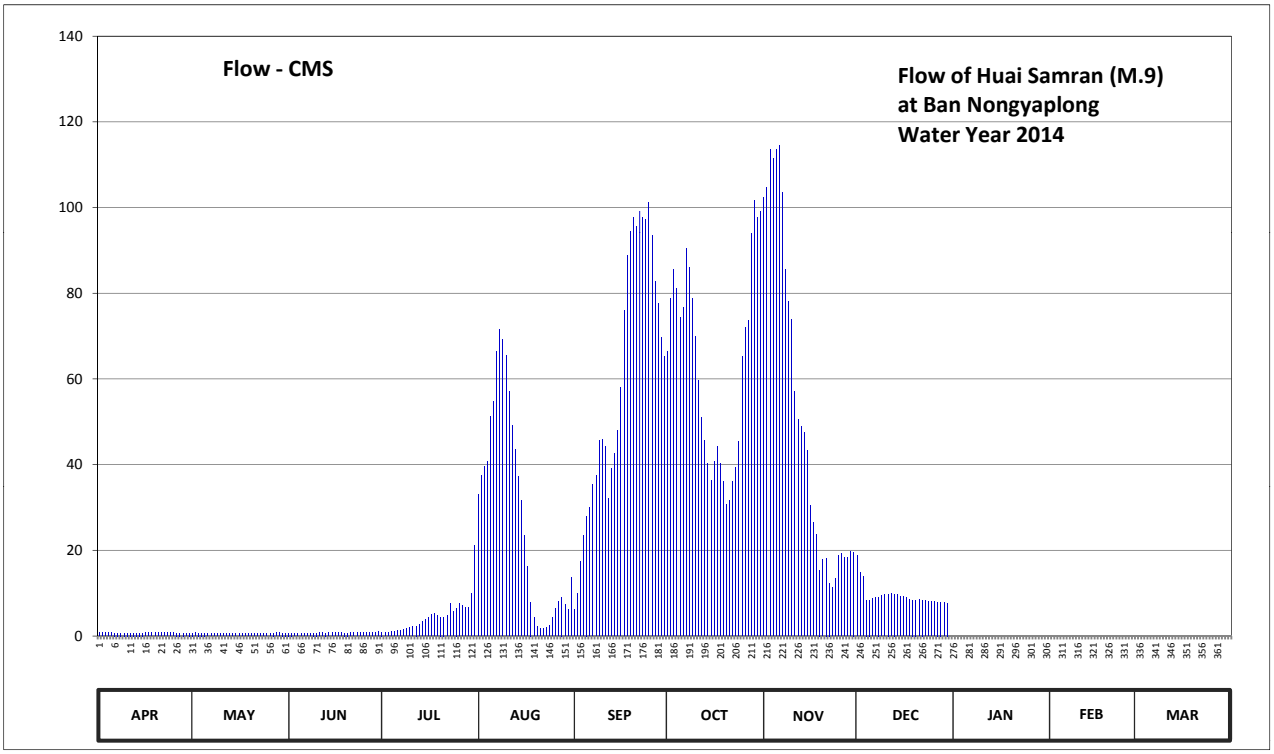
Location : on right bank at the bridge on Highway.

	Ban Nongyaplong	**Amphoe** Mueang	**Changwat** Si Sa Ket
Drainge Area	2,988 sq.km.		
Type of Gage	Water - stage recorder		
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** +124.692 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, 1972 - 1981, 1987 to date		
Rated by Flot	-		
Rated by Current Meter	1954, 1972 - 1981, 1987 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. The Water Supply weir situated above gage site.		
	Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.82	109.75	109.74	110.02	113.07	111.75	114.06	114.96	112.54	112.03	112.08	111.39	
2	109.81	109.78	109.74	109.88	113.22	112.10	114.37	115.02	112.34	112.07	112.04	111.34	
3	109.79	109.76	109.73	109.96	113.29	112.47	114.54	115.21	112.29	112.11	112.01	111.31	
4	109.78	109.75	109.73	110.15	113.33	112.75	114.43	115.17	112.01	112.13	112.01	111.28	
5	109.77	109.74	109.73	110.24	113.68	112.90	114.26	115.21	112.01	112.15	111.99	111.25	
6	109.76	109.73	109.72	110.36	113.77	112.97	114.32	115.23	112.03	112.16	111.97	111.24	
7	109.76	109.73	109.72	110.47	114.06	113.15	114.66	114.99	112.04	112.12	111.95	111.23	
8	109.76	109.73	109.73	110.62	114.19	113.22	114.55	114.54	112.05	112.11	111.94	111.22	
9	109.76	109.73	109.74	110.77	114.13	113.49	114.37	114.35	112.07	112.10	111.93	111.20	
10	109.76	109.73	109.76	110.96	114.04	113.50	114.15	114.25	112.08	112.13	111.91	111.16	
11	109.76	109.73	109.77	111.09	113.83	113.44	113.89	113.83	112.09	112.16	111.92	111.13	
12	109.75	109.73	109.77	111.17	113.61	113.04	113.67	113.65	112.10	112.18	111.94	111.11	
13	109.74	109.73	109.76	111.26	113.42	113.27	113.49	113.60	112.09	112.17	111.91	111.10	
14	109.74	109.73	109.83	111.37	113.21	113.39	113.31	113.55	112.08	112.15	111.84	111.09	
15	109.76	109.72	109.98	111.43	113.02	113.57	113.18	113.41	112.06	112.13	111.74	111.09	
16	109.79	109.72	109.86	111.52	112.75	113.85	113.33	112.98	112.06	112.11	111.66	111.08	
17	109.78	109.72	109.82	111.60	112.41	114.30	113.44	112.85	112.04	112.09	111.59	111.05	
18	109.79	109.72	109.80	111.63	111.97	114.62	113.31	112.76	112.02	112.07	111.53	111.04	
19	109.82	109.71	109.74	111.58	111.51	114.76	113.17	112.37	112.01	112.05	111.51	111.03	
20	109.80	109.71	109.75	111.53	111.16	114.84	112.99	112.49	112.01	112.02	111.49	111.02	
21	109.80	109.71	109.77	111.53	110.87	114.79	113.02	112.51	112.02	112.00	111.50	110.99	
22	109.80	109.71	109.78	111.56	110.77	114.88	113.17	112.22	112.01	111.99	111.54	110.97	
23	109.79	109.71	109.83	111.92	110.98	114.84	113.28	112.17	112.00	112.00	111.52	110.96	
24	109.78	109.70	109.93	111.68	111.22	114.83	113.48	112.27	111.99	112.02	111.50	110.92	
25	109.77	109.70	109.92	111.79	111.52	114.93	114.03	112.54	111.98	112.05	111.48	110.89	
26	109.76	109.72	109.86	111.92	111.78	114.74	114.20	112.56	111.98	112.08	111.47	110.86	
27	109.75	109.75	109.81	111.86	111.99	114.47	114.24	112.52	111.97	112.10	111.48	110.84	
28	109.74	109.78	109.78	111.82	112.05	114.34	114.75	112.52	111.97	112.13	111.47	110.83	
29	109.73	109.77	109.77	111.82	111.90	114.14	114.94	112.59	111.95	112.14		110.81	
30	109.74	109.75	110.18	112.10	111.76	114.03	114.84	112.58	111.94	112.14		110.80	
31		109.74		112.66	112.28		114.88		111.98	112.12		110.79	
Mean	109.77	109.73	109.80	111.23	112.61	113.78	113.95	113.50	112.06	112.10	111.75	111.07	
Max	109.82	109.78	110.18	112.66	114.19	114.93	114.94	115.23	112.54	112.18	112.08	111.39	115.23
Min	109.73	109.70	109.72	109.88	110.77	111.75	112.99	112.17	111.94	111.99	111.47	110.79	109.70

Annual Max Momentary Gage Height	115.25	m. (MSL.) ,	at 06.00 Hours , on Nov 6 , 2014		
Zero Gage at Bottom Elevation	109.00	m. (MSL.) ,	River Bed	108.55	m. (MSL.)
Left Bank Elevation	124.05	m. (MSL.) ,			
Right Bank Elevation	123.90	m. (MSL.) ,	Drainage Area	2988	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	0.70	0.69	0.92	33.10	6.20	66.40	102.40	18.80	0.00	0.00	0.00		
2	0.75	0.72	0.69	0.80	37.60	10.00	78.80	104.80	14.80	0.00	0.00	0.00		
3	0.73	0.71	0.68	0.87	39.70	17.40	85.60	113.50	13.80	0.00	0.00	0.00		
4	0.72	0.70	0.68	1.05	40.90	23.50	81.20	111.50	8.38	0.00	0.00	0.00		
5	0.72	0.69	0.68	1.14	51.40	28.00	74.40	113.50	8.38	0.00	0.00	0.00		
6	0.71	0.68	0.68	1.26	54.80	30.10	76.80	114.50	8.74	0.00	0.00	0.00		
7	0.71	0.68	0.68	1.37	66.40	35.50	90.40	103.60	8.92	0.00	0.00	0.00		
8	0.71	0.68	0.68	1.52	71.60	37.60	86.00	85.60	9.10	0.00	0.00	0.00		
9	0.71	0.68	0.69	1.67	69.20	45.70	78.80	78.00	9.46	0.00	0.00	0.00		
10	0.71	0.68	0.71	1.92	65.60	46.00	70.00	74.00	9.64	0.00	0.00	0.00		
11	0.71	0.68	0.72	2.18	57.20	44.20	59.60	57.20	9.82	0.00	0.00	0.00		
12	0.70	0.68	0.72	2.34	49.30	32.20	51.10	50.50	10.00	0.00	0.00	0.00		
13	0.69	0.68	0.71	2.76	43.60	39.10	45.70	49.00	9.82	0.00	0.00	0.00		
14	0.69	0.68	0.76	3.42	37.30	42.70	40.30	47.50	9.64	0.00	0.00	0.00		
15	0.71	0.68	0.88	3.78	31.60	48.10	36.40	43.30	9.28	0.00	0.00	0.00		
16	0.73	0.68	0.79	4.36	23.50	58.00	40.90	30.40	9.28	0.00	0.00	0.00		
17	0.72	0.68	0.76	5.00	16.20	76.00	44.20	26.50	8.92	0.00	0.00	0.00		
18	0.73	0.68	0.74	5.24	7.96	88.80	40.30	23.80	8.56	0.00	0.00	0.00		
19	0.76	0.67	0.69	4.84	4.28	94.40	36.10	15.40	8.38	0.00	0.00	0.00		
20	0.74	0.67	0.70	4.44	2.32	97.60	30.70	17.80	8.38	0.00	0.00	0.00		
21	0.74	0.67	0.72	4.44	1.77	95.60	31.60	18.20	8.56	0.00	0.00	0.00		
22	0.74	0.67	0.72	4.68	1.67	99.20	36.10	12.40	8.38	0.00	0.00	0.00		
23	0.73	0.67	0.76	7.56	1.96	97.60	39.40	11.40	8.20	0.00	0.00	0.00		
24	0.72	0.66	0.84	5.64	2.52	97.20	45.40	13.40	8.12	0.00	0.00	0.00		
25	0.72	0.66	0.84	6.52	4.36	101.20	65.20	18.80	8.04	0.00	0.00	0.00		
26	0.71	0.68	0.79	7.56	6.44	93.60	72.00	19.20	8.04	0.00	0.00	0.00		
27	0.70	0.70	0.75	7.08	8.12	82.80	73.60	18.40	7.96	0.00	0.00	0.00		
28	0.69	0.72	0.72	6.76	9.10	77.60	94.00	18.40	7.96	0.00	0.00	0.00		
29	0.68	0.72	0.72	6.76	7.40	69.60	101.60	19.80	7.80	0.00		0.00		
30	0.69	0.70	1.08	10.00	6.28	65.20	97.60	19.60	7.72	0.00		0.00		
31		0.69		21.20	13.60		99.20		0.00	0.00		0.00		
Total	21.53	21.24	22.27	139.08	866.78	1780.70	1969.40	1532.40	282.88	0.00	0.00	0.00	6636.28	CMSDAY
Mean	0.72	0.69	0.74	4.49	27.96	59.36	63.53	51.08	9.13	0.00	0.00	0.00	18.18	CMS
Max	0.76	0.72	1.08	21.20	71.60	101.20	101.60	114.50	18.80	0.00	0.00	0.00	114.50	CMS
Min	0.68	0.66	0.68	0.80	1.67	6.20	30.70	11.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.86	1.84	1.92	12.02	74.89	153.85	170.16	132.40	24.44	0.00	0.00	0.00	573.38	MCM

Momentary Peak 115.50 CMS. at 115.25 m. (MSL.) at 06.00 Hours , on Nov 6 , 2014

Runoff Yield 6.08 Liters/Second/Square KM. Momentary Peak Yield 38.655 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

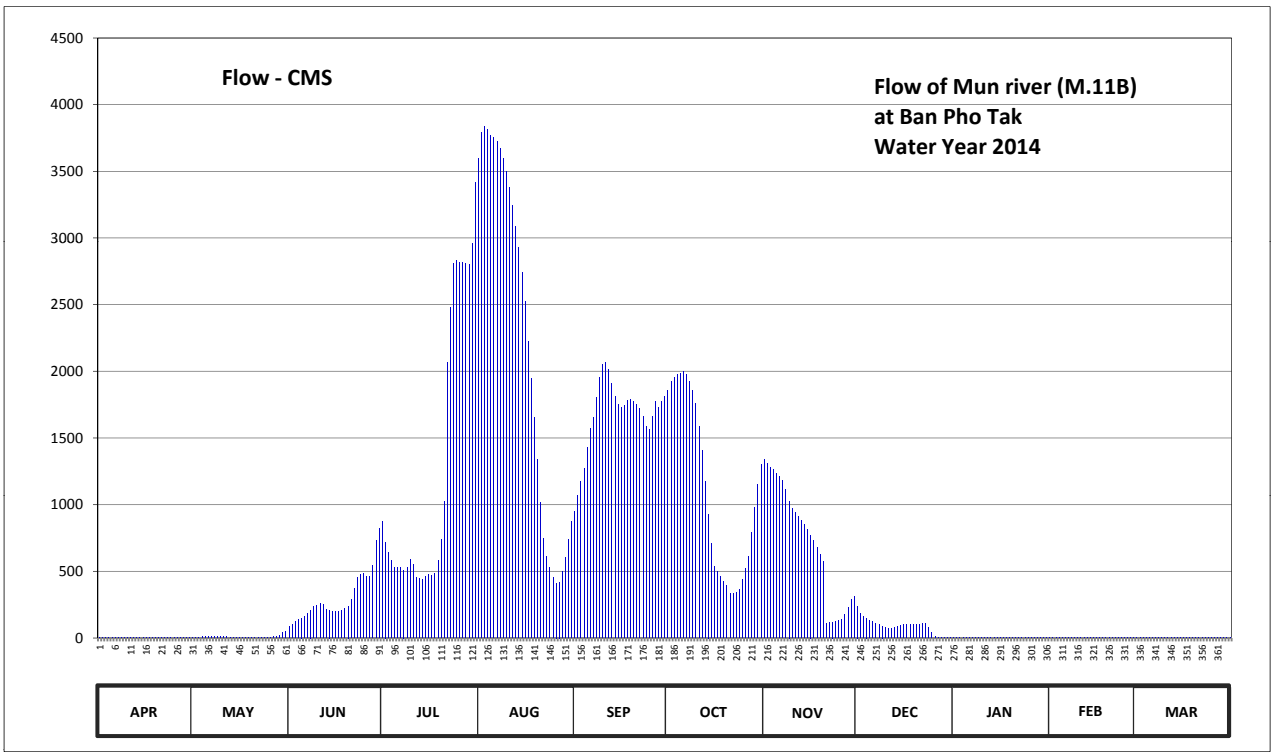
Location : on right bank at the bridge on road.

	Ban Pho Tak	**Amphoe** Phibul Mangsahan	**Changwat** Ubon Ratchathani
Drainge Area	115,687 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+104.00 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.	**Elevation**	+113.192 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 71 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.13	106.47	107.31	108.56	110.55	107.85	108.78	108.25	107.78	106.45	106.37	106.24	
2	106.13	106.52	107.37	108.43	110.75	107.97	108.85	108.22	107.64	106.45	106.37	106.23	
3	106.15	106.63	107.45	108.35	110.80	108.08	108.88	108.19	107.57	106.44	106.36	106.23	
4	106.16	106.78	107.49	108.29	110.77	108.18	108.90	108.17	107.53	106.44	106.35	106.23	
5	106.16	106.87	107.53	108.22	110.73	108.34	108.91	108.14	107.48	106.46	106.35	106.22	
6	106.17	106.93	107.57	108.22	110.71	108.49	108.92	108.12	107.44	106.46	106.34	106.22	
7	106.18	106.92	107.65	108.22	110.68	108.57	108.90	108.09	107.39	106.47	106.34	106.22	
8	106.20	106.89	107.72	108.20	110.63	108.72	108.85	108.02	107.37	106.47	106.34	106.21	
9	106.22	106.82	107.77	108.22	110.55	108.88	108.78	107.93	107.33	106.48	106.33	106.21	
10	106.25	106.79	107.79	108.30	110.45	108.98	108.68	107.87	107.29	106.48	106.33	106.21	
11	106.27	106.78	107.81	108.25	110.33	108.99	108.50	107.84	107.27	106.49	106.33	106.20	
12	106.29	106.74	107.80	108.13	110.19	108.94	108.32	107.81	107.26	106.49	106.32	106.20	
13	106.32	106.69	107.73	108.12	110.03	108.83	108.08	107.78	107.29	106.49	106.30	106.20	
14	106.34	106.64	107.72	108.11	109.87	108.73	107.83	107.74	107.32	106.50	106.28	106.20	
15	106.36	106.61	107.70	108.14	109.68	108.67	107.56	107.69	107.35	106.50	106.27	106.19	
16	106.39	106.66	107.69	108.16	109.46	108.65	107.34	107.64	107.36	106.50	106.25	106.19	
17	106.41	106.70	107.69	108.15	109.15	108.66	107.28	107.59	107.37	106.48	106.25	106.19	
18	106.43	106.72	107.71	108.17	108.87	108.70	107.23	107.52	107.37	106.46	106.24	106.19	
19	106.44	106.72	107.74	108.29	108.57	108.71	107.18	107.46	107.37	106.44	106.25	106.19	
20	106.45	106.68	107.78	108.45	108.25	108.69	107.13	107.39	107.38	106.41	106.26	106.20	
21	106.47	106.66	107.88	108.65	107.92	108.67	107.05	107.40	107.38	106.39	106.27	106.23	
22	106.49	106.67	108.03	108.99	107.61	108.64	107.05	107.42	107.39	106.37	106.29	106.28	
23	106.52	106.67	108.13	109.41	107.44	108.58	107.06	107.43	107.39	106.37	106.30	106.33	
24	106.53	106.66	108.16	109.75	107.33	108.50	107.09	107.45	107.29	106.35	106.27	106.36	
25	106.53	106.68	108.17	109.77	107.22	108.48	107.20	107.46	107.14	106.35	106.25	106.47	
26	106.53	106.71	108.14	109.76	107.16	108.58	107.32	107.50	106.94	106.34	106.25	106.51	
27	106.54	106.75	108.14	109.76	107.17	108.69	107.44	107.61	106.69	106.35	106.24	106.51	
28	106.54	106.84	108.24	109.75	107.28	108.65	107.66	107.76	106.55	106.36	106.24	106.49	
29	106.55	107.03	108.44	109.74	107.43	108.69	107.88	107.88	106.49	106.36		106.47	
30	106.56	107.14	108.52	109.90	107.60	108.73	108.06	107.92	106.47	106.37		106.45	
31		107.19		110.37	107.77		108.21		106.46	106.37		106.43	
Mean	106.36	106.76	107.83	108.74	109.13	108.59	107.97	107.78	107.24	106.43	106.30	106.28	
Max	106.56	107.19	108.52	110.37	110.80	108.99	108.92	108.25	107.78	106.50	106.37	106.51	110.80
Min	106.13	106.47	107.31	108.11	107.16	107.85	107.05	107.39	106.46	106.34	106.24	106.19	106.13

Annual Max Momentary Gage Height	110.83	m. (MSL.) ,	at 16.00 Hours , on Aug 3, 2014		
Zero Gage at Bottom Elevation	104.00	m. (MSL.) ,	River Bed	103.10	m. (MSL.)
Left Bank Elevation	112.92	m. (MSL.) ,			
Right Bank Elevation	113.54	m. (MSL.) ,	Drainage Area	115687	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	4.70	83.00	874.00	3595.00	949.00	1860.40	1341.00	240.00	4.50	3.70	2.40		
2	1.30	5.20	101.00	720.00	3791.00	1066.60	1929.00	1311.60	182.00	4.50	3.70	2.30		
3	1.50	6.30	125.00	640.00	3840.01	1174.40	1958.40	1282.20	161.00	4.40	3.60	2.30		
4	1.60	7.80	137.00	582.00	3810.60	1272.40	1978.00	1262.60	149.00	4.40	3.50	2.30		
5	1.60	8.70	149.00	526.00	3771.41	1429.19	1987.80	1233.20	134.00	4.60	3.50	2.20		
6	1.70	9.30	161.00	526.00	3751.80	1576.20	1997.60	1213.60	122.00	4.60	3.40	2.20		
7	1.80	9.20	185.00	526.00	3722.40	1654.60	1978.00	1184.19	107.00	4.70	3.40	2.20		
8	2.00	8.90	210.00	510.00	3673.40	1801.60	1929.00	1115.59	101.00	4.70	3.40	2.10		
9	2.20	8.20	235.00	526.00	3595.00	1958.40	1860.40	1027.40	89.00	4.80	3.30	2.10		
10	2.50	7.90	245.00	590.00	3497.00	2056.40	1762.40	968.60	77.00	4.80	3.30	2.10		
11	2.70	7.80	255.00	550.00	3379.40	2066.20	1586.00	939.19	71.00	4.90	3.30	2.00		
12	2.90	7.40	250.00	454.00	3242.20	2017.20	1409.60	909.79	68.00	4.90	3.20	2.00		
13	3.20	6.90	215.00	446.00	3085.40	1909.40	1174.40	884.00	77.00	4.90	3.00	2.00		
14	3.40	6.40	210.00	438.00	2928.60	1811.40	929.40	852.00	86.00	5.00	2.80	2.00		
15	3.60	6.10	200.00	462.00	2742.40	1752.60	708.00	812.00	95.00	5.00	2.70	1.90		
16	3.90	6.60	197.00	478.00	2526.80	1733.00	538.00	772.00	98.00	5.00	2.50	1.90		
17	4.10	7.00	197.00	470.00	2223.00	1742.80	496.00	732.00	101.00	4.80	2.50	1.90		
18	4.30	7.20	205.00	486.00	1948.60	1782.00	461.00	676.00	101.00	4.60	2.40	1.90		
19	4.40	7.20	220.00	582.00	1654.60	1791.80	426.00	628.00	101.00	4.40	2.50	1.90		
20	4.50	6.80	240.00	740.00	1341.00	1772.20	391.00	573.00	104.00	4.10	2.60	2.00		
21	4.70	6.60	290.00	1025.01	1017.60	1752.60	335.00	110.00	104.00	3.90	2.70	2.30		
22	4.90	6.70	374.00	2066.20	748.00	1723.20	335.00	116.00	107.00	3.70	2.90	2.80		
23	5.20	6.70	454.00	2477.80	612.00	1664.40	342.00	119.00	107.00	3.70	3.00	3.30		
24	5.30	6.60	478.00	2811.00	531.00	1586.00	363.00	125.00	77.00	3.50	2.70	3.60		
25	5.30	6.80	486.00	2830.60	454.00	1566.40	440.00	128.00	38.00	3.50	2.50	4.70		
26	5.30	7.10	462.00	2820.80	412.00	1664.40	524.00	140.00	9.40	3.40	2.50	5.10		
27	5.40	7.50	462.00	2820.80	419.00	1772.20	612.00	173.00	6.90	3.50	2.40	5.10		
28	5.40	8.40	542.00	2811.00	496.00	1733.00	788.00	230.00	5.50	3.60	2.40	4.90		
29	5.50	16.00	730.00	2801.20	604.00	1772.20	978.39	290.00	4.90	3.60		4.70		
30	5.60	38.00	818.00	2958.00	740.00	1811.40	1154.80	310.00	4.70	3.70		4.50		
31		48.00		3418.60	876.00		1301.80		4.60	3.70		4.30		
Total	107.10	304.00	8916.00	39967.01	69029.23	50363.18	34534.39	21458.96	2733.00	133.40	83.40	87.00	227716.70	CMSDAY
Mean	3.57	9.81	297.20	1289.26	2226.75	1678.77	1114.01	715.30	88.16	4.30	2.98	2.81	623.88	CMS
Max	5.60	48.00	818.00	3418.60	3840.01	2066.20	1997.60	1341.00	240.00	5.00	3.70	5.10	3840.01	CMS
Min	1.30	4.70	83.00	438.00	412.00	949.00	335.00	110.00	4.60	3.40	2.40	1.90	1.30	CMS
Runoff	9.25	26.27	770.34	3453.15	5964.13	4351.38	2983.77	1854.05	236.13	11.53	7.21	7.52	19674.73	MCM

Momentary Peak 3869.40 CMS. at 110.83 m. (MSL.) at 16.00 Hours , on Aug 3 , 2014

Runoff Yield 5.39 Liters/Second/Square KM. Momentary Peak Yield 33.447 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Chi at Ban La Loon, Surin (M.26A)

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

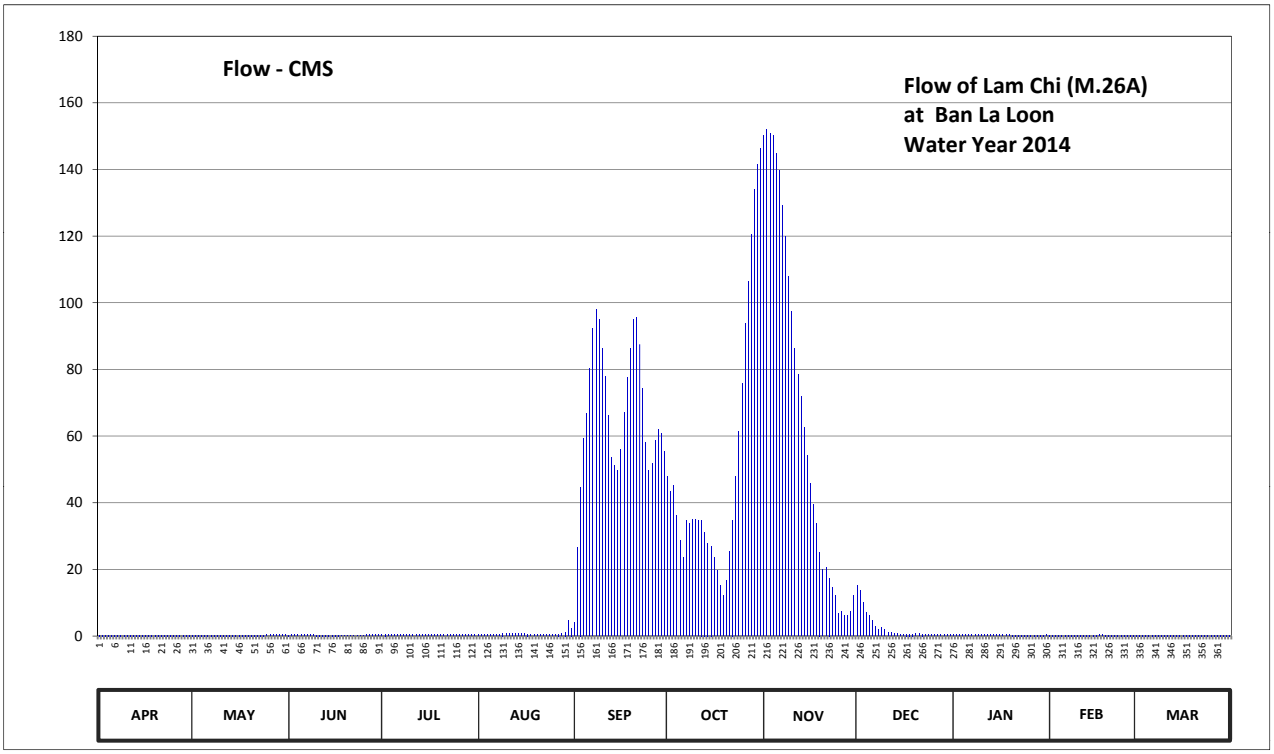
Location : on left bank at railway bridge.

	Ban La Loon	**Amphoe** Mueang	**Changwat** Surin
Drainge Area	3,028 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+127.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +140.271 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No 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 61 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.51	128.50	128.53	128.77	128.57	129.70	132.95	137.02	130.62	128.63	128.54	128.52	
2	128.51	128.50	128.57	128.79	128.58	131.50	132.65	137.05	130.50	128.61	128.53	128.51	
3	128.51	128.50	128.57	128.76	128.56	132.74	132.78	137.03	130.20	128.61	128.53	128.51	
4	128.51	128.50	128.57	128.74	128.56	133.58	132.18	137.02	129.96	128.61	128.53	128.51	
5	128.51	128.50	128.58	128.72	128.56	134.00	131.66	136.92	129.89	128.60	128.53	128.51	
6	128.51	128.50	128.58	128.72	128.59	134.67	131.27	136.81	129.75	128.60	128.53	128.50	
7	128.51	128.50	128.58	128.70	128.63	135.20	132.07	136.56	129.61	128.60	128.53	128.50	
8	128.51	128.50	128.56	128.70	128.70	135.43	132.02	136.27	129.48	128.60	128.53	128.50	
9	128.51	128.50	128.56	128.73	129.10	135.31	132.10	135.83	129.57	128.59	128.53	128.50	
10	128.51	128.50	128.54	128.72	129.05	134.96	132.10	135.41	129.48	128.58	128.53	128.50	
11	128.51	128.50	128.53	128.70	128.97	134.55	132.07	134.96	129.34	128.58	128.53	128.50	
12	128.51	128.50	128.53	128.69	128.85	133.96	132.08	134.58	129.26	128.57	128.53	128.50	
13	128.51	128.50	128.53	128.67	128.90	133.27	131.84	134.25	129.07	128.56	128.53	128.50	
14	128.51	128.50	128.52	128.71	128.92	133.13	131.61	133.76	128.84	128.56	128.53	128.50	
15	128.51	128.50	128.52	128.73	128.94	133.04	131.54	133.29	128.77	128.55	128.53	128.53	
16	128.51	128.50	128.52	128.73	128.86	133.40	131.28	132.82	128.78	128.55	128.53	128.52	
17	128.51	128.50	128.50	128.70	128.82	134.01	130.98	132.39	128.79	128.55	128.55	128.52	
18	128.51	128.54	128.49	128.69	128.70	134.53	130.63	132.02	128.83	128.55	128.55	128.52	
19	128.51	128.52	128.49	128.69	128.68	134.96	130.39	131.40	128.82	128.55	128.54	128.52	
20	128.51	128.51	128.49	128.68	128.70	135.31	130.74	131.00	128.85	128.54	128.54	128.52	
21	128.51	128.51	128.49	128.68	128.65	135.33	131.41	131.04	128.85	128.54	128.54	128.52	
22	128.51	128.51	128.49	128.69	128.70	135.01	132.08	130.80	128.81	128.54	128.54	128.50	
23	128.51	128.50	128.49	128.68	128.67	134.37	132.94	130.59	128.78	128.54	128.54	128.50	
24	128.51	128.53	128.49	128.69	128.68	133.52	133.70	130.39	128.74	128.54	128.54	128.50	
25	128.51	128.72	128.49	128.69	128.64	133.05	134.44	129.92	128.73	128.54	128.54	128.51	
26	128.50	128.65	128.61	128.66	128.65	133.17	135.26	129.99	128.69	128.54	128.54	128.51	
27	128.50	128.61	128.74	128.64	128.79	133.54	135.76	129.89	128.68	128.54	128.53	128.50	
28	128.50	128.58	128.60	128.63	128.99	133.73	136.29	129.89	128.67	128.54	128.52	128.50	
29	128.50	128.56	128.60	128.61	129.37	133.67	136.68	129.97	128.66	128.54		128.50	
30	128.50	128.55	128.72	128.61	129.75	133.36	136.85	130.37	128.65	128.54		128.50	
31		128.55		128.58	129.55		136.95		128.65	128.55		128.50	
Mean	128.51	128.53	128.55	128.69	128.83	133.87	132.82	133.31	129.17	128.57	128.53	128.51	
Max	128.51	128.72	128.74	128.79	129.75	135.43	136.95	137.05	130.62	128.63	128.55	128.53	137.05
Min	128.50	128.50	128.49	128.58	128.56	129.70	130.39	129.89	128.65	128.54	128.52	128.50	128.49

Annual Max Momentary Gage Height	137.05	m. (MSL.) ,	at 06.00 Hours , on Nov 2 , 2014		
Zero Gage at Bottom Elevation	127.10	m. (MSL.) ,	River Bed	128.15	m. (MSL.)
Left Bank Elevation	140.25	m. (MSL.) ,			
Right Bank Elevation	140.25	m. (MSL.) ,	Drainage Area	3028	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.31	0.30	0.33	0.57	0.37	4.00	48.00	150.20	15.06	0.43	0.34	0.32		
2	0.31	0.30	0.37	0.59	0.38	26.50	43.35	152.00	13.60	0.41	0.33	0.31		
3	0.31	0.30	0.37	0.56	0.36	44.70	45.30	150.80	10.00	0.41	0.33	0.31		
4	0.31	0.30	0.37	0.54	0.36	59.34	36.30	150.20	7.12	0.41	0.33	0.31		
5	0.31	0.30	0.38	0.52	0.36	66.90	28.58	144.84	6.28	0.40	0.33	0.31		
6	0.31	0.30	0.38	0.52	0.39	80.30	23.51	139.84	4.60	0.40	0.33	0.30		
7	0.31	0.30	0.38	0.50	0.43	92.30	34.65	129.28	2.92	0.40	0.33	0.30		
8	0.31	0.30	0.36	0.50	0.50	98.05	33.90	119.86	1.84	0.40	0.33	0.30		
9	0.31	0.30	0.36	0.53	0.90	95.05	35.10	108.05	2.56	0.39	0.33	0.30		
10	0.31	0.30	0.34	0.52	0.85	86.42	35.10	97.55	1.84	0.38	0.33	0.30		
11	0.31	0.30	0.33	0.50	0.77	77.90	34.65	86.42	1.14	0.38	0.33	0.30		
12	0.31	0.30	0.33	0.49	0.65	66.18	34.80	78.50	1.06	0.37	0.33	0.30		
13	0.31	0.30	0.33	0.47	0.70	53.76	31.20	71.90	0.87	0.36	0.33	0.30		
14	0.31	0.30	0.32	0.51	0.72	51.24	27.93	62.58	0.64	0.36	0.33	0.30		
15	0.31	0.30	0.32	0.53	0.74	49.62	27.02	54.12	0.57	0.35	0.33	0.33		
16	0.31	0.30	0.32	0.53	0.66	56.10	23.64	45.90	0.58	0.35	0.33	0.32		
17	0.31	0.30	0.30	0.50	0.62	67.10	19.74	39.45	0.59	0.35	0.35	0.32		
18	0.31	0.34	0.29	0.49	0.50	77.50	15.19	33.90	0.63	0.35	0.35	0.32		
19	0.31	0.32	0.29	0.49	0.48	86.42	12.28	25.20	0.62	0.35	0.34	0.32		
20	0.31	0.31	0.29	0.48	0.50	95.05	16.62	20.00	0.65	0.34	0.34	0.32		
21	0.31	0.31	0.29	0.48	0.45	95.55	25.33	20.52	0.65	0.34	0.34	0.32		
22	0.31	0.31	0.29	0.49	0.50	87.55	34.80	17.40	0.61	0.34	0.34	0.30		
23	0.31	0.30	0.29	0.48	0.47	74.30	47.82	14.68	0.58	0.34	0.34	0.30		
24	0.31	0.33	0.29	0.49	0.48	58.26	61.50	12.28	0.54	0.34	0.34	0.30		
25	0.31	0.52	0.29	0.49	0.44	49.80	75.70	6.64	0.53	0.34	0.34	0.31		
26	0.30	0.45	0.41	0.46	0.45	51.96	93.80	7.48	0.49	0.34	0.34	0.31		
27	0.30	0.41	0.54	0.44	0.59	58.62	106.30	6.28	0.48	0.34	0.33	0.30		
28	0.30	0.38	0.40	0.43	0.79	62.04	120.42	6.28	0.47	0.34	0.32	0.30		
29	0.30	0.36	0.40	0.41	1.17	60.96	134.12	7.24	0.46	0.34		0.30		
30	0.30	0.35	0.52	0.41	4.60	55.38	141.60	12.04	0.45	0.34		0.30		
31		0.35		0.38	2.40		146.40		0.45	0.35		0.30		
Total	9.25	10.14	10.48	15.30	23.58	1988.85	1594.65	1971.43	78.88	11.34	9.36	9.53	5732.79	CMSDAY
Mean	0.31	0.33	0.35	0.49	0.76	66.30	51.44	65.71	2.54	0.37	0.33	0.31	15.71	CMS
Max	0.31	0.52	0.54	0.59	4.60	98.05	146.40	152.00	15.06	0.43	0.35	0.33	152.00	CMS
Min	0.30	0.30	0.29	0.38	0.36	4.00	12.28	6.28	0.45	0.34	0.32	0.30	0.29	CMS
Runoff	0.80	0.88	0.91	1.32	2.04	171.84	137.78	170.33	6.82	0.98	0.81	0.82	495.31	MCM

Momentary Peak 152.00 CMS. at 137.05 m. (MSL.) at 06.00 Hours , on Nov 2 , 2014

Runoff Yield 5.19 Liters/Second/Square KM. Momentary Peak Yield 50.198 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Takhong at Ban Khlong Phai, Nakhon Ratchasima (M.38C)

Lat 14 - 52 - 06 N Long 101 - 33 - 53 E

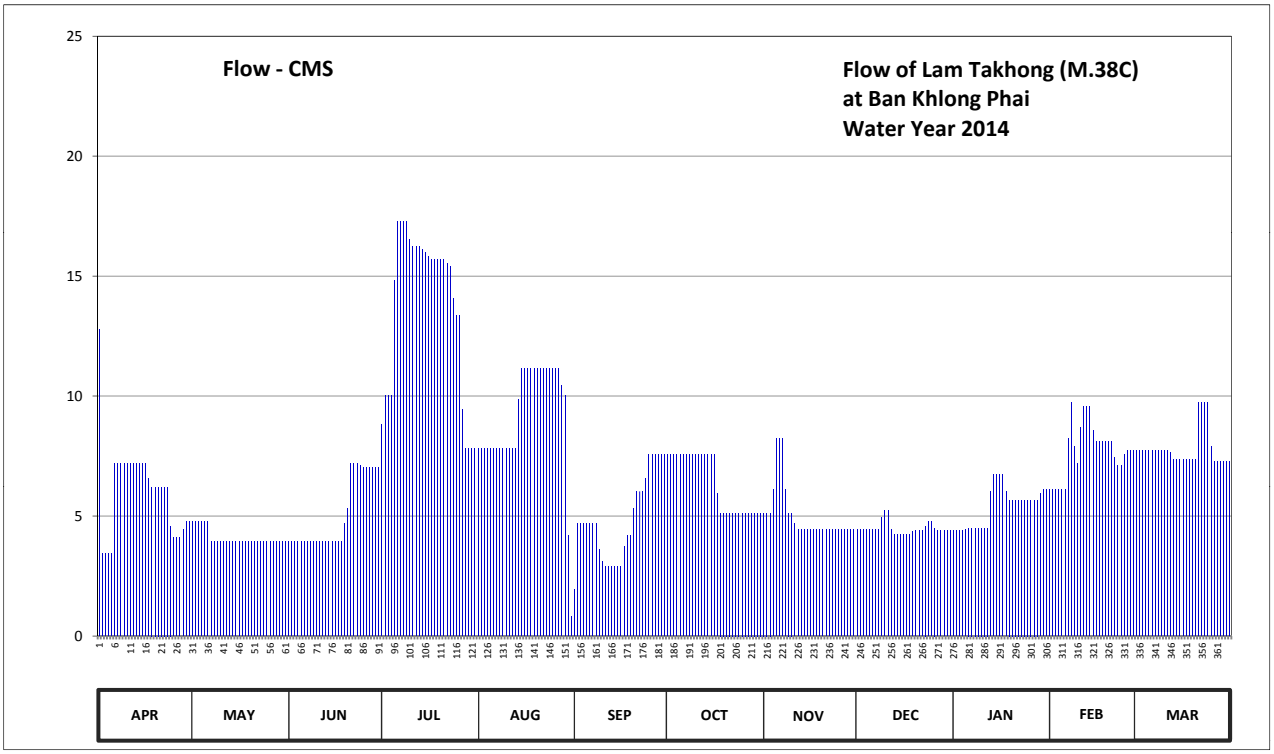
Location : on left bank at the bridge on highway.

	Ban Khlong Phai	**Amphoe** Si Khio	**Changwat** Nakhon Ratchasima
Drainge Area	1,292 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+242.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage observer's house.		**Elevation** +251.841 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 - 1995, 2006 to date		
Rating Operation			
Period of Rating	1983 - 1995, 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1983 - 1995, 2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Flow effected by Lam Takhong Dam about 500 meters upstreams from the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	246.04	245.33	245.19	245.76	245.67	244.79	245.64	245.37	245.29	245.28	245.48	245.66	
2	245.09	245.33	245.19	245.85	245.67	245.32	245.64	245.37	245.29	245.28	245.48	245.66	
3	245.09	245.33	245.19	245.85	245.67	245.32	245.64	245.37	245.29	245.28	245.48	245.66	
4	245.09	245.33	245.19	245.85	245.67	245.32	245.64	245.48	245.29	245.28	245.48	245.66	
5	245.09	245.33	245.19	246.18	245.67	245.32	245.64	245.71	245.29	245.29	245.48	245.66	
6	245.60	245.33	245.19	246.35	245.67	245.32	245.64	245.71	245.29	245.30	245.48	245.66	
7	245.60	245.19	245.19	246.35	245.67	245.32	245.64	245.71	245.29	245.30	245.71	245.66	
8	245.60	245.19	245.19	246.35	245.67	245.32	245.64	245.48	245.29	245.30	245.83	245.66	
9	245.60	245.19	245.19	246.35	245.67	245.12	245.64	245.37	245.35	245.30	245.68	245.66	
10	245.60	245.19	245.19	246.30	245.67	245.02	245.64	245.37	245.38	245.30	245.60	245.66	
11	245.60	245.19	245.19	246.28	245.67	244.98	245.64	245.32	245.38	245.30	245.75	245.66	
12	245.60	245.19	245.19	246.28	245.67	244.98	245.64	245.29	245.29	245.30	245.82	245.65	
13	245.60	245.19	245.19	246.28	245.67	244.98	245.64	245.29	245.25	245.47	245.82	245.62	
14	245.60	245.19	245.19	246.27	245.84	244.98	245.64	245.29	245.25	245.55	245.82	245.62	
15	245.60	245.19	245.19	246.26	245.93	244.98	245.64	245.29	245.25	245.55	245.74	245.62	
16	245.60	245.19	245.19	246.25	245.93	244.98	245.64	245.29	245.25	245.55	245.70	245.62	
17	245.53	245.19	245.19	246.24	245.93	245.15	245.46	245.29	245.25	245.55	245.70	245.62	
18	245.49	245.19	245.19	246.24	245.93	245.24	245.37	245.29	245.25	245.47	245.70	245.62	
19	245.49	245.19	245.32	246.24	245.93	245.24	245.37	245.29	245.27	245.43	245.70	245.62	
20	245.49	245.19	245.39	246.24	245.93	245.39	245.37	245.29	245.28	245.43	245.70	245.62	
21	245.49	245.19	245.60	246.24	245.93	245.47	245.37	245.29	245.28	245.43	245.70	245.83	
22	245.49	245.19	245.60	246.23	245.93	245.47	245.37	245.29	245.28	245.43	245.63	245.83	
23	245.49	245.19	245.60	246.22	245.93	245.47	245.37	245.29	245.31	245.43	245.59	245.83	
24	245.31	245.19	245.59	246.13	245.93	245.53	245.37	245.29	245.33	245.43	245.59	245.83	
25	245.22	245.19	245.58	246.08	245.93	245.64	245.37	245.29	245.33	245.43	245.64	245.68	
26	245.22	245.19	245.58	246.08	245.93	245.64	245.37	245.29	245.30	245.43	245.66	245.61	
27	245.22	245.19	245.58	245.81	245.93	245.64	245.37	245.29	245.28	245.43	245.66	245.61	
28	245.29	245.19	245.58	245.67	245.88	245.64	245.37	245.29	245.28	245.43	245.66	245.61	
29	245.33	245.19	245.58	245.67	245.85	245.64	245.37	245.29	245.28	245.46		245.61	
30	245.33	245.19	245.58	245.67	245.24	245.64	245.37	245.29	245.28	245.48		245.61	
31		245.19		245.67	244.53		245.37		245.28	245.48		245.61	
Mean	245.45	245.22	245.33	246.10	245.75	245.30	245.51	245.36	245.29	245.40	245.65	245.66	
Max	246.04	245.33	245.60	246.35	245.93	245.64	245.64	245.71	245.38	245.55	245.83	245.83	246.35
Min	245.09	245.19	245.19	245.67	244.53	244.79	245.37	245.29	245.25	245.28	245.48	245.61	244.53

Annual Max Momentary Gage Height	246.35	m. (MSL.) ,	at 12.00 Hours , on Jul 5, 2014		
Zero Gage at Bottom Elevation	242.00	m. (MSL.) ,	River Bed	243.76	m. (MSL.)
Left Bank Elevation	251.81	m. (MSL.) ,			
Right Bank Elevation	252.06	m. (MSL.) ,	Drainage Area	1292	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.78	4.77	3.95	8.82	7.83	1.95	7.56	5.13	4.45	4.40	6.12	7.74		
2	3.45	4.77	3.95	10.03	7.83	4.68	7.56	5.13	4.45	4.40	6.12	7.74		
3	3.45	4.77	3.95	10.03	7.83	4.68	7.56	5.13	4.45	4.40	6.12	7.74		
4	3.45	4.77	3.95	10.03	7.83	4.68	7.56	6.12	4.45	4.40	6.12	7.74		
5	3.45	4.77	3.95	14.81	7.83	4.68	7.56	8.22	4.45	4.45	6.12	7.74		
6	7.20	4.77	3.95	17.28	7.83	4.68	7.56	8.22	4.45	4.50	6.12	7.74		
7	7.20	3.95	3.95	17.28	7.83	4.68	7.56	8.22	4.45	4.50	8.22	7.74		
8	7.20	3.95	3.95	17.28	7.83	4.68	7.56	6.12	4.45	4.50	9.73	7.74		
9	7.20	3.95	3.95	17.28	7.83	3.60	7.56	5.13	4.95	4.50	7.92	7.74		
10	7.20	3.95	3.95	16.55	7.83	3.10	7.56	5.13	5.22	4.50	7.20	7.74		
11	7.20	3.95	3.95	16.26	7.83	2.90	7.56	4.68	5.22	4.50	8.70	7.74		
12	7.20	3.95	3.95	16.26	7.83	2.90	7.56	4.45	4.45	4.50	9.59	7.65		
13	7.20	3.95	3.95	16.26	7.83	2.90	7.56	4.45	4.25	6.03	9.59	7.38		
14	7.20	3.95	3.95	16.12	9.88	2.90	7.56	4.45	4.25	6.75	9.59	7.38		
15	7.20	3.95	3.95	15.97	11.18	2.90	7.56	4.45	4.25	6.75	8.58	7.38		
16	7.20	3.95	3.95	15.82	11.18	2.90	7.56	4.45	4.25	6.75	8.10	7.38		
17	6.57	3.95	3.95	15.68	11.18	3.75	5.94	4.45	4.25	6.75	8.10	7.38		
18	6.21	3.95	3.95	15.68	11.18	4.20	5.13	4.45	4.25	6.03	8.10	7.38		
19	6.21	3.95	4.68	15.68	11.18	4.20	5.13	4.45	4.35	5.67	8.10	7.38		
20	6.21	3.95	5.31	15.68	11.18	5.31	5.13	4.45	4.40	5.67	8.10	7.38		
21	6.21	3.95	7.20	15.68	11.18	6.03	5.13	4.45	4.40	5.67	8.10	9.73		
22	6.21	3.95	7.20	15.53	11.18	6.03	5.13	4.45	4.40	5.67	7.47	9.73		
23	6.21	3.95	7.20	15.39	11.18	6.03	5.13	4.45	4.59	5.67	7.11	9.73		
24	4.59	3.95	7.11	14.09	11.18	6.57	5.13	4.45	4.77	5.67	7.11	9.73		
25	4.10	3.95	7.02	13.36	11.18	7.56	5.13	4.45	4.77	5.67	7.56	7.92		
26	4.10	3.95	7.02	13.36	11.18	7.56	5.13	4.45	4.50	5.67	7.74	7.29		
27	4.10	3.95	7.02	9.44	11.18	7.56	5.13	4.45	4.40	5.67	7.74	7.29		
28	4.45	3.95	7.02	7.83	10.46	7.56	5.13	4.45	4.40	5.67	7.74	7.29		
29	4.77	3.95	7.02	7.83	10.03	7.56	5.13	4.45	4.40	5.94		7.29		
30	4.77	3.95	7.02	7.83	4.20	7.56	5.13	4.45	4.40	6.12		7.29		
31		3.95		7.83	0.82		5.13		4.40	6.12		7.29		
Total	180.49	127.37	151.92	426.97	282.52	146.29	198.72	151.78	139.12	167.49	216.91	242.41	2431.99	CMSDAY
Mean	6.02	4.11	5.06	13.77	9.11	4.88	6.41	5.06	4.49	5.40	7.75	7.82	6.66	CMS
Max	12.78	4.77	7.20	17.28	11.18	7.56	7.56	8.22	5.22	6.75	9.73	9.73	17.28	CMS
Min	3.45	3.95	3.95	7.83	0.82	1.95	5.13	4.45	4.25	4.40	6.12	7.29	0.82	CMS
Runoff	15.59	11.01	13.13	36.89	24.41	12.64	17.17	13.11	12.02	14.47	18.74	20.94	210.12	MCM

Momentary Peak 17.28 CMS. at 246.35 m. (MSL.) at 12.00 Hours , on Jul 5, 2014

Runoff Yield 5.16 Liters/Second/Square KM. Momentary Peak Yield 13.375 Liters/Second/Square KM.

WATER YEAR : 2014

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

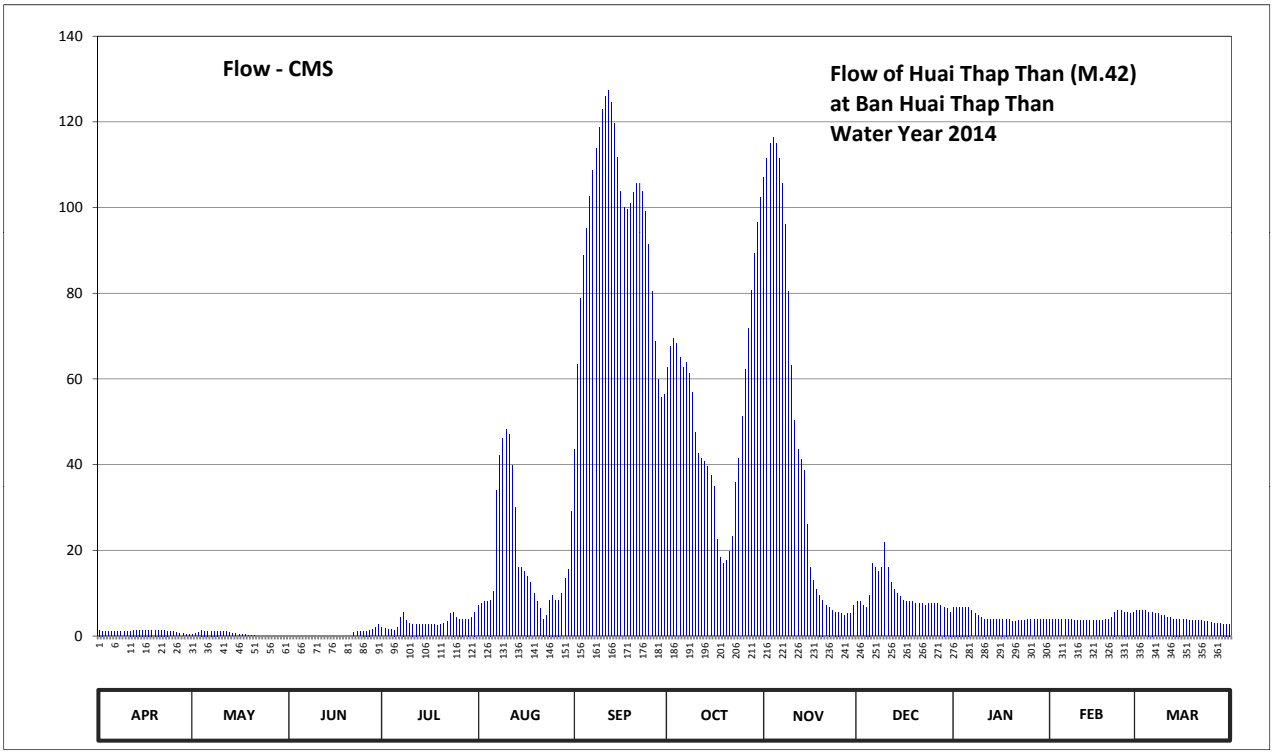
Location : on right bank at the bridge on highway.

	Ban Huai Thap Than	**Amphoe** Huai Thap Thun	**Changwat** Si Sa Ket
Drainge Area	2,832 sq.km.		
Type of Gage	Water - stage recorder.		
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**	+130.445 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 - 1981, 1987 to date		
Rated by Flot	-		
Rated by Current Meter	1972 - 1981, 1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No 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 42 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.17	122.12	122.07	122.20	122.38	123.63	124.64	126.46	122.40	122.37	122.29	122.35	
2	122.16	122.13	122.06	122.19	122.39	124.67	124.88	126.64	122.40	122.37	122.29	122.35	
3	122.15	122.14	122.04	122.18	122.40	125.33	124.96	126.78	122.38	122.37	122.29	122.35	
4	122.15	122.17	122.03	122.18	122.40	125.73	124.91	126.83	122.37	122.37	122.29	122.35	
5	122.15	122.16	122.02	122.17	122.41	125.98	124.75	126.78	122.44	122.37	122.29	122.34	
6	122.15	122.16	122.03	122.20	122.46	126.28	124.64	126.64	122.60	122.37	122.29	122.34	
7	122.15	122.16	122.02	122.31	122.80	126.53	124.69	126.40	122.58	122.35	122.29	122.33	
8	122.15	122.16	122.02	122.34	123.54	126.73	124.56	126.02	122.56	122.33	122.29	122.33	
9	122.15	122.16	122.04	122.28	123.81	126.93	124.34	125.40	122.58	122.32	122.28	122.32	
10	122.15	122.15	122.03	122.25	123.91	127.10	123.88	124.66	122.67	122.31	122.28	122.32	
11	122.16	122.15	122.02	122.24	123.85	127.20	123.57	124.02	122.58	122.30	122.28	122.31	
12	122.17	122.15	122.03	122.24	123.38	127.24	123.50	123.64	122.51	122.29	122.28	122.31	
13	122.17	122.14	122.05	122.23	122.76	127.15	123.45	123.48	122.47	122.29	122.28	122.30	
14	122.17	122.13	122.06	122.24	122.58	126.96	123.35	123.26	122.45	122.29	122.28	122.30	
15	122.17	122.13	122.07	122.23	122.58	126.65	123.15	122.72	122.43	122.29	122.28	122.30	
16	122.17	122.12	122.07	122.23	122.56	126.33	122.90	122.58	122.41	122.29	122.28	122.29	
17	122.17	122.12	122.08	122.23	122.54	126.18	122.68	122.52	122.40	122.30	122.28	122.29	
18	122.17	122.12	122.07	122.23	122.51	126.16	122.62	122.47	122.40	122.30	122.28	122.28	
19	122.17	122.11	122.08	122.22	122.45	126.22	122.60	122.44	122.40	122.29	122.29	122.28	
20	122.17	122.11	122.08	122.23	122.40	126.32	122.61	122.41	122.39	122.27	122.29	122.28	
21	122.17	122.11	122.10	122.25	122.36	126.40	122.64	122.38	122.39	122.27	122.31	122.28	
22	122.17	122.10	122.14	122.27	122.30	126.41	122.69	122.37	122.39	122.28	122.34	122.28	
23	122.16	122.09	122.15	122.33	122.32	126.33	122.98	122.35	122.38	122.28	122.35	122.27	
24	122.15	122.08	122.15	122.34	122.41	126.14	123.50	122.34	122.39	122.28	122.35	122.27	
25	122.15	122.08	122.16	122.31	122.44	125.84	124.07	122.34	122.39	122.29	122.34	122.26	
26	122.14	122.07	122.16	122.30	122.41	125.40	124.61	122.33	122.39	122.29	122.34	122.25	
27	122.13	122.07	122.17	122.30	122.41	124.93	125.05	122.32	122.39	122.29	122.33	122.25	
28	122.13	122.07	122.18	122.29	122.45	124.50	125.41	122.33	122.38	122.29	122.34	122.25	
29	122.12	122.06	122.20	122.30	122.53	124.29	125.75	122.33	122.37	122.29		122.24	
30	122.12	122.07	122.23	122.31	122.57	124.32	126.04	122.38	122.36	122.29		122.24	
31		122.08		122.34	122.75		126.27		122.34	122.29		122.24	
Mean	122.16	122.12	122.09	122.26	122.68	126.00	124.05	123.85	122.44	122.31	122.30	122.30	
Max	122.17	122.17	122.23	122.34	123.91	127.24	126.27	126.83	122.67	122.37	122.35	122.35	127.24
Min	122.12	122.06	122.02	122.17	122.30	123.63	122.60	122.32	122.34	122.27	122.28	122.24	122.02

Annual Max Momentary Gage Height	127.24	m. (MSL.) ,	at 06.00 Hours , on Sep 12 , 2014		
Zero Gage at Bottom Elevation	118.85	m. (MSL.) ,	River Bed	117.86	m. (MSL.)
Left Bank Elevation	130.25	m. (MSL.) ,			
Right Bank Elevation	130.25	m. (MSL.) ,	Drainage Area	2832	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	0.40	0.00	2.00	7.20	43.45	62.80	107.00	8.00	6.80	3.80	6.00		
2	1.20	0.60	0.00	1.80	7.60	63.40	67.60	111.50	8.00	6.80	3.80	6.00		
3	1.00	0.80	0.00	1.60	8.00	78.75	69.50	115.00	7.20	6.80	3.80	6.00		
4	1.00	1.40	0.00	1.60	8.00	88.75	68.25	116.25	6.80	6.80	3.80	6.00		
5	1.00	1.20	0.00	1.40	8.40	95.00	65.00	115.00	9.60	6.80	3.80	5.60		
6	1.00	1.20	0.00	2.00	10.40	102.50	62.80	111.50	17.00	6.80	3.80	5.60		
7	1.00	1.20	0.00	4.40	34.00	108.75	63.80	105.50	16.00	6.00	3.80	5.20		
8	1.00	1.20	0.00	5.60	42.10	113.75	61.20	96.00	15.00	5.20	3.80	5.20		
9	1.00	1.20	0.00	3.60	46.20	118.75	56.80	80.50	16.00	4.80	3.60	4.80		
10	1.00	1.00	0.00	3.00	48.20	123.00	47.60	63.20	21.90	4.40	3.60	4.80		
11	1.20	1.00	0.00	2.80	47.00	126.00	42.55	50.40	16.00	4.00	3.60	4.40		
12	1.40	1.00	0.00	2.80	39.80	127.20	41.50	43.60	12.50	3.80	3.60	4.40		
13	1.40	0.80	0.00	2.60	30.00	124.50	40.75	41.20	10.80	3.80	3.60	4.00		
14	1.40	0.60	0.00	2.80	16.00	119.50	39.50	38.60	10.00	3.80	3.60	4.00		
15	1.40	0.60	0.00	2.60	16.00	111.75	37.50	26.00	9.20	3.80	3.60	4.00		
16	1.40	0.40	0.00	2.60	15.00	103.75	35.00	16.00	8.40	3.80	3.60	3.80		
17	1.40	0.40	0.00	2.60	14.00	100.00	22.60	13.00	8.00	4.00	3.60	3.80		
18	1.40	0.40	0.00	2.60	12.50	99.50	18.40	10.80	8.00	4.00	3.60	3.60		
19	1.40	0.20	0.00	2.40	10.00	101.00	17.00	9.60	8.00	3.80	3.80	3.60		
20	1.40	0.20	0.00	2.60	8.00	103.50	17.70	8.40	7.60	3.40	3.80	3.60		
21	1.40	0.20	0.00	3.00	6.40	105.50	19.80	7.20	7.60	3.40	4.40	3.60		
22	1.40	0.00	0.80	3.40	4.00	105.75	23.30	6.80	7.60	3.60	5.60	3.60		
23	1.20	0.00	1.00	5.20	4.80	103.75	35.80	6.00	7.20	3.60	6.00	3.40		
24	1.00	0.00	1.00	5.60	8.40	99.00	41.50	5.60	7.60	3.60	6.00	3.40		
25	1.00	0.00	1.20	4.40	9.60	91.50	51.40	5.60	7.60	3.80	5.60	3.20		
26	0.80	0.00	1.20	4.00	8.40	80.50	62.20	5.20	7.60	3.80	5.60	3.00		
27	0.60	0.00	1.40	4.00	8.40	68.75	71.75	4.80	7.60	3.80	5.20	3.00		
28	0.60	0.00	1.60	3.80	10.00	60.00	80.75	5.20	7.20	3.80	5.60	3.00		
29	0.40	0.00	2.00	4.00	13.50	55.80	89.25	5.20	6.80	3.80		2.80		
30	0.40	0.00	2.60	4.40	15.50	56.40	96.50	7.20	6.40	3.80		2.80		
31		0.00		5.60	29.00		102.25		5.60	3.80		2.80		
Total	33.20	16.00	12.80	100.80	546.40	2879.75	1612.35	1337.85	302.80	140.20	118.00	129.00	7229.15	CMSDAY
Mean	1.11	0.52	0.43	3.25	17.63	95.99	52.01	44.59	9.77	4.52	4.21	4.16	19.81	CMS
Max	1.40	1.40	2.60	5.60	48.20	127.20	102.25	116.25	21.90	6.80	6.00	6.00	127.20	CMS
Min	0.40	0.00	0.00	1.40	4.00	43.45	17.00	4.80	5.60	3.40	3.60	2.80	0.00	CMS
Runoff	2.87	1.38	1.11	8.71	47.21	248.81	139.31	115.59	26.16	12.11	10.20	11.15	624.60	MCM

Momentary Peak 127.20 CMS. at 127.24 m. (MSL.) at 06.00 Hours , on Sep 12 , 2014

Runoff Yield 6.99 Liters/Second/Square KM. Momentary Peak Yield 44.915 Liters/Second/Square KM.

WATER YEAR : 2014

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

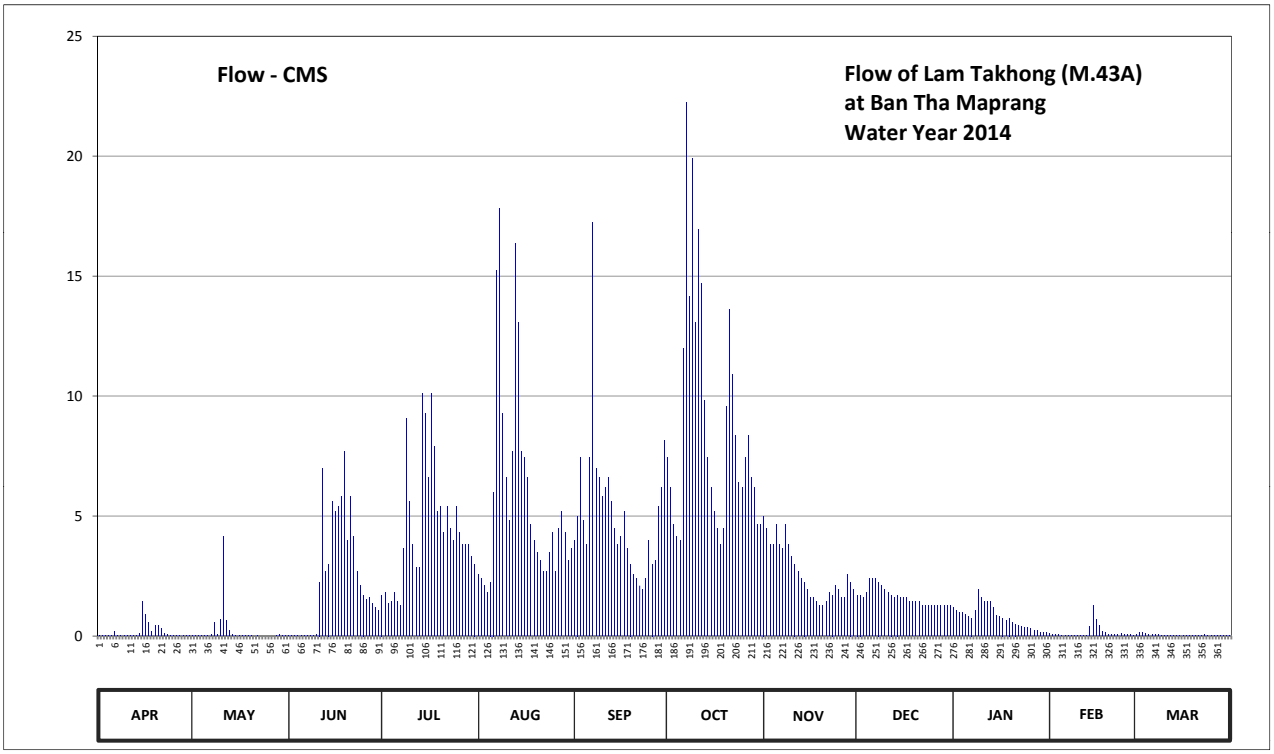
Ban Tha Maprang **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima

Drainge Area	153 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+372.540 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank downstream at the footpath of the bridge. **Elevation** +378.675 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1989 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situated above gage site. Stage-discharge relation defined by 36 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.20	372.18	372.24	372.59	372.65	372.74	372.92	372.80	372.59	372.53	372.31	372.29	
2	372.17	372.18	372.24	372.60	372.64	372.80	372.86	372.77	372.59	372.52	372.30	372.32	
3	372.16	372.17	372.24	372.55	372.62	372.92	372.78	372.73	372.58	372.51	372.29	372.32	
4	372.15	372.16	372.21	372.56	372.60	372.79	372.75	372.73	372.60	372.51	372.27	372.31	
5	372.24	372.14	372.15	372.60	372.63	372.73	372.74	372.78	372.64	372.50	372.25	372.30	
6	372.34	372.14	372.18	372.56	372.85	372.92	373.10	372.73	372.64	372.48	372.25	372.29	
7	372.18	372.27	372.16	372.54	373.22	373.29	373.45	372.72	372.64	372.47	372.23	372.29	
8	372.18	372.43	372.16	372.72	373.31	372.90	373.18	372.78	372.63	372.52	372.22	372.27	
9	372.19	372.29	372.17	372.99	373.00	372.88	373.38	372.73	372.62	372.61	372.21	372.24	
10	372.18	372.46	372.28	372.83	372.88	372.84	373.14	372.70	372.61	372.58	372.19	372.22	
11	372.14	372.75	372.63	372.73	372.79	372.86	373.28	372.68	372.60	372.56	372.18	372.20	
12	372.13	372.45	372.90	372.67	372.93	372.88	373.20	372.66	372.59	372.56	372.18	372.16	
13	372.13	372.35	372.66	372.67	373.26	372.83	373.02	372.64	372.58	372.56	372.21	372.17	
14	372.31	372.29	372.68	373.03	373.14	372.77	372.92	372.63	372.59	372.53	372.40	372.24	
15	372.56	372.19	372.83	373.00	372.93	372.73	372.86	372.61	372.58	372.49	372.54	372.24	
16	372.50	372.17	372.81	372.88	372.92	372.75	372.81	372.58	372.58	372.48	372.46	372.22	
17	372.43	372.15	372.82	373.03	372.88	372.81	372.77	372.58	372.58	372.47	372.41	372.22	
18	372.34	372.18	372.84	372.94	372.78	372.72	372.73	372.56	372.56	372.45	372.34	372.19	
19	372.41	372.16	372.93	372.81	372.74	372.68	372.77	372.54	372.56	372.47	372.32	372.18	
20	372.41	372.13	372.74	372.82	372.71	372.65	373.01	372.54	372.56	372.43	372.30	372.21	
21	372.37	372.12	372.84	372.76	372.69	372.64	373.16	372.56	372.56	372.42	372.28	372.16	
22	372.31	372.14	372.75	372.82	372.66	372.62	373.06	372.60	372.54	372.41	372.29	372.21	
23	372.28	372.12	372.66	372.77	372.66	372.61	372.96	372.59	372.54	372.40	372.29	372.27	
24	372.25	372.12	372.62	372.74	372.71	372.64	372.87	372.62	372.54	372.39	372.31	372.24	
25	372.24	372.11	372.59	372.82	372.76	372.74	372.86	372.61	372.54	372.39	372.28	372.22	
26	372.20	372.09	372.57	372.76	372.66	372.68	372.92	372.58	372.54	372.37	372.28	372.21	
27	372.18	372.10	372.58	372.73	372.77	372.69	372.96	372.58	372.54	372.35	372.27	372.21	
28	372.19	372.25	372.55	372.73	372.81	372.82	372.88	372.65	372.54	372.35	372.25	372.21	
29	372.25	372.27	372.53	372.73	372.76	372.86	372.86	372.63	372.54	372.33		372.21	
30	372.26	372.22	372.52	372.70	372.69	372.95	372.78	372.61	372.54	372.33		372.21	
31		372.23		372.68	372.72		372.78		372.54	372.32		372.20	
Mean	372.26	372.23	372.54	372.75	372.82	372.79	372.96	372.65	372.58	372.46	372.29	372.23	
Max	372.56	372.75	372.93	373.03	373.31	373.29	373.45	372.80	372.64	372.61	372.54	372.32	373.45
Min	372.13	372.09	372.15	372.54	372.60	372.61	372.73	372.54	372.54	372.32	372.18	372.16	372.09

Annual Max Momentary Gage Height	373.74	m. (MSL.) ,	at 06.00 Hours , on Oct 7 , 2014		
Zero Gage at Bottom Elevation	372.54	m. (MSL.) ,	River Bed	371.75	m. (MSL.)
Left Bank Elevation	378.40	m. (MSL.) ,			
Right Bank Elevation	378.39	m. (MSL.) ,	Drainage Area	153	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	0.02	0.04	1.71	2.55	3.98	7.46	5.00	1.71	1.17	0.09	0.06		
2	0.01	0.02	0.04	1.80	2.40	5.00	6.20	4.49	1.71	1.08	0.06	0.13		
3	0.01	0.01	0.04	1.35	2.10	7.46	4.66	3.81	1.62	0.99	0.06	0.13		
4	0.01	0.01	0.02	1.44	1.80	4.83	4.15	3.81	1.80	0.99	0.05	0.09		
5	0.04	0.01	0.01	1.80	2.25	3.81	3.98	4.66	2.40	0.90	0.04	0.06		
6	0.20	0.01	0.02	1.44	6.00	7.46	12.00	3.81	2.40	0.80	0.04	0.06		
7	0.02	0.05	0.01	1.26	15.26	17.22	22.25	3.64	2.40	0.75	0.03	0.06		
8	0.02	0.55	0.01	3.64	17.80	7.00	14.16	4.66	2.25	1.08	0.03	0.05		
9	0.02	0.06	0.01	9.07	9.30	6.60	19.90	3.81	2.10	1.95	0.02	0.04		
10	0.02	0.70	0.05	5.60	6.60	5.80	13.08	3.30	1.95	1.62	0.02	0.03		
11	0.01	4.15	2.25	3.81	4.83	6.20	16.94	3.00	1.80	1.44	0.02	0.02		
12	0.01	0.65	7.00	2.85	7.69	6.60	14.70	2.70	1.71	1.44	0.02	0.01		
13	0.01	0.23	2.70	2.85	16.38	5.60	9.84	2.40	1.62	1.44	0.02	0.01		
14	0.09	0.06	3.00	10.11	13.08	4.49	7.46	2.25	1.71	1.17	0.40	0.04		
15	1.44	0.02	5.60	9.30	7.69	3.81	6.20	1.95	1.62	0.85	1.26	0.04		
16	0.90	0.01	5.20	6.60	7.46	4.15	5.20	1.62	1.62	0.80	0.70	0.03		
17	0.55	0.01	5.40	10.11	6.60	5.20	4.49	1.62	1.62	0.75	0.45	0.03		
18	0.20	0.02	5.80	7.92	4.66	3.64	3.81	1.44	1.44	0.65	0.20	0.02		
19	0.45	0.01	7.69	5.20	3.98	3.00	4.49	1.26	1.44	0.75	0.13	0.02		
20	0.45	0.01	3.98	5.40	3.47	2.55	9.57	1.26	1.44	0.55	0.06	0.02		
21	0.30	0.00	5.80	4.32	3.15	2.40	13.62	1.44	1.44	0.50	0.05	0.01		
22	0.09	0.01	4.15	5.40	2.70	2.10	10.92	1.80	1.26	0.45	0.06	0.02		
23	0.05	0.00	2.70	4.49	2.70	1.95	8.38	1.71	1.26	0.40	0.06	0.05		
24	0.04	0.00	2.10	3.98	3.47	2.40	6.40	2.10	1.26	0.37	0.09	0.04		
25	0.04	0.00	1.71	5.40	4.32	3.98	6.20	1.95	1.26	0.37	0.05	0.03		
26	0.02	0.00	1.53	4.32	2.70	3.00	7.46	1.62	1.26	0.30	0.05	0.02		
27	0.02	0.00	1.62	3.81	4.49	3.15	8.38	1.62	1.26	0.23	0.05	0.02		
28	0.02	0.04	1.35	3.81	5.20	5.40	6.60	2.55	1.26	0.23	0.04	0.02		
29	0.04	0.05	1.17	3.81	4.32	6.20	6.20	2.25	1.26	0.16		0.02		
30	0.04	0.03	1.08	3.30	3.15	8.15	4.66	1.95	1.26	0.16		0.02		
31		0.03		3.00	3.64		4.66		1.26	0.13		0.02		
Total	5.14	6.77	72.08	138.90	181.74	153.13	274.02	79.48	50.40	24.47	4.15	1.22	991.50	CMSDAY
Mean	0.17	0.22	2.40	4.48	5.86	5.10	8.84	2.65	1.63	0.79	0.15	0.04	2.72	CMS
Max	1.44	4.15	7.69	10.11	17.80	17.22	22.25	5.00	2.40	1.95	1.26	0.13	22.25	CMS
Min	0.01	0.00	0.01	1.26	1.80	1.95	3.81	1.26	1.26	0.13	0.02	0.01	0.00	CMS
Runoff	0.44	0.59	6.23	12.00	15.70	13.23	23.68	6.87	4.36	2.11	0.36	0.11	85.67	MCM

Momentary Peak 32.40 CMS. at 373.74 m. (MSL.) at 06.00 Hours , on Oct 7 , 2014

Runoff Yield 17.75 Liters/Second/Square KM. Momentary Peak Yield 211.765 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

Lat 15 - 30 - 08 N Long 104 - 58 - 10 E

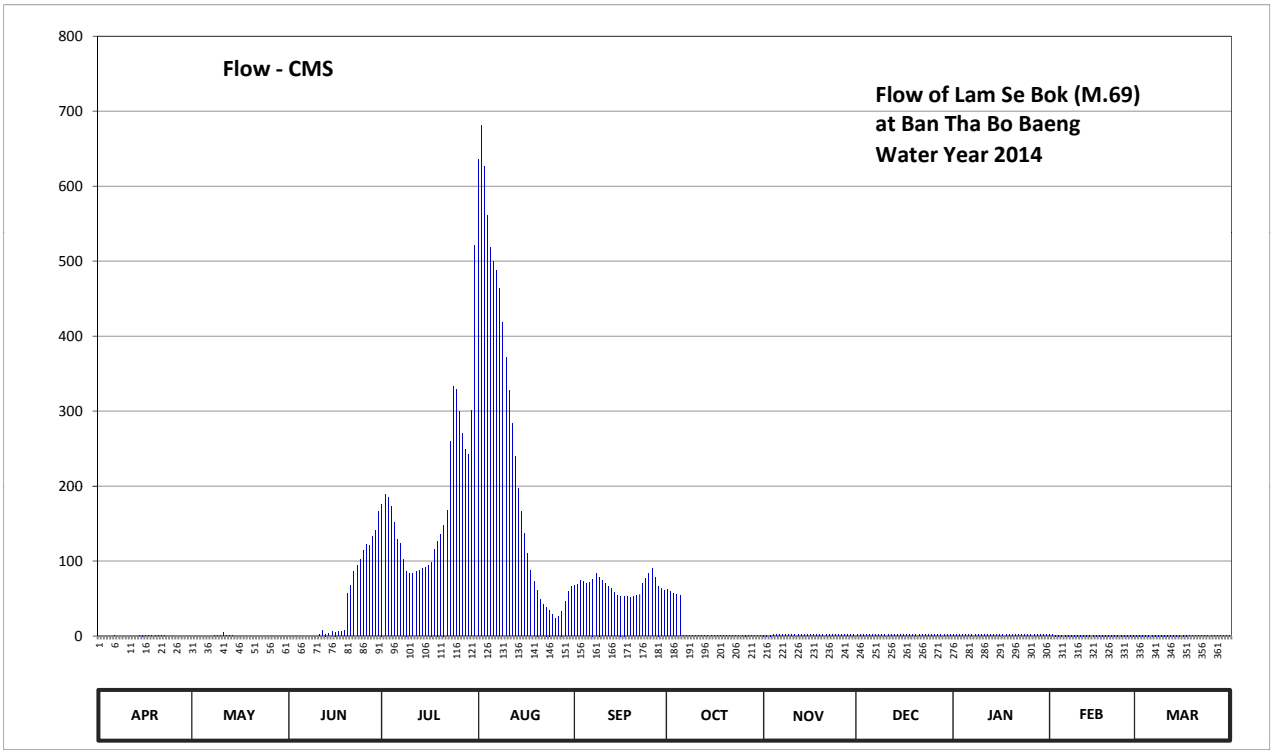
Location : on left bank about 100 meters upstream from the bridge of Ubon - Trakan Phutphon Highway.

	Ban Tha Bo Baeng	**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	At the automatic gage building.			**Elevation**	+117.491 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 Flot	-				
Rated by Current Meter	1971 to date				
Stability of Channel Regimes	Rather unstable because of backwater effect				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good. Stage-discharge relation defined by 60 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.45	109.93	109.83	112.94	116.70	110.17	109.99	110.96	111.99	111.90	111.43	111.12	
2	110.45	109.91	109.83	113.17	116.89	110.22	109.92	111.14	111.99	111.89	111.42	111.10	
3	110.44	109.90	109.82	113.10	116.66	110.40	109.83	111.30	111.99	111.89	111.40	111.08	
4	110.43	109.88	109.82	112.88	116.34	110.37	109.78	111.47	111.99	111.88	111.39	111.06	
5	110.41	109.87	109.81	112.44	116.10	110.28	109.75	111.62	111.99	111.86	111.37	111.04	
6	110.39	109.86	109.80	111.96	116.00	110.32	109.82	111.68	111.99	111.85	111.34	111.02	
7	110.37	109.86	109.80	111.84	115.93	110.47	110.26	111.80	111.99	111.83	111.33	111.00	
8	110.34	109.85	109.81	111.30	115.80	110.73	110.54	111.89	111.99	111.82	111.32	110.99	
9	110.30	109.85	109.80	110.83	115.52	110.56	110.63	111.95	111.99	111.80	111.30	110.98	
10	110.26	109.87	109.79	110.71	115.21	110.39	110.48	112.01	111.99	111.77	111.29	110.95	
11	110.24	109.91	109.79	110.73	114.84	110.25	110.48	112.04	111.98	111.76	111.28	110.93	
12	110.23	109.92	109.78	110.80	114.42	110.15	110.51	112.06	111.98	111.74	111.26	110.91	
13	110.22	109.93	109.77	110.86	113.90	110.03	110.55	112.09	111.97	111.72	111.24	110.89	
14	110.21	109.93	109.76	110.92	113.30	109.87	110.56	112.11	111.97	111.69	111.22	110.87	
15	110.21	109.93	109.75	110.98	112.73	109.73	110.51	112.12	111.97	111.68	111.20	110.85	
16	110.20	109.93	109.74	111.06	112.15	109.71	110.49	112.13	111.96	111.67	111.19	110.84	
17	110.19	109.93	109.74	111.22	111.49	109.71	110.58	112.14	111.96	111.65	111.19	110.82	
18	110.17	109.93	109.73	111.63	110.85	109.69	110.62	112.14	111.96	111.63	111.16	110.79	
19	110.15	109.93	109.73	111.92	110.37	109.66	110.51	112.15	111.95	111.62	111.13	110.76	
20	110.13	109.91	109.81	112.14	109.98	109.68	110.51	112.15	111.94	111.60	111.10	110.74	
21	110.11	109.88	110.18	112.38	109.55	109.73	110.55	112.16	111.94	111.59	111.09	110.74	
22	110.09	109.85	110.79	112.76	109.28	109.79	110.58	112.16	111.93	111.57	111.12	110.73	
23	110.07	109.84	111.08	114.14	109.14	110.25	110.63	112.13	111.92	111.55	111.12	110.73	
24	110.04	109.85	111.29	114.89	108.94	110.50	110.66	112.10	111.92	111.53	111.13	110.73	
25	110.02	109.88	111.61	114.85	108.63	110.73	110.74	112.06	111.90	111.52	111.13	110.71	
26	110.01	109.89	111.80	114.60	108.37	110.92	110.86	112.03	111.90	111.50	111.13	110.67	
27	109.99	109.89	111.77	114.27	108.48	110.52	110.78	112.01	111.90	111.49	111.13	110.64	
28	109.97	109.89	112.06	114.02	108.87	110.16	110.73	111.99	111.90	111.48	111.13	110.62	
29	109.96	109.88	112.24	113.93	109.46	110.06	110.74	111.98	111.90	111.47		110.61	
30	109.95	109.87	112.74	114.61	109.92	109.96	110.77	111.99	111.90	111.46		110.61	
31		109.84		116.12	110.15		110.80		111.90	111.44		110.60	
Mean	110.20	109.89	110.38	112.58	112.45	110.17	110.46	111.92	111.95	111.67	111.23	110.84	
Max	110.45	109.93	112.74	116.12	116.89	110.92	110.86	112.16	111.99	111.90	111.43	111.12	116.89
Min	109.95	109.84	109.73	110.71	108.37	109.66	109.75	110.96	111.90	111.44	111.09	110.60	108.37

Annual Max Momentary Gage Height	116.93	m. (MSL.) ,	at 07.00 Hours , on Aug 2, 2014		
Zero Gage at Bottom Elevation	106.04	m. (MSL.) ,	River Bed	106.49	M (MSL)
Left Bank Elevation	117.24	m. (MSL.) ,			
Right Bank Elevation	117.22	m. (MSL.) ,	Drainage Area	2129	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	0.02	0.04	176.00	635.00	67.10	61.70	1.39	1.75	1.71	1.55	1.44		
2	0.01	0.02	0.04	189.20	680.60	68.60	59.60	1.45	1.75	1.71	1.55	1.43		
3	0.01	0.01	0.04	185.00	626.60	74.00	56.90	1.51	1.75	1.71	1.54	1.43		
4	0.01	0.01	0.02	173.00	561.20	73.10	55.40	1.56	1.75	1.71	1.54	1.42		
5	0.04	0.01	0.01	151.00	518.00	70.40	54.50	1.62	1.75	1.70	1.53	1.41		
6	0.20	0.01	0.02	128.40	500.00	71.60	0.99	1.64	1.75	1.70	1.52	1.41		
7	0.02	0.05	0.01	123.60	487.40	76.10	1.14	1.68	1.75	1.69	1.52	1.40		
8	0.02	0.55	0.01	102.00	464.00	83.90	1.24	1.71	1.75	1.69	1.51	1.40		
9	0.02	0.06	0.01	86.90	418.00	78.80	1.27	1.73	1.75	1.68	1.51	1.39		
10	0.02	0.70	0.05	83.30	371.50	73.70	1.22	1.75	1.75	1.67	1.50	1.38		
11	0.01	4.15	2.25	83.90	327.60	69.50	1.22	1.76	1.74	1.67	1.50	1.38		
12	0.01	0.65	7.00	86.00	283.80	66.50	1.23	1.77	1.74	1.66	1.49	1.37		
13	0.01	0.23	2.70	87.80	240.00	62.90	1.24	1.78	1.74	1.65	1.48	1.36		
14	0.09	0.06	3.00	89.60	197.00	58.10	1.25	1.79	1.74	1.64	1.48	1.35		
15	1.44	0.02	5.60	91.40	165.50	53.90	1.23	1.79	1.74	1.64	1.47	1.35		
16	0.90	0.01	5.20	93.80	136.50	53.30	1.22	1.80	1.74	1.63	1.47	1.34		
17	0.55	0.01	5.40	98.80	109.60	53.30	1.25	1.80	1.74	1.63	1.47	1.34		
18	0.20	0.02	5.80	115.20	87.50	52.70	1.27	1.80	1.74	1.62	1.46	1.33		
19	0.45	0.01	7.69	126.80	73.10	51.80	1.23	1.80	1.73	1.62	1.45	1.32		
20	0.45	0.01	56.30	136.00	61.40	52.40	1.23	1.80	1.73	1.61	1.43	1.31		
21	0.30	0.00	67.40	148.00	48.50	53.90	1.24	1.81	1.73	1.61	1.43	1.31		
22	0.09	0.01	85.70	167.00	41.60	55.70	1.25	1.81	1.73	1.60	1.44	1.31		
23	0.05	0.00	94.40	259.20	38.80	69.50	1.27	1.80	1.72	1.59	1.44	1.31		
24	0.04	0.00	101.60	333.35	34.80	77.00	1.28	1.78	1.72	1.59	1.45	1.31		
25	0.04	0.00	114.40	328.75	28.60	83.90	1.31	1.77	1.71	1.58	1.45	1.30		
26	0.02	0.00	122.00	300.00	23.40	89.60	1.35	1.76	1.71	1.57	1.45	1.28		
27	0.02	0.00	120.80	270.30	25.60	77.60	1.32	1.75	1.71	1.57	1.45	1.27		
28	0.02	0.04	132.40	249.60	33.40	66.80	1.31	1.75	1.71	1.57	1.45	1.27		
29	0.04	0.05	141.00	242.40	46.00	63.80	1.31	1.74	1.71	1.56		1.26		
30	0.04	0.03	166.00	301.15	59.60	60.80	1.32	1.75	1.71	1.56		1.26		
31		0.03		521.60	66.50		1.33		1.71	1.55		1.26		
Total	5.14	6.77	1246.89	5529.05	7391.10	2010.30	320.62	51.65	53.75	50.69	41.53	41.70	16749.19	CMSDAY
Mean	0.17	0.22	41.56	178.36	238.42	67.01	10.34	1.72	1.73	1.64	1.48	1.35	45.89	CMSDAY
Max	1.44	4.15	166.00	521.60	680.60	89.60	61.70	1.81	1.75	1.71	1.55	1.44	680.60	CMSDAY
Min	0.01	0.00	0.01	83.30	23.40	51.80	0.99	1.39	1.71	1.55	1.43	1.26	0.00	CMSDAY
Runoff	0.44	0.59	107.73	477.71	638.59	173.69	27.70	4.46	4.64	4.38	3.59	3.60	1447.13	MCM

Momentary Peak 690.20 CMS. at 116.93 m. (MSL.) at 07.00 Hours , on Aug 2, 2014

Runoff Yield 21.55 Liters/Second/Square KM. Momentary Peak Yield 324.190 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

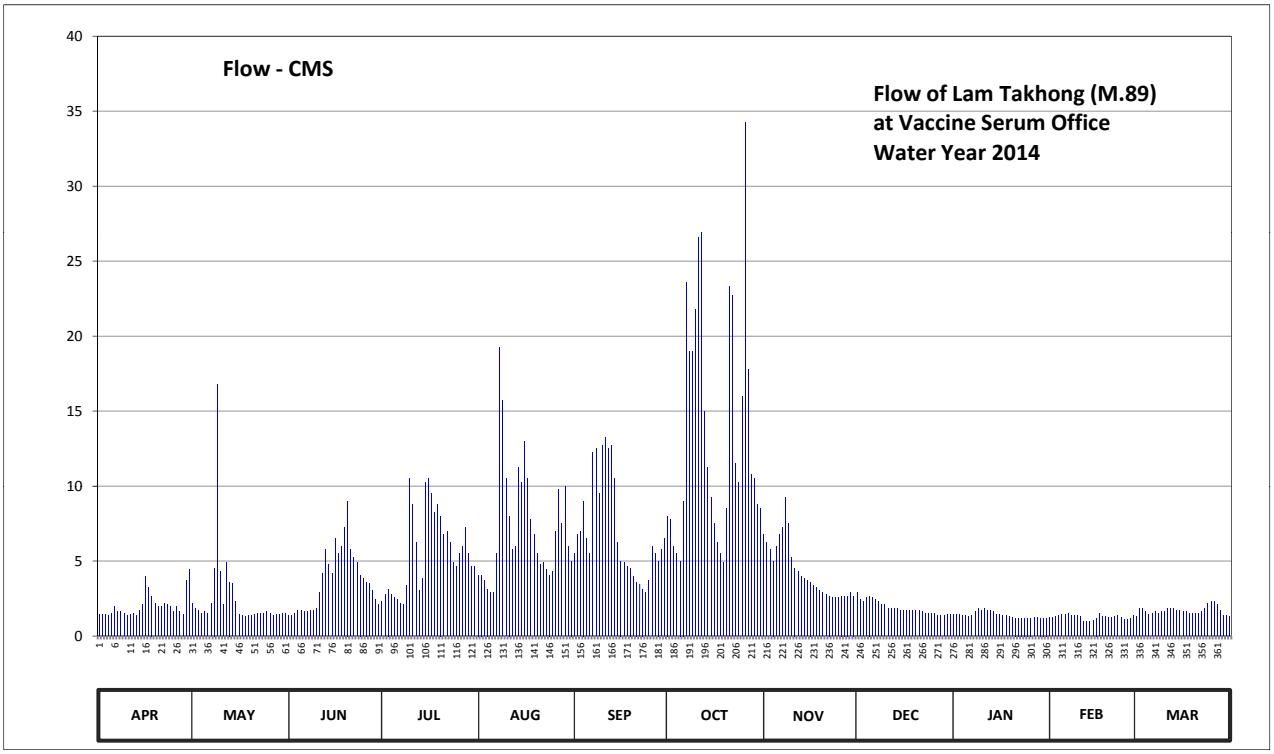
Location : on left bank at the bridge infront of Vaccine Serum Office.

	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**	+299.985 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 Flot	-				
Rated by Current Meter	1971 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good. Stage-discharge relation defined by 50 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.79	292.86	292.78	292.87	293.02	293.12	293.22	293.17	292.92	292.79	292.75	292.76	
2	292.79	292.83	292.78	292.91	293.02	293.17	293.21	293.15	292.88	292.79	292.75	292.83	
3	292.79	292.82	292.80	292.94	292.99	293.18	293.14	293.13	292.87	292.79	292.76	292.83	
4	292.78	292.80	292.82	292.91	292.94	293.26	293.12	293.10	292.89	292.78	292.77	292.81	
5	292.80	292.81	292.82	292.89	292.92	293.16	293.10	293.14	292.90	292.78	292.79	292.79	
6	292.84	292.80	292.81	292.88	292.92	293.12	293.26	293.17	292.89	292.76	292.79	292.80	
7	292.81	292.86	292.81	292.86	293.12	293.39	293.82	293.19	292.88	292.77	292.80	292.81	
8	292.81	293.06	292.82	292.85	293.67	293.40	293.66	293.27	292.87	292.81	292.78	292.80	
9	292.80	293.57	292.82	292.96	293.53	293.28	293.66	293.20	292.85	292.83	292.77	292.81	
10	292.78	293.04	292.83	293.32	293.32	293.41	293.76	293.11	292.85	292.82	292.78	292.81	
11	292.79	292.85	292.92	293.25	293.22	293.43	293.92	293.06	292.83	292.83	292.76	292.83	
12	292.80	293.09	293.03	293.15	293.13	293.40	293.93	293.04	292.83	292.82	292.69	292.83	
13	292.78	292.98	293.13	292.93	293.14	293.41	293.50	293.01	292.83	292.82	292.69	292.83	
14	292.82	292.97	293.08	293.00	293.35	293.32	293.35	293.00	292.83	292.81	292.69	292.82	
15	292.85	292.87	293.03	293.31	293.31	293.15	293.27	292.99	292.82	292.79	292.71	292.82	
16	293.01	292.79	293.16	293.32	293.42	293.10	293.20	292.98	292.82	292.79	292.74	292.81	
17	292.95	292.78	293.12	293.28	293.32	293.09	293.15	292.96	292.82	292.78	292.80	292.81	
18	292.90	292.76	293.14	293.23	293.21	293.07	293.12	292.95	292.82	292.77	292.76	292.80	
19	292.86	292.77	293.19	293.25	293.17	293.06	293.09	292.93	292.82	292.76	292.76	292.80	
20	292.84	292.78	293.26	293.22	293.12	293.01	293.24	292.92	292.82	292.75	292.75	292.80	
21	292.84	292.79	293.13	293.17	293.08	292.98	293.81	292.91	292.82	292.74	292.75	292.80	
22	292.86	292.80	293.11	293.18	293.09	292.97	293.79	292.90	292.81	292.74	292.76	292.81	
23	292.85	292.80	293.09	293.15	293.05	292.94	293.36	292.89	292.80	292.74	292.78	292.83	
24	292.84	292.80	293.02	293.09	293.02	292.92	293.31	292.89	292.80	292.74	292.75	292.86	
25	292.81	292.81	293.00	293.07	293.04	292.99	293.54	292.89	292.80	292.74	292.72	292.87	
26	292.84	292.80	292.98	293.12	293.18	293.14	294.16	292.90	292.80	292.74	292.72	292.87	
27	292.81	292.78	292.97	293.14	293.29	293.12	293.61	292.90	292.78	292.75	292.73	292.85	
28	292.79	292.79	292.93	293.19	293.20	293.10	293.33	292.90	292.78	292.75	292.78	292.82	
29	292.99	292.79	292.88	293.12	293.30	293.13	293.32	292.92	292.78	292.74		292.77	
30	293.05	292.80	292.85	293.07	293.14	293.16	293.25	292.90	292.79	292.74		292.77	
31		292.80		293.07	293.10		293.24		292.79	292.74		292.76	
Mean	292.84	292.87	292.97	293.09	293.17	293.17	293.43	293.02	292.83	292.77	292.75	292.81	
Max	293.05	293.57	293.26	293.32	293.67	293.43	294.16	293.27	292.92	292.83	292.80	292.87	294.16
Min	292.78	292.76	292.78	292.85	292.92	292.92	293.09	292.89	292.78	292.74	292.69	292.76	292.69

Annual Max Momentary Gage Height	294.35	m. (MSL.) ,	at 09.00 Hours , on Oct 26, 2014		
Zero Gage at Bottom Elevation	290.92	m. (MSL.) ,	River Bed	291.28	m. (MSL.)
Left Bank Elevation	299.87	m. (MSL.) ,			
Right Bank Elevation	299.79	m. (MSL.) ,	Drainage Area	713	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.45	2.20	1.40	2.32	4.07	5.50	8.00	6.75	2.90	1.45	1.25	1.30		
2	1.45	1.85	1.40	2.78	4.07	6.75	7.75	6.25	2.43	1.45	1.25	1.85		
3	1.45	1.73	1.50	3.13	3.72	7.00	6.00	5.75	2.32	1.45	1.30	1.85		
4	1.40	1.50	1.73	2.78	3.13	9.00	5.50	5.00	2.55	1.40	1.35	1.62		
5	1.50	1.62	1.73	2.55	2.90	6.50	5.00	6.00	2.67	1.40	1.45	1.45		
6	1.97	1.50	1.62	2.43	2.90	5.50	9.00	6.75	2.55	1.30	1.45	1.50		
7	1.62	2.20	1.62	2.20	5.50	12.25	23.60	7.25	2.43	1.35	1.50	1.62		
8	1.62	4.53	1.73	2.08	19.25	12.50	19.00	9.25	2.32	1.62	1.40	1.50		
9	1.50	16.75	1.73	3.37	15.75	9.50	19.00	7.50	2.08	1.85	1.35	1.62		
10	1.40	4.30	1.85	10.50	10.50	12.75	21.80	5.25	2.08	1.73	1.40	1.62		
11	1.45	2.08	2.90	8.75	8.00	13.25	26.60	4.53	1.85	1.85	1.30	1.85		
12	1.50	4.88	4.18	6.25	5.75	12.50	26.90	4.30	1.85	1.73	0.98	1.85		
13	1.40	3.60	5.75	3.02	6.00	12.75	15.00	3.95	1.85	1.73	0.98	1.85		
14	1.73	3.48	4.77	3.83	11.25	10.50	11.25	3.83	1.85	1.62	0.98	1.73		
15	2.08	2.32	4.18	10.25	10.25	6.25	9.25	3.72	1.73	1.45	1.05	1.73		
16	3.95	1.45	6.50	10.50	13.00	5.00	7.50	3.60	1.73	1.45	1.20	1.62		
17	3.25	1.40	5.50	9.50	10.50	4.88	6.25	3.37	1.73	1.40	1.50	1.62		
18	2.67	1.30	6.00	8.25	7.75	4.65	5.50	3.25	1.73	1.35	1.30	1.50		
19	2.20	1.35	7.25	8.75	6.75	4.53	4.88	3.02	1.73	1.30	1.30	1.50		
20	1.97	1.40	9.00	8.00	5.50	3.95	8.50	2.90	1.73	1.25	1.25	1.50		
21	1.97	1.45	5.75	6.75	4.77	3.60	23.30	2.78	1.73	1.20	1.25	1.50		
22	2.20	1.50	5.25	7.00	4.88	3.48	22.70	2.67	1.62	1.20	1.30	1.62		
23	2.08	1.50	4.88	6.25	4.42	3.13	11.50	2.55	1.50	1.20	1.40	1.85		
24	1.97	1.50	4.07	4.88	4.07	2.90	10.25	2.55	1.50	1.20	1.25	2.20		
25	1.62	1.62	3.83	4.65	4.30	3.72	16.00	2.55	1.50	1.20	1.10	2.32		
26	1.97	1.50	3.60	5.50	7.00	6.00	34.23	2.67	1.50	1.20	1.10	2.32		
27	1.62	1.40	3.48	6.00	9.75	5.50	17.75	2.67	1.40	1.25	1.15	2.08		
28	1.45	1.45	3.02	7.25	7.50	5.00	10.75	2.67	1.40	1.25	1.40	1.73		
29	3.72	1.45	2.43	5.50	10.00	5.75	10.50	2.90	1.40	1.20		1.35		
30	4.42	1.50	2.08	4.65	6.00	6.50	8.75	2.67	1.45	1.20		1.35		
31		1.50		4.65	5.00		8.50		1.45	1.20		1.30		
Total	60.58	77.81	110.73	174.32	224.23	211.09	420.51	128.90	58.56	43.43	35.49	52.30	1597.95	CMSDAY
Mean	2.02	2.51	3.69	5.62	7.23	7.04	13.56	4.30	1.89	1.40	1.27	1.69	4.38	CMS
Max	4.42	16.75	9.00	10.50	19.25	13.25	34.23	9.25	2.90	1.85	1.50	2.32	34.23	CMS
Min	1.40	1.30	1.40	2.08	2.90	2.90	4.88	2.55	1.40	1.20	0.98	1.30	0.98	CMS
Runoff	5.23	6.72	9.57	15.06	19.37	18.24	36.33	11.14	5.06	3.75	3.07	4.52	138.06	MCM

Momentary Peak 41.29 CMS. at 294.35 m. (MSL.) at 09.00 Hours , on Oct 26, 2014

Runoff Yield 6.14 Liters/Second/Square KM. Momentary Peak Yield 57.910 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Sieo Yai at Ban Ku, Roi Et. (M.95)

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

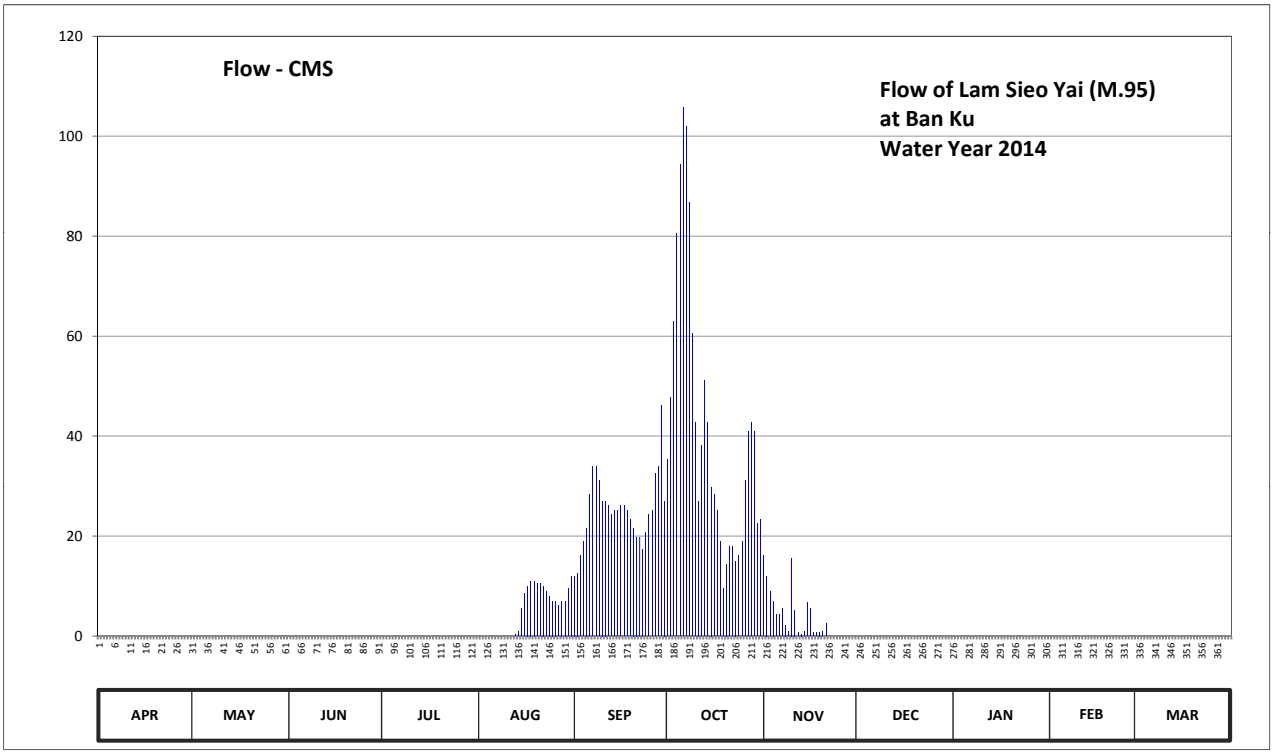
Location : on left bank at the bridge on Highway.

	Ban Ku	**Amphoe** Suwannaphum	**Changwat** Roi Et
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+118.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+124.511 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1978 - 1989, 2005 to date		
Rating Operation			
Period of Rating	1978 - 1989, 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1978 - 1989, 2005 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.19	119.06	118.76	119.05	119.09	120.70	120.96	120.77	120.55	120.30	119.94	119.65	
2	119.19	119.05	118.76	119.05	119.10	120.71	121.04	120.70	120.55	120.28	119.94	119.64	
3	119.19	119.04	118.78	119.04	119.09	120.77	121.12	120.64	120.55	120.27	119.91	119.63	
4	119.18	119.03	118.78	119.03	119.08	120.81	121.19	120.60	120.54	120.25	119.90	119.60	
5	119.18	119.02	118.78	119.02	119.08	120.84	121.23	120.51	120.54	120.25	119.89	119.58	
6	119.17	119.01	118.78	119.02	119.11	120.91	121.26	120.51	120.54	120.23	119.87	119.56	
7	119.17	119.00	118.79	119.02	119.09	120.95	121.25	120.55	120.53	120.22	119.87	119.55	
8	119.16	118.99	118.79	119.01	119.07	120.95	121.21	120.44	120.53	120.21	119.85	119.53	
9	119.16	118.98	118.79	119.01	119.07	120.93	121.11	120.33	120.52	120.18	119.83	119.53	
10	119.15	118.97	118.79	119.01	119.20	120.90	121.01	120.76	120.51	120.17	119.82	119.52	
11	119.15	118.96	118.79	119.01	119.50	120.90	120.90	120.54	120.51	120.16	119.80	119.51	
12	119.15	118.95	118.79	119.01	119.84	120.89	120.98	120.31	120.50	120.15	119.79	119.49	
13	119.13	118.94	118.79	119.01	120.14	120.87	121.06	120.17	120.49	120.14	119.78	119.49	
14	119.13	118.93	118.81	119.05	120.37	120.88	121.01	120.39	120.49	120.14	119.77	119.47	
15	119.12	118.92	118.82	119.05	120.55	120.88	120.92	120.59	120.48	120.13	119.76	119.46	
16	119.12	118.91	118.90	119.04	120.63	120.89	120.91	120.55	120.46	120.11	119.75	119.45	
17	119.12	118.90	118.89	119.03	120.66	120.89	120.88	120.25	120.46	120.10	119.75	119.46	
18	119.11	118.89	118.89	119.02	120.68	120.88	120.81	120.25	120.45	120.10	119.74	119.46	
19	119.11	118.88	118.89	119.01	120.68	120.86	120.65	120.32	120.44	120.08	119.73	119.45	
20	119.10	118.87	118.89	119.01	120.67	120.84	120.74	120.36	120.43	120.06	119.73	119.44	
21	119.10	118.86	118.91	119.01	120.67	120.82	120.80	120.45	120.42	120.05	119.72	119.42	
22	119.09	118.85	118.94	119.03	120.66	120.82	120.80	120.47	120.41	120.05	119.71	119.46	
23	119.09	118.84	118.97	119.06	120.64	120.79	120.75	120.48	120.39	120.03	119.70	119.46	
24	119.08	118.83	118.96	119.07	120.62	120.83	120.77	120.51	120.38	120.02	119.70	119.47	
25	119.08	118.82	118.95	119.07	120.60	120.87	120.81	120.52	120.37	120.01	119.69	119.45	
26	119.07	118.81	118.95	119.06	120.60	120.88	120.93	120.55	120.36	120.01	119.68	119.44	
27	119.07	118.80	118.98	119.08	120.57	120.94	121.00	120.56	120.35	120.00	119.68	119.44	
28	119.07	118.79	118.97	119.08	120.60	120.95	121.01	120.55	120.35	119.99	119.67	119.43	
29	119.06	118.78	118.98	119.10	120.60	121.03	121.00	120.55	120.34	119.99		119.39	
30	119.06	118.77	119.03	119.10	120.65	120.90	120.85	120.55	120.33	119.96		119.38	
31		118.76		119.13	120.70		120.86		120.32	119.96		119.37	
Mean	119.13	118.91	118.86	119.04	120.05	120.87	120.96	120.49	120.45	120.12	119.78	119.49	
Max	119.19	119.06	119.03	119.13	120.70	121.03	121.26	120.77	120.55	120.30	119.94	119.65	121.26
Min	119.06	118.76	118.76	119.01	119.07	120.70	120.65	120.17	120.32	119.96	119.67	119.37	118.76

Annual Max Momentary Gage Height	121.26	m. (MSL.) ,	at 06.00 Hours , on Oct 6 , 2014		
Zero Gage at Bottom Elevation	118.10	m. (MSL.) ,	River Bed	118.48	m. (MSL.)
Left Bank Elevation	124.38	m. (MSL.) ,			
Right Bank Elevation	124.10	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	12.00	35.40	16.20	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	12.60	47.80	12.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	16.20	63.00	9.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	18.90	80.50	7.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	21.60	94.40	4.30	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	28.40	105.80	4.30	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	34.00	102.00	5.50	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	34.00	86.80	2.20	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	31.20	60.50	0.83	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	27.00	42.70	15.60	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	27.00	27.00	5.20	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	26.10	38.20	0.77	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.35	24.30	51.20	0.42	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.93	25.20	42.70	0.97	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	5.50	25.20	29.80	6.70	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	8.50	26.10	28.40	5.50	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	10.00	26.10	25.20	0.62	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	11.00	25.20	18.90	0.62	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	11.00	23.40	9.50	0.80	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	10.50	21.60	14.40	0.90	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	10.50	19.80	18.00	2.50	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	10.00	19.80	18.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	9.00	17.40	15.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	8.00	20.70	16.20	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	7.00	24.30	18.90	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	7.00	25.20	31.20	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	6.10	32.60	41.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	7.00	34.00	42.70	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	7.00	46.10	41.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	9.50	27.00	22.50	0.00	0.00	0.00		0.00		
31		0.00		0.00	12.00		23.40		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	150.88	753.00	1292.10	101.93	0.00	0.00	0.00	0.00	2297.91	CMSDAY
Mean	0.00	0.00	0.00	0.00	4.87	25.10	41.68	3.40	0.00	0.00	0.00	0.00	6.30	CMS
Max	0.00	0.00	0.00	0.00	12.00	46.10	105.80	16.20	0.00	0.00	0.00	0.00	105.80	CMS
Min	0.00	0.00	0.00	0.00	0.00	12.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	13.04	65.06	111.64	8.81	0.00	0.00	0.00	0.00	198.54	MCM

Momentary Peak 105.80 CMS. at 121.26 m. (MSL.) at 06.00 Hours , on Oct 6, 2014

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

WATER YEAR : 2014

MUN RIVER BASIN

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

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

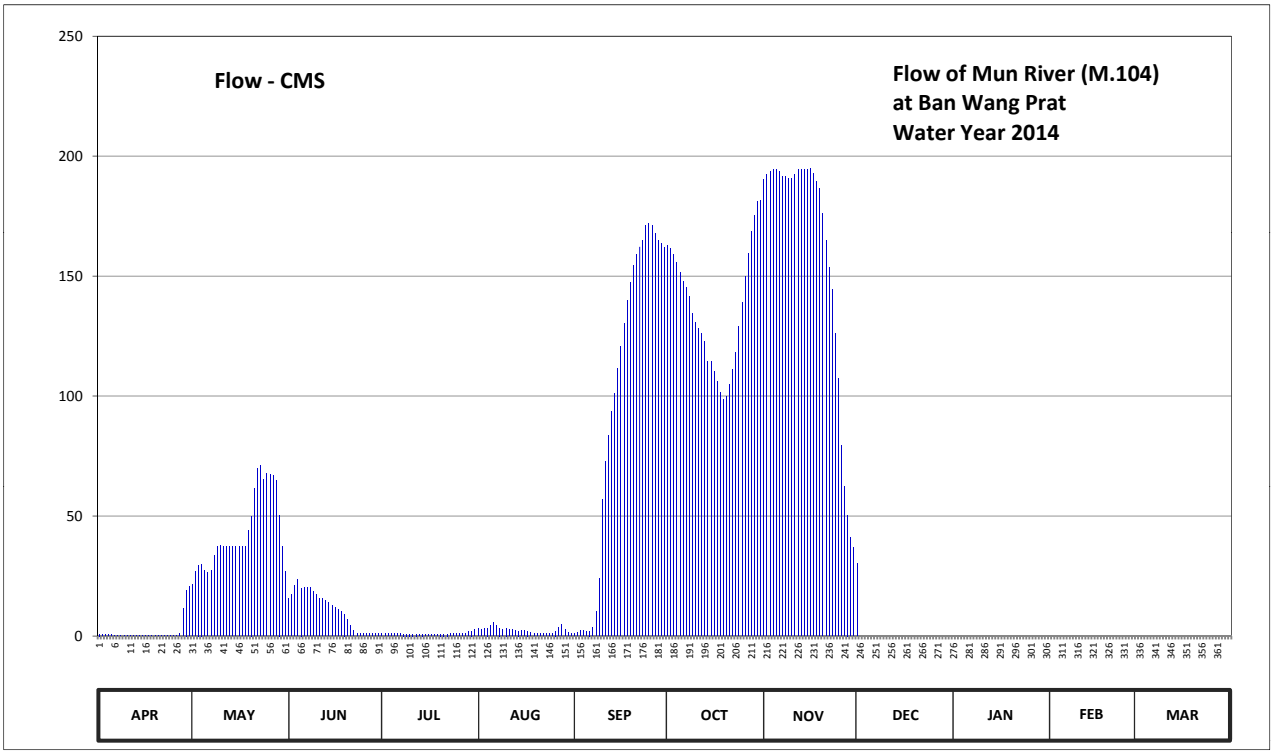
Location : on left bank at the bridge.

	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** +140.339 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.49	131.29	131.14	130.66	130.80	130.67	133.99	134.38	131.51	131.87	131.44	131.02	
2	130.45	131.42	131.18	130.62	130.78	130.71	133.97	134.41	131.64	131.85	131.42	131.01	
3	130.40	131.49	131.28	130.67	130.80	130.77	133.93	134.43	131.80	131.68	131.42	131.01	
4	130.34	131.50	131.34	130.65	130.81	130.76	133.88	134.44	131.98	131.66	131.41	131.00	
5	130.30	131.43	131.25	130.63	130.85	130.74	133.82	134.44	132.11	131.66	131.41	131.00	
6	130.24	131.41	131.26	130.60	130.89	130.75	133.76	134.43	132.13	131.66	131.38	130.99	
7	130.17	131.43	131.26	130.55	130.85	130.82	133.72	134.40	132.19	131.66	131.37	130.99	
8	130.13	131.59	131.26	130.50	130.81	131.01	133.66	134.40	132.29	131.67	131.36	130.98	
9	130.08	131.68	131.21	130.49	130.79	131.35	133.54	134.39	132.23	131.66	131.31	130.93	
10	130.04	131.69	131.18	130.49	130.81	132.10	133.48	134.39	132.21	131.66	131.28	130.88	
11	130.04	131.68	131.14	130.48	130.79	132.42	133.44	134.41	132.20	131.65	131.26	130.88	
12	130.03	131.68	131.14	130.48	130.79	132.63	133.40	134.44	132.19	131.65	131.20	130.87	
13	130.04	131.68	131.12	130.47	130.77	132.83	133.35	134.44	132.20	131.65	131.19	130.85	
14	130.04	131.68	131.10	130.48	130.75	132.98	133.21	134.44	132.18	131.65	131.19	130.84	
15	130.05	131.68	131.07	130.45	130.76	133.16	133.21	134.44	132.16	131.64	131.16	130.85	
16	130.05	131.68	131.05	130.40	130.76	133.31	133.14	134.45	132.14	131.64	131.14	130.85	
17	130.04	131.68	131.03	130.39	130.75	133.47	133.07	134.42	132.13	131.63	131.13	130.84	
18	130.04	131.68	131.01	130.40	130.72	133.63	132.99	134.37	132.11	131.61	131.12	130.84	
19	130.03	131.83	130.98	130.44	130.69	133.75	132.93	134.33	132.10	131.61	131.12	130.83	
20	130.03	131.96	130.92	130.50	130.68	133.86	132.96	134.18	132.13	131.60	131.08	130.83	
21	130.03	132.19	130.85	130.49	130.67	133.93	133.05	134.02	132.13	131.60	131.08	130.83	
22	130.02	132.36	130.76	130.51	130.66	133.98	133.15	133.85	132.14	131.59	131.10	130.83	
23	130.02	132.38	130.70	130.53	130.64	134.02	133.27	133.71	132.14	131.53	131.09	130.83	
24	130.01	132.27	130.69	130.62	130.59	134.11	133.45	133.40	132.13	131.51	131.08	130.79	
25	130.01	132.32	130.62	130.64	130.56	134.12	133.62	133.09	132.12	131.50	131.07	130.79	
26	130.18	132.31	130.60	130.66	130.75	134.11	133.79	132.55	132.12	131.50	131.06	130.78	
27	130.53	132.30	130.58	130.68	130.82	134.06	133.94	132.21	132.12	131.49	131.04	130.76	
28	131.04	132.26	130.55	130.70	130.86	134.02	134.07	131.97	132.12	131.48	131.03	130.76	
29	131.23	131.97	130.55	130.73	130.78	134.00	134.17	131.77	132.12	131.47		130.76	
30	131.27	131.68	130.62	130.75	130.71	133.98	134.25	131.67	132.12	131.46		130.75	
31		131.42		130.79	130.67		134.26		132.11	131.46		130.75	
Mean	130.25	131.79	130.98	130.56	130.75	132.74	133.56	133.88	132.10	131.61	131.21	130.87	
Max	131.27	132.38	131.34	130.79	130.89	134.12	134.26	134.45	132.29	131.87	131.44	131.02	134.45
Min	130.01	131.29	130.55	130.39	130.56	130.67	132.93	131.67	131.51	131.46	131.03	130.75	130.01

Annual Max Momentary Gage Height	134.45	m. (MSL.) ,	at 06.00 Hours , on Nov 14 , 2014		
Zero Gage at Bottom Elevation	129.76	m. (MSL.) ,	River Bed	125.66	m. (MSL.)
Left Bank Elevation	140.33	m. (MSL.) ,			
Right Bank Elevation	140.35	m. (MSL.) ,	Drainage Area	24841	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.84	21.60	15.60	1.13	3.00	1.15	162.85	190.10	30.40	0.00	0.00	0.00		
2	0.77	26.80	17.20	1.06	2.64	1.38	161.55	192.20	0.00	0.00	0.00	0.00		
3	0.69	29.60	21.20	1.15	3.00	2.46	158.95	193.60	0.00	0.00	0.00	0.00		
4	0.58	30.00	23.60	1.11	3.30	2.28	155.70	194.30	0.00	0.00	0.00	0.00		
5	0.51	27.20	20.00	1.08	4.50	1.92	151.80	194.30	0.00	0.00	0.00	0.00		
6	0.41	26.40	20.40	1.03	5.70	2.10	147.90	193.60	0.00	0.00	0.00	0.00		
7	0.29	27.20	20.40	0.94	4.50	3.60	145.30	191.50	0.00	0.00	0.00	0.00		
8	0.22	33.60	20.40	0.86	3.30	10.40	141.60	191.50	0.00	0.00	0.00	0.00		
9	0.14	37.20	18.40	0.84	2.82	24.00	134.40	190.80	0.00	0.00	0.00	0.00		
10	0.07	37.60	17.20	0.84	3.30	57.00	130.80	190.80	0.00	0.00	0.00	0.00		
11	0.07	37.20	15.60	0.82	2.82	73.00	128.40	192.20	0.00	0.00	0.00	0.00		
12	0.05	37.20	15.60	0.82	2.82	83.50	126.00	194.30	0.00	0.00	0.00	0.00		
13	0.07	37.20	14.80	0.81	2.46	93.50	123.00	194.30	0.00	0.00	0.00	0.00		
14	0.07	37.20	14.00	0.82	2.10	101.00	114.60	194.30	0.00	0.00	0.00	0.00		
15	0.09	37.20	12.80	0.77	2.28	111.60	114.60	194.30	0.00	0.00	0.00	0.00		
16	0.09	37.20	12.00	0.69	2.28	120.60	110.40	195.00	0.00	0.00	0.00	0.00		
17	0.07	37.20	11.20	0.67	2.10	130.20	106.20	192.90	0.00	0.00	0.00	0.00		
18	0.07	37.20	10.40	0.69	1.56	139.80	101.50	189.40	0.00	0.00	0.00	0.00		
19	0.05	43.85	9.20	0.75	1.18	147.25	98.50	186.60	0.00	0.00	0.00	0.00		
20	0.05	50.00	6.80	0.86	1.17	154.40	100.00	176.10	0.00	0.00	0.00	0.00		
21	0.05	61.50	4.50	0.84	1.15	158.95	105.00	164.90	0.00	0.00	0.00	0.00		
22	0.03	70.00	2.28	0.87	1.13	162.20	111.00	153.75	0.00	0.00	0.00	0.00		
23	0.03	71.00	1.20	0.91	1.10	164.90	118.20	144.65	0.00	0.00	0.00	0.00		
24	0.02	65.50	1.18	1.06	1.01	171.20	129.00	126.00	0.00	0.00	0.00	0.00		
25	0.02	68.00	1.06	1.10	0.96	171.90	139.20	107.40	0.00	0.00	0.00	0.00		
26	0.31	67.50	1.03	1.13	2.10	171.20	149.85	79.50	0.00	0.00	0.00	0.00		
27	0.91	67.00	0.99	1.17	3.60	167.70	159.60	62.50	0.00	0.00	0.00	0.00		
28	11.60	65.00	0.94	1.20	4.80	164.90	168.40	50.50	0.00	0.00	0.00	0.00		
29	19.20	50.50	0.94	1.74	2.64	163.50	175.40	41.15	0.00	0.00		0.00		
30	20.80	37.20	1.06	2.10	1.38	162.20	181.00	36.80	0.00	0.00		0.00		
31		26.80		2.82	1.15		181.70		0.00	0.00		0.00		
Total	58.17	1338.65	331.98	32.68	77.85	2919.79	4232.40	4799.25	30.40	0.00	0.00	0.00	13821.17	CMSDAY
Mean	1.94	43.18	11.07	1.05	2.51	97.33	136.53	159.98	0.98	0.00	0.00	0.00	37.87	CMS
Max	20.80	71.00	23.60	2.82	5.70	171.90	181.70	195.00	30.40	0.00	0.00	0.00	195.00	CMS
Min	0.02	21.60	0.94	0.67	0.96	1.15	98.50	36.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	5.03	115.66	28.68	2.82	6.73	252.27	365.68	414.66	2.63	0.00	0.00	0.00	1194.15	MCM

Momentary Peak 195.00 CMS. at 134.45 m. (MSL.) at 06.00 Hours , on Nov 14, 2014

Runoff Yield 1.52 Liters/Second/Square KM. Momentary Peak Yield 7.850 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

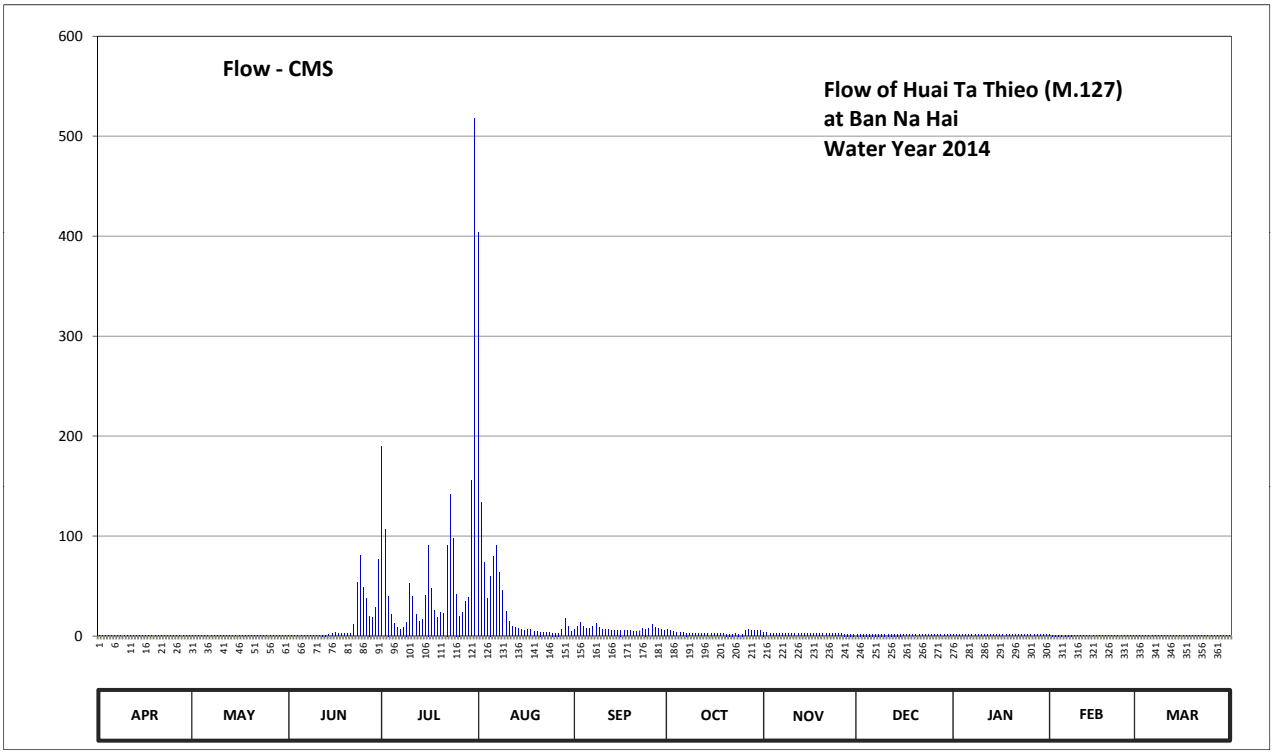
Location : on left bank at the bridge on road.

	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**	+126.877 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 Flot	-		
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 48 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.38	116.30	116.27	121.78	123.44	117.04	117.02	116.89	116.61	116.58	116.44	116.34	
2	116.38	116.32	116.26	120.21	120.84	117.17	116.99	116.81	116.61	116.58	116.43	116.34	
3	116.37	116.33	116.26	118.30	119.26	117.35	116.93	116.77	116.61	116.58	116.43	116.34	
4	116.37	116.34	116.26	117.65	118.22	117.18	116.88	116.76	116.61	116.58	116.42	116.34	
5	116.36	116.36	116.25	117.32	118.87	117.09	116.84	116.76	116.61	116.58	116.42	116.34	
6	116.36	116.37	116.25	117.15	119.43	117.08	116.81	116.75	116.61	116.57	116.41	116.34	
7	116.35	116.38	116.25	117.04	119.75	117.18	116.79	116.74	116.61	116.56	116.41	116.34	
8	116.35	116.38	116.24	117.12	118.97	117.30	116.77	116.72	116.61	116.55	116.40	116.34	
9	116.34	116.39	116.25	117.36	118.45	117.15	116.76	116.70	116.61	116.54	116.39	116.34	
10	116.33	116.39	116.26	118.65	117.77	117.03	116.73	116.68	116.61	116.52	116.39	116.34	
11	116.33	116.39	116.33	118.28	117.38	117.04	116.72	116.68	116.61	116.51	116.38	116.34	
12	116.33	116.39	116.41	117.65	117.18	117.04	116.72	116.67	116.61	116.50	116.38	116.34	
13	116.32	116.39	116.40	117.39	117.12	116.99	116.70	116.67	116.60	116.50	116.37	116.34	
14	116.32	116.39	116.50	117.45	117.07	116.99	116.68	116.66	116.60	116.49	116.37	116.34	
15	116.32	116.38	116.73	118.31	117.02	116.99	116.66	116.67	116.60	116.49	116.36	116.34	
16	116.32	116.38	116.82	119.76	116.99	117.00	116.66	116.66	116.59	116.49	116.36	116.34	
17	116.32	116.37	116.77	118.51	117.04	116.99	116.65	116.66	116.59	116.48	116.36	116.33	
18	116.31	116.34	116.76	117.81	117.04	116.98	116.64	116.66	116.59	116.48	116.36	116.33	
19	116.31	116.31	116.71	117.55	116.95	116.97	116.63	116.65	116.59	116.48	116.36	116.33	
20	116.31	116.28	116.68	117.75	116.92	116.92	116.62	116.65	116.59	116.48	116.36	116.32	
21	116.31	116.29	116.75	117.69	116.90	116.94	116.62	116.65	116.59	116.47	116.35	116.32	
22	116.30	116.28	117.26	119.76	116.85	116.98	116.62	116.64	116.59	116.47	116.35	116.31	
23	116.30	116.28	118.69	121.00	116.82	117.08	116.64	116.64	116.59	116.47	116.35	116.31	
24	116.30	116.27	119.45	119.94	116.81	117.05	116.62	116.64	116.59	116.47	116.35	116.30	
25	116.30	116.27	118.54	118.36	116.79	117.08	116.62	116.63	116.58	116.46	116.34	116.30	
26	116.31	116.27	118.22	117.60	116.79	117.27	116.96	116.63	116.58	116.46	116.34	116.30	
27	116.31	116.30	117.60	117.75	116.80	117.13	117.01	116.62	116.58	116.46	116.34	116.29	
28	116.29	116.32	117.54	118.12	117.01	117.08	116.97	116.62	116.58	116.46	116.34	116.29	
29	116.29	116.30	117.93	118.26	117.51	117.02	116.98	116.62	116.58	116.46		116.29	
30	116.28	116.30	119.35	121.27	117.17	116.99	116.98	116.61	116.58	116.46		116.28	
31		116.29		124.11	116.91		116.98		116.58	116.45		116.28	
Mean	116.33	116.33	117.00	118.61	117.81	117.07	116.78	116.68	116.60	116.50	116.38	116.32	
Max	116.38	116.39	119.45	124.11	123.44	117.35	117.02	116.89	116.61	116.58	116.44	116.34	124.11
Min	116.28	116.27	116.24	117.04	116.79	116.92	116.62	116.61	116.58	116.45	116.34	116.28	116.24

Annual Max Momentary Gage Height	124.12	m. (MSL.) ,	at 12.00 Hours , on Jul 31, 2014			
Zero Gage at Bottom Elevation	115.34	m. (MSL.) ,	River Bed	114.29	m. (MSL.)	
Left Bank Elevation	126.62	m. (MSL.) ,				
Right Bank Elevation	126.60	m. (MSL.) ,	Drainage Area	424	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	0.50	0.35	189.40	403.80	6.80	6.40	3.90	2.05	1.90	1.20	0.70		
2	0.90	0.60	0.30	106.85	134.00	9.40	5.80	3.10	2.05	1.90	1.15	0.70		
3	0.85	0.65	0.30	40.00	73.60	13.75	4.60	2.85	2.05	1.90	1.15	0.70		
4	0.85	0.70	0.30	21.25	37.60	9.60	3.80	2.80	2.05	1.90	1.10	0.70		
5	0.80	0.80	0.25	13.00	59.95	7.80	3.40	2.80	2.05	1.90	1.10	0.70		
6	0.80	0.85	0.25	9.00	79.55	7.60	3.10	2.75	2.05	1.85	1.05	0.70		
7	0.75	0.90	0.25	6.80	90.75	9.60	2.95	2.70	2.05	1.80	1.05	0.70		
8	0.75	0.90	0.20	8.40	63.45	12.50	2.85	2.60	2.05	1.75	1.00	0.70		
9	0.70	0.95	0.25	14.00	45.25	9.00	2.80	2.50	2.05	1.70	0.95	0.70		
10	0.65	0.95	0.30	52.25	24.25	6.60	2.65	2.40	2.05	1.60	0.95	0.70		
11	0.65	0.95	0.65	39.40	14.50	6.80	2.60	2.40	2.05	1.55	0.90	0.70		
12	0.65	0.95	1.05	21.25	9.60	6.80	2.60	2.35	2.05	1.50	0.90	0.70		
13	0.60	0.95	1.00	14.75	8.40	5.80	2.50	2.35	2.00	1.50	0.85	0.70		
14	0.60	0.95	1.50	16.25	7.40	5.80	2.40	2.30	2.00	1.45	0.85	0.70		
15	0.60	0.90	2.65	40.35	6.40	5.80	2.30	2.35	2.00	1.45	0.80	0.70		
16	0.60	0.90	3.20	91.10	5.80	6.00	2.30	2.30	1.95	1.45	0.80	0.70		
17	0.60	0.85	2.85	47.35	6.80	5.80	2.25	2.30	1.95	1.40	0.80	0.65		
18	0.55	0.70	2.80	25.30	6.80	5.60	2.20	2.30	1.95	1.40	0.80	0.65		
19	0.55	0.55	2.55	18.75	5.00	5.40	2.15	2.25	1.95	1.40	0.80	0.65		
20	0.55	0.40	2.40	23.75	4.40	4.40	2.10	2.25	1.95	1.40	0.80	0.60		
21	0.55	0.45	2.75	22.25	4.00	4.80	2.10	2.25	1.95	1.35	0.75	0.60		
22	0.50	0.40	11.50	91.10	3.50	5.60	2.10	2.20	1.95	1.35	0.75	0.55		
23	0.50	0.40	53.65	142.00	3.20	7.60	2.20	2.20	1.95	1.35	0.75	0.55		
24	0.50	0.35	80.25	97.40	3.10	7.00	2.10	2.20	1.95	1.35	0.75	0.50		
25	0.50	0.35	48.40	42.10	2.95	7.60	2.10	2.15	1.90	1.30	0.70	0.50		
26	0.55	0.35	37.60	20.00	2.95	11.75	5.20	2.15	1.90	1.30	0.70	0.50		
27	0.55	0.50	20.00	23.75	3.00	8.60	6.20	2.10	1.90	1.30	0.70	0.45		
28	0.45	0.60	18.50	34.60	6.20	7.60	5.40	2.10	1.90	1.30	0.70	0.45		
29	0.45	0.50	28.90	38.80	17.75	6.40	5.60	2.10	1.90	1.30		0.45		
30	0.40	0.50	76.75	155.50	9.40	5.80	5.60	2.05	1.90	1.30		0.40		
31		0.45		517.70	4.20		5.60		1.90	1.25		0.40		
Total	18.85	20.75	401.70	1984.40	1147.55	223.60	105.95	73.05	61.45	47.15	24.80	19.10	4128.35	CMSDAY
Mean	0.63	0.67	13.39	64.01	37.02	7.45	3.42	2.43	1.98	1.52	0.89	0.62	11.31	CMS
Max	0.90	0.95	80.25	517.70	403.80	13.75	6.40	3.90	2.05	1.90	1.20	0.70	517.70	CMS
Min	0.40	0.35	0.20	6.80	2.95	4.40	2.10	2.05	1.90	1.25	0.70	0.40	0.20	CMS
Runoff	1.63	1.79	34.71	171.45	99.15	19.32	9.15	6.31	5.31	4.07	2.14	1.65	356.69	MCM

Momentary Peak 519.40 CMS, at 124.12 m. (MSL.) , at 12.00 Hours , on Jul 31, 2014

Runoff Yield 26.68 Liters/Second/Square KM. Momentary Peak Yield 1225.000 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

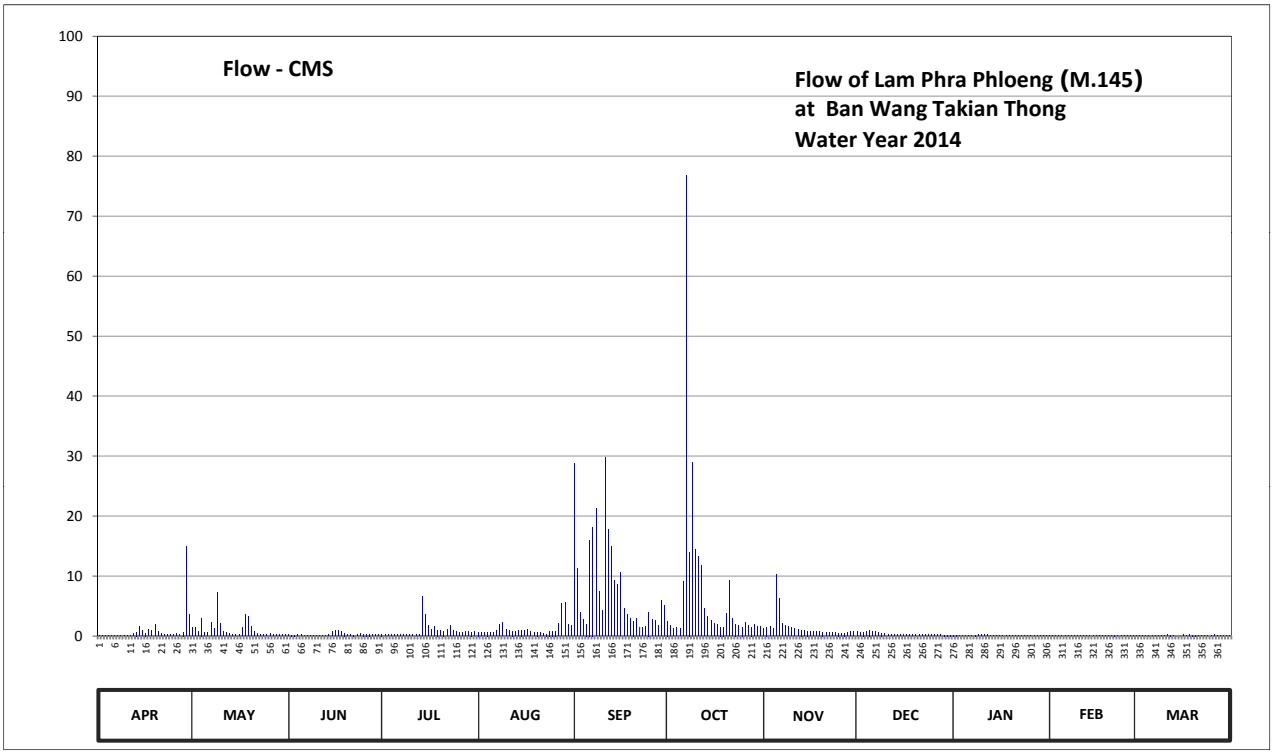
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.17	386.51	386.27	386.31	386.37	388.05	386.65	386.49	386.38	386.24	386.19	386.13	
2	386.17	386.51	386.24	386.29	386.36	387.26	386.56	386.53	386.36	386.24	386.18	386.11	
3	386.17	386.39	386.24	386.29	386.36	386.79	386.48	386.54	386.37	386.23	386.18	386.11	
4	386.17	386.70	386.25	386.29	386.37	386.67	386.51	386.49	386.38	386.22	386.18	386.12	
5	386.22	386.35	386.25	386.28	386.36	386.60	386.48	387.21	386.44	386.22	386.17	386.13	
6	386.21	386.35	386.23	386.28	386.36	387.50	387.14	386.95	386.39	386.22	386.15	386.14	
7	386.21	386.62	386.21	386.28	386.43	387.61	389.26	386.61	386.38	386.22	386.15	386.14	
8	386.20	386.48	386.22	386.29	386.59	387.75	387.40	386.57	386.35	386.24	386.15	386.12	
9	386.19	387.02	386.19	386.29	386.63	387.03	388.06	386.55	386.34	386.28	386.17	386.12	
10	386.17	386.61	386.19	386.30	386.46	386.82	387.42	386.51	386.33	386.29	386.17	386.21	
11	386.17	386.39	386.22	386.29	386.43	388.09	387.36	386.48	386.30	386.26	386.18	386.26	
12	386.32	386.35	386.22	386.29	386.41	387.59	387.29	386.46	386.30	386.25	386.17	386.24	
13	386.37	386.32	386.23	386.28	386.39	387.45	386.84	386.44	386.30	386.21	386.16	386.14	
14	386.55	386.30	386.26	386.97	386.42	387.15	386.72	386.42	386.29	386.19	386.18	386.10	
15	386.42	386.27	386.39	386.76	386.44	387.11	386.66	386.41	386.29	386.21	386.22	386.09	
16	386.34	386.25	386.43	386.57	386.43	387.23	386.61	386.40	386.28	386.21	386.22	386.25	
17	386.45	386.52	386.43	386.45	386.46	386.84	386.58	386.40	386.27	386.21	386.22	386.23	
18	386.42	386.76	386.39	386.55	386.39	386.76	386.53	386.39	386.26	386.21	386.22	386.26	
19	386.59	386.72	386.34	386.44	386.35	386.69	386.53	386.38	386.26	386.21	386.21	386.24	
20	386.39	386.55	386.28	386.42	386.37	386.65	386.77	386.37	386.26	386.20	386.21	386.24	
21	386.32	386.39	386.25	386.41	386.35	386.69	387.15	386.36	386.25	386.20	386.19	386.20	
22	386.29	386.33	386.24	386.46	386.33	386.53	386.69	386.35	386.25	386.20	386.24	386.18	
23	386.25	386.29	386.26	386.56	386.31	386.51	386.60	386.35	386.25	386.20	386.22	386.15	
24	386.25	386.30	386.32	386.43	386.41	386.54	386.56	386.35	386.25	386.20	386.19	386.14	
25	386.25	386.29	386.31	386.38	386.41	386.80	386.53	386.34	386.25	386.20	386.17	386.12	
26	386.32	386.32	386.31	386.35	386.41	386.67	386.62	386.33	386.25	386.19	386.17	386.25	
27	386.28	386.30	386.31	386.35	386.61	386.66	386.57	386.34	386.25	386.19	386.15	386.19	
28	386.37	386.30	386.30	386.39	386.89	386.57	386.53	386.36	386.25	386.19	386.13	386.17	
29	387.45	386.30	386.29	386.39	386.91	386.93	386.58	386.38	386.24	386.19		386.18	
30	386.76	386.30	386.29	386.37	386.59	386.87	386.54	386.39	386.24	386.19		386.18	
31		386.30		386.38	386.56		386.54		386.24	386.19		386.19	
Mean	386.35	386.43	386.28	386.40	386.46	387.01	386.86	386.47	386.30	386.22	386.18	386.17	
Max	387.45	387.02	386.43	386.97	386.91	388.09	389.26	387.21	386.44	386.29	386.24	386.26	389.26
Min	386.17	386.25	386.19	386.28	386.31	386.51	386.48	386.33	386.24	386.19	386.13	386.09	386.09

Annual Max Momentary Gage Height 389.74 m. (MSL.) , at 09.00 Hours , on Oct 7, 2014

Zero Gage at Bottom Elevation 382.99 m. (MSL.) , River Bed 384.24 m. (MSL.)

Left Bank Elevation 391.07 m. (MSL.) ,

Right Bank Elevation 390.96 m. (MSL.) , Drainage Area 335 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	1.37	0.24	0.35	0.65	28.75	2.50	1.25	0.70	0.18	0.09	0.03		
2	0.07	1.37	0.18	0.28	0.60	11.20	1.72	1.51	0.60	0.18	0.08	0.01		
3	0.07	0.75	0.18	0.28	0.60	3.90	1.20	1.58	0.65	0.16	0.08	0.01		
4	0.07	3.00	0.20	0.28	0.65	2.70	1.37	1.25	0.70	0.14	0.08	0.02		
5	0.14	0.55	0.20	0.26	0.60	2.00	1.20	10.20	1.00	0.14	0.07	0.03		
6	0.12	0.55	0.16	0.26	0.60	16.00	9.10	6.25	0.75	0.14	0.05	0.04		
7	0.12	2.20	0.12	0.26	0.95	18.20	76.80	2.10	0.70	0.14	0.05	0.04		
8	0.10	1.20	0.14	0.28	1.93	21.25	14.00	1.79	0.55	0.18	0.05	0.02		
9	0.09	7.30	0.09	0.28	2.30	7.45	29.00	1.65	0.50	0.26	0.07	0.02		
10	0.07	2.10	0.09	0.30	1.10	4.30	14.40	1.37	0.45	0.28	0.07	0.12		
11	0.07	0.75	0.14	0.28	0.95	29.75	13.20	1.20	0.30	0.22	0.08	0.22		
12	0.40	0.55	0.14	0.28	0.85	17.80	11.80	1.10	0.30	0.20	0.07	0.18		
13	0.65	0.40	0.16	0.26	0.75	15.00	4.60	1.00	0.30	0.12	0.06	0.04		
14	1.65	0.30	0.22	6.55	0.90	9.25	3.20	0.90	0.28	0.09	0.08	0.00		
15	0.90	0.24	0.75	3.60	1.00	8.65	2.60	0.85	0.28	0.12	0.14	0.00		
16	0.50	0.20	0.95	1.79	0.95	10.60	2.10	0.80	0.26	0.12	0.14	0.20		
17	1.05	1.44	0.95	1.05	1.10	4.60	1.86	0.80	0.24	0.12	0.14	0.16		
18	0.90	3.60	0.75	1.65	0.75	3.60	1.51	0.75	0.22	0.12	0.14	0.22		
19	1.93	3.20	0.50	1.00	0.55	2.90	1.51	0.70	0.22	0.12	0.12	0.18		
20	0.75	1.65	0.26	0.90	0.65	2.50	3.70	0.65	0.22	0.10	0.12	0.18		
21	0.40	0.75	0.20	0.85	0.55	2.90	9.25	0.60	0.20	0.10	0.09	0.10		
22	0.28	0.45	0.18	1.10	0.45	1.51	2.90	0.55	0.20	0.10	0.18	0.08		
23	0.20	0.28	0.22	1.72	0.35	1.37	2.00	0.55	0.20	0.10	0.14	0.05		
24	0.20	0.30	0.40	0.95	0.85	1.58	1.72	0.55	0.20	0.10	0.09	0.04		
25	0.20	0.28	0.35	0.70	0.85	4.00	1.51	0.50	0.20	0.10	0.07	0.02		
26	0.40	0.40	0.35	0.55	0.85	2.70	2.20	0.45	0.20	0.09	0.07	0.20		
27	0.26	0.30	0.35	0.55	2.10	2.60	1.79	0.50	0.20	0.09	0.05	0.09		
28	0.65	0.30	0.30	0.75	5.35	1.79	1.51	0.60	0.20	0.09	0.03	0.07		
29	15.00	0.30	0.28	0.75	5.65	5.95	1.86	0.70	0.18	0.09		0.08		
30	3.60	0.30	0.28	0.65	1.93	5.05	1.58	0.75	0.18	0.09		0.08		
31		0.30		0.70	1.72		1.58		0.18	0.09		0.09		
Total	30.91	36.68	9.33	29.46	39.08	249.85	225.27	43.45	11.36	4.17	2.50	2.62	684.68	CMSDAY
Mean	1.03	1.18	0.31	0.95	1.26	8.33	7.27	1.45	0.37	0.13	0.09	0.08	1.88	CMS
Max	15.00	7.30	0.95	6.55	5.65	29.75	76.80	10.20	1.00	0.28	0.18	0.22	76.80	CMS
Min	0.07	0.20	0.09	0.26	0.35	1.37	1.20	0.45	0.18	0.09	0.03	0.00	0.00	CMS
Runoff	2.67	3.17	0.81	2.55	3.38	21.59	19.46	3.75	0.98	0.36	0.22	0.23	59.16	MCM

Momentary Peak 105.80 CMS, at 389.74 m. (MSL.) , at 09.00 Hours , on Oct 7 , 2014

Runoff Yield 5.60 Liters/Second/Square KM. Momentary Peak Yield 315.821 Liters/Second/Square KM.

WATER YEAR : 2014

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 right bank at staff gage line.		**Elevation** +131.079 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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

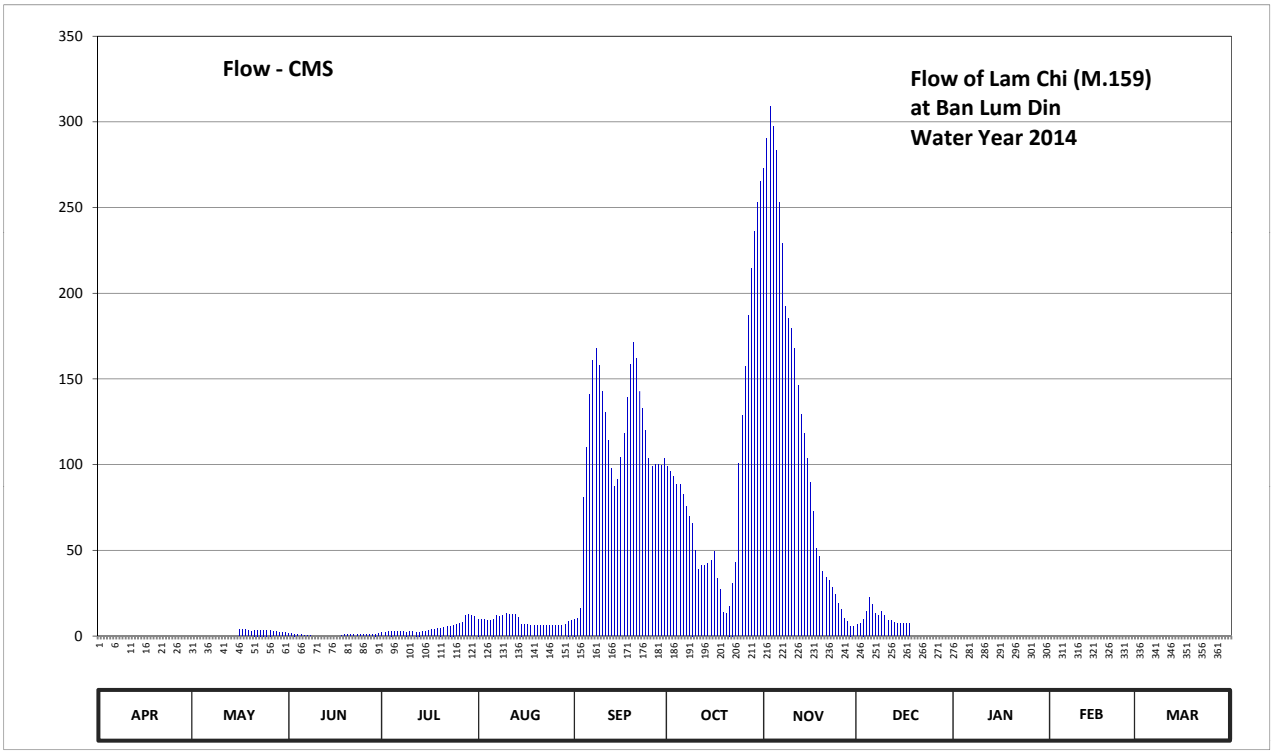
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.45	121.37	121.83	121.87	123.10	123.10	125.16	127.70	122.83	123.26	123.15	123.09	
2	121.43	121.37	121.78	121.90	123.08	123.11	125.10	127.82	122.95	123.29	123.16	123.09	
3	121.39	121.37	121.74	122.08	123.07	123.30	125.04	127.90	123.10	123.27	123.16	123.09	
4	121.38	121.37	121.71	122.09	123.06	124.80	124.95	127.85	123.25	123.20	123.15	123.09	
5	121.37	121.36	121.66	121.99	123.05	125.38	124.95	127.78	123.49	123.28	123.13	123.09	
6	121.36	121.36	121.58	122.00	123.10	126.00	124.83	127.53	123.38	123.27	123.13	123.10	
7	121.35	121.36	121.54	122.00	123.16	126.33	124.69	127.29	123.20	123.27	123.12	123.10	
8	121.35	121.36	121.51	121.98	123.15	126.43	124.57	126.78	123.16	123.24	123.09	123.10	
9	121.35	121.36	121.50	121.97	123.16	126.28	124.50	126.68	123.24	123.29	123.09	123.10	
10	121.35	121.36	121.48	122.00	123.20	126.03	124.17	126.59	123.16	123.29	123.08	123.11	
11	121.35	121.35	121.48	122.00	123.19	125.79	123.90	126.43	123.06	123.35	123.09	123.10	
12	121.35	121.35	121.48	121.97	123.19	125.47	123.95	126.09	123.05	123.33	123.09	123.05	
13	121.35	121.35	121.47	121.97	123.19	125.14	123.95	125.77	123.00	123.32	123.09	123.05	
14	121.36	121.35	121.45	122.02	123.13	124.93	123.98	125.55	122.92	123.25	123.09	123.05	
15	121.36	121.35	121.43	122.08	122.90	125.01	124.03	125.25	122.95	123.30	123.09	123.06	
16	121.36	122.25	121.45	122.15	122.88	125.26	124.16	124.97	122.95	123.29	123.09	123.06	
17	121.35	122.25	121.45	122.22	122.84	125.54	123.76	124.63	122.93	123.29	123.08	123.06	
18	121.34	122.26	121.51	122.30	122.76	125.97	123.60	124.20	122.93	123.28	123.08	123.06	
19	121.35	122.11	121.70	122.37	122.70	126.29	123.22	124.08	123.11	123.28	123.08	123.05	
20	121.35	122.05	121.71	122.43	122.71	126.48	123.20	123.86	123.16	123.28	123.09	123.00	
21	121.35	122.20	121.70	122.51	122.72	126.34	123.35	123.78	123.21	123.24	123.09	123.01	
22	121.35	122.20	121.69	122.61	122.71	126.03	123.70	123.73	123.23	123.22	123.09	123.01	
23	121.35	122.20	121.72	122.68	122.70	125.84	124.00	123.63	123.25	123.22	123.09	123.01	
24	121.35	122.20	121.72	122.78	122.71	125.58	125.20	123.53	123.29	123.22	123.09	123.01	
25	121.35	122.20	121.72	122.87	122.74	125.25	125.76	123.40	123.34	123.19	123.09	123.01	
26	121.35	122.20	121.70	122.94	122.75	125.16	126.27	123.28	123.39	123.17	123.09	123.01	
27	121.35	122.05	121.70	123.00	122.75	125.18	126.70	123.11	123.55	123.16	123.09	123.01	
28	121.35	122.00	121.68	123.17	122.75	125.18	127.09	123.02	123.38	123.16	123.09	123.00	
29	121.35	121.91	121.73	123.18	122.87	125.17	127.36	122.68	123.34	123.16		123.01	
30	121.35	121.90	121.80	123.17	123.04	125.25	127.53	122.64	123.30	123.16		123.01	
31		121.90		123.14	123.05		127.64		123.25	123.15		123.01	
Mean	121.36	121.75	121.62	122.37	122.95	125.39	124.85	125.25	123.17	123.25	123.10	123.05	
Max	121.45	122.26	121.83	123.18	123.20	126.48	127.64	127.90	123.55	123.35	123.16	123.11	127.90
Min	121.34	121.35	121.43	121.87	122.70	123.10	123.20	122.64	122.83	123.15	123.08	123.00	121.34

Annual Max Momentary Gage Height 127.90 m. (MSL.) , at 06.00 Hours, on Nov 3, 2014

Zero Gage at Bottom Elevation 120.85 m. (MSL.) , River Bed 120.83 m. (MSL.)

Left Bank Elevation 132.19 m. (MSL.) ,

Right Bank Elevation 132.25 m. (MSL.) , Drainage Area 4806 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.65	1.85	10.00	10.00	99.00	273.00	6.65	0.00	0.00	0.00		
2	0.00	0.00	1.40	2.00	9.60	10.30	96.00	290.60	7.50	0.00	0.00	0.00		
3	0.00	0.00	1.20	2.90	9.40	16.00	93.00	309.00	10.00	0.00	0.00	0.00		
4	0.00	0.00	1.05	2.95	9.20	81.00	88.50	297.50	14.50	0.00	0.00	0.00		
5	0.00	0.00	0.80	2.45	9.00	110.00	88.50	283.40	22.60	0.00	0.00	0.00		
6	0.00	0.00	0.40	2.50	10.00	141.00	82.50	253.00	18.40	0.00	0.00	0.00		
7	0.00	0.00	0.20	2.50	11.80	161.10	75.50	229.20	13.00	0.00	0.00	0.00		
8	0.00	0.00	0.05	2.40	11.50	168.10	69.50	192.60	11.80	0.00	0.00	0.00		
9	0.00	0.00	0.00	2.35	11.80	157.80	66.00	185.60	14.20	0.00	0.00	0.00		
10	0.00	0.00	0.00	2.50	13.00	142.80	49.80	179.30	11.80	0.00	0.00	0.00		
11	0.00	0.00	0.00	2.50	12.70	130.50	39.00	168.10	9.20	0.00	0.00	0.00		
12	0.00	0.00	0.00	2.35	12.70	114.50	41.00	146.40	9.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	2.35	12.70	98.00	41.00	129.50	8.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	2.60	10.90	87.50	42.20	118.50	7.20	0.00	0.00	0.00		
15	0.00	0.00	0.00	2.90	7.00	91.50	44.20	103.50	7.50	0.00	0.00	0.00		
16	0.00	3.75	0.00	3.25	6.90	104.00	49.40	89.50	7.50	0.00	0.00	0.00		
17	0.00	3.75	0.00	3.60	6.70	118.00	33.40	72.50	7.30	0.00	0.00	0.00		
18	0.00	3.80	0.05	4.00	6.30	139.50	27.00	51.00	7.30	0.00	0.00	0.00		
19	0.00	3.05	1.00	4.35	6.00	158.40	13.60	46.20	0.00	0.00	0.00	0.00		
20	0.00	2.75	1.05	4.65	6.05	171.60	13.00	37.40	0.00	0.00	0.00	0.00		
21	0.00	3.50	1.00	5.05	6.10	161.80	17.50	34.20	0.00	0.00	0.00	0.00		
22	0.00	3.50	0.95	5.55	6.05	142.80	31.00	32.20	0.00	0.00	0.00	0.00		
23	0.00	3.50	1.10	5.90	6.00	133.00	43.00	28.20	0.00	0.00	0.00	0.00		
24	0.00	3.50	1.10	6.40	6.05	120.00	101.00	24.20	0.00	0.00	0.00	0.00		
25	0.00	3.50	1.10	6.85	6.20	103.50	129.00	19.00	0.00	0.00	0.00	0.00		
26	0.00	3.50	1.00	7.40	6.25	99.00	157.20	15.40	0.00	0.00	0.00	0.00		
27	0.00	2.75	1.00	8.00	6.25	100.00	187.00	10.30	0.00	0.00	0.00	0.00		
28	0.00	2.50	0.90	12.10	6.25	100.00	214.30	8.40	0.00	0.00	0.00	0.00		
29	0.00	2.05	1.15	12.40	6.85	99.50	236.00	5.90	0.00	0.00		0.00		
30	0.00	2.00	1.50	12.10	8.80	103.50	253.00	5.70	0.00	0.00		0.00		
31		2.00		11.20	9.00		265.20		0.00	0.00		0.00		
Total	0.00	49.40	19.65	149.90	267.05	3374.70	2786.30	3639.30	193.45	0.00	0.00	0.00	10479.75	CMSDAY
Mean	0.00	1.59	0.66	4.84	8.61	112.49	89.88	121.31	6.24	0.00	0.00	0.00	28.71	CMS
Max	0.00	3.80	1.65	12.40	13.00	171.60	265.20	309.00	22.60	0.00	0.00	0.00	309.00	CMS
Min	0.00	0.00	0.00	1.85	6.00	10.00	13.00	5.70	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	4.27	1.70	12.95	23.07	291.57	240.74	314.44	16.71	0.00	0.00	0.00	905.45	MCM

Momentary Peak 309.00 CMS, at 127.90 m. (MSL.), at 06.00 Hours, on Nov 3, 2014

Runoff Yield 5.97 Liters/Second/Square KM. Momentary Peak Yield 64.295 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Dom Yai at Ban Kham Samran, Ubon Ratehathani (M.170)

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

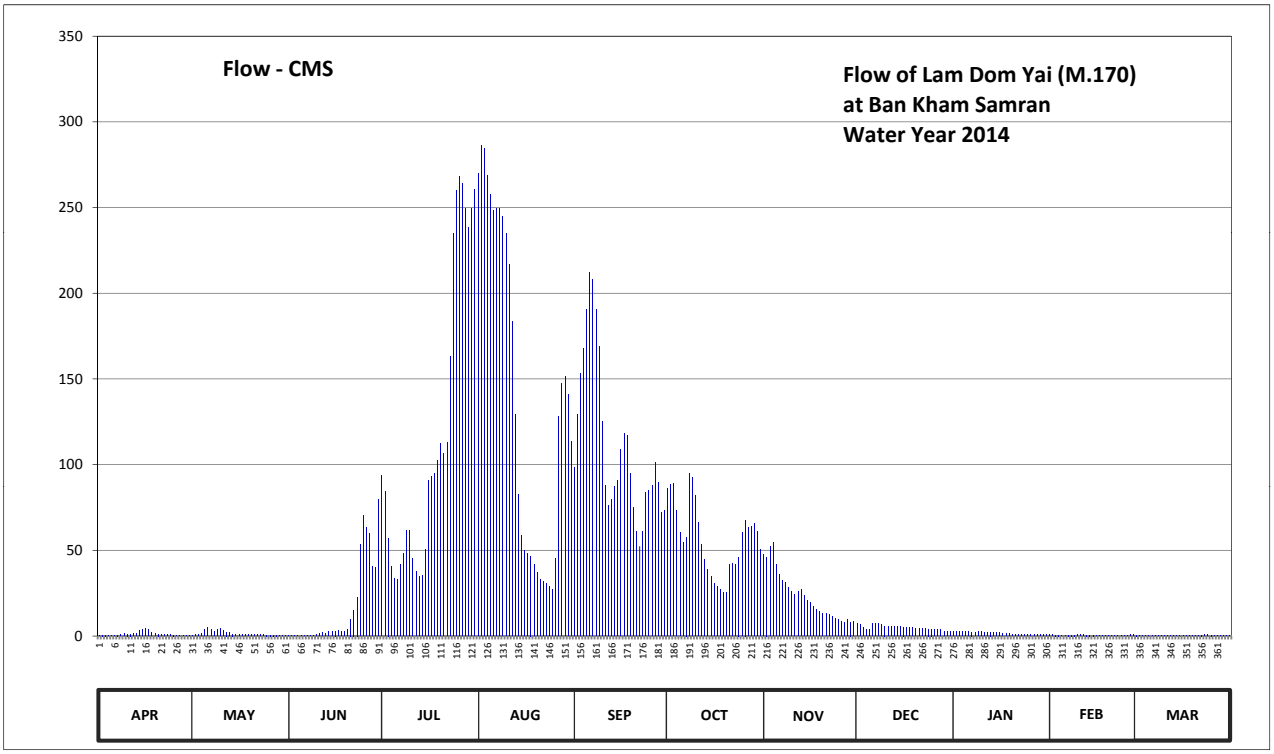
Location : on right bank at the bridge

	Ban Kham Samran	**Amphoe** Det Udom	**Changwat** Ubon Ratchathani
Drainge Area	1,745 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+123.340 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank upstream at the footpath		**Elevation** +133.374 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 76 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.64	123.68	123.66	127.94	131.77	128.06	127.70	126.42	124.43	123.99	123.75	123.72	
2	123.73	123.74	123.64	127.64	132.07	128.83	127.78	126.37	124.35	123.97	123.74	123.70	
3	123.72	123.75	123.62	126.74	132.04	129.41	127.81	126.57	124.20	123.97	123.73	123.69	
4	123.71	123.86	123.62	126.14	131.75	129.72	127.27	126.66	124.08	123.97	123.72	123.68	
5	123.71	124.09	123.59	125.79	131.53	130.19	126.85	126.18	124.09	123.96	123.71	123.68	
6	123.70	124.19	123.59	125.74	131.35	130.62	126.65	125.89	124.44	123.95	123.71	123.67	
7	123.72	124.07	123.58	126.19	131.37	130.54	126.76	125.72	124.42	123.93	123.72	123.68	
8	123.75	123.99	123.57	126.44	131.37	130.19	127.98	125.66	124.42	123.91	123.73	123.69	
9	123.84	124.06	123.60	126.89	131.27	129.74	127.92	125.52	124.37	123.97	123.73	123.70	
10	123.82	124.12	123.77	126.89	131.08	128.74	127.57	125.41	124.29	123.95	123.74	123.70	
11	123.82	124.02	123.86	126.34	130.72	127.76	127.05	125.32	124.28	123.89	123.74	123.70	
12	123.84	123.93	123.88	125.99	130.04	127.37	126.62	125.39	124.28	123.89	123.74	123.69	
13	123.87	123.88	123.87	125.84	128.84	127.49	126.32	125.45	124.26	123.93	123.73	123.68	
14	124.04	123.82	123.94	125.86	127.58	127.74	126.04	125.28	124.24	123.90	123.72	123.67	
15	124.10	123.77	123.97	126.52	126.79	127.87	125.84	125.13	124.24	123.89	123.72	123.67	
16	124.13	123.74	124.00	127.87	126.50	128.32	125.62	125.07	124.23	123.88	123.71	123.67	
17	124.08	123.74	124.03	127.93	126.44	128.56	125.54	124.96	124.21	123.87	123.71	123.67	
18	123.92	123.76	123.98	127.97	126.39	128.53	125.45	124.87	124.18	123.86	123.71	123.66	
19	123.87	123.79	123.95	128.17	126.19	127.98	125.36	124.82	124.18	123.84	123.70	123.66	
20	123.82	123.79	124.06	128.41	125.95	127.34	125.37	124.76	124.14	123.81	123.70	123.67	
21	123.79	123.81	124.60	128.27	125.76	126.87	126.19	124.76	124.12	123.80	123.69	123.71	
22	123.77	123.78	124.86	128.42	125.69	126.58	126.22	124.73	124.12	123.79	123.69	123.73	
23	123.75	123.74	125.24	129.61	125.62	126.87	126.19	124.68	124.12	123.79	123.69	123.74	
24	123.74	123.74	126.61	131.08	125.54	127.62	126.37	124.62	124.11	123.78	123.69	123.74	
25	123.72	123.72	127.17	131.58	125.46	127.66	126.84	124.57	124.11	123.78	123.69	123.72	
26	123.71	123.72	126.94	131.74	126.34	127.77	127.09	124.53	124.10	123.77	123.70	123.69	
27	123.70	123.72	126.82	131.66	128.81	128.14	126.94	124.47	124.08	123.77	123.76	123.66	
28	123.69	123.72	126.14	131.37	129.29	127.82	126.96	124.59	124.06	123.77	123.75	123.64	
29	123.69	123.69	126.11	131.15	129.37	127.23	127.03	124.51	123.99	123.76		123.62	
30	123.68	123.69	127.49	131.37	129.12	127.27	126.87	124.52	123.97	123.76		123.59	
31		123.67		131.59	128.44		126.52		123.97	123.76		123.58	
Mean	123.80	123.83	124.59	128.23	128.73	128.29	126.67	125.25	124.20	123.87	123.72	123.68	
Max	124.13	124.19	127.49	131.74	132.07	130.62	127.98	126.66	124.44	123.99	123.76	123.74	132.07
Min	123.64	123.67	123.57	125.74	125.46	126.58	125.36	124.47	123.97	123.76	123.69	123.58	123.57

Annual Max Momentary Gage Height	132.09	m. (MSL.) ,	at 12.00 Hours, on Aug 2, 2014		
Zero Gage at Bottom Elevation	123.34	m. (MSL.) ,	River Bed	122.86	m. (MSL.)
Left Bank Elevation	133.07	m. (MSL.) ,			
Right Bank Elevation	133.07	m. (MSL.) ,	Drainage Area	1745	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.32	0.44	0.38	93.60	269.85	98.40	86.00	47.60	7.30	2.90	0.75	0.60		
2	0.65	0.70	0.32	84.20	286.35	129.20	88.40	46.10	6.50	2.70	0.70	0.50		
3	0.60	0.75	0.26	57.20	284.70	153.28	89.30	52.10	5.00	2.70	0.65	0.47		
4	0.55	1.60	0.26	40.80	268.75	168.16	73.10	54.80	3.80	2.70	0.60	0.44		
5	0.55	3.90	0.18	33.80	257.50	190.72	60.50	41.60	3.90	2.60	0.55	0.44		
6	0.50	4.90	0.18	32.80	248.50	212.00	54.50	35.80	7.40	2.50	0.55	0.41		
7	0.60	3.70	0.16	41.80	249.50	208.00	57.80	32.40	7.20	2.30	0.60	0.44		
8	0.75	2.90	0.14	48.20	249.50	190.72	95.20	31.20	7.20	2.10	0.65	0.47		
9	1.40	3.60	0.20	61.70	244.50	169.12	92.80	28.40	6.70	2.70	0.65	0.50		
10	1.20	4.20	0.85	61.70	235.00	125.60	82.10	26.20	5.90	2.50	0.70	0.50		
11	1.20	3.20	1.60	45.20	217.00	87.80	66.50	24.40	5.80	1.90	0.70	0.50		
12	1.40	2.30	1.80	37.80	183.52	76.10	53.60	25.80	5.80	1.90	0.70	0.47		
13	1.70	1.80	1.70	34.80	129.60	79.70	44.60	27.00	5.60	2.30	0.65	0.44		
14	3.40	1.20	2.40	35.20	82.40	87.20	38.80	23.60	5.40	2.00	0.60	0.41		
15	4.00	0.85	2.70	50.60	58.70	91.10	34.80	20.60	5.40	1.90	0.60	0.41		
16	4.30	0.70	3.00	91.10	50.00	108.80	30.40	19.40	5.30	1.80	0.55	0.41		
17	3.80	0.70	3.30	93.20	48.20	118.40	28.80	17.20	5.10	1.70	0.55	0.41		
18	2.20	0.80	2.80	94.80	46.70	117.20	27.00	15.40	4.80	1.60	0.55	0.38		
19	1.70	0.95	2.50	102.80	41.80	95.20	25.20	14.40	4.80	1.40	0.50	0.38		
20	1.20	0.95	3.60	112.40	37.00	75.20	25.40	13.20	4.40	1.10	0.50	0.41		
21	0.95	1.10	10.00	106.80	33.20	61.10	41.80	13.20	4.20	1.00	0.47	0.55		
22	0.85	0.90	15.20	112.80	31.80	52.40	42.40	12.60	4.20	0.95	0.47	0.65		
23	0.75	0.70	22.80	162.88	30.40	61.10	41.80	11.60	4.20	0.95	0.47	0.70		
24	0.70	0.70	53.30	235.00	28.80	83.60	46.10	10.40	4.10	0.90	0.47	0.70		
25	0.60	0.60	70.10	260.00	27.20	84.80	60.20	9.40	4.10	0.90	0.47	0.60		
26	0.55	0.60	63.20	268.20	45.20	88.10	67.70	8.60	4.00	0.85	0.50	0.47		
27	0.50	0.60	59.60	264.00	128.40	101.60	63.20	7.70	3.80	0.85	0.80	0.38		
28	0.47	0.60	40.80	249.50	147.60	89.60	63.80	9.80	3.60	0.85	0.75	0.32		
29	0.47	0.47	40.20	238.50	151.36	71.90	65.90	8.20	2.90	0.80		0.26		
30	0.44	0.47	79.70	249.50	140.80	73.10	61.10	8.40	2.70	0.80		0.18		
31		0.41		260.50	113.60		50.60		2.70	0.80		0.16		
Total	38.30	47.29	483.23	3661.38	4367.43	3349.20	1759.40	697.10	153.80	52.95	16.70	13.96	14640.74	CMSDAY
Mean	1.28	1.53	16.11	118.11	140.88	111.64	56.75	23.24	4.96	1.71	0.60	0.45	40.11	CMS
Max	4.30	4.90	79.70	268.20	286.35	212.00	95.20	54.80	7.40	2.90	0.80	0.70	286.35	CMS
Min	0.32	0.41	0.14	32.80	27.20	52.40	25.20	7.70	2.70	0.80	0.47	0.16	0.14	CMS
Runoff	3.31	4.09	41.75	316.34	377.35	289.37	152.01	60.23	13.29	4.58	1.44	1.21	1264.96	MCM

Momentary Peak 287.45 CMS, at 132.09 m. (MSL.), at 12.00 Hours, on Aug 2, 2014

Runoff Yield 22.99 Liters/Second/Square KM. Momentary Peak Yield 164.728 Liters/Second/Square KM.

WATER YEAR : 2014

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

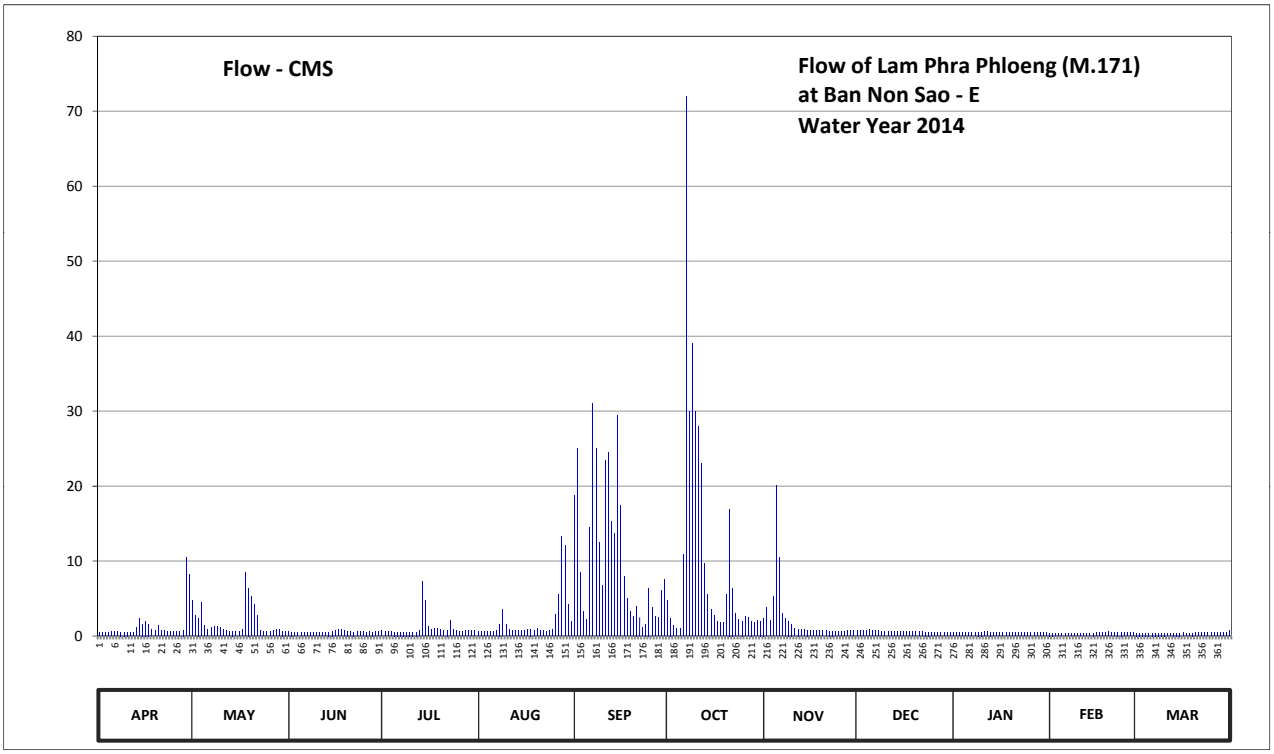
Location : on right bank at Ban Non Sao - E.

	Ban Non Sao - E	**Amphoe** Wang Nam Khieo	**Changwat** Nakhon Ratchasima
Drainge Area	553 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+272.230 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath		**Elevation** +280.170 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 Flot	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	272.38	273.07	272.47	272.61	272.55	273.45	273.07	272.94	272.61	272.38	272.31	272.31	
2	272.38	272.97	272.43	272.49	272.53	273.58	272.94	273.03	272.60	272.38	272.31	272.31	
3	272.38	272.94	272.41	272.47	272.53	273.20	272.84	272.91	272.59	272.38	272.28	272.31	
4	272.38	273.06	272.41	272.45	272.56	273.01	272.79	273.09	272.64	272.39	272.28	272.31	
5	272.55	272.84	272.41	272.43	272.53	272.92	272.80	273.48	272.72	272.41	272.25	272.31	
6	272.47	272.71	272.41	272.43	272.54	273.35	273.26	273.25	272.68	272.41	272.25	272.31	
7	272.46	272.82	272.39	272.43	272.67	273.70	274.40	273.00	272.62	272.41	272.25	272.31	
8	272.43	272.83	272.36	272.43	272.86	273.58	273.68	272.93	272.59	272.41	272.28	272.31	
9	272.43	272.83	272.33	272.43	273.02	273.30	273.85	272.90	272.56	272.43	272.28	272.31	
10	272.42	272.81	272.33	272.43	272.85	273.14	273.68	272.86	272.53	272.43	272.28	272.31	
11	272.41	272.76	272.32	272.43	272.73	273.55	273.64	272.80	272.53	272.48	272.28	272.28	
12	272.41	272.64	272.32	272.43	272.66	273.57	273.54	272.77	272.52	272.47	272.28	272.28	
13	272.82	272.56	272.33	272.62	272.62	273.37	273.23	272.76	272.51	272.43	272.28	272.31	
14	272.93	272.58	272.42	273.16	272.64	273.33	273.10	272.71	272.51	272.40	272.28	272.31	
15	272.86	272.49	272.58	273.07	272.65	273.67	273.02	272.70	272.51	272.38	272.30	272.31	
16	272.90	272.46	272.63	272.83	272.63	273.42	272.97	272.68	272.50	272.37	272.32	272.32	
17	272.86	272.73	272.73	272.75	272.74	273.18	272.89	272.68	272.48	272.37	272.34	272.28	
18	272.73	273.20	272.71	272.78	272.77	273.08	272.88	272.67	272.48	272.37	272.35	272.28	
19	272.67	273.13	272.62	272.78	272.66	273.01	272.88	272.65	272.47	272.36	272.35	272.30	
20	272.84	273.09	272.57	272.75	272.79	272.96	273.10	272.63	272.46	272.35	272.45	272.37	
21	272.67	273.05	272.50	272.63	272.65	273.04	273.41	272.60	272.45	272.35	272.37	272.33	
22	272.60	272.97	272.43	272.70	272.63	272.95	273.13	272.58	272.44	272.35	272.37	272.33	
23	272.54	272.59	272.45	272.91	272.53	272.82	273.00	272.57	272.43	272.33	272.43	272.32	
24	272.51	272.53	272.49	272.71	272.68	272.86	272.92	272.53	272.42	272.33	272.43	272.33	
25	272.50	272.51	272.49	272.62	272.71	273.13	272.90	272.53	272.41	272.33	272.41	272.38	
26	272.55	272.52	272.43	272.56	272.99	273.03	272.96	272.53	272.41	272.33	272.33	272.33	
27	272.56	272.60	272.45	272.56	273.10	272.96	272.95	272.55	272.41	272.33	272.32	272.33	
28	272.70	272.71	272.43	272.61	273.32	272.95	272.90	272.59	272.41	272.33	272.32	272.37	
29	273.25	272.76	272.44	272.63	273.29	273.12	272.88	272.63	272.41	272.33		272.33	
30	273.19	272.58	272.46	272.61	273.05	273.17	272.91	272.66	272.41	272.32		272.37	
31		272.52		272.60	272.89		272.90		272.41	272.32		272.65	
Mean	272.63	272.77	272.46	272.62	272.75	273.21	273.14	272.77	272.51	272.38	272.32	272.33	
Max	273.25	273.20	272.73	273.16	273.32	273.70	274.40	273.48	272.72	272.48	272.45	272.65	274.40
Min	272.38	272.46	272.32	272.43	272.53	272.82	272.79	272.53	272.41	272.32	272.25	272.28	272.25

Annual Max Momentary Gage Height	274.68	m. (MSL.) ,	at 06.00 Hours, on Oct 7, 2014		
Zero Gage at Bottom Elevation	272.23	m. (MSL.) ,	River Bed	271.85	m. (MSL.)
Left Bank Elevation	280.17	m. (MSL.) ,			
Right Bank Elevation	279.95	m. (MSL.) ,	Drainage Area	553	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.48	4.75	0.57	0.71	0.65	18.75	4.75	2.40	0.71	0.48	0.41	0.41		
2	0.48	2.70	0.53	0.59	0.63	25.00	2.40	3.75	0.70	0.48	0.41	0.41		
3	0.48	2.40	0.51	0.57	0.63	8.50	1.40	2.10	0.69	0.48	0.38	0.41		
4	0.48	4.50	0.51	0.55	0.66	3.25	0.98	5.25	0.74	0.49	0.38	0.41		
5	0.65	1.40	0.51	0.53	0.63	2.20	1.00	20.10	0.84	0.51	0.35	0.41		
6	0.57	0.82	0.51	0.53	0.64	14.50	10.90	10.50	0.78	0.51	0.35	0.41		
7	0.56	1.20	0.49	0.53	0.77	31.00	72.00	3.00	0.72	0.51	0.35	0.41		
8	0.53	1.30	0.46	0.53	1.60	25.00	30.00	2.30	0.69	0.51	0.38	0.41		
9	0.53	1.30	0.43	0.53	3.50	12.50	39.00	2.00	0.66	0.53	0.38	0.41		
10	0.52	1.10	0.43	0.53	1.50	6.70	30.00	1.60	0.63	0.53	0.38	0.41		
11	0.51	0.92	0.42	0.53	0.86	23.50	28.00	1.00	0.63	0.58	0.38	0.38		
12	0.51	0.74	0.42	0.53	0.76	24.50	23.00	0.94	0.62	0.57	0.38	0.38		
13	1.20	0.66	0.43	0.72	0.72	15.30	9.70	0.92	0.61	0.53	0.38	0.41		
14	2.30	0.68	0.52	7.30	0.74	13.70	5.50	0.82	0.61	0.50	0.38	0.41		
15	1.60	0.59	0.68	4.75	0.75	29.50	3.50	0.80	0.61	0.48	0.40	0.41		
16	2.00	0.56	0.73	1.30	0.73	17.40	2.70	0.78	0.60	0.47	0.42	0.42		
17	1.60	0.86	0.86	0.90	0.88	7.90	1.90	0.78	0.58	0.47	0.44	0.38		
18	0.86	8.50	0.82	0.96	0.94	5.00	1.80	0.77	0.58	0.47	0.45	0.38		
19	0.77	6.40	0.72	0.96	0.76	3.25	1.80	0.75	0.57	0.46	0.45	0.40		
20	1.40	5.25	0.67	0.90	0.98	2.60	5.50	0.73	0.56	0.45	0.55	0.47		
21	0.77	4.25	0.60	0.73	0.75	4.00	16.95	0.70	0.55	0.45	0.47	0.43		
22	0.70	2.70	0.53	0.80	0.73	2.50	6.40	0.68	0.54	0.45	0.47	0.43		
23	0.64	0.69	0.55	2.10	0.63	1.20	3.00	0.67	0.53	0.43	0.53	0.42		
24	0.61	0.63	0.59	0.82	0.78	1.60	2.20	0.63	0.52	0.43	0.53	0.43		
25	0.60	0.61	0.59	0.72	0.82	6.40	2.00	0.63	0.51	0.43	0.51	0.48		
26	0.65	0.62	0.53	0.66	2.90	3.75	2.60	0.63	0.51	0.43	0.43	0.43		
27	0.66	0.70	0.55	0.66	5.50	2.60	2.50	0.65	0.51	0.43	0.42	0.43		
28	0.80	0.82	0.53	0.71	13.30	2.50	2.00	0.69	0.51	0.43	0.42	0.47		
29	10.50	0.92	0.54	0.73	12.10	6.10	1.80	0.73	0.51	0.43		0.43		
30	8.20	0.68	0.56	0.71	4.25	7.60	2.10	0.76	0.51	0.42		0.47		
31		0.62		0.70	1.90		2.00		0.51	0.42		0.75		
Total	42.16	59.87	16.79	33.79	62.99	328.30	319.38	68.06	18.84	14.76	11.78	13.31	990.03	CMSDAY
Mean	1.41	1.93	0.56	1.09	2.03	10.94	10.30	2.27	0.61	0.48	0.42	0.43	2.71	CMS
Max	10.50	8.50	0.86	7.30	13.30	31.00	72.00	20.10	0.84	0.58	0.55	0.75	72.00	CMS
Min	0.48	0.56	0.42	0.53	0.63	1.20	0.98	0.63	0.51	0.42	0.35	0.38	0.35	CMS
Runoff	3.64	5.17	1.45	2.92	5.44	28.37	27.59	5.88	1.63	1.28	1.02	1.15	85.54	MCM

Momentary Peak 90.60 CMS, at 274.68 m. (MSL.), at 06.00 Hours, on Oct 7, 2014

Runoff Yield 4.90 Liters/Second/Square KM. Momentary Peak Yield 163.834 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

Lat 14 - 29 - 14 N Long 101 - 46 - 57 E

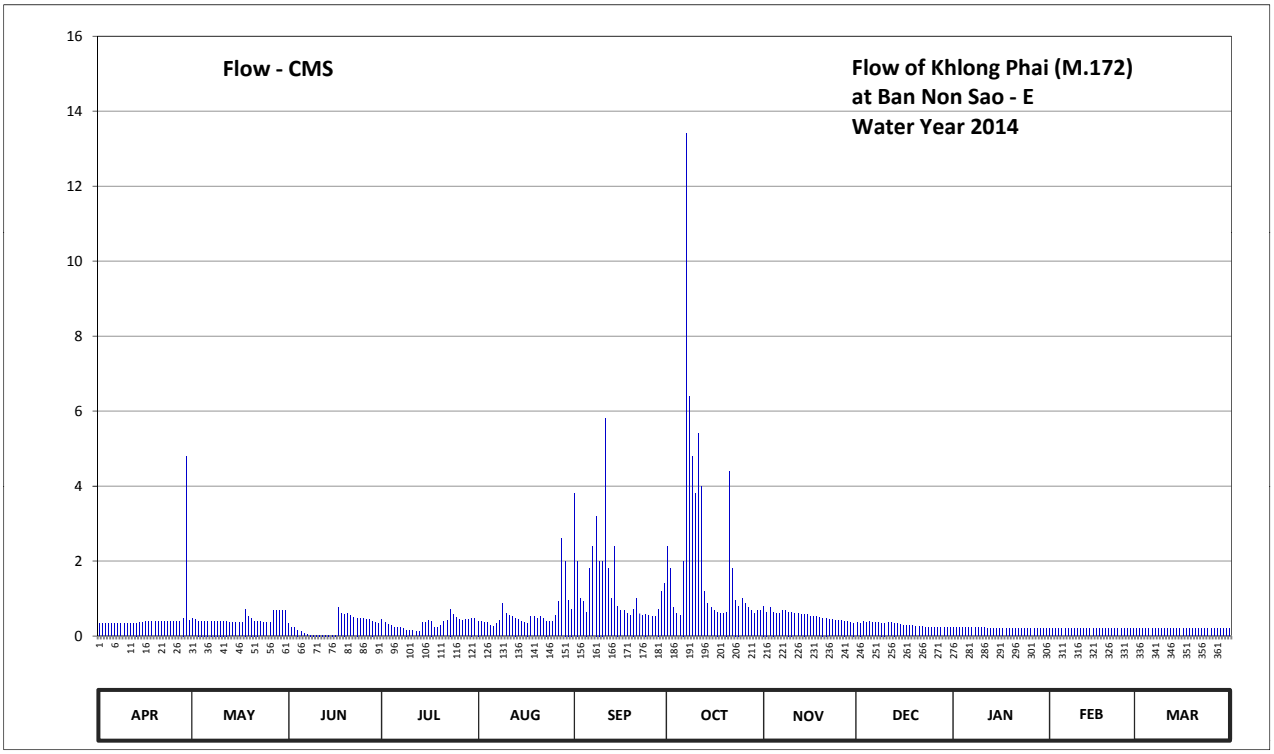
Location : on right bank at the bridge.

	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	+293.220 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream side at the footpath of the bridge.	**Elevation**	+299.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.22	293.31	293.22	293.29	293.27	293.64	293.57	293.45	293.24	293.16	293.14	293.14	
2	293.22	293.30	293.16	293.24	293.25	293.55	293.54	293.41	293.23	293.16	293.14	293.14	
3	293.22	293.27	293.16	293.20	293.24	293.50	293.44	293.44	293.25	293.16	293.14	293.14	
4	293.22	293.27	293.11	293.18	293.24	293.48	293.40	293.41	293.24	293.15	293.14	293.14	
5	293.22	293.27	293.07	293.16	293.18	293.41	293.36	293.40	293.25	293.15	293.14	293.14	
6	293.22	293.27	293.04	293.16	293.17	293.54	293.55	293.40	293.24	293.15	293.14	293.14	
7	293.22	293.27	293.03	293.15	293.22	293.57	294.03	293.42	293.24	293.15	293.14	293.14	
8	293.22	293.27	293.02	293.13	293.28	293.61	293.77	293.42	293.24	293.16	293.14	293.14	
9	293.22	293.27	293.02	293.11	293.47	293.55	293.69	293.41	293.23	293.15	293.14	293.14	
10	293.22	293.27	293.02	293.10	293.40	293.55	293.64	293.41	293.23	293.15	293.14	293.14	
11	293.22	293.27	293.02	293.10	293.37	293.74	293.72	293.40	293.24	293.15	293.14	293.14	
12	293.22	293.27	293.02	293.09	293.34	293.54	293.65	293.40	293.24	293.14	293.14	293.14	
13	293.23	293.24	293.02	293.09	293.32	293.50	293.51	293.38	293.23	293.14	293.14	293.14	
14	293.24	293.24	293.02	293.24	293.29	293.57	293.47	293.39	293.22	293.14	293.14	293.14	
15	293.24	293.24	293.02	293.24	293.26	293.45	293.44	293.38	293.20	293.14	293.14	293.14	
16	293.25	293.24	293.02	293.28	293.24	293.42	293.42	293.35	293.19	293.14	293.14	293.14	
17	293.25	293.24	293.44	293.27	293.23	293.42	293.41	293.35	293.18	293.14	293.14	293.14	
18	293.25	293.43	293.40	293.15	293.35	293.40	293.40	293.35	293.18	293.14	293.14	293.14	
19	293.26	293.35	293.39	293.16	293.35	293.37	293.40	293.33	293.18	293.14	293.14	293.14	
20	293.26	293.32	293.40	293.18	293.31	293.43	293.41	293.32	293.17	293.14	293.14	293.14	
21	293.26	293.27	293.36	293.26	293.34	293.50	293.67	293.32	293.17	293.14	293.14	293.14	
22	293.26	293.27	293.33	293.28	293.31	293.40	293.54	293.30	293.17	293.14	293.14	293.14	
23	293.26	293.25	293.32	293.43	293.27	293.37	293.49	293.29	293.16	293.14	293.14	293.14	
24	293.25	293.24	293.31	293.38	293.26	293.39	293.45	293.28	293.16	293.14	293.14	293.14	
25	293.25	293.24	293.31	293.33	293.25	293.36	293.50	293.28	293.16	293.14	293.14	293.14	
26	293.25	293.24	293.30	293.30	293.36	293.35	293.47	293.28	293.16	293.14	293.14	293.14	
27	293.25	293.42	293.29	293.28	293.48	293.34	293.44	293.27	293.16	293.14	293.14	293.14	
28	293.32	293.42	293.27	293.30	293.58	293.43	293.42	293.25	293.16	293.14	293.14	293.14	
29	293.69	293.42	293.24	293.29	293.55	293.51	293.40	293.24	293.16	293.14		293.14	
30	293.28	293.42	293.22	293.32	293.49	293.52	293.42	293.23	293.16	293.14		293.14	
31		293.42		293.31	293.43		293.42		293.16	293.14		293.14	
Mean	293.26	293.30	293.18	293.23	293.33	293.48	293.52	293.35	293.20	293.14	293.14	293.14	
Max	293.69	293.43	293.44	293.43	293.58	293.74	294.03	293.45	293.25	293.16	293.14	293.14	294.03
Min	293.22	293.24	293.02	293.09	293.17	293.34	293.36	293.23	293.16	293.14	293.14	293.14	293.02

Annual Max Momentary Gage Height	294.17	m. (MSL.) ,	at 09.00 Hours, on Oct 7, 2014		
Zero Gage at Bottom Elevation	293.22	m. (MSL.) ,	River Bed	292.64	m. (MSL.)
Left Bank Elevation	299.13	m. (MSL.) ,			
Right Bank Elevation	299.11	m. (MSL.) ,	Drainage Area	143	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.47	0.33	0.44	0.40	3.80	2.40	0.80	0.36	0.24	0.21	0.21		
2	0.33	0.45	0.24	0.36	0.38	2.00	1.80	0.64	0.35	0.24	0.21	0.21		
3	0.33	0.40	0.24	0.30	0.36	1.00	0.76	0.76	0.38	0.24	0.21	0.21		
4	0.33	0.40	0.16	0.27	0.36	0.92	0.60	0.64	0.36	0.22	0.21	0.21		
5	0.33	0.40	0.11	0.24	0.27	0.64	0.54	0.60	0.38	0.22	0.21	0.21		
6	0.33	0.40	0.06	0.24	0.26	1.80	2.00	0.60	0.36	0.22	0.21	0.21		
7	0.33	0.40	0.04	0.22	0.33	2.40	13.40	0.68	0.36	0.22	0.21	0.21		
8	0.33	0.40	0.03	0.20	0.42	3.20	6.40	0.68	0.36	0.24	0.21	0.21		
9	0.33	0.40	0.03	0.16	0.88	2.00	4.80	0.64	0.35	0.22	0.21	0.21		
10	0.33	0.40	0.03	0.15	0.60	2.00	3.80	0.64	0.35	0.22	0.21	0.21		
11	0.33	0.40	0.03	0.15	0.56	5.80	5.40	0.60	0.36	0.22	0.21	0.21		
12	0.33	0.40	0.03	0.13	0.51	1.80	4.00	0.60	0.36	0.21	0.21	0.21		
13	0.35	0.36	0.03	0.13	0.48	1.00	1.20	0.57	0.35	0.21	0.21	0.21		
14	0.36	0.36	0.03	0.36	0.44	2.40	0.88	0.59	0.33	0.21	0.21	0.21		
15	0.36	0.36	0.03	0.36	0.39	0.80	0.76	0.57	0.30	0.21	0.21	0.21		
16	0.38	0.36	0.03	0.42	0.36	0.68	0.68	0.53	0.29	0.21	0.21	0.21		
17	0.38	0.36	0.76	0.40	0.35	0.68	0.64	0.53	0.27	0.21	0.21	0.21		
18	0.38	0.72	0.60	0.22	0.53	0.60	0.60	0.53	0.27	0.21	0.21	0.21		
19	0.39	0.53	0.59	0.24	0.53	0.56	0.60	0.49	0.27	0.21	0.21	0.21		
20	0.39	0.48	0.60	0.27	0.47	0.72	0.64	0.48	0.26	0.21	0.21	0.21		
21	0.39	0.40	0.54	0.39	0.51	1.00	4.40	0.48	0.26	0.21	0.21	0.21		
22	0.39	0.40	0.49	0.42	0.47	0.60	1.80	0.45	0.26	0.21	0.21	0.21		
23	0.39	0.38	0.48	0.72	0.40	0.56	0.96	0.44	0.24	0.21	0.21	0.21		
24	0.38	0.36	0.47	0.57	0.39	0.59	0.80	0.42	0.24	0.21	0.21	0.21		
25	0.38	0.36	0.47	0.49	0.38	0.54	1.00	0.42	0.24	0.21	0.21	0.21		
26	0.38	0.36	0.45	0.45	0.54	0.53	0.88	0.42	0.24	0.21	0.21	0.21		
27	0.38	0.68	0.44	0.42	0.92	0.51	0.76	0.40	0.24	0.21	0.21	0.21		
28	0.48	0.68	0.40	0.45	2.60	0.72	0.68	0.38	0.24	0.21	0.21	0.21		
29	4.80	0.68	0.36	0.44	2.00	1.20	0.60	0.36	0.24	0.21		0.21		
30	0.42	0.68	0.33	0.48	0.96	1.40	0.68	0.35	0.24	0.21		0.21		
31		0.68		0.47	0.72		0.68		0.24	0.21		0.21		
Total	15.34	14.11	8.43	10.56	18.77	42.45	65.14	16.29	9.35	6.70	5.88	6.51	219.53	CMSDAY
Mean	0.51	0.46	0.28	0.34	0.61	1.42	2.10	0.54	0.30	0.22	0.21	0.21	0.60	CMS
Max	4.80	0.72	0.76	0.72	2.60	5.80	13.40	0.80	0.38	0.24	0.21	0.21	13.40	CMS
Min	0.33	0.36	0.03	0.13	0.26	0.51	0.54	0.35	0.24	0.21	0.21	0.21	0.03	CMS
Runoff	1.33	1.22	0.73	0.91	1.62	3.67	5.63	1.41	0.81	0.58	0.51	0.56	18.97	MCM

Momentary Peak 17.95 CMS, at 294.17 m. (MSL.), at 09.00 Hours, on Oct 7, 2014

Runoff Yield 4.21 Liters/Second/Square KM. Momentary Peak Yield 125.524 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

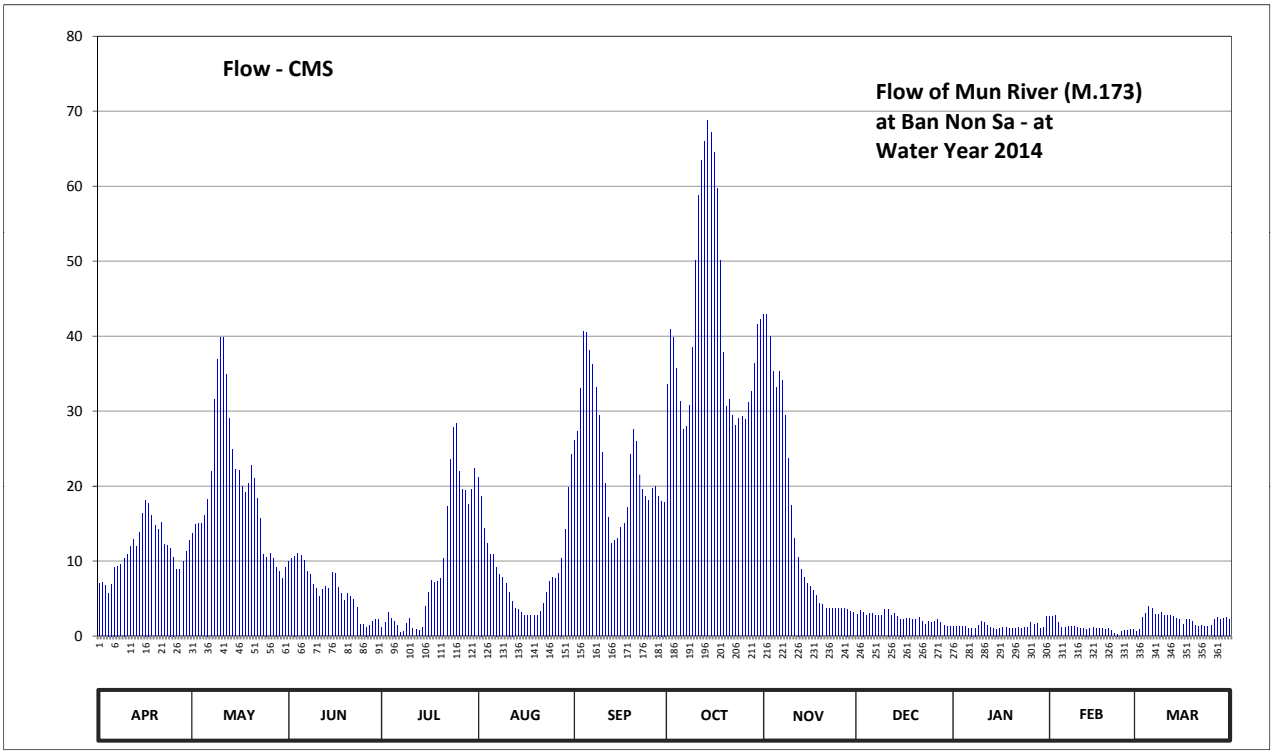
Location : on right bank at Ban Non Sa - at.

	Ban Non Sa - at	**Amphoe** Chok Chai	**Changwat** Nakhon Ratchasima
Drainge Area	4,211 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+174.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +183.884 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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.88	177.43	177.12	176.24	178.01	178.39	178.97	179.66	176.52	176.29	176.49	176.09	
2	176.89	177.53	177.15	176.37	177.82	178.48	179.53	179.66	176.57	176.29	176.48	176.15	
3	176.85	177.54	177.18	176.54	177.49	178.93	179.45	179.46	176.55	176.30	176.50	176.47	
4	176.77	177.54	177.21	176.45	177.32	179.51	179.13	179.10	176.51	176.30	176.37	176.53	
5	176.87	177.62	177.19	176.40	177.20	179.50	178.79	178.94	176.53	176.28	176.25	176.62	
6	177.06	177.79	177.13	176.31	177.20	179.32	178.51	179.10	176.53	176.21	176.26	176.60	
7	177.07	178.07	177.01	176.01	177.06	179.17	178.54	179.01	176.50	176.22	176.30	176.52	
8	177.09	178.81	176.98	176.07	176.98	178.94	178.75	178.65	176.50	176.22	176.30	176.52	
9	177.16	179.22	176.86	176.36	176.94	178.65	179.35	178.21	176.51	176.31	176.29	176.55	
10	177.20	179.45	176.82	176.45	176.88	178.27	180.12	177.72	176.58	176.39	176.24	176.50	
11	177.29	179.45	176.73	176.20	176.78	177.95	180.63	177.38	176.59	176.38	176.20	176.51	
12	177.36	179.07	176.81	176.14	176.68	177.60	180.91	177.17	176.51	176.32	176.20	176.50	
13	177.29	178.62	176.84	176.10	176.60	177.32	181.05	177.03	176.53	176.26	176.18	176.49	
14	177.44	178.30	176.82	176.24	176.58	177.35	181.19	176.94	176.49	176.19	176.20	176.45	
15	177.64	178.10	177.00	176.62	176.54	177.38	181.11	176.88	176.44	176.18	176.23	176.42	
16	177.78	178.08	176.99	176.78	176.50	177.50	180.97	176.84	176.44	176.19	176.19	176.34	
17	177.75	177.92	176.83	176.91	176.50	177.54	180.69	176.80	176.45	176.23	176.20	176.44	
18	177.62	177.86	176.76	176.89	176.50	177.70	180.12	176.74	176.45	176.26	176.21	176.42	
19	177.52	177.95	176.69	176.90	176.50	178.25	179.30	176.66	176.43	176.20	176.15	176.39	
20	177.48	178.14	176.76	176.93	176.50	178.51	178.74	176.64	176.43	176.20	176.19	176.31	
21	177.55	178.00	176.73	177.15	176.56	178.38	178.81	176.60	176.47	176.21	176.11	176.30	
22	177.31	177.80	176.70	177.71	176.65	178.04	178.65	176.60	176.39	176.24	175.95	176.31	
23	177.30	177.59	176.61	178.20	176.78	177.89	178.55	176.60	176.33	176.21	175.94	176.30	
24	177.27	177.20	176.33	178.53	176.90	177.82	178.62	176.60	176.39	176.24	176.07	176.30	
25	177.17	177.17	176.33	178.57	176.94	177.78	178.64	176.60	176.37	176.25	176.10	176.32	
26	177.03	177.21	176.27	178.07	176.93	177.90	178.61	176.60	176.40	176.38	176.10	176.44	
27	177.03	177.15	176.32	177.89	176.99	177.92	178.78	176.60	176.43	176.34	176.16	176.46	
28	177.12	177.06	176.39	177.88	177.16	177.82	178.90	176.59	176.38	176.35	176.16	176.44	
29	177.23	177.01	176.42	177.73	177.48	177.77	179.18	176.56	176.31	176.20		176.45	
30	177.35	176.93	176.43	177.89	177.91	177.76	179.57	176.54	176.30	176.25		176.46	
31		177.05		178.11	178.25		179.62		176.29	176.49		176.42	
Mean	177.25	177.89	176.78	176.99	177.00	178.18	179.48	177.48	176.46	176.27	176.21	176.42	
Max	177.78	179.45	177.21	178.57	178.25	179.51	181.19	179.66	176.59	176.49	176.50	176.62	181.19
Min	176.77	176.93	176.27	176.01	176.50	177.32	178.51	176.54	176.29	176.18	175.94	176.09	175.94

Annual Max Momentary Gage Height	181.20	m. (MSL.) ,	at 05.00 Hours, on Oct 14, 2014		
Zero Gage at Bottom Elevation	174.80	m. (MSL.) ,	River Bed	175.38	m. (MSL.)
Left Bank Elevation	183.88	m. (MSL.) ,			
Right Bank Elevation	183.86	m. (MSL.) ,	Drainage Area	4211	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.06	13.66	9.94	1.12	21.13	26.07	33.61	42.90	2.90	1.27	2.63	0.67		
2	7.18	14.89	10.30	1.79	18.66	27.24	40.95	42.90	3.40	1.27	2.56	0.85		
3	6.70	15.02	10.66	3.10	14.38	33.09	39.85	39.98	3.20	1.30	2.70	2.49		
4	5.74	15.02	11.02	2.35	12.34	40.65	35.69	35.30	2.80	1.30	1.79	3.00		
5	6.94	16.06	10.78	2.00	10.90	40.50	31.27	33.22	3.00	1.24	1.15	3.94		
6	9.22	18.27	10.06	1.37	10.90	38.16	27.63	35.30	3.00	1.03	1.18	3.70		
7	9.34	21.91	8.62	0.43	9.22	36.21	28.02	34.13	2.70	1.06	1.30	2.90		
8	9.58	31.53	8.26	0.61	8.26	33.22	30.75	29.45	2.70	1.06	1.30	2.90		
9	10.42	36.86	6.82	1.72	7.78	29.45	38.55	23.73	2.80	1.37	1.27	3.20		
10	10.90	39.85	6.34	2.35	7.06	24.51	50.04	17.36	3.50	1.93	1.12	2.70		
11	11.98	39.85	5.26	1.00	5.86	20.35	58.71	13.06	3.60	1.86	1.00	2.80		
12	12.82	34.91	6.22	0.82	4.66	15.80	63.47	10.54	2.80	1.44	1.00	2.70		
13	11.98	29.06	6.58	0.70	3.70	12.34	66.00	8.86	3.00	1.18	0.94	2.63		
14	13.78	24.90	6.34	1.12	3.50	12.70	68.80	7.78	2.63	0.97	1.00	2.35		
15	16.32	22.30	8.50	3.94	3.10	13.06	67.20	7.06	2.28	0.94	1.09	2.14		
16	18.14	22.04	8.38	5.86	2.70	14.50	64.49	6.58	2.28	0.97	0.97	1.58		
17	17.75	19.96	6.46	7.42	2.70	15.02	59.73	6.10	2.35	1.09	1.00	2.28		
18	16.06	19.18	5.62	7.18	2.70	17.10	50.04	5.38	2.35	1.18	1.03	2.14		
19	14.76	20.35	4.78	7.30	2.70	24.25	37.90	4.42	2.21	1.00	0.85	1.93		
20	14.26	22.82	5.62	7.66	2.70	27.63	30.62	4.18	2.21	1.00	0.97	1.37		
21	15.15	21.00	5.26	10.30	3.30	25.94	31.53	3.70	2.49	1.03	0.73	1.30		
22	12.22	18.40	4.90	17.23	4.30	21.52	29.45	3.70	1.93	1.12	0.30	1.37		
23	12.10	15.67	3.82	23.60	5.86	19.57	28.15	3.70	1.51	1.03	0.28	1.30		
24	11.74	10.90	1.51	27.89	7.30	18.66	29.06	3.70	1.93	1.12	0.61	1.30		
25	10.54	10.54	1.51	28.41	7.78	18.14	29.32	3.70	1.79	1.15	0.70	1.44		
26	8.86	11.02	1.21	21.91	7.66	19.70	28.93	3.70	2.00	1.86	0.70	2.28		
27	8.86	10.30	1.44	19.57	8.38	19.96	31.14	3.70	2.21	1.58	0.88	2.42		
28	9.94	9.22	1.93	19.44	10.42	18.66	32.70	3.60	1.86	1.65	0.88	2.28		
29	11.26	8.62	2.14	17.49	14.26	18.01	36.34	3.30	1.37	1.00		2.35		
30	12.70	7.66	2.21	19.57	19.83	17.88	41.55	3.10	1.30	1.15		2.42		
31		9.10		22.43	24.25		42.30		1.27	2.63		2.14		
Total	344.30	610.87	182.49	287.68	268.29	699.89	1283.79	444.13	75.37	39.78	31.93	68.87	4337.39	CMSDAY
Mean	11.48	19.71	6.08	9.28	8.65	23.33	41.41	14.80	2.43	1.28	1.14	2.22	11.88	CMS
Max	18.14	39.85	11.02	28.41	24.25	40.65	68.80	42.90	3.60	2.63	2.70	3.94	68.80	CMS
Min	5.74	7.66	1.21	0.43	2.70	12.34	27.63	3.10	1.27	0.94	0.28	0.67	0.28	CMS
Runoff	29.75	52.78	15.77	24.86	23.18	60.47	110.92	38.37	6.51	3.44	2.76	5.95	374.75	MCM

Momentary Peak 69.00 CMS, at 181.20 m. (MSL.), at 05.00 Hours, on Oct 14, 2014

Runoff Yield 2.82 Liters/Second/Square KM. Momentary Peak Yield 16.386 Liters/Second/Square KM.

WATER YEAR : 2014

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

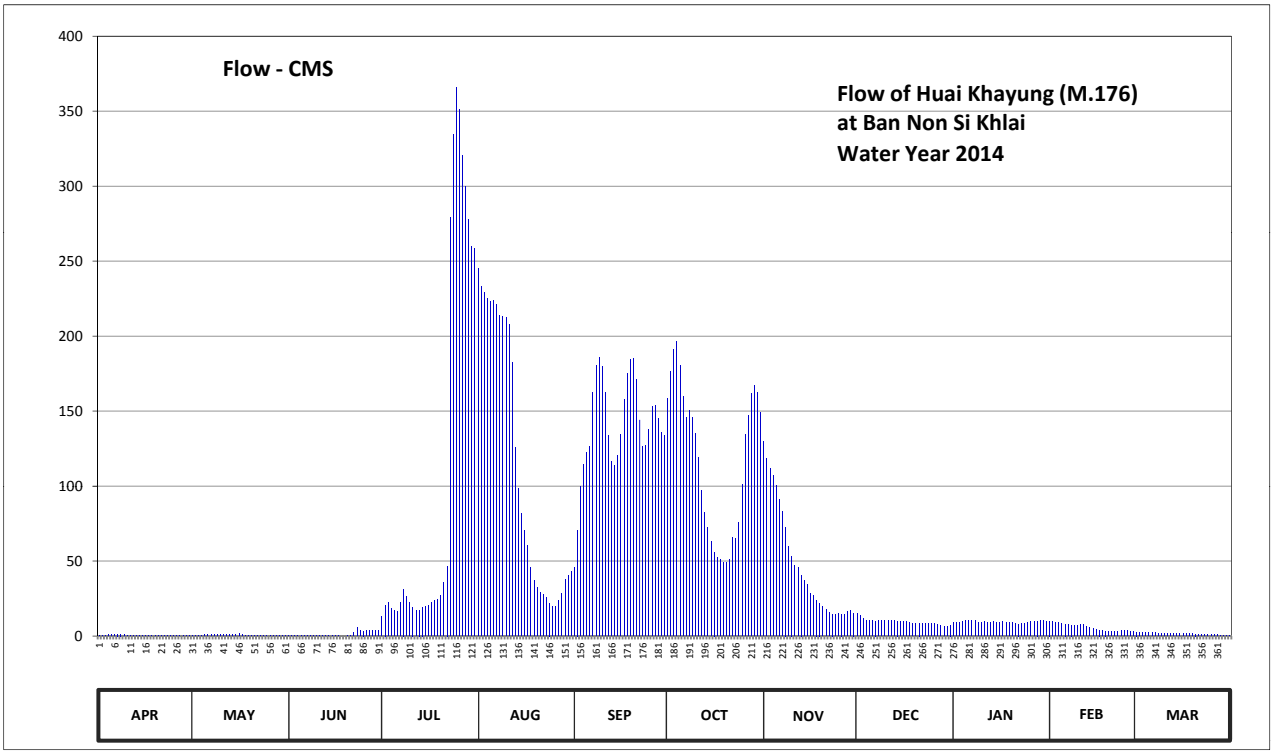
Location : on left bank at Ban Non Si Khlai.

	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**	+124.131 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 71 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.82	110.81	110.65	112.27	119.61	114.02	117.60	116.78	112.40	111.99	112.07	111.33	
2	110.83	110.80	110.65	112.78	119.36	114.89	118.06	116.46	112.30	112.00	112.04	111.29	
3	110.90	110.82	110.66	112.89	119.28	115.87	118.43	116.27	112.17	112.01	111.99	111.28	
4	110.97	110.88	110.67	112.62	119.20	116.34	118.55	116.10	112.10	112.04	111.99	111.26	
5	110.98	110.99	110.68	112.53	119.15	116.57	118.17	115.89	112.08	112.09	111.96	111.24	
6	111.03	110.99	110.68	112.50	119.16	116.68	117.64	115.56	112.09	112.09	111.93	111.24	
7	111.08	110.98	110.67	112.89	119.10	117.72	117.24	115.31	112.07	112.08	111.90	111.22	
8	111.08	110.98	110.67	113.37	118.94	118.16	117.38	114.96	112.10	112.08	111.89	111.17	
9	111.02	110.97	110.67	113.12	118.92	118.29	117.24	114.53	112.09	111.99	111.86	111.15	
10	110.92	110.97	110.67	112.90	118.91	118.15	116.93	114.31	112.08	111.99	111.85	111.14	
11	110.88	110.96	110.67	112.69	118.80	117.71	116.48	114.09	112.10	112.05	111.90	111.11	
12	110.79	110.96	110.66	112.53	118.21	116.90	115.77	114.03	112.10	112.01	111.91	111.16	
13	110.77	110.96	110.66	112.56	116.67	116.39	115.28	113.83	112.08	112.00	111.82	111.15	
14	110.77	110.96	110.66	112.69	115.82	116.32	114.95	113.65	112.07	112.05	111.76	111.14	
15	110.80	111.02	110.66	112.70	115.25	116.52	114.64	113.51	112.04	112.02	111.70	111.13	
16	110.79	111.10	110.65	112.76	114.88	116.91	114.40	113.23	112.03	112.01	111.65	111.14	
17	110.76	111.02	110.65	112.90	114.55	117.59	114.28	113.16	112.04	112.04	111.60	111.12	
18	110.73	110.90	110.64	112.97	114.03	118.03	114.23	113.00	111.99	112.02	111.56	111.11	
19	110.74	110.87	110.64	113.01	113.66	118.27	114.17	112.87	111.97	112.01	111.47	111.10	
20	110.74	110.87	110.67	113.15	113.42	118.28	114.16	112.72	111.97	112.00	111.45	111.08	
21	110.76	110.86	110.79	113.58	113.25	117.93	114.23	112.59	111.98	111.97	111.44	111.05	
22	110.75	110.84	111.31	114.07	113.18	117.19	114.72	112.44	111.97	111.93	111.45	111.04	
23	110.76	110.80	111.76	120.20	113.08	116.69	114.70	112.38	111.96	111.96	111.43	111.04	
24	110.76	110.79	111.50	121.01	112.87	116.71	115.05	112.37	111.96	111.97	111.53	111.03	
25	110.80	110.75	111.48	121.36	112.72	117.02	115.90	112.40	111.94	111.99	111.53	111.01	
26	110.88	110.69	111.55	121.21	112.71	117.45	116.91	112.38	111.94	112.04	111.49	110.98	
27	110.86	110.68	111.57	120.83	112.97	117.47	117.27	112.37	111.91	112.05	111.42	110.96	
28	110.83	110.67	111.54	120.54	113.23	117.22	117.69	112.48	111.87	112.07	111.39	110.91	
29	110.82	110.66	111.52	120.18	113.68	116.95	117.83	112.55	111.84	112.09		110.85	
30	110.81	110.66	111.50	119.88	113.81	116.90	117.72	112.42	111.84	112.08		110.83	
31		110.65		119.86	113.91		117.34		111.89	112.06		110.80	
Mean	110.85	110.87	110.93	115.11	115.88	117.04	116.29	113.82	112.03	112.03	111.71	111.10	
Max	111.08	111.10	111.76	121.36	119.61	118.29	118.55	116.78	112.40	112.09	112.07	111.33	121.36
Min	110.73	110.65	110.64	112.27	112.71	114.02	114.16	112.37	111.84	111.93	111.39	110.80	110.64

Annual Max Momentary Gage Height	121.37	m. (MSL.) ,	at 12.00 Hours, on Jul 25, 2014		
Zero Gage at Bottom Elevation	110.21	m. (MSL.) ,	River Bed	109.89	m. (MSL.)
Left Bank Elevation	123.86	m. (MSL.) ,			
Right Bank Elevation	123.60	m. (MSL.) ,	Drainage Area	3131	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	0.14	0.03	13.05	245.50	45.50	158.50	129.80	15.00	8.85	10.05	2.65		
2	0.22	0.10	0.03	20.70	233.00	70.70	176.40	118.60	13.50	9.00	9.60	2.45		
3	0.50	0.18	0.03	22.35	229.10	100.10	191.20	112.10	11.55	9.15	8.85	2.40		
4	0.85	0.42	0.03	18.30	225.50	114.40	196.25	107.00	10.50	9.60	8.85	2.30		
5	0.90	0.95	0.04	16.95	223.25	122.45	180.80	100.70	10.20	10.35	8.40	2.20		
6	1.15	0.95	0.04	16.50	223.70	126.30	159.90	90.80	10.35	10.35	7.95	2.20		
7	1.40	0.90	0.03	22.35	221.00	162.80	145.90	83.30	10.05	10.20	7.50	2.10		
8	1.40	0.90	0.03	31.40	213.80	180.40	150.80	72.80	10.50	10.20	7.35	1.85		
9	1.10	0.85	0.03	26.40	212.90	185.60	145.90	59.90	10.35	8.85	6.90	1.75		
10	0.60	0.85	0.03	22.50	212.45	180.00	135.05	53.30	10.20	8.85	6.75	1.70		
11	0.42	0.80	0.03	19.35	207.50	162.40	119.30	47.25	10.50	9.75	7.50	1.55		
12	0.09	0.80	0.03	16.95	182.40	134.00	97.10	45.75	10.50	9.15	7.65	1.80		
13	0.08	0.80	0.03	17.40	125.95	116.15	82.40	40.75	10.20	9.00	6.30	1.75		
14	0.08	0.80	0.03	19.35	98.60	113.70	72.50	37.00	10.05	9.75	5.60	1.70		
15	0.10	1.10	0.03	19.50	81.50	120.70	63.20	34.20	9.60	9.30	5.00	1.65		
16	0.09	1.50	0.03	20.40	70.40	134.35	56.00	28.60	9.45	9.15	4.50	1.70		
17	0.08	1.10	0.03	22.50	60.50	158.15	52.40	27.20	9.60	9.60	4.00	1.60		
18	0.07	0.50	0.02	23.55	45.75	175.20	50.90	24.00	8.85	9.30	3.80	1.55		
19	0.07	0.38	0.02	24.20	37.20	184.80	49.25	22.05	8.55	9.15	3.35	1.50		
20	0.07	0.38	0.03	27.00	32.40	185.20	49.00	19.80	8.55	9.00	3.25	1.40		
21	0.08	0.34	0.09	35.60	29.00	171.20	50.90	17.85	8.70	8.55	3.20	1.25		
22	0.07	0.26	2.55	46.75	27.60	144.15	65.60	15.60	8.55	7.95	3.25	1.20		
23	0.08	0.10	5.60	279.00	25.60	126.65	65.00	14.70	8.40	8.40	3.15	1.20		
24	0.08	0.09	3.50	334.80	22.05	127.35	75.50	14.55	8.40	8.55	3.65	1.15		
25	0.10	0.07	3.40	366.00	19.80	138.20	101.00	15.00	8.10	8.85	3.65	1.05		
26	0.42	0.05	3.75	351.00	19.65	153.25	134.35	14.70	8.10	9.60	3.45	0.90		
27	0.34	0.04	3.85	320.40	23.55	153.95	146.95	14.55	7.65	9.75	3.10	0.80		
28	0.22	0.03	3.70	299.80	28.60	145.20	161.65	16.20	7.05	10.05	2.95	0.55		
29	0.18	0.03	3.60	277.80	37.60	135.75	167.20	17.25	6.60	10.35		0.30		
30	0.14	0.03	3.50	259.90	40.25	134.00	162.80	15.30	6.60	10.20		0.22		
31		0.03		258.80	42.75		149.40		7.35	9.90		0.10		
Total	11.16	15.47	34.14	3250.55	3498.85	4202.60	3613.10	1410.60	293.55	290.70	159.55	46.52	16826.79	CMSDAY
Mean	0.37	0.50	1.14	104.86	112.87	140.09	116.55	47.02	9.47	9.38	5.70	1.50	46.10	CMS
Max	1.40	1.50	5.60	366.00	245.50	185.60	196.25	129.80	15.00	10.35	10.05	2.65	366.00	CMS
Min	0.07	0.03	0.02	13.05	19.65	45.50	49.00	14.55	6.60	7.95	2.95	0.10	0.02	CMS
Runoff	0.96	1.34	2.95	280.85	302.30	363.11	312.17	121.88	25.36	25.12	13.79	4.02	1453.84	MCM

Momentary Peak 367.00 CMS, at 121.37 m. (MSL.), at 12.00 Hours, on Jul 25, 2014

Runoff Yield 14.72 Liters/Second/Square KM. Momentary Peak Yield 117.215 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Ta Khong at Ban Non Sawang, Nakhon Ratchasima (M.177)

Lat 14 - 50 - 57 N Long 101 - 37 - 12 E

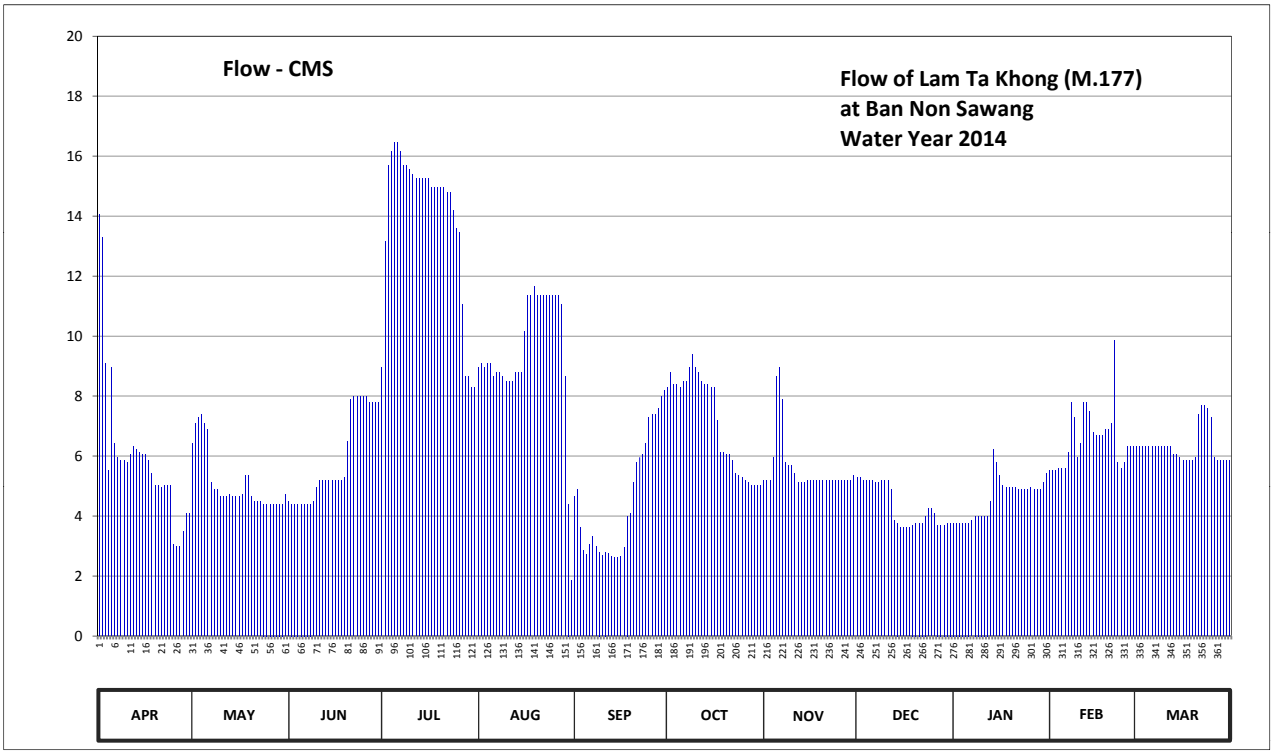
Location : on right bank at the bridge.

	Ban Non Sawang	**Amphoe** Si Khiu	**Changwat** Nakhon Ratchasima
Drainge Area	1,519 sq.km.		
Type of Gage	Water - stage recorder		
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	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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	240.07	239.49	239.26	239.73	239.73	239.28	239.68	239.35	239.36	239.17	239.39	239.48	
2	240.02	239.56	239.25	240.01	239.74	239.31	239.72	239.35	239.36	239.17	239.39	239.48	
3	239.74	239.58	239.25	240.18	239.73	239.15	239.69	239.35	239.35	239.17	239.39	239.48	
4	239.39	239.59	239.25	240.21	239.74	239.02	239.69	239.44	239.35	239.17	239.40	239.48	
5	239.73	239.56	239.25	240.23	239.74	238.99	239.68	239.71	239.35	239.17	239.40	239.48	
6	239.49	239.54	239.25	240.23	239.71	239.06	239.70	239.73	239.35	239.17	239.40	239.48	
7	239.44	239.34	239.25	240.21	239.72	239.11	239.70	239.64	239.34	239.18	239.46	239.48	
8	239.43	239.31	239.25	240.18	239.72	239.05	239.73	239.42	239.34	239.20	239.63	239.48	
9	239.43	239.31	239.26	240.18	239.71	239.01	239.76	239.41	239.35	239.20	239.58	239.48	
10	239.42	239.28	239.32	240.17	239.70	238.98	239.73	239.41	239.35	239.20	239.44	239.48	
11	239.45	239.28	239.35	240.16	239.70	239.01	239.72	239.38	239.35	239.20	239.49	239.48	
12	239.48	239.28	239.35	240.15	239.70	239.00	239.70	239.34	239.31	239.20	239.63	239.48	
13	239.47	239.29	239.35	240.15	239.72	238.97	239.69	239.34	239.18	239.26	239.63	239.45	
14	239.46	239.28	239.35	240.15	239.72	238.96	239.69	239.34	239.17	239.47	239.60	239.45	
15	239.45	239.28	239.35	240.15	239.72	238.96	239.68	239.35	239.15	239.42	239.53	239.44	
16	239.45	239.28	239.35	240.15	239.81	238.97	239.68	239.35	239.15	239.37	239.52	239.43	
17	239.43	239.29	239.35	240.13	239.89	239.04	239.57	239.35	239.15	239.33	239.52	239.43	
18	239.38	239.37	239.35	240.13	239.89	239.20	239.46	239.35	239.15	239.32	239.52	239.43	
19	239.33	239.37	239.36	240.13	239.91	239.21	239.46	239.35	239.16	239.32	239.54	239.43	
20	239.33	239.28	239.50	240.13	239.89	239.34	239.45	239.35	239.17	239.32	239.54	239.44	
21	239.32	239.26	239.64	240.13	239.89	239.42	239.45	239.35	239.17	239.32	239.56	239.59	
22	239.33	239.26	239.65	240.12	239.89	239.44	239.43	239.35	239.17	239.31	239.79	239.62	
23	239.33	239.26	239.65	240.12	239.89	239.45	239.38	239.35	239.20	239.31	239.42	239.62	
24	239.33	239.25	239.65	240.08	239.89	239.49	239.37	239.35	239.23	239.31	239.40	239.61	
25	239.06	239.25	239.65	240.04	239.89	239.58	239.36	239.35	239.23	239.31	239.42	239.58	
26	239.05	239.25	239.65	240.03	239.89	239.59	239.35	239.35	239.21	239.32	239.48	239.44	
27	239.05	239.25	239.63	239.87	239.89	239.59	239.34	239.35	239.16	239.31	239.48	239.43	
28	239.13	239.25	239.63	239.71	239.87	239.61	239.33	239.35	239.16	239.31	239.48	239.43	
29	239.21	239.25	239.63	239.71	239.71	239.65	239.33	239.35	239.16	239.31		239.43	
30	239.21	239.25	239.63	239.68	239.25	239.67	239.33	239.37	239.17	239.34		239.43	
31		239.29		239.68	238.70		239.33		239.17	239.38		239.43	
Mean	239.41	239.33	239.42	240.06	239.74	239.24	239.55	239.39	239.24	239.28	239.50	239.48	
Max	240.07	239.59	239.65	240.23	239.91	239.67	239.76	239.73	239.36	239.47	239.79	239.62	240.23
Min	239.05	239.25	239.25	239.68	238.70	238.96	239.33	239.34	239.15	239.17	239.39	239.43	238.70

Annual Max Momentary Gage Height	240.23	m. (MSL.) ,	at 18.00 Hours, on Jul 4, 2014		
Zero Gage at Bottom Elevation	236.70	m. (MSL.) ,	River Bed	237.40	m. (MSL.)
Left Bank Elevation	243.95	m. (MSL.) ,			
Right Bank Elevation	243.92	m. (MSL.) ,	Drainage Area	1519	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.05	6.41	4.48	8.95	8.95	4.64	8.30	5.20	5.28	3.77	5.52	6.32		
2	13.30	7.10	4.40	13.15	9.10	4.88	8.80	5.20	5.28	3.77	5.52	6.32		
3	9.10	7.30	4.40	15.70	8.95	3.62	8.40	5.20	5.20	3.77	5.52	6.32		
4	5.52	7.40	4.40	16.15	9.10	2.85	8.40	5.96	5.20	3.77	5.60	6.32		
5	8.95	7.10	4.40	16.45	9.10	2.72	8.30	8.65	5.20	3.77	5.60	6.32		
6	6.41	6.90	4.40	16.45	8.65	3.05	8.50	8.95	5.20	3.77	5.60	6.32		
7	5.96	5.12	4.40	16.15	8.80	3.32	8.50	7.90	5.12	3.85	6.14	6.32		
8	5.87	4.88	4.40	15.70	8.80	3.00	8.95	5.78	5.12	4.00	7.80	6.32		
9	5.87	4.88	4.48	15.70	8.65	2.80	9.40	5.69	5.20	4.00	7.30	6.32		
10	5.78	4.64	4.96	15.55	8.50	2.69	8.95	5.69	5.20	4.00	5.96	6.32		
11	6.05	4.64	5.20	15.40	8.50	2.80	8.80	5.44	5.20	4.00	6.41	6.32		
12	6.32	4.64	5.20	15.25	8.50	2.75	8.50	5.12	4.88	4.00	7.80	6.32		
13	6.23	4.72	5.20	15.25	8.80	2.66	8.40	5.12	3.85	4.48	7.80	6.05		
14	6.14	4.64	5.20	15.25	8.80	2.63	8.40	5.12	3.77	6.23	7.50	6.05		
15	6.05	4.64	5.20	15.25	8.80	2.63	8.30	5.20	3.62	5.78	6.80	5.96		
16	6.05	4.64	5.20	15.25	10.15	2.66	8.30	5.20	3.62	5.36	6.70	5.87		
17	5.87	4.72	5.20	14.95	11.35	2.95	7.20	5.20	3.62	5.04	6.70	5.87		
18	5.44	5.36	5.20	14.95	11.35	4.00	6.14	5.20	3.62	4.96	6.70	5.87		
19	5.04	5.36	5.28	14.95	11.65	4.08	6.14	5.20	3.70	4.96	6.90	5.87		
20	5.04	4.64	6.50	14.95	11.35	5.12	6.05	5.20	3.77	4.96	6.90	5.96		
21	4.96	4.48	7.90	14.95	11.35	5.78	6.05	5.20	3.77	4.96	7.10	7.40		
22	5.04	4.48	8.00	14.80	11.35	5.96	5.87	5.20	3.77	4.88	9.85	7.70		
23	5.04	4.48	8.00	14.80	11.35	6.05	5.44	5.20	4.00	4.88	5.78	7.70		
24	5.04	4.40	8.00	14.20	11.35	6.41	5.36	5.20	4.24	4.88	5.60	7.60		
25	3.05	4.40	8.00	13.60	11.35	7.30	5.28	5.20	4.24	4.88	5.78	7.30		
26	3.00	4.40	8.00	13.45	11.35	7.40	5.20	5.20	4.08	4.96	6.32	5.96		
27	3.00	4.40	7.80	11.05	11.35	7.40	5.12	5.20	3.70	4.88	6.32	5.87		
28	3.48	4.40	7.80	8.65	11.05	7.60	5.04	5.20	3.70	4.88	6.32	5.87		
29	4.08	4.40	7.80	8.65	8.65	8.00	5.04	5.20	3.70	4.88		5.87		
30	4.08	4.40	7.80	8.30	4.40	8.20	5.04	5.36	3.77	5.12		5.87		
31		4.72		8.30	1.85		5.04		3.77	5.44		5.87		
Total	179.81	158.69	177.20	432.15	293.25	135.95	221.21	168.38	134.39	142.88	183.84	196.35	2424.10	CMSDAY
Mean	5.99	5.12	5.91	13.94	9.46	4.53	7.14	5.61	4.34	4.61	6.57	6.33	6.64	CMS
Max	14.05	7.40	8.00	16.45	11.65	8.20	9.40	8.95	5.28	6.23	9.85	7.70	16.45	CMS
Min	3.00	4.40	4.40	8.30	1.85	2.63	5.04	5.12	3.62	3.77	5.52	5.87	1.85	CMS
Runoff	15.54	13.71	15.31	37.34	25.34	11.75	19.11	14.55	11.61	12.35	15.88	16.97	209.44	MCM

Momentary Peak 16.45 CMS, at 240.23 m. (MSL.), at 18.00 Hours, on Jul 4, 2014

Runoff Yield 4.37 Liters/Second/Square KM. Momentary Peak Yield 10.829 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani (M.179A)

Lat 15 - 30 - 12 N Long 104 - 35 - 41 E

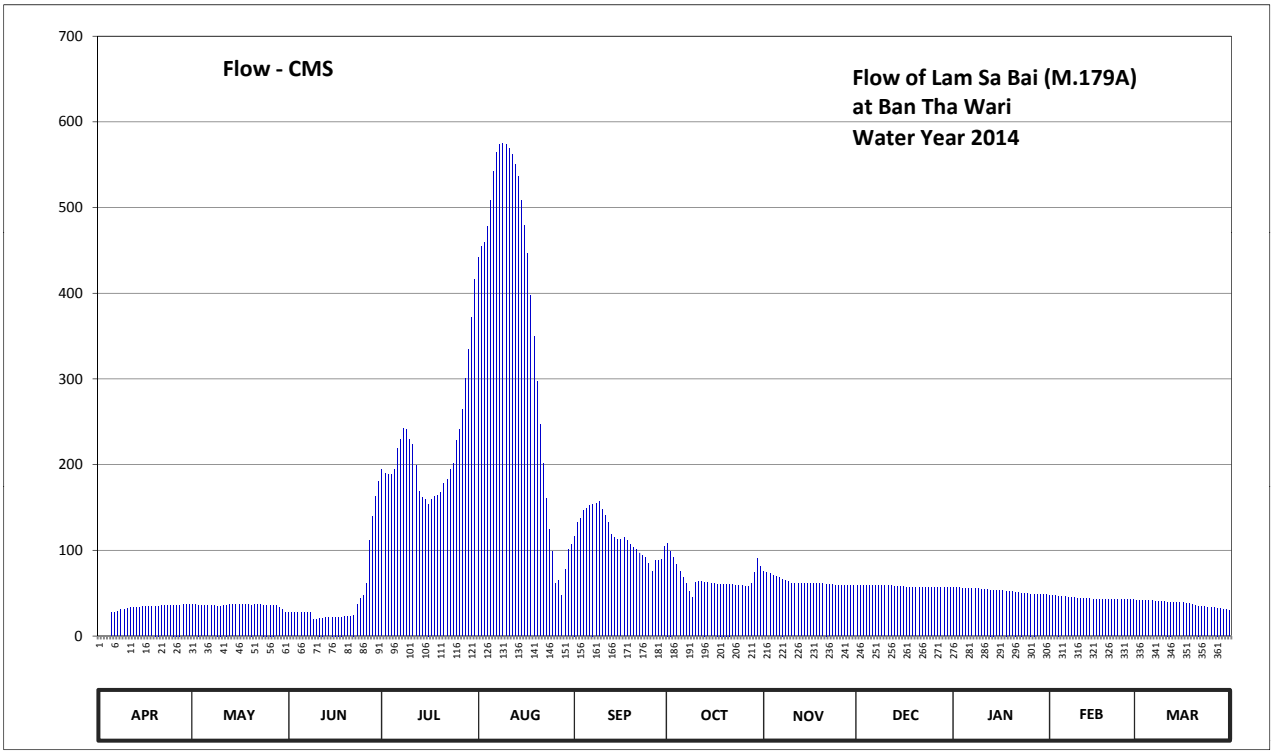
Location : on right bank at the bridge.

	Ban Pa Kor	**Amphoe** Khueang Nai	**Changwat** Ubon Ratchathani
Drainge Area	3,546 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** +13.600 m. (A.D.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 66 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.67	3.05	2.81	6.48	9.75	5.04	4.84	4.00	3.59	3.53	3.32	3.17	
2	2.69	3.04	2.80	6.40	9.91	5.39	4.61	3.97	3.59	3.53	3.31	3.17	
3	2.73	3.03	2.80	6.38	9.97	5.48	4.41	3.94	3.59	3.53	3.30	3.16	
4	2.77	3.02	2.80	6.38	10.20	5.68	4.21	3.89	3.59	3.52	3.29	3.16	
5	2.80	3.02	2.80	6.48	10.56	5.72	4.02	3.86	3.60	3.52	3.28	3.15	
6	2.82	3.02	2.80	6.89	10.93	5.78	3.83	3.83	3.60	3.51	3.27	3.15	
7	2.85	3.01	2.80	7.04	11.18	5.80	3.66	3.79	3.60	3.51	3.26	3.14	
8	2.89	3.01	2.80	7.22	11.28	5.82	3.42	3.75	3.60	3.50	3.25	3.14	
9	2.91	3.00	2.62	7.21	11.30	5.85	3.26	3.71	3.60	3.50	3.24	3.13	
10	2.93	3.00	2.60	7.03	11.29	5.70	3.68	3.67	3.60	3.49	3.23	3.13	
11	2.95	3.01	2.65	6.95	11.23	5.55	3.72	3.66	3.59	3.49	3.22	3.12	
12	2.95	3.03	2.65	6.55	11.15	5.40	3.72	3.66	3.59	3.48	3.22	3.12	
13	2.96	3.05	2.66	6.05	11.03	5.10	3.70	3.66	3.58	3.47	3.21	3.11	
14	2.97	3.05	2.67	5.93	10.87	4.99	3.68	3.66	3.58	3.47	3.21	3.11	
15	2.98	3.05	2.68	5.88	10.56	4.94	3.65	3.67	3.57	3.46	3.20	3.10	
16	2.98	3.04	2.68	5.80	10.21	4.94	3.65	3.67	3.56	3.46	3.20	3.10	
17	2.99	3.04	2.68	5.88	9.81	4.99	3.64	3.67	3.55	3.45	3.20	3.08	
18	2.99	3.05	2.68	5.94	9.19	4.92	3.64	3.66	3.55	3.44	3.20	3.06	
19	3.00	3.04	2.70	5.96	8.60	4.80	3.64	3.66	3.55	3.43	3.20	3.04	
20	3.00	3.03	2.70	6.02	7.94	4.72	3.64	3.65	3.55	3.42	3.20	3.02	
21	3.01	3.04	2.70	6.20	7.28	4.64	3.64	3.64	3.55	3.41	3.19	3.00	
22	3.01	3.04	2.74	6.29	6.60	4.55	3.62	3.63	3.55	3.39	3.19	2.99	
23	3.02	3.04	3.05	6.47	5.90	4.47	3.61	3.62	3.54	3.38	3.19	2.98	
24	3.02	3.03	3.23	6.60	5.22	4.41	3.60	3.61	3.54	3.37	3.19	2.97	
25	3.03	3.03	3.32	7.02	4.60	4.23	3.59	3.61	3.54	3.36	3.18	2.96	
26	3.03	3.03	3.66	7.20	3.67	4.01	3.58	3.60	3.53	3.35	3.18	2.95	
27	3.03	3.03	4.92	7.54	3.74	4.32	3.57	3.60	3.53	3.35	3.18	2.94	
28	3.04	3.02	5.53	7.99	3.30	4.33	3.66	3.59	3.53	3.34	3.18	2.92	
29	3.04	2.97	5.95	8.41	4.07	4.36	3.97	3.59	3.53	3.34		2.90	
30	3.04	2.89	6.25	8.88	4.64	4.75	4.38	3.59	3.53	3.33		2.89	
31		2.82		9.43	4.80		4.15		3.53	3.33		2.88	
Mean	2.94	3.02	3.19	6.79	8.41	5.02	3.81	3.70	3.57	3.44	3.22	3.06	
Max	3.04	3.05	6.25	9.43	11.30	5.85	4.84	4.00	3.60	3.53	3.32	3.17	11.30
Min	2.67	2.82	2.60	5.80	3.30	4.01	3.26	3.59	3.53	3.33	3.18	2.88	2.60

Annual Max Momentary Gage Height	11.30	m. (A.D.) ,	at 06.00 Hours, on Aug 9, 2014		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.21	m. (A.D.)
Left Bank Elevation	13.34	m. (A.D.) ,			
Right Bank Elevation	13.33	m. (A.D.) ,	Drainage Area	3546	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	37.00	27.40	194.80	442.00	116.60	108.60	75.00	58.60	56.20	47.80	41.80		
2	0.00	36.60	27.00	190.00	454.80	132.50	99.40	73.80	58.60	56.20	47.40	41.80		
3	0.00	36.20	27.00	188.80	459.60	137.00	91.40	72.60	58.60	56.20	47.00	41.40		
4	0.00	35.80	27.00	188.80	478.00	147.00	83.40	70.60	58.60	55.80	46.60	41.40		
5	27.00	35.80	27.00	194.80	508.40	149.20	75.80	69.40	59.00	55.80	46.20	41.00		
6	27.80	35.80	27.00	219.40	541.70	152.80	68.20	68.20	59.00	55.40	45.80	41.00		
7	29.00	35.40	27.00	229.80	564.20	154.00	61.40	66.60	59.00	55.40	45.40	40.60		
8	30.60	35.40	27.00	242.40	573.20	155.20	51.80	65.00	59.00	55.00	45.00	40.60		
9	31.40	35.00	19.80	241.70	575.00	157.00	45.40	63.40	59.00	55.00	44.60	40.20		
10	32.20	35.00	19.00	229.10	574.10	148.00	62.20	61.80	59.00	54.60	44.20	40.20		
11	33.00	35.40	21.00	223.50	568.70	140.50	63.80	61.40	58.60	54.60	43.80	39.80		
12	33.00	36.20	21.00	199.00	561.50	133.00	63.80	61.40	58.60	54.20	43.80	39.80		
13	33.40	37.00	21.40	169.00	550.70	119.00	63.00	61.40	58.20	53.80	43.40	39.40		
14	33.80	37.00	21.80	161.80	536.30	114.60	62.20	61.40	58.20	53.80	43.40	39.40		
15	34.20	37.00	22.20	158.80	508.40	112.60	61.00	61.80	57.80	53.40	43.00	39.00		
16	34.20	36.60	22.20	154.00	478.80	112.60	61.00	61.80	57.40	53.40	43.00	39.00		
17	34.60	36.60	22.20	158.80	446.80	114.60	60.60	61.80	57.00	53.00	43.00	38.20		
18	34.60	37.00	22.20	162.40	397.20	111.80	60.60	61.40	57.00	52.60	43.00	37.40		
19	35.00	36.60	23.00	163.60	350.00	107.00	60.60	61.40	57.00	52.20	43.00	36.60		
20	35.00	36.20	23.00	167.20	297.20	103.80	60.60	61.00	57.00	51.80	43.00	35.80		
21	35.40	36.60	23.00	178.00	246.60	100.60	60.60	60.60	57.00	51.40	42.60	35.00		
22	35.40	36.60	24.60	183.40	202.00	97.00	59.80	60.20	57.00	50.60	42.60	34.60		
23	35.80	36.60	37.00	194.20	160.00	93.80	59.40	59.80	56.60	50.20	42.60	34.20		
24	35.80	36.20	44.20	202.00	124.00	91.40	59.00	59.40	56.60	49.80	42.60	33.80		
25	36.20	36.20	47.80	228.40	99.00	84.20	58.60	59.40	56.60	49.40	42.20	33.40		
26	36.20	36.20	61.40	241.00	61.80	75.40	58.20	59.00	56.20	49.00	42.20	33.00		
27	36.20	36.20	111.80	265.20	64.60	87.80	57.80	59.00	56.20	49.00	42.20	32.60		
28	36.60	35.80	139.50	301.20	47.00	88.20	61.40	58.60	56.20	48.60	42.20	31.80		
29	36.60	33.80	163.00	334.80	77.80	89.40	73.80	58.60	56.20	48.60		31.00		
30	36.60	30.60	181.00	372.40	100.60	105.00	90.20	58.60	56.20	48.20		30.60		
31		27.80		416.40	107.00		81.00		56.20	48.20		30.20		
Total	879.60	1106.20	1308.50	6754.70	11157.00	3531.60	2084.60	1894.40	1786.20	1631.40	1231.60	1154.60	34520.40	CMSDAY
Mean	29.32	35.68	43.62	217.89	359.90	117.72	67.25	63.15	57.62	52.63	43.99	37.25	94.58	CMS
Max	36.60	37.00	181.00	416.40	575.00	157.00	108.60	75.00	59.00	56.20	47.80	41.80	575.00	CMS
Min	0.00	27.80	19.00	154.00	47.00	75.40	45.40	58.60	56.20	48.20	42.20	30.20	0.00	CMS
Runoff	76.00	95.58	113.05	583.61	963.97	305.13	180.11	163.68	154.33	140.95	106.41	99.76	2982.56	MCM

Momentary Peak 575.00 CMS, at 11.30 m. (A.D.), at 06.00 Hours, on Aug 9, 2014

Runoff Yield 26.67 Liters/Second/Square KM. Momentary Peak Yield 162.155 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Phra Phloeng at Ban Tha Yiam, Nakhon Ratchasima (M.180)

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

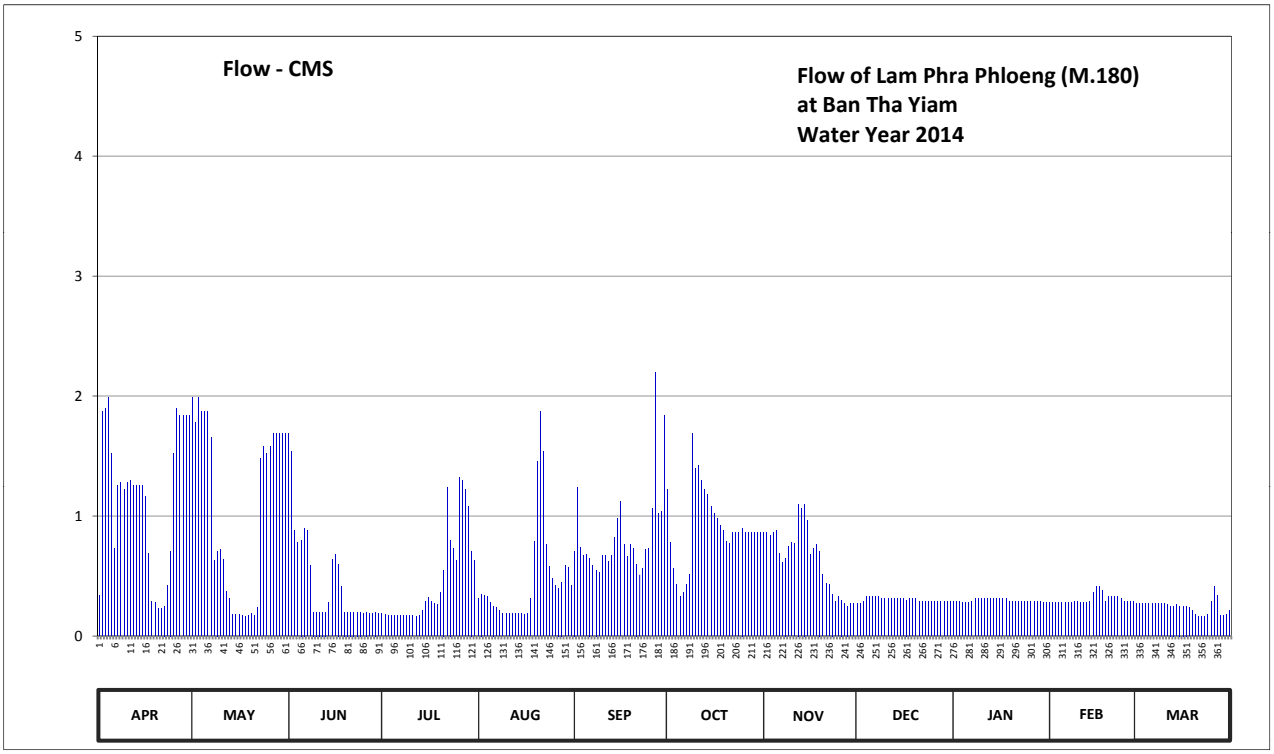
Location : on left bank at Ban Tha Yiam

	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**	+227.886 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurement made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	219.74	220.73	220.63	219.59	219.71	220.11	220.41	220.23	219.67	219.69	219.68	219.67	
2	220.69	220.66	220.57	219.58	219.75	220.42	220.18	220.23	219.67	219.69	219.68	219.67	
3	220.70	220.73	220.24	219.57	219.74	220.14	219.96	220.22	219.69	219.69	219.68	219.67	
4	220.73	220.69	220.18	219.57	219.73	220.07	219.83	220.23	219.73	219.68	219.68	219.67	
5	220.56	220.69	220.20	219.57	219.68	220.08	219.73	220.24	219.73	219.68	219.68	219.67	
6	220.13	220.69	220.25	219.57	219.65	220.05	219.76	220.09	219.73	219.68	219.68	219.67	
7	220.43	220.62	220.24	219.57	219.64	219.99	219.83	220.01	219.73	219.69	219.68	219.67	
8	220.44	220.03	219.99	219.57	219.61	219.95	219.91	220.05	219.73	219.71	219.68	219.67	
9	220.41	220.11	219.60	219.57	219.59	219.93	220.63	220.15	219.71	219.71	219.69	219.67	
10	220.44	220.12	219.60	219.57	219.59	220.07	220.50	220.18	219.71	219.71	219.69	219.67	
11	220.45	220.04	219.60	219.57	219.59	220.07	220.51	220.17	219.71	219.71	219.68	219.66	
12	220.43	219.77	219.60	219.56	219.59	220.02	220.45	220.35	219.71	219.71	219.68	219.65	
13	220.43	219.71	219.60	219.57	219.59	220.07	220.41	220.33	219.71	219.71	219.68	219.65	
14	220.43	219.58	219.68	219.61	219.59	220.21	220.39	220.35	219.71	219.71	219.69	219.66	
15	220.43	219.58	220.04	219.69	219.59	220.29	220.34	220.28	219.71	219.71	219.76	219.65	
16	220.38	219.58	220.08	219.72	219.58	220.36	220.31	220.08	219.71	219.71	219.81	219.65	
17	220.09	219.57	220.00	219.69	219.59	220.16	220.29	220.13	219.70	219.71	219.81	219.65	
18	219.69	219.56	219.81	219.67	219.71	220.06	220.26	220.16	219.71	219.71	219.78	219.64	
19	219.68	219.57	219.60	219.66	220.19	220.16	220.24	220.11	219.71	219.69	219.69	219.61	
20	219.63	219.59	219.60	219.76	220.53	220.13	220.19	219.91	219.71	219.69	219.73	219.58	
21	219.63	219.57	219.60	219.95	220.69	220.00	220.17	219.84	219.69	219.69	219.73	219.56	
22	219.65	219.64	219.60	220.42	220.57	219.91	220.23	219.83	219.69	219.69	219.73	219.56	
23	219.82	220.54	219.60	220.20	220.16	219.96	220.23	219.75	219.69	219.69	219.73	219.56	
24	220.11	220.59	219.60	220.13	219.98	220.12	220.23	219.69	219.69	219.69	219.71	219.58	
25	220.56	220.56	219.59	220.03	219.88	220.13	220.25	219.73	219.69	219.69	219.69	219.69	
26	220.70	220.59	219.60	220.46	219.82	220.33	220.23	219.70	219.69	219.69	219.69	219.81	
27	220.68	220.63	219.59	220.45	219.80	220.80	220.23	219.67	219.69	219.69	219.69	219.74	
28	220.68	220.63	219.59	220.41	219.85	220.31	220.23	219.65	219.69	219.69	219.69	219.57	
29	220.68	220.63	219.60	220.34	219.99	220.32	220.23	219.67	219.69	219.69		219.57	
30	220.68	220.63	219.59	220.11	219.97	220.68	220.23	219.67	219.69	219.68		219.58	
31		220.63		220.03	219.82		220.23		219.69	219.68		219.61	
Mean	220.30	220.20	219.84	219.83	219.83	220.16	220.21	220.02	219.70	219.70	219.71	219.64	
Max	220.73	220.73	220.63	220.46	220.69	220.80	220.63	220.35	219.73	219.71	219.81	219.81	220.80
Min	219.63	219.56	219.59	219.56	219.58	219.91	219.73	219.65	219.67	219.68	219.68	219.56	219.56

Annual Max Momentary Gage Height	220.85	m. (MSL.) ,	at 06.00 Hours, on Sep 27, 2014		
Zero Gage at Bottom Elevation	219.21	m. (MSL.) ,	River Bed	219.31	m. (MSL.)
Left Bank Elevation	227.57	m. (MSL.) ,			
Right Bank Elevation	227.57	m. (MSL.) ,	Drainage Area	864	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.34	1.99	1.69	0.19	0.31	0.71	1.22	0.86	0.27	0.29	0.28	0.27		
2	1.87	1.78	1.54	0.18	0.35	1.24	0.78	0.86	0.27	0.29	0.28	0.27		
3	1.90	1.99	0.88	0.17	0.34	0.74	0.56	0.84	0.29	0.29	0.28	0.27		
4	1.99	1.87	0.78	0.17	0.33	0.67	0.43	0.86	0.33	0.28	0.28	0.27		
5	1.52	1.87	0.80	0.17	0.28	0.68	0.33	0.88	0.33	0.28	0.28	0.27		
6	0.73	1.87	0.90	0.17	0.25	0.65	0.36	0.69	0.33	0.28	0.28	0.27		
7	1.26	1.66	0.88	0.17	0.24	0.59	0.43	0.61	0.33	0.29	0.28	0.27		
8	1.28	0.63	0.59	0.17	0.21	0.55	0.51	0.65	0.33	0.31	0.28	0.27		
9	1.22	0.71	0.20	0.17	0.19	0.53	1.69	0.75	0.31	0.31	0.29	0.27		
10	1.28	0.72	0.20	0.17	0.19	0.67	1.40	0.78	0.31	0.31	0.29	0.27		
11	1.30	0.64	0.20	0.17	0.19	0.67	1.42	0.77	0.31	0.31	0.28	0.26		
12	1.26	0.37	0.20	0.16	0.19	0.62	1.30	1.10	0.31	0.31	0.28	0.25		
13	1.26	0.31	0.20	0.17	0.19	0.67	1.22	1.06	0.31	0.31	0.28	0.25		
14	1.26	0.18	0.28	0.21	0.19	0.82	1.18	1.10	0.31	0.31	0.29	0.26		
15	1.26	0.18	0.64	0.29	0.19	0.98	1.08	0.96	0.31	0.31	0.36	0.25		
16	1.16	0.18	0.68	0.32	0.18	1.12	1.02	0.68	0.31	0.31	0.41	0.25		
17	0.69	0.17	0.60	0.29	0.19	0.76	0.98	0.73	0.30	0.31	0.41	0.25		
18	0.29	0.16	0.41	0.27	0.31	0.66	0.92	0.76	0.31	0.31	0.38	0.24		
19	0.28	0.17	0.20	0.26	0.79	0.76	0.88	0.71	0.31	0.29	0.29	0.21		
20	0.23	0.19	0.20	0.36	1.46	0.73	0.79	0.51	0.31	0.29	0.33	0.18		
21	0.23	0.17	0.20	0.55	1.87	0.60	0.77	0.44	0.29	0.29	0.33	0.16		
22	0.25	0.24	0.20	1.24	1.54	0.51	0.86	0.43	0.29	0.29	0.33	0.16		
23	0.42	1.48	0.20	0.80	0.76	0.56	0.86	0.35	0.29	0.29	0.33	0.16		
24	0.71	1.58	0.20	0.73	0.58	0.72	0.86	0.29	0.29	0.29	0.31	0.18		
25	1.52	1.52	0.19	0.63	0.48	0.73	0.90	0.33	0.29	0.29	0.29	0.29		
26	1.90	1.58	0.20	1.32	0.42	1.06	0.86	0.30	0.29	0.29	0.29	0.41		
27	1.84	1.69	0.19	1.30	0.40	2.20	0.86	0.27	0.29	0.29	0.29	0.34		
28	1.84	1.69	0.19	1.22	0.45	1.02	0.86	0.25	0.29	0.29	0.29	0.17		
29	1.84	1.69	0.20	1.08	0.59	1.04	0.86	0.27	0.29	0.29		0.17		
30	1.84	1.69	0.19	0.71	0.57	1.84	0.86	0.27	0.29	0.28		0.18		
31		1.69		0.63	0.42		0.86		0.29	0.28		0.21		
Total	34.77	32.66	14.03	14.44	14.65	25.10	27.91	19.36	9.38	9.16	8.59	7.53	217.58	CMSDAY
Mean	1.16	1.05	0.47	0.47	0.47	0.84	0.90	0.65	0.30	0.30	0.31	0.24	0.60	CMS
Max	1.99	1.99	1.69	1.32	1.87	2.20	1.69	1.10	0.33	0.31	0.41	0.41	2.20	CMS
Min	0.23	0.16	0.19	0.16	0.18	0.51	0.33	0.25	0.27	0.28	0.28	0.16	0.16	CMS
Runoff	3.00	2.82	1.21	1.25	1.27	2.17	2.41	1.67	0.81	0.79	0.74	0.65	18.80	MCM

Momentary Peak 2.35 CMS, at 220.85 m. (MSL.), at 06.00 Hours, on Sep 27, 2014

Runoff Yield 0.69 Liters/Second/Square KM. Momentary Peak Yield 2.720 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

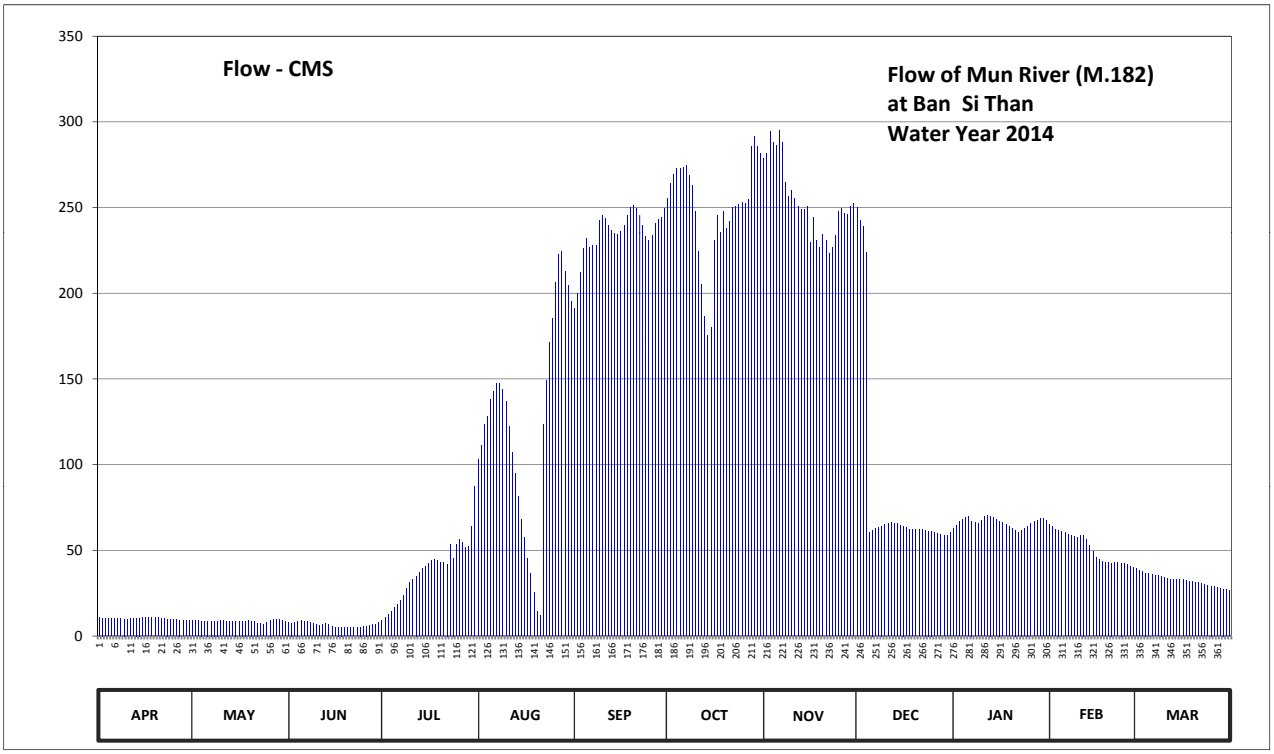
Location : on right bank at the bridge on highway.

	Ban Si Than	**Amphoe** Kanthararom	**Changwat** Si Sa Ket
Drainge Area	49,778 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+106.490 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +119.797 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 54 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.58	109.40	109.30	109.42	112.53	111.25	112.32	112.71	112.23	111.85	111.90	111.20	
2	109.55	109.39	109.26	109.57	112.63	111.40	112.47	112.76	112.11	111.89	111.87	111.15	
3	109.53	109.39	109.30	109.77	112.73	111.60	112.56	112.97	112.05	111.93	111.84	111.12	
4	109.52	109.38	109.38	109.93	112.77	111.84	112.61	112.87	111.80	111.96	111.83	111.09	
5	109.52	109.37	109.39	110.07	112.85	111.93	112.61	112.84	111.80	111.98	111.81	111.07	
6	109.52	109.38	109.37	110.18	112.89	111.85	112.62	112.98	111.83	111.99	111.80	111.05	
7	109.52	109.38	109.33	110.29	112.93	111.87	112.64	112.87	111.85	111.94	111.78	111.03	
8	109.52	109.38	109.28	110.44	112.93	111.87	112.55	112.48	111.86	111.92	111.76	111.01	
9	109.50	109.38	109.21	110.64	112.90	112.11	112.45	112.34	111.88	111.91	111.75	111.00	
10	109.49	109.39	109.16	110.81	112.84	112.16	112.19	112.40	111.90	111.95	111.74	110.96	
11	109.53	109.39	109.13	110.91	112.72	112.13	111.81	112.32	111.91	111.99	111.76	110.93	
12	109.54	109.38	109.17	111.00	112.59	112.06	111.49	112.24	111.92	112.01	111.77	110.91	
13	109.55	109.37	109.21	111.11	112.41	112.01	111.18	112.21	111.91	112.00	111.71	110.90	
14	109.55	109.37	109.15	111.20	112.22	111.98	110.99	112.21	111.91	111.98	111.64	110.90	
15	109.56	109.38	109.08	111.27	111.96	111.97	111.07	112.24	111.89	111.96	111.57	110.89	
16	109.57	109.37	109.02	111.33	111.74	112.00	111.91	111.90	111.88	111.94	111.50	110.89	
17	109.59	109.38	109.03	111.42	111.46	112.06	112.16	112.14	111.86	111.92	111.44	110.87	
18	109.59	109.38	109.03	111.45	111.07	112.16	111.99	111.91	111.84	111.90	111.38	110.85	
19	109.58	109.39	109.02	111.41	110.52	112.23	112.20	111.85	111.84	111.87	111.37	110.84	
20	109.56	109.38	109.00	111.36	109.94	112.25	112.03	111.97	111.84	111.85	111.36	110.82	
21	109.54	109.33	108.99	111.36	109.70	112.22	112.10	111.91	111.84	111.83	111.35	110.81	
22	109.52	109.26	108.99	111.32	110.13	112.16	112.23	111.79	111.84	111.80	111.37	110.79	
23	109.50	109.22	108.99	111.65	110.55	112.06	112.24	111.85	111.83	111.83	111.36	110.76	
24	109.49	109.18	109.03	111.48	110.92	111.95	112.26	111.96	111.82	111.85	111.35	110.73	
25	109.47	109.27	109.06	111.65	111.16	111.91	112.28	112.20	111.82	111.88	111.33	110.71	
26	109.45	109.43	109.09	111.72	111.51	111.96	112.27	112.22	111.80	111.91	111.30	110.69	
27	109.43	109.49	109.12	111.68	111.78	112.08	112.31	112.18	111.79	111.93	111.27	110.66	
28	109.42	109.49	109.15	111.62	111.81	112.12	112.83	112.17	111.78	111.95	111.23	110.64	
29	109.42	109.48	109.18	111.63	111.61	112.14	112.92	112.24	111.76	111.97		110.62	
30	109.42	109.42	109.27	111.87	111.48	112.22	112.83	112.27	111.76	111.97		110.61	
31		109.35		112.30	111.32		112.76		111.80	111.95		110.58	
Mean	109.52	109.37	109.16	111.03	111.83	111.99	112.22	112.30	111.87	111.92	111.58	110.87	
Max	109.59	109.49	109.39	112.30	112.93	112.25	112.92	112.98	112.23	112.01	111.90	111.20	112.98
Min	109.42	109.18	108.99	109.42	109.70	111.25	110.99	111.79	111.76	111.80	111.23	110.58	108.99

Annual Max Momentary Gage Height	113.02	m. (MSL.) ,	at 18.00 Hours, on Nov 6, 2014		
Zero Gage at Bottom Elevation	106.49	m. (MSL.) ,	River Bed	106.20	m. (MSL.)
Left Bank Elevation	119.54	m. (MSL.) ,			
Right Bank Elevation	119.59	m. (MSL.) ,	Drainage Area	49778	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.80	9.00	8.00	9.20	103.10	191.00	255.20	278.60	249.80	62.80	65.20	39.25		
2	10.50	8.90	7.60	10.70	111.60	200.00	264.20	281.60	242.60	64.72	63.76	38.13		
3	10.30	8.90	8.00	12.70	123.60	212.00	269.60	294.20	239.00	66.64	62.32	37.45		
4	10.20	8.80	8.80	14.30	128.40	226.40	272.60	288.20	224.00	68.08	61.84	36.80		
5	10.20	8.70	8.90	16.40	138.00	231.80	272.60	286.40	60.40	69.04	60.88	36.40		
6	10.20	8.80	8.70	18.60	142.80	227.00	273.20	294.80	61.84	69.52	60.40	36.00		
7	10.20	8.80	8.30	20.80	147.60	228.20	274.40	288.20	62.80	67.12	59.44	35.60		
8	10.20	8.80	7.80	23.80	147.60	228.20	269.00	264.80	63.28	66.16	58.48	35.20		
9	10.00	8.80	7.10	27.80	144.00	242.60	263.00	256.40	64.24	65.68	58.00	35.00		
10	9.90	8.90	6.60	31.20	136.80	245.60	247.40	260.00	65.20	67.60	57.52	34.20		
11	10.30	8.90	6.30	33.20	122.40	243.80	224.60	255.20	65.68	69.52	58.48	33.60		
12	10.40	8.80	6.70	35.00	107.30	239.60	205.40	250.40	66.16	70.50	58.96	33.20		
13	10.50	8.70	7.10	37.23	94.70	236.60	186.80	248.60	65.68	70.00	56.08	33.00		
14	10.50	8.70	6.50	39.25	81.40	234.80	175.40	248.60	65.68	69.04	52.72	33.00		
15	10.60	8.80	5.80	40.82	68.08	234.20	180.20	250.40	64.72	68.08	49.36	32.80		
16	10.70	8.70	5.20	42.18	57.52	236.00	230.60	230.00	64.24	67.12	46.00	32.80		
17	10.90	8.80	5.30	44.20	45.10	239.60	245.60	244.40	63.28	66.16	44.65	32.40		
18	10.90	8.80	5.30	44.87	36.40	245.60	235.40	230.60	62.32	65.20	43.30	32.00		
19	10.80	8.90	5.20	43.98	25.40	249.80	248.00	227.00	62.32	63.76	43.08	31.80		
20	10.60	8.80	5.00	42.85	14.40	251.00	237.80	234.20	62.32	62.80	42.85	31.40		
21	10.40	8.30	4.95	42.85	12.00	249.20	242.00	230.60	62.32	61.84	42.62	31.20		
22	10.20	7.60	4.95	41.95	123.80	245.60	249.80	223.40	62.32	60.40	43.08	30.80		
23	10.00	7.20	4.95	53.20	149.00	239.60	250.40	227.00	61.84	61.84	42.85	30.20		
24	9.90	6.80	5.30	45.55	171.20	233.00	251.60	233.60	61.36	62.80	42.62	29.60		
25	9.70	7.70	5.60	53.20	185.60	230.60	252.80	248.00	61.36	64.24	42.18	29.20		
26	9.50	9.30	5.90	56.56	206.60	233.60	252.20	249.20	60.40	65.68	41.50	28.80		
27	9.30	9.90	6.20	54.64	222.80	240.80	254.60	246.80	59.92	66.64	40.82	28.20		
28	9.20	9.90	6.50	51.76	224.60	243.20	285.80	246.20	59.44	67.60	39.93	27.80		
29	9.20	9.80	6.80	52.24	212.60	244.40	291.20	250.40	58.48	68.56		27.40		
30	9.20	9.20	7.70	63.76	204.80	249.20	285.80	252.20	58.48	68.56		27.20		
31		8.50		87.00	195.20		281.60		60.40	67.60		26.60		
Total	305.30	270.50	197.05	1191.79	3884.40	7053.00	7728.80	7620.00	2641.88	2055.30	1438.92	1007.03	35393.98	CMSDAY
Mean	10.18	8.73	6.57	38.44	125.30	235.10	249.32	254.00	85.22	66.30	51.39	32.48	96.97	CMS
Max	10.90	9.90	8.90	87.00	224.60	251.00	291.20	294.80	249.80	70.50	65.20	39.25	294.80	CMS
Min	9.20	6.80	4.95	9.20	12.00	191.00	175.40	223.40	58.48	60.40	39.93	26.60	4.95	CMS
Runoff	26.38	23.37	17.03	102.97	335.61	609.38	667.77	658.37	228.26	177.58	124.32	87.01	3058.04	MCM

Momentary Peak 297.30 CMS, at 113.02 m. (MSL.), at 18.00 Hours, on Nov 6, 2014

Runoff Yield 1.95 Liters/Second/Square KM. Momentary Peak Yield 5.973 Liters/Second/Square KM.

WATER YEAR : 2014

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

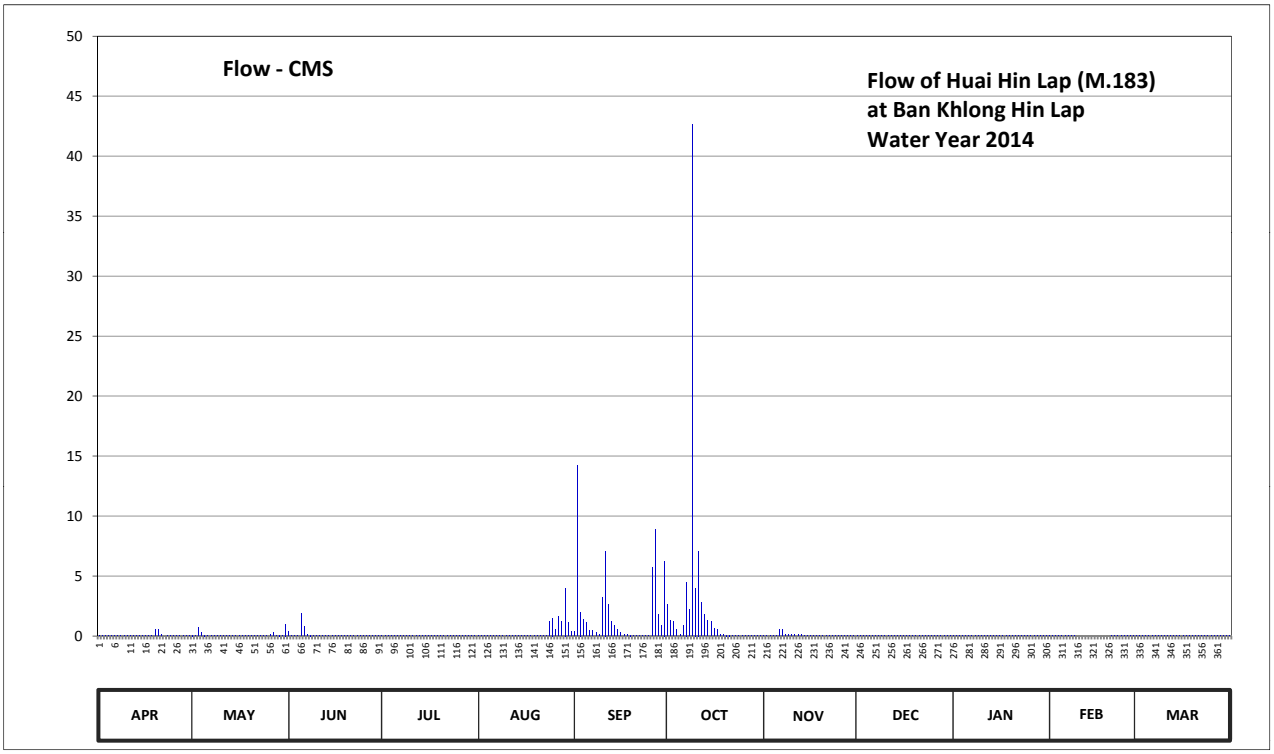
Location : on left bank at the bridge on highway.

	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	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	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	Overbank flow starts at elevation +298.120 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.13	301.19	301.23	301.15	301.15	301.23	301.43	301.17	301.15	301.15	301.15	301.12	
2	301.13	301.15	301.18	301.15	301.15	301.83	301.33	301.17	301.15	301.15	301.15	301.12	
3	301.13	301.27	301.17	301.15	301.15	301.40	301.32	301.17	301.15	301.15	301.15	301.12	
4	301.13	301.22	301.17	301.15	301.15	301.34	301.25	301.15	301.15	301.15	301.15	301.12	
5	301.13	301.19	301.39	301.15	301.15	301.31	301.20	301.15	301.15	301.15	301.15	301.12	
6	301.13	301.17	301.28	301.15	301.15	301.24	301.29	301.25	301.15	301.15	301.15	301.12	
7	301.13	301.17	301.20	301.15	301.15	301.24	301.52	301.25	301.15	301.15	301.15	301.12	
8	301.13	301.17	301.19	301.15	301.15	301.22	301.41	301.20	301.15	301.15	301.15	301.15	
9	301.13	301.18	301.17	301.15	301.15	301.20	302.42	301.20	301.15	301.15	301.15	301.15	
10	301.13	301.17	301.17	301.15	301.15	301.46	301.50	301.20	301.15	301.15	301.09	301.15	
11	301.13	301.17	301.16	301.15	301.15	301.62	301.62	301.20	301.15	301.15	301.09	301.15	
12	301.13	301.17	301.15	301.15	301.15	301.43	301.44	301.20	301.15	301.15	301.09	301.15	
13	301.13	301.17	301.15	301.15	301.15	301.32	301.38	301.20	301.15	301.15	301.09	301.15	
14	301.13	301.17	301.15	301.15	301.15	301.29	301.33	301.18	301.15	301.15	301.09	301.16	
15	301.13	301.17	301.15	301.17	301.15	301.25	301.32	301.18	301.15	301.15	301.09	301.16	
16	301.13	301.17	301.15	301.16	301.15	301.22	301.26	301.18	301.15	301.15	301.09	301.16	
17	301.13	301.17	301.15	301.16	301.15	301.20	301.25	301.18	301.15	301.15	301.09	301.15	
18	301.13	301.17	301.15	301.15	301.15	301.20	301.20	301.15	301.15	301.15	301.09	301.15	
19	301.25	301.17	301.17	301.15	301.15	301.19	301.20	301.15	301.15	301.15	301.09	301.15	
20	301.25	301.17	301.17	301.15	301.15	301.18	301.19	301.15	301.15	301.15	301.09	301.15	
21	301.20	301.17	301.17	301.15	301.15	301.17	301.19	301.15	301.15	301.15	301.11	301.15	
22	301.10	301.17	301.17	301.15	301.15	301.17	301.18	301.15	301.15	301.15	301.12	301.15	
23	301.17	301.17	301.16	301.15	301.17	301.16	301.17	301.15	301.15	301.15	301.12	301.15	
24	301.17	301.17	301.15	301.15	301.32	301.15	301.17	301.15	301.15	301.15	301.12	301.15	
25	301.17	301.16	301.15	301.15	301.35	301.16	301.17	301.15	301.15	301.15	301.12	301.15	
26	301.17	301.20	301.15	301.15	301.25	301.57	301.17	301.15	301.15	301.15	301.12	301.15	
27	301.17	301.22	301.15	301.15	301.36	301.68	301.17	301.15	301.15	301.15	301.12	301.15	
28	301.15	301.17	301.15	301.15	301.32	301.38	301.17	301.15	301.15	301.15	301.12	301.15	
29	301.15	301.19	301.15	301.15	301.50	301.29	301.17	301.15	301.15	301.15		301.15	
30	301.15	301.17	301.15	301.15	301.31	301.59	301.17	301.15	301.15	301.15		301.15	
31		301.30		301.15	301.23		301.17		301.15	301.15		301.15	
Mean	301.15	301.18	301.17	301.15	301.20	301.32	301.31	301.17	301.15	301.15	301.12	301.14	
Max	301.25	301.30	301.39	301.17	301.50	301.83	302.42	301.25	301.15	301.15	301.15	301.16	302.42
Min	301.10	301.15	301.15	301.15	301.15	301.15	301.17	301.15	301.15	301.15	301.09	301.12	301.09

Annual Max Momentary Gage Height	302.55	m. (MSL.) ,	at 12.00 Hours, on Oct 9, 2014		
Zero Gage at Bottom Elevation	300.80	m. (MSL.) ,	River Bed	293.48	m. (MSL.)
Left Bank Elevation	298.17	m. (MSL.) ,			
Right Bank Elevation	298.11	m. (MSL.) ,	Drainage Area	250	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.09	0.37	0.05	0.05	0.37	2.60	0.07	0.05	0.05	0.05	0.02		
2	0.03	0.05	0.08	0.05	0.05	14.20	1.30	0.07	0.05	0.05	0.05	0.02		
3	0.03	0.73	0.07	0.05	0.05	2.00	1.20	0.07	0.05	0.05	0.05	0.02		
4	0.03	0.28	0.07	0.05	0.05	1.40	0.55	0.05	0.05	0.05	0.05	0.02		
5	0.03	0.09	1.90	0.05	0.05	1.10	0.10	0.05	0.05	0.05	0.05	0.02		
6	0.03	0.07	0.82	0.05	0.05	0.46	0.91	0.55	0.05	0.05	0.05	0.02		
7	0.03	0.07	0.10	0.05	0.05	0.46	4.50	0.55	0.05	0.05	0.05	0.02		
8	0.03	0.07	0.09	0.05	0.05	0.28	2.20	0.10	0.05	0.05	0.05	0.05		
9	0.03	0.08	0.07	0.05	0.05	0.10	42.60	0.10	0.05	0.05	0.05	0.05		
10	0.03	0.07	0.07	0.05	0.05	3.20	4.00	0.10	0.05	0.05	0.00	0.05		
11	0.03	0.07	0.06	0.05	0.05	7.10	7.10	0.10	0.05	0.05	0.00	0.05		
12	0.03	0.07	0.05	0.05	0.05	2.60	2.80	0.10	0.05	0.05	0.00	0.05		
13	0.03	0.07	0.05	0.05	0.05	1.20	1.80	0.10	0.05	0.05	0.00	0.05		
14	0.03	0.07	0.05	0.05	0.05	0.91	1.30	0.08	0.05	0.05	0.00	0.06		
15	0.03	0.07	0.05	0.07	0.05	0.55	1.20	0.08	0.05	0.05	0.00	0.06		
16	0.03	0.07	0.05	0.06	0.05	0.28	0.64	0.08	0.05	0.05	0.00	0.06		
17	0.03	0.07	0.05	0.06	0.05	0.10	0.55	0.08	0.05	0.05	0.00	0.05		
18	0.03	0.07	0.05	0.05	0.05	0.10	0.10	0.05	0.05	0.05	0.00	0.05		
19	0.55	0.07	0.07	0.05	0.05	0.09	0.10	0.05	0.05	0.05	0.00	0.05		
20	0.55	0.07	0.07	0.05	0.05	0.08	0.09	0.05	0.05	0.05	0.00	0.05		
21	0.10	0.07	0.07	0.05	0.05	0.07	0.09	0.05	0.05	0.05	0.01	0.05		
22	0.00	0.07	0.07	0.05	0.05	0.07	0.08	0.05	0.05	0.05	0.02	0.05		
23	0.07	0.07	0.06	0.05	0.07	0.06	0.07	0.05	0.05	0.05	0.02	0.05		
24	0.07	0.07	0.05	0.05	1.20	0.05	0.07	0.05	0.05	0.05	0.02	0.05		
25	0.07	0.06	0.05	0.05	1.50	0.06	0.07	0.05	0.05	0.05	0.02	0.05		
26	0.07	0.10	0.05	0.05	0.55	5.75	0.07	0.05	0.05	0.05	0.02	0.05		
27	0.07	0.28	0.05	0.05	1.60	8.90	0.07	0.05	0.05	0.05	0.02	0.05		
28	0.05	0.07	0.05	0.05	1.20	1.80	0.07	0.05	0.05	0.05	0.02	0.05		
29	0.05	0.09	0.05	0.05	4.00	0.91	0.07	0.05	0.05	0.05		0.05		
30	0.05	0.07	0.05	0.05	1.10	6.25	0.07	0.05	0.05	0.05		0.05		
31		1.00		0.05	0.37		0.07		0.05	0.05		0.05		
Total	2.24	4.25	4.74	1.59	12.69	60.50	76.44	2.98	1.55	1.55	0.60	1.37	170.50	CMSDAY
Mean	0.07	0.14	0.16	0.05	0.41	2.02	2.47	0.10	0.05	0.05	0.02	0.04	0.47	CMS
Max	0.55	1.00	1.90	0.07	4.00	14.20	42.60	0.55	0.05	0.05	0.05	0.06	42.60	CMS
Min	0.00	0.05	0.05	0.05	0.05	0.05	0.07	0.05	0.05	0.05	0.00	0.02	0.00	CMS
Runoff	0.19	0.37	0.41	0.14	1.10	5.23	6.60	0.26	0.13	0.13	0.05	0.12	14.73	MCM

Momentary Peak 50.00 CMS, at 302.55 m. (MSL.), at 12.00 Hours, on Oct 9, 2014

Runoff Yield 1.87 Liters/Second/Square KM. Momentary Peak Yield 200.000 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

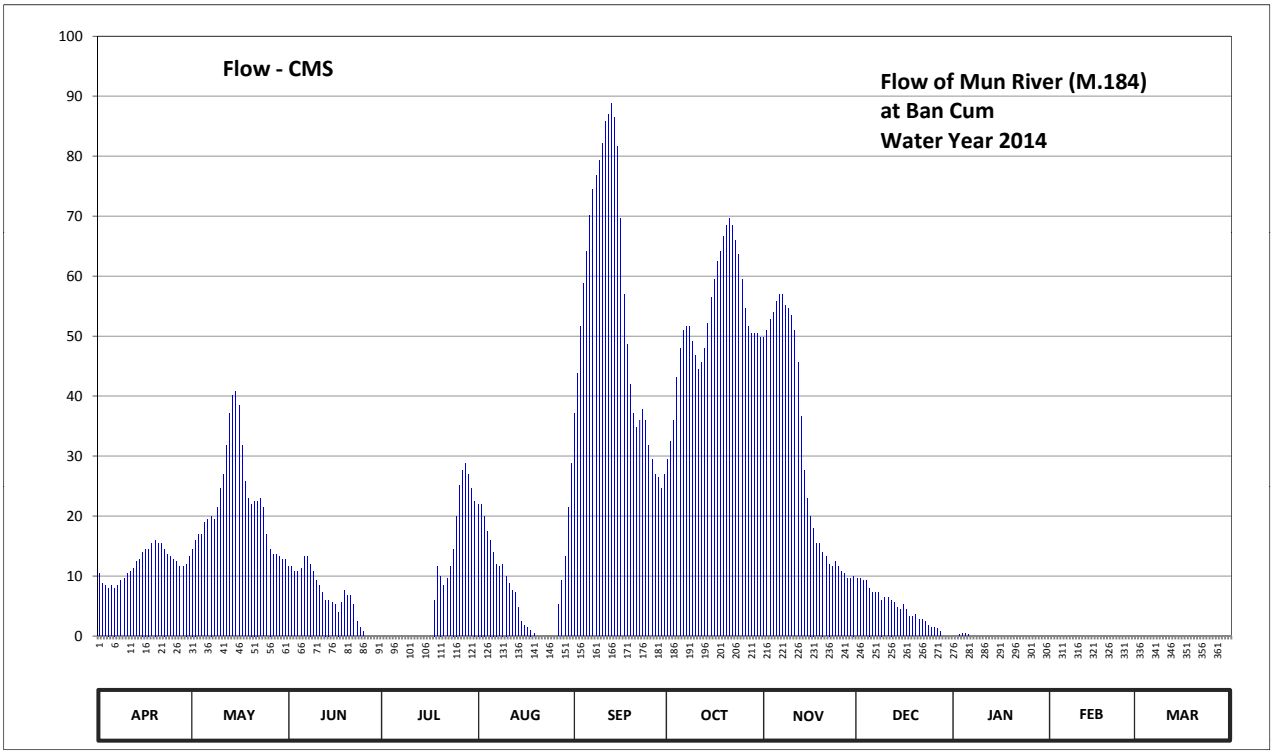
Location : on right at the bridge on highway.

	Ban Cum	**Amphoe** Phimai	**Changwat** Nakhon Ratchasima
Drainge Area	11,489 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+150.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +156.067 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 Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.31	153.41	153.34	152.98	153.56	153.82	153.69	154.03	153.29	152.99	152.33	152.06	
2	153.27	153.44	153.34	153.00	153.56	153.93	153.74	154.05	153.29	153.00	152.30	152.05	
3	153.26	153.46	153.32	153.00	153.52	154.06	153.80	154.08	153.28	153.01	152.30	152.05	
4	153.25	153.46	153.32	152.99	153.47	154.18	153.92	154.10	153.28	153.02	152.29	152.05	
5	153.26	153.50	153.33	152.96	153.44	154.27	154.00	154.13	153.25	153.02	152.26	152.05	
6	153.25	153.51	153.38	152.91	153.40	154.37	154.05	154.15	153.23	153.01	152.25	152.04	
7	153.26	153.52	153.38	152.87	153.35	154.44	154.06	154.15	153.23	153.00	152.25	152.03	
8	153.28	153.51	153.35	152.82	153.34	154.48	154.06	154.12	153.23	152.98	152.24	152.02	
9	153.29	153.55	153.32	152.76	153.35	154.52	154.02	154.11	153.20	152.97	152.21	152.02	
10	153.31	153.61	153.28	152.68	153.30	154.57	153.98	154.09	153.21	152.97	152.20	152.02	
11	153.32	153.65	153.26	152.61	153.27	154.63	153.94	154.05	153.21	152.96	152.18	152.01	
12	153.33	153.73	153.23	152.55	153.24	154.65	153.96	153.96	153.20	152.93	152.17	151.99	
13	153.36	153.82	153.20	152.50	153.23	154.68	154.00	153.81	153.19	152.90	152.14	151.97	
14	153.37	153.87	153.20	152.49	153.17	154.64	154.07	153.66	153.17	152.86	152.13	151.97	
15	153.40	153.88	153.19	152.47	153.11	154.56	154.14	153.58	153.16	152.82	152.12	151.97	
16	153.41	153.84	153.18	152.47	153.09	154.36	154.19	153.52	153.18	152.77	152.10	151.97	
17	153.41	153.73	153.15	152.50	153.07	154.15	154.24	153.48	153.16	152.73	152.10	151.96	
18	153.43	153.63	153.19	153.20	153.05	154.01	154.27	153.43	153.13	152.70	152.10	151.96	
19	153.44	153.58	153.24	153.34	153.02	153.90	154.31	153.43	153.13	152.66	152.10	151.96	
20	153.43	153.56	153.22	153.30	153.00	153.82	154.34	153.40	153.14	152.63	152.09	151.96	
21	153.43	153.57	153.22	153.26	152.97	153.78	154.36	153.38	153.12	152.61	152.10	151.95	
22	153.41	153.57	153.18	153.29	152.98	153.80	154.34	153.35	153.12	152.58	152.11	151.94	
23	153.39	153.58	153.11	153.34	152.99	153.83	154.30	153.34	153.11	152.55	152.11	151.94	
24	153.38	153.55	153.07	153.41	152.98	153.80	154.26	153.36	153.09	152.53	152.11	151.93	
25	153.37	153.46	153.04	153.52	152.95	153.73	154.19	153.34	153.07	152.51	152.10	151.93	
26	153.36	153.41	153.00	153.62	152.94	153.69	154.11	153.32	153.07	152.50	152.09	151.93	
27	153.34	153.39	152.99	153.66	153.18	153.65	154.06	153.31	153.06	152.47	152.08	151.92	
28	153.34	153.39	152.99	153.68	153.28	153.64	154.04	153.29	153.04	152.44	152.08	151.91	
29	153.35	153.38	152.98	153.65	153.38	153.61	154.04	153.29	153.00	152.41		151.91	
30	153.38	153.37	152.96	153.61	153.55	153.65	154.04	153.30	152.99	152.36		151.92	
31		153.37		153.57	153.68		154.03		152.99	152.34		151.93	
Mean	153.35	153.56	153.20	153.06	153.24	154.11	154.08	153.69	153.16	152.75	152.17	151.98	
Max	153.44	153.88	153.38	153.68	153.68	154.68	154.36	154.15	153.29	153.02	152.33	152.06	154.68
Min	153.25	153.37	152.96	152.47	152.94	153.61	153.69	153.29	152.99	152.34	152.08	151.91	151.91

Annual Max Momentary Gage Height	154.68	m. (MSL.) ,	at 06.00 Hours, on Sep 13, 2014			
Zero Gage at Bottom Elevation	150.00	m. (MSL.) ,	River Bed	149.66	m. (MSL.)	
Left Bank Elevation	156.07	m. (MSL.) ,				
Right Bank Elevation	156.04	m. (MSL.) ,	Drainage Area	11489	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.40	14.50	11.60	0.00	22.00	37.20	29.40	49.80	9.60	0.00	0.00	0.00		
2	8.80	16.00	11.60	0.00	22.00	43.80	32.40	51.00	9.60	0.00	0.00	0.00		
3	8.40	17.00	10.80	0.00	20.00	51.60	36.00	52.80	9.20	0.20	0.00	0.00		
4	8.00	17.00	10.80	0.00	17.50	58.80	43.20	54.00	9.20	0.40	0.00	0.00		
5	8.40	19.00	11.20	0.00	16.00	64.20	48.00	55.80	8.00	0.40	0.00	0.00		
6	8.00	19.50	13.20	0.00	14.00	70.20	51.00	57.00	7.20	0.20	0.00	0.00		
7	8.40	20.00	13.20	0.00	12.00	74.40	51.60	57.00	7.20	0.00	0.00	0.00		
8	9.20	19.50	12.00	0.00	11.60	76.80	51.60	55.20	7.20	0.00	0.00	0.00		
9	9.60	21.50	10.80	0.00	12.00	79.20	49.20	54.60	6.00	0.00	0.00	0.00		
10	10.40	24.60	9.20	0.00	10.00	82.20	46.80	53.40	6.40	0.00	0.00	0.00		
11	10.80	27.00	8.40	0.00	8.80	85.80	44.40	51.00	6.40	0.00	0.00	0.00		
12	11.20	31.80	7.20	0.00	7.60	87.00	45.60	45.60	6.00	0.00	0.00	0.00		
13	12.40	37.20	6.00	0.00	7.20	88.80	48.00	36.60	5.60	0.00	0.00	0.00		
14	12.80	40.20	6.00	0.00	4.80	86.40	52.20	27.60	4.80	0.00	0.00	0.00		
15	14.00	40.80	5.60	0.00	2.40	81.60	56.40	23.00	4.40	0.00	0.00	0.00		
16	14.50	38.40	5.20	0.00	1.80	69.60	59.40	20.00	5.20	0.00	0.00	0.00		
17	14.50	31.80	4.00	0.00	1.40	57.00	62.40	18.00	4.40	0.00	0.00	0.00		
18	15.50	25.80	5.60	6.00	1.00	48.60	64.20	15.50	3.20	0.00	0.00	0.00		
19	16.00	23.00	7.60	11.60	0.40	42.00	66.60	15.50	3.20	0.00	0.00	0.00		
20	15.50	22.00	6.80	10.00	0.00	37.20	68.40	14.00	3.60	0.00	0.00	0.00		
21	15.50	22.50	6.80	8.40	0.00	34.80	69.60	13.20	2.80	0.00	0.00	0.00		
22	14.50	22.50	5.20	9.60	0.00	36.00	68.40	12.00	2.80	0.00	0.00	0.00		
23	13.60	23.00	2.40	11.60	0.00	37.80	66.00	11.60	2.40	0.00	0.00	0.00		
24	13.20	21.50	1.40	14.50	0.00	36.00	63.60	12.40	1.80	0.00	0.00	0.00		
25	12.80	17.00	0.80	20.00	0.00	31.80	59.40	11.60	1.40	0.00	0.00	0.00		
26	12.40	14.50	0.00	25.20	0.00	29.40	54.60	10.80	1.40	0.00	0.00	0.00		
27	11.60	13.60	0.00	27.60	5.20	27.00	51.60	10.40	1.20	0.00	0.00	0.00		
28	11.60	13.60	0.00	28.80	9.20	26.40	50.40	9.60	0.80	0.00	0.00	0.00		
29	12.00	13.20	0.00	27.00	13.20	24.60	50.40	9.60	0.00	0.00		0.00		
30	13.20	12.80	0.00	24.60	21.50	27.00	50.40	10.00	0.00	0.00		0.00		
31		12.80		22.50	28.80		49.80		0.00	0.00		0.00		
Total	357.20	693.60	193.40	247.40	270.40	1633.20	1641.00	918.60	141.00	1.20	0.00	0.00	6097.00	CMSDAY
Mean	11.91	22.37	6.45	7.98	8.72	54.44	52.94	30.62	4.55	0.04	0.00	0.00	16.70	CMS
Max	16.00	40.80	13.20	28.80	28.80	88.80	69.60	57.00	9.60	0.40	0.00	0.00	88.80	CMS
Min	8.00	12.80	0.00	0.00	0.00	24.60	29.40	9.60	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	30.86	59.93	16.71	21.38	23.36	141.11	141.78	79.37	12.18	0.10	0.00	0.00	526.78	MCM

Momentary Peak 88.80 CMS, at 154.68 m (MSL.), at 06.00 Hours, on Sep 13, 2014

Runoff Yield 1.45 Liters/Second/Square KM. Momentary Peak Yield 7.729 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)

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

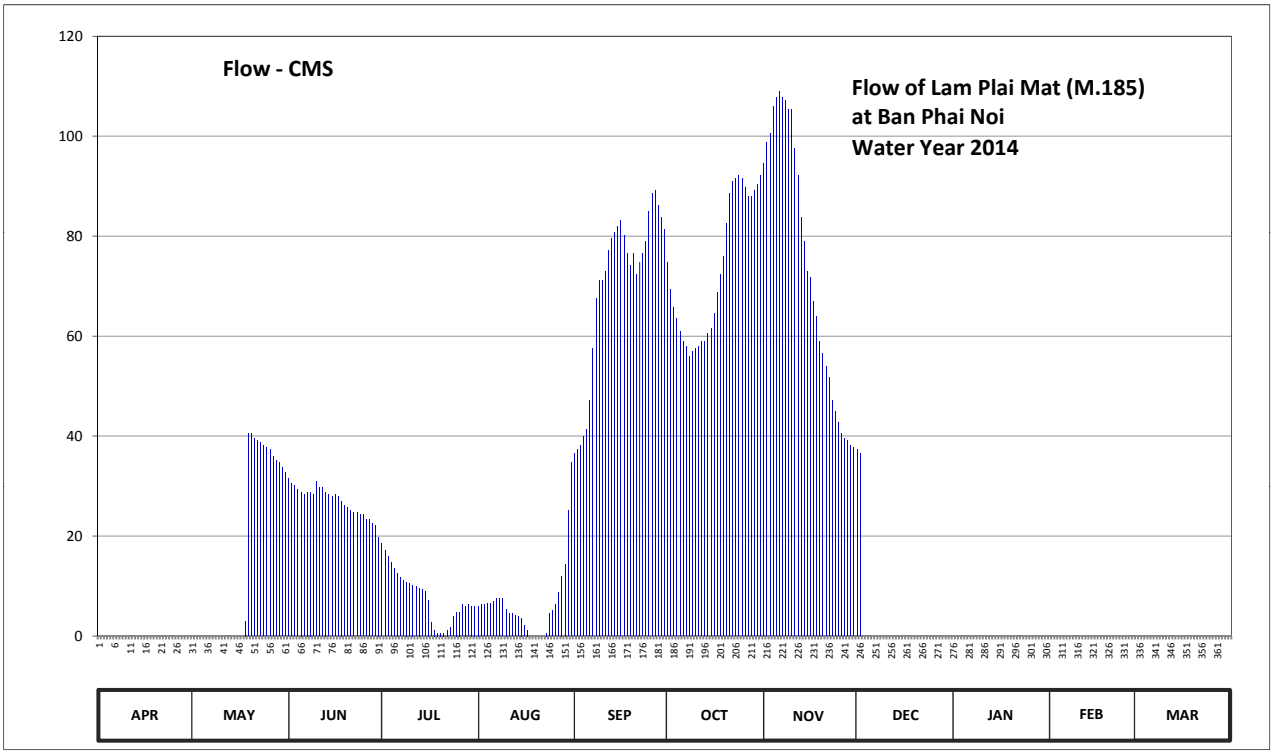
Location : on right at the bridge on highway.

	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	+149.700 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the gage site.			**Elevation**	+157.900 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	2008 to date				
Rating Operation					
Period of Rating	2008 to date				
Rated by Flot	-				
Rated by Current Meter	2008 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.43	152.86	155.30	155.01	154.60	155.41	156.18	156.51	155.43	155.36	154.93	154.63	
2	153.42	152.85	155.28	154.97	154.61	155.43	156.09	156.58	155.41	155.33	154.93	154.62	
3	153.30	152.84	155.27	154.93	154.61	155.45	156.03	156.61	155.49	155.32	154.93	154.61	
4	153.30	152.83	155.25	154.89	154.62	155.49	155.99	156.70	155.49	155.31	154.91	154.58	
5	153.29	152.82	155.24	154.85	154.62	155.52	155.94	156.73	155.49	155.31	154.89	154.57	
6	153.28	152.81	155.23	154.82	154.63	155.65	155.90	156.75	155.48	155.30	154.87	154.57	
7	153.27	152.80	155.24	154.79	154.65	155.87	155.88	156.73	155.48	155.27	154.86	154.57	
8	153.26	152.80	155.24	154.77	154.65	156.06	155.84	156.72	155.48	155.27	154.84	154.57	
9	153.25	152.80	155.23	154.76	154.65	156.12	155.86	156.69	155.47	155.26	154.83	154.55	
10	153.24	152.80	155.29	154.75	154.58	156.12	155.87	156.69	155.47	155.26	154.81	154.49	
11	153.23	152.79	155.26	154.74	154.55	156.15	155.88	156.56	155.46	155.23	154.79	154.44	
12	153.22	152.78	155.26	154.73	154.55	156.22	155.90	156.47	155.45	155.23	154.78	154.43	
13	153.21	152.77	155.24	154.72	154.54	156.26	155.90	156.33	155.44	155.20	154.76	154.42	
14	153.10	152.76	155.23	154.71	154.53	156.28	155.93	156.25	155.43	155.19	154.74	154.41	
15	153.10	152.75	155.22	154.70	154.52	156.30	155.95	156.15	155.42	155.17	154.73	154.40	
16	153.10	152.90	155.23	154.64	154.47	156.32	156.01	156.13	155.42	155.16	154.73	154.37	
17	153.09	152.90	155.22	154.49	154.44	156.27	156.08	156.05	155.41	155.16	154.71	154.36	
18	153.08	154.50	155.20	154.44	154.40	156.21	156.14	156.00	155.40	155.15	154.70	154.35	
19	153.07	155.50	155.18	154.42	154.38	156.17	156.20	155.90	155.39	155.15	154.70	154.35	
20	153.06	155.50	155.17	154.42	154.37	156.21	156.31	155.85	155.39	155.15	154.70	154.33	
21	153.05	155.48	155.16	154.42	154.36	156.14	156.41	155.80	155.39	155.10	154.70	154.30	
22	153.05	155.47	155.15	154.44	154.38	156.18	156.45	155.75	155.39	155.08	154.70	154.27	
23	153.04	155.46	155.15	154.46	154.42	156.21	156.46	155.65	155.39	155.08	154.70	154.26	
24	153.03	155.45	155.14	154.53	154.55	156.25	156.47	155.60	155.39	155.03	154.70	154.25	
25	153.02	155.44	155.14	154.56	154.57	156.35	156.46	155.55	155.38	155.01	154.70	154.24	
26	153.02	155.43	155.12	154.56	154.61	156.41	156.43	155.50	155.38	155.00	154.69	154.21	
27	152.90	155.40	155.12	154.61	154.69	156.42	156.40	155.48	155.38	154.98	154.66	154.19	
28	152.89	155.38	155.10	154.60	154.80	156.37	156.40	155.47	155.37	154.98	154.63	154.18	
29	152.88	155.37	155.09	154.61	154.88	156.33	156.42	155.45	155.38	154.96		154.17	
30	152.87	155.35	155.04	154.60	155.16	156.29	156.44	155.44	155.38	154.95		154.16	
31		155.33		154.60	155.37		156.47		155.36	154.94		154.13	
Mean	153.14	153.97	155.20	154.66	154.61	156.08	156.15	156.14	155.42	155.16	154.77	154.39	
Max	153.43	155.50	155.30	155.01	155.37	156.42	156.47	156.75	155.49	155.36	154.93	154.63	156.75
Min	152.87	152.75	155.04	154.42	154.36	155.41	155.84	155.44	155.36	154.94	154.63	154.13	152.75

Annual Max Momentary Gage Height	156.75	m. (MSL.) ,	at 06.00 Hours, on Nov 6, 2014		
Zero Gage at Bottom Elevation	149.70	m. (MSL.) ,	River Bed	153.28	m. (MSL.)
Left Bank Elevation	161.27	m. (MSL.) ,			
Right Bank Elevation	161.29	m. (MSL.) ,	Drainage Area	4880	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	31.50	18.45	6.00	36.45	74.80	94.60	37.35	0.00	0.00	0.00		
2	0.00	0.00	30.60	17.10	6.30	37.35	69.40	98.80	36.45	0.00	0.00	0.00		
3	0.00	0.00	30.15	15.90	6.30	38.25	65.80	100.60	0.00	0.00	0.00	0.00		
4	0.00	0.00	29.25	14.70	6.60	40.05	63.50	106.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	28.80	13.50	6.60	41.40	61.00	107.80	0.00	0.00	0.00	0.00		
6	0.00	0.00	28.35	12.60	6.90	47.25	59.00	109.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	28.80	11.70	7.50	57.50	58.00	107.80	0.00	0.00	0.00	0.00		
8	0.00	0.00	28.80	11.10	7.50	67.60	56.00	107.20	0.00	0.00	0.00	0.00		
9	0.00	0.00	28.35	10.80	7.50	71.20	57.00	105.40	0.00	0.00	0.00	0.00		
10	0.00	0.00	31.05	10.50	5.40	71.20	57.50	105.40	0.00	0.00	0.00	0.00		
11	0.00	0.00	29.70	10.20	4.50	73.00	58.00	97.60	0.00	0.00	0.00	0.00		
12	0.00	0.00	29.70	9.90	4.50	77.20	59.00	92.20	0.00	0.00	0.00	0.00		
13	0.00	0.00	28.80	9.60	4.20	79.60	59.00	83.80	0.00	0.00	0.00	0.00		
14	0.00	0.00	28.35	9.30	3.90	80.80	60.50	79.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	27.90	9.00	3.60	82.00	61.50	73.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	28.35	7.20	2.10	83.20	64.60	71.80	0.00	0.00	0.00	0.00		
17	0.00	0.00	27.90	2.70	1.20	80.20	68.80	67.00	0.00	0.00	0.00	0.00		
18	0.00	3.00	27.00	1.20	0.00	76.60	72.40	64.00	0.00	0.00	0.00	0.00		
19	0.00	40.50	26.10	0.60	0.00	74.20	76.00	59.00	0.00	0.00	0.00	0.00		
20	0.00	40.50	25.65	0.60	0.00	76.60	82.60	56.50	0.00	0.00	0.00	0.00		
21	0.00	39.60	25.20	0.60	0.00	72.40	88.60	54.00	0.00	0.00	0.00	0.00		
22	0.00	39.15	24.75	1.20	0.00	74.80	91.00	51.75	0.00	0.00	0.00	0.00		
23	0.00	38.70	24.75	1.80	0.60	76.60	91.60	47.25	0.00	0.00	0.00	0.00		
24	0.00	38.25	24.30	3.90	4.50	79.00	92.20	45.00	0.00	0.00	0.00	0.00		
25	0.00	37.80	24.30	4.80	5.10	85.00	91.60	42.75	0.00	0.00	0.00	0.00		
26	0.00	37.35	23.40	4.80	6.30	88.60	89.80	40.50	0.00	0.00	0.00	0.00		
27	0.00	36.00	23.40	6.30	8.70	89.20	88.00	39.60	0.00	0.00	0.00	0.00		
28	0.00	35.10	22.50	6.00	12.00	86.20	88.00	39.15	0.00	0.00	0.00	0.00		
29	0.00	34.65	22.05	6.30	14.40	83.80	89.20	38.25	0.00	0.00		0.00		
30	0.00	33.75	19.80	6.00	25.20	81.40	90.40	37.80	0.00	0.00		0.00		
31		32.85		6.00	34.65		92.20		0.00	0.00		0.00		
Total	0.00	487.20	809.55	244.35	202.05	2108.65	2277.00	2222.55	73.80	0.00	0.00	0.00	8425.15	CMSDAY
Mean	0.00	15.72	26.99	7.88	6.52	70.29	73.45	74.09	2.38	0.00	0.00	0.00	23.08	CMS
Max	0.00	40.50	31.50	18.45	34.65	89.20	92.20	109.00	37.35	0.00	0.00	0.00	109.00	CMS
Min	0.00	0.00	19.80	0.60	0.00	36.45	56.00	37.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	42.09	69.95	21.11	17.46	182.19	196.73	192.03	6.38	0.00	0.00	0.00	727.93	MCM

Momentary Peak 109.00 CMS. at 156.75 m (MSL.), at 06.00 Hours, on Nov 6, 2014

Runoff Yield 4.73 Liters/Second/Square KM. Momentary Peak Yield 22.336 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima (M.186)

Lat 15 - 03 - 58 N Long 102 - 24 - 09 E

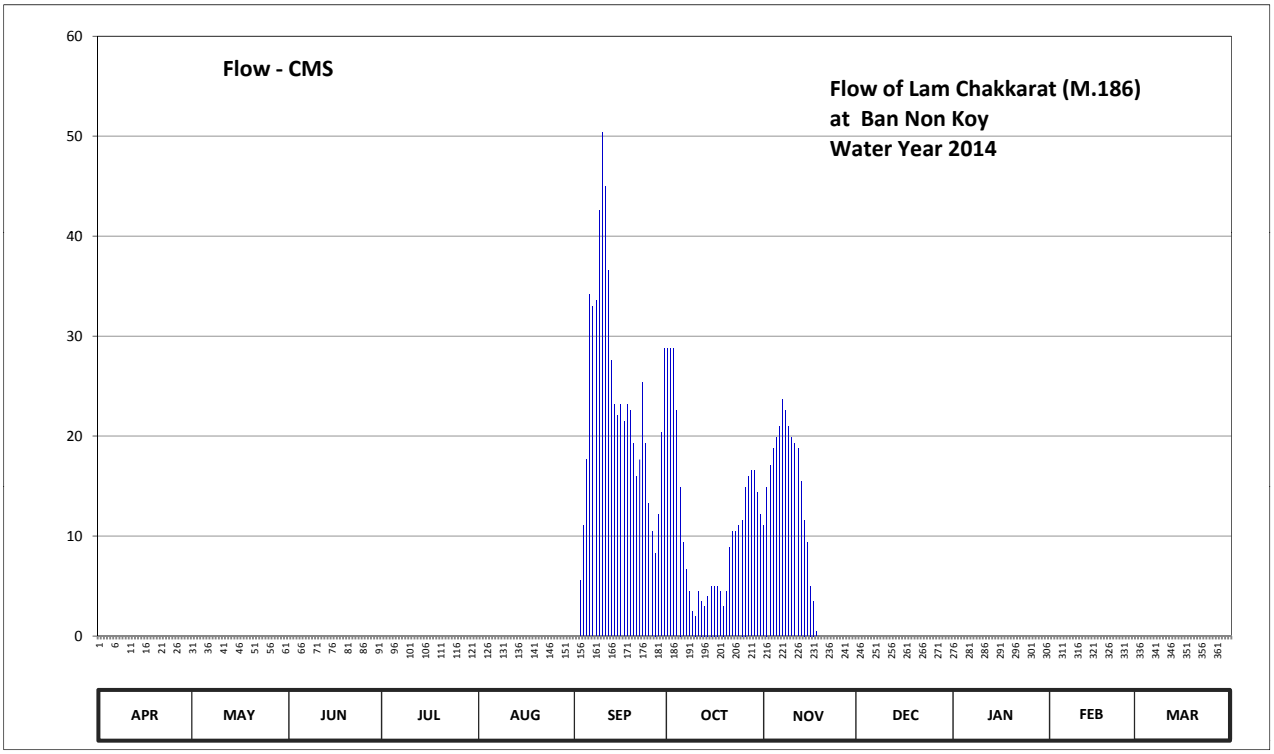
Location : on right at the bridge on highway.

	Ban Non Koy	**Amphoe** Chakkarat	**Changwat** Nakhon Ratchasima
Drainge Area	1,337 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+158.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +163.112 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 Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.38	159.31	159.46	159.30	160.02	160.19	161.23	160.91	160.35	160.10	159.73	159.17	
2	159.36	159.31	159.45	159.30	160.03	160.47	161.23	160.98	160.31	160.08	159.70	159.14	
3	159.33	159.31	159.45	159.30	160.03	160.81	161.23	161.02	160.30	160.07	159.68	159.06	
4	159.32	159.31	159.45	159.30	160.02	160.91	161.12	161.05	160.27	160.07	159.67	159.05	
5	159.32	159.31	159.45	159.30	160.00	161.03	160.98	161.07	160.27	160.06	159.65	159.04	
6	159.32	159.31	159.44	159.30	160.00	161.32	160.88	161.09	160.27	160.06	159.60	159.05	
7	159.31	159.31	159.44	159.31	160.01	161.30	160.83	161.14	160.27	160.04	159.59	159.13	
8	159.31	159.31	159.44	159.30	160.01	161.31	160.79	161.12	160.27	160.03	159.56	159.12	
9	159.31	159.31	159.48	159.30	160.03	161.46	160.75	161.09	160.27	160.00	159.54	159.07	
10	159.31	159.31	159.47	159.30	160.04	161.59	160.74	161.07	160.27	160.00	159.52	159.00	
11	159.31	159.31	159.46	159.30	160.04	161.50	160.79	161.06	160.27	160.00	159.49	159.00	
12	159.31	159.31	159.45	159.30	160.03	161.36	160.77	161.05	160.04	160.00	159.48	159.00	
13	159.31	159.31	159.44	159.30	160.02	161.21	160.76	160.99	159.42	159.97	159.44	159.00	
14	159.31	159.31	159.42	159.30	160.00	161.13	160.78	160.92	159.36	159.95	159.41	159.01	
15	159.31	159.31	159.41	159.30	160.00	161.11	160.80	160.88	159.34	159.90	159.40	159.02	
16	159.31	159.31	159.42	159.45	160.00	161.13	160.80	160.80	159.33	159.90	159.38	159.02	
17	159.31	159.41	159.41	159.63	159.99	161.10	160.80	160.77	159.38	159.88	159.34	159.00	
18	159.31	159.54	159.41	159.70	159.96	161.13	160.79	160.71	159.38	159.85	159.31	158.98	
19	159.31	159.54	159.39	159.73	159.96	161.12	160.76	160.65	159.37	159.83	159.31	158.94	
20	159.31	159.54	159.31	159.77	159.97	161.06	160.79	160.54	159.37	159.82	159.30	158.92	
21	159.31	159.53	159.30	159.87	159.99	161.00	160.87	160.54	159.37	159.80	159.30	158.92	
22	159.31	159.53	159.30	159.92	159.91	161.03	160.90	160.53	159.58	159.82	159.27	158.90	
23	159.31	159.52	159.30	159.96	159.90	161.17	160.90	160.50	160.11	159.88	159.25	158.90	
24	159.31	159.52	159.30	160.00	159.90	161.06	160.91	160.47	160.12	159.88	159.20	158.90	
25	159.31	159.52	159.30	160.00	159.90	160.95	160.92	160.43	160.12	159.86	159.20	158.90	
26	159.31	159.50	159.30	160.01	159.91	160.90	160.98	160.42	160.12	159.85	159.18	158.90	
27	159.31	159.50	159.30	160.02	159.91	160.86	161.00	160.40	160.12	159.83	159.17	158.90	
28	159.31	159.49	159.30	160.02	159.91	160.93	161.01	160.36	160.12	159.80	159.16	158.79	
29	159.31	159.49	159.30	160.02	159.92	161.08	161.01	160.36	160.12	159.78		158.61	
30	159.31	159.48	159.30	160.02	160.04	161.23	160.97	160.36	160.12	159.75		158.62	
31		159.48		160.02	160.15		160.93		160.12	159.74		158.69	
Mean	159.32	159.40	159.39	159.60	159.99	161.08	160.90	160.78	159.94	159.92	159.42	158.96	
Max	159.38	159.54	159.48	160.02	160.15	161.59	161.23	161.14	160.35	160.10	159.73	159.17	161.59
Min	159.31	159.31	159.30	159.30	159.90	160.19	160.74	160.36	159.33	159.74	159.16	158.61	158.61

Annual Max Momentary Gage Height	161.60	m. (MSL.) ,	at 06.00 Hours, on Sep 10, 2014		
Zero Gage at Bottom Elevation	158.30	m. (MSL.) ,	River Bed	158.17	m. (MSL.)
Left Bank Elevation	163.13	m. (MSL.) ,			
Right Bank Elevation	163.21	m. (MSL.) ,	Drainage Area	1337	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	28.80	11.05	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	28.80	14.90	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	5.55	28.80	17.10	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	11.05	22.60	18.75	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	17.65	14.90	19.85	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	34.20	9.40	20.95	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	33.00	6.65	23.70	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	33.60	4.50	22.60	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	42.60	2.50	20.95	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	50.40	2.00	19.85	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	45.00	4.50	19.30	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	36.60	3.50	18.75	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	27.60	3.00	15.45	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	23.15	4.00	11.60	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	22.05	5.00	9.40	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	23.15	5.00	5.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	21.50	5.00	3.50	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	23.15	4.50	0.50	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	22.60	3.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	19.30	4.50	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	16.00	8.85	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	17.65	10.50	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	25.35	10.50	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	19.30	11.05	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	13.25	11.60	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	10.50	14.90	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	8.30	16.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	12.15	16.55	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	20.40	16.55	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.00	28.80	14.35	0.00	0.00	0.00		0.00		
31		0.00		0.00	0.00		12.15		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	0.00	663.85	333.95	273.20	0.00	0.00	0.00	0.00	1271.00	CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	22.13	10.77	9.11	0.00	0.00	0.00	0.00	3.48	CMS
Max	0.00	0.00	0.00	0.00	0.00	50.40	28.80	23.70	0.00	0.00	0.00	0.00	50.40	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	0.00	57.36	28.85	23.60	0.00	0.00	0.00	0.00	109.81	MCM

Momentary Peak 51.00 CMS. at 161.60 m (MSL.), at 06.00 Hours, on Sep 10, 2014

Runoff Yield 2.60 Liters/Second/Square KM. Momentary Peak Yield 38.145 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Huai Sanaeng at Mueang, Surin (M.187)

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

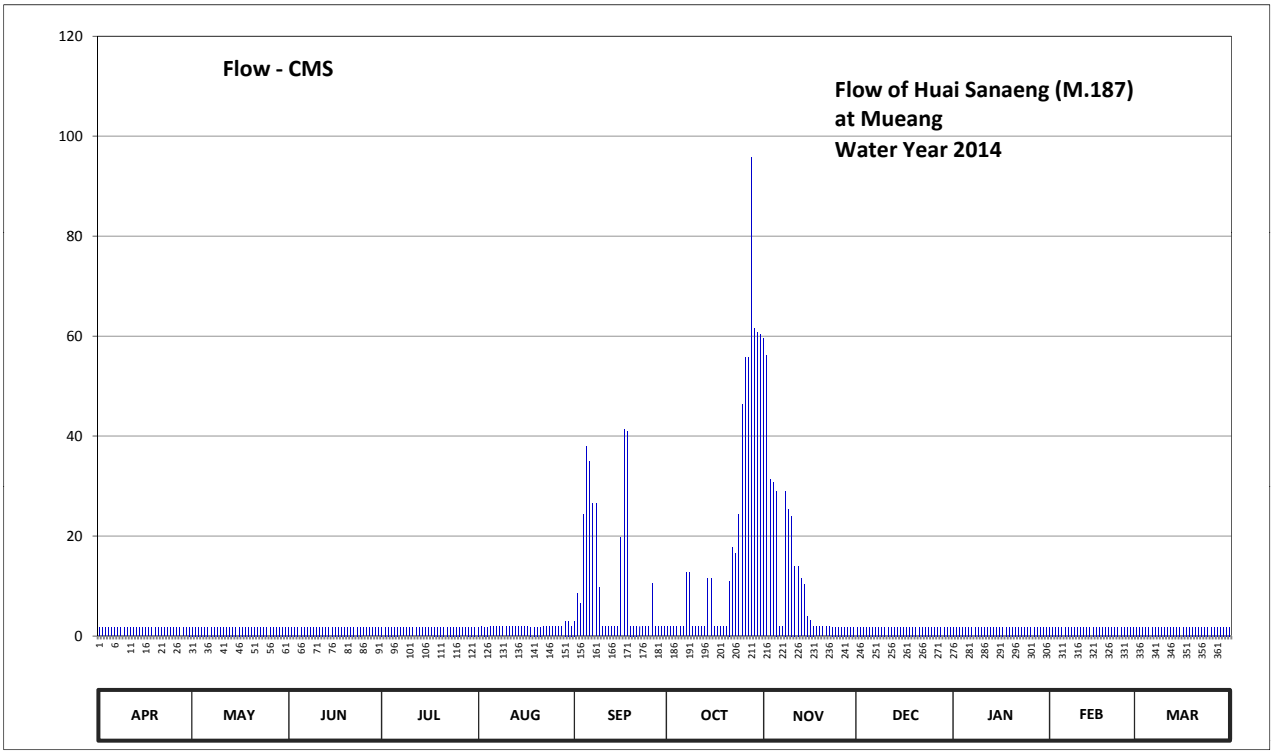
Location : on right at the bridge on highway.

	Ban	-	**Amphoe**	Mueang	**Changwat**	Surin
Drainge Area	641	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+136.800	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				**Elevation**	+143.644 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	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2014.					

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.24	138.25	138.25	138.25	138.25	138.45	138.30	140.45	138.25	138.25	138.25	138.25	
2	138.24	138.25	138.25	138.25	138.28	138.68	138.35	140.36	138.25	138.25	138.25	138.25	
3	138.24	138.25	138.25	138.25	138.26	138.60	138.35	139.58	138.25	138.25	138.25	138.25	
4	138.24	138.25	138.25	138.25	138.26	139.31	138.34	139.56	138.25	138.25	138.25	138.25	
5	138.24	138.25	138.25	138.25	138.30	139.80	138.34	139.50	138.25	138.25	138.25	138.25	
6	138.24	138.25	138.25	138.25	138.30	139.70	138.34	138.35	138.25	138.25	138.25	138.25	
7	138.24	138.25	138.25	138.23	138.35	139.40	138.85	138.30	138.25	138.25	138.25	138.25	
8	138.24	138.25	138.25	138.23	138.35	139.40	138.85	139.50	138.25	138.25	138.25	138.25	
9	138.24	138.25	138.25	138.24	138.30	138.73	138.35	139.35	138.25	138.25	138.25	138.25	
10	138.24	138.25	138.25	138.24	138.30	138.35	138.35	139.30	138.25	138.25	138.25	138.25	
11	138.24	138.25	138.25	138.24	138.35	138.34	138.35	138.90	138.25	138.25	138.25	138.25	
12	138.24	138.25	138.25	138.24	138.35	138.31	138.35	138.90	138.25	138.25	138.25	138.25	
13	138.24	138.25	138.25	138.24	138.29	138.30	138.35	138.80	138.25	138.25	138.25	138.25	
14	138.24	138.25	138.25	138.24	138.27	138.30	138.80	138.75	138.25	138.25	138.25	138.25	
15	138.24	138.25	138.25	138.24	138.27	138.35	138.80	138.50	138.25	138.25	138.25	138.25	
16	138.24	138.25	138.25	138.24	138.27	139.13	138.30	138.46	138.25	138.25	138.25	138.25	
17	138.24	138.25	138.25	138.24	138.27	139.91	138.30	138.40	138.25	138.25	138.25	138.25	
18	138.24	138.25	138.25	138.25	138.25	139.90	138.30	138.30	138.25	138.25	138.25	138.25	
19	138.24	138.25	138.25	138.25	138.25	138.40	138.30	138.28	138.25	138.25	138.25	138.25	
20	138.24	138.25	138.25	138.25	138.25	138.40	138.35	138.28	138.25	138.25	138.25	138.25	
21	138.24	138.25	138.25	138.25	138.25	138.40	138.78	138.28	138.25	138.25	138.25	138.25	
22	138.24	138.25	138.25	138.25	138.27	138.35	139.05	138.28	138.25	138.25	138.25	138.25	
23	138.24	138.25	138.25	138.26	138.27	138.32	139.00	138.26	138.25	138.25	138.25	138.25	
24	138.24	138.25	138.25	138.26	138.27	138.30	139.31	138.26	138.25	138.25	138.25	138.25	
25	138.24	138.25	138.20	138.26	138.30	138.30	140.08	138.26	138.25	138.25	138.25	138.25	
26	138.24	138.25	138.22	138.26	138.30	138.76	140.35	138.25	138.25	138.25	138.25	138.25	
27	138.24	138.25	138.22	138.23	138.30	138.36	140.35	138.25	138.25	138.25	138.25	138.25	
28	138.24	138.25	138.22	138.23	138.30	138.34	141.18	138.25	138.25	138.25	138.25	138.25	
29	138.24	138.25	138.22	138.26	138.45	138.33	140.50	138.25	138.25	138.25		138.25	
30	138.25	138.25	138.22	138.25	138.45	138.30	140.48	138.25	138.25	138.25		138.25	
31		138.25		138.25	138.40		140.47		138.25	138.25		138.25	
Mean	138.24	138.25	138.24	138.25	138.30	138.72	138.97	138.75	138.25	138.25	138.25	138.25	
Max	138.25	138.25	138.25	138.26	138.45	139.91	141.18	140.45	138.25	138.25	138.25	138.25	141.18
Min	138.24	138.25	138.20	138.23	138.25	138.30	138.30	138.25	138.25	138.25	138.25	138.25	138.20

Annual Max Momentary Gage Height	141.50	m. (MSL.) ,	at 18.00 Hours , on Oct 28 , 2013		
Zero Gage at Bottom Elevation	136.80	m. (MSL.) ,	River Bed	136.45	m. (MSL.)
Left Bank Elevation	143.64	m. (MSL.) ,			
Right Bank Elevation	143.64	m. (MSL.) ,	Drainage Area	641	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	1.81	1.81	1.81	1.81	3.00	1.88	59.50	1.81	1.81	1.81	1.81		
2	1.80	1.81	1.81	1.81	1.85	8.50	1.94	56.10	1.81	1.81	1.81	1.81		
3	1.80	1.81	1.81	1.81	1.82	6.50	1.94	31.40	1.81	1.81	1.81	1.81		
4	1.80	1.81	1.81	1.81	1.82	24.25	1.93	30.80	1.81	1.81	1.81	1.81		
5	1.80	1.81	1.81	1.81	1.88	38.00	1.93	29.00	1.81	1.81	1.81	1.81		
6	1.80	1.81	1.81	1.81	1.88	35.00	1.93	1.94	1.81	1.81	1.81	1.81		
7	1.80	1.81	1.81	1.79	1.94	26.50	12.75	1.88	1.81	1.81	1.81	1.81		
8	1.80	1.81	1.81	1.79	1.94	26.50	12.75	29.00	1.81	1.81	1.81	1.81		
9	1.80	1.81	1.81	1.80	1.88	9.75	1.94	25.25	1.81	1.81	1.81	1.81		
10	1.80	1.81	1.81	1.80	1.88	1.94	1.94	24.00	1.81	1.81	1.81	1.81		
11	1.80	1.81	1.81	1.80	1.94	1.93	1.94	14.00	1.81	1.81	1.81	1.81		
12	1.80	1.81	1.81	1.80	1.94	1.89	1.94	14.00	1.81	1.81	1.81	1.81		
13	1.80	1.81	1.81	1.80	1.86	1.88	1.94	11.50	1.81	1.81	1.81	1.81		
14	1.80	1.81	1.81	1.80	1.84	1.88	11.50	10.25	1.81	1.81	1.81	1.81		
15	1.80	1.81	1.81	1.80	1.84	1.94	11.50	4.00	1.81	1.81	1.81	1.81		
16	1.80	1.81	1.81	1.80	1.84	19.75	1.88	3.20	1.81	1.81	1.81	1.81		
17	1.80	1.81	1.81	1.80	1.84	41.30	1.88	2.00	1.81	1.81	1.81	1.81		
18	1.80	1.81	1.81	1.81	1.81	41.00	1.88	1.88	1.81	1.81	1.81	1.81		
19	1.80	1.81	1.81	1.81	1.81	2.00	1.88	1.85	1.81	1.81	1.81	1.81		
20	1.80	1.81	1.81	1.81	1.81	2.00	1.94	1.85	1.81	1.81	1.81	1.81		
21	1.80	1.81	1.81	1.81	1.81	2.00	11.00	1.85	1.81	1.81	1.81	1.81		
22	1.80	1.81	1.81	1.81	1.84	1.94	17.75	1.85	1.81	1.81	1.81	1.81		
23	1.80	1.81	1.81	1.82	1.84	1.90	16.50	1.82	1.81	1.81	1.81	1.81		
24	1.80	1.81	1.81	1.82	1.84	1.88	24.25	1.82	1.81	1.81	1.81	1.81		
25	1.80	1.81	1.75	1.82	1.88	1.88	46.40	1.82	1.81	1.81	1.81	1.81		
26	1.80	1.81	1.78	1.82	1.88	10.50	55.75	1.81	1.81	1.81	1.81	1.81		
27	1.80	1.81	1.78	1.79	1.88	1.95	55.75	1.81	1.81	1.81	1.81	1.81		
28	1.80	1.81	1.78	1.79	1.88	1.93	95.80	1.81	1.81	1.81	1.81	1.81		
29	1.80	1.81	1.78	1.82	3.00	1.91	61.50	1.81	1.81	1.81		1.81		
30	1.81	1.81	1.78	1.81	3.00	1.88	60.70	1.81	1.81	1.81		1.81		
31		1.81		1.81	2.00		60.30		1.81	1.81		1.81		
Total	54.01	56.11	54.09	55.99	60.08	323.28	584.91	371.61	56.11	56.11	50.68	56.11	1779.09	CMSDAY
Mean	1.80	1.81	1.80	1.81	1.94	10.78	18.87	12.39	1.81	1.81	1.81	1.81	4.87	CMS
Max	1.81	1.81	1.81	1.82	3.00	41.30	95.80	59.50	1.81	1.81	1.81	1.81	95.80	CMS
Min	1.80	1.81	1.75	1.79	1.81	1.88	1.88	1.81	1.81	1.81	1.81	1.81	1.75	CMS
Runoff	4.67	4.85	4.67	4.84	5.19	27.93	50.54	32.11	4.85	4.85	4.38	4.85	153.71	MCM

Momentary Peak 118.00 CMS. at 141.50 m. (MSL.), at 18.00 Hours, on Oct 28, 2014

Runoff Yield 7.60 Liters/Second/Square KM. Momentary Peak Yield 184.087 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

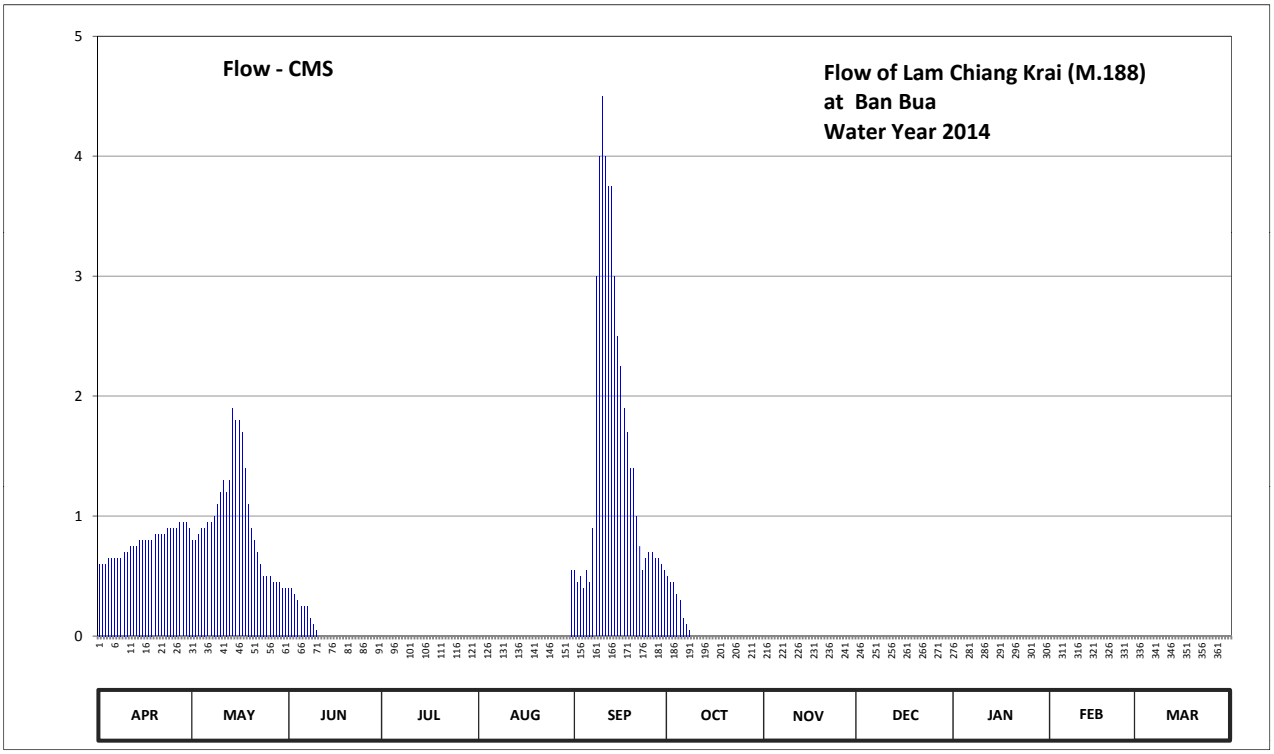
Location : on right at the bridge on highway.

	Ban Bua	**Amphoe** Non Sung	**Changwat** Nakhon Ratchasima
Drainge Area	2,764 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+157.900 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +162.872 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 Flot	-		
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 1 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.62	160.66	160.58	160.38	160.33	160.61	160.60	160.10	160.88	160.61	160.40	160.28	
2	160.62	160.66	160.58	160.38	160.33	160.59	160.59	160.10	160.88	160.64	160.42	160.26	
3	160.62	160.67	160.57	160.38	160.32	160.60	160.59	160.10	160.86	160.66	160.42	160.26	
4	160.63	160.68	160.56	160.38	160.30	160.58	160.57	160.08	160.84	160.64	160.39	160.28	
5	160.63	160.68	160.55	160.38	160.30	160.61	160.56	160.08	160.84	160.64	160.36	160.28	
6	160.63	160.69	160.55	160.36	160.29	160.59	160.53	160.22	160.86	160.64	160.36	160.27	
7	160.63	160.69	160.55	160.33	160.28	160.68	160.52	160.49	160.87	160.64	160.36	160.22	
8	160.63	160.70	160.53	160.31	160.28	160.84	160.51	160.50	160.90	160.65	160.36	160.21	
9	160.64	160.71	160.52	160.29	160.29	160.88	160.49	160.50	160.90	160.65	160.36	160.21	
10	160.64	160.72	160.51	160.28	160.28	160.90	160.48	160.50	160.90	160.63	160.34	160.24	
11	160.65	160.73	160.49	160.26	160.28	160.88	160.48	160.85	160.90	160.60	160.36	160.24	
12	160.65	160.72	160.49	160.25	160.28	160.87	160.41	161.00	160.90	160.60	160.40	160.24	
13	160.65	160.73	160.47	160.25	160.29	160.87	160.38	161.02	160.90	160.58	160.38	160.23	
14	160.66	160.79	160.45	160.27	160.26	160.84	160.34	161.09	160.90	160.58	160.38	160.20	
15	160.66	160.78	160.46	160.29	160.26	160.82	160.30	161.09	160.88	160.58	160.36	160.17	
16	160.66	160.78	160.46	160.39	160.25	160.81	160.26	161.06	160.80	160.56	160.36	160.17	
17	160.66	160.77	160.45	160.38	160.23	160.79	160.23	161.04	160.82	160.56	160.35	160.20	
18	160.66	160.74	160.45	160.38	160.22	160.77	160.20	161.03	160.80	160.56	160.32	160.19	
19	160.67	160.71	160.44	160.37	160.19	160.74	160.18	161.00	160.78	160.54	160.32	160.19	
20	160.67	160.68	160.43	160.36	160.19	160.74	160.18	161.00	160.78	160.54	160.32	160.16	
21	160.67	160.66	160.42	160.35	160.24	160.70	160.18	160.98	160.77	160.53	160.32	160.14	
22	160.67	160.64	160.41	160.35	160.33	160.65	160.18	160.97	160.74	160.50	160.30	160.14	
23	160.68	160.62	160.40	160.36	160.30	160.61	160.16	160.96	160.74	160.50	160.30	160.14	
24	160.68	160.60	160.38	160.36	160.30	160.63	160.16	160.95	160.74	160.50	160.30	160.14	
25	160.68	160.60	160.35	160.37	160.30	160.64	160.18	160.94	160.74	160.48	160.30	160.14	
26	160.68	160.60	160.37	160.38	160.30	160.64	160.18	160.92	160.72	160.47	160.29	160.12	
27	160.69	160.59	160.40	160.39	160.33	160.63	160.17	160.92	160.69	160.45	160.29	160.11	
28	160.69	160.59	160.38	160.39	160.34	160.63	160.13	160.90	160.64	160.46	160.29	160.10	
29	160.69	160.59	160.38	160.36	160.37	160.62	160.18	160.88	160.56	160.44		160.06	
30	160.68	160.58	160.38	160.34	160.46	160.61	160.18	160.88	160.55	160.38		160.07	
31		160.58		160.35	160.61		160.15		160.55	160.38		160.04	
Mean	160.66	160.68	160.47	160.34	160.30	160.71	160.33	160.74	160.79	160.55	160.35	160.18	
Max	160.69	160.79	160.58	160.39	160.61	160.90	160.60	161.09	160.90	160.66	160.42	160.28	161.09
Min	160.62	160.58	160.35	160.25	160.19	160.58	160.13	160.08	160.55	160.38	160.29	160.04	160.04

Annual Max Momentary Gage Height	160.90	m. (MSL.) ,	at 06.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	157.90	m. (MSL.) ,	River Bed	157.83	m. (MSL.)
Left Bank Elevation	162.88	m. (MSL.) ,			
Right Bank Elevation	162.51	m. (MSL.) ,	Drainage Area	2764	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.80	0.40	0.00	0.00	0.55	0.50	0.00	0.00	0.00	0.00	0.00		
2	0.60	0.80	0.40	0.00	0.00	0.45	0.45	0.00	0.00	0.00	0.00	0.00		
3	0.60	0.85	0.35	0.00	0.00	0.50	0.45	0.00	0.00	0.00	0.00	0.00		
4	0.65	0.90	0.30	0.00	0.00	0.40	0.35	0.00	0.00	0.00	0.00	0.00		
5	0.65	0.90	0.25	0.00	0.00	0.55	0.30	0.00	0.00	0.00	0.00	0.00		
6	0.65	0.95	0.25	0.00	0.00	0.45	0.15	0.00	0.00	0.00	0.00	0.00		
7	0.65	0.95	0.25	0.00	0.00	0.90	0.10	0.00	0.00	0.00	0.00	0.00		
8	0.65	1.00	0.15	0.00	0.00	3.00	0.05	0.00	0.00	0.00	0.00	0.00		
9	0.70	1.10	0.10	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.70	1.20	0.05	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.75	1.30	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.75	1.20	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.75	1.30	0.00	0.00	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.80	1.90	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.80	1.80	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.80	1.80	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.80	1.70	0.00	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.80	1.40	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.85	1.10	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.85	0.90	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.85	0.80	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.85	0.70	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.90	0.60	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.90	0.50	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.90	0.50	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.90	0.50	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.95	0.45	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.95	0.45	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.95	0.45	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00		0.00		
30	0.90	0.40	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00		0.00		
31		0.40		0.00	0.55		0.00		0.00	0.00		0.00		
Total	23.45	29.60	2.50	0.00	0.55	47.75	2.35	0.00	0.00	0.00	0.00	0.00	106.20	CMSDAY
Mean	0.78	0.95	0.08	0.00	0.02	1.59	0.08	0.00	0.00	0.00	0.00	0.00	0.29	CMS
Max	0.95	1.90	0.40	0.00	0.55	4.50	0.50	0.00	0.00	0.00	0.00	0.00	4.50	CMS
Min	0.60	0.40	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.03	2.56	0.22	0.00	0.05	4.13	0.20	0.00	0.00	0.00	0.00	0.00	9.18	MCM

Momentary Peak 4.50 CMS. at 160.90 m. (MSL.), at 06.00 Hours, on Sep 10, 2014

Runoff Yield 0.11 Liters/Second/Square KM. Momentary Peak Yield 1.628 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

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

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

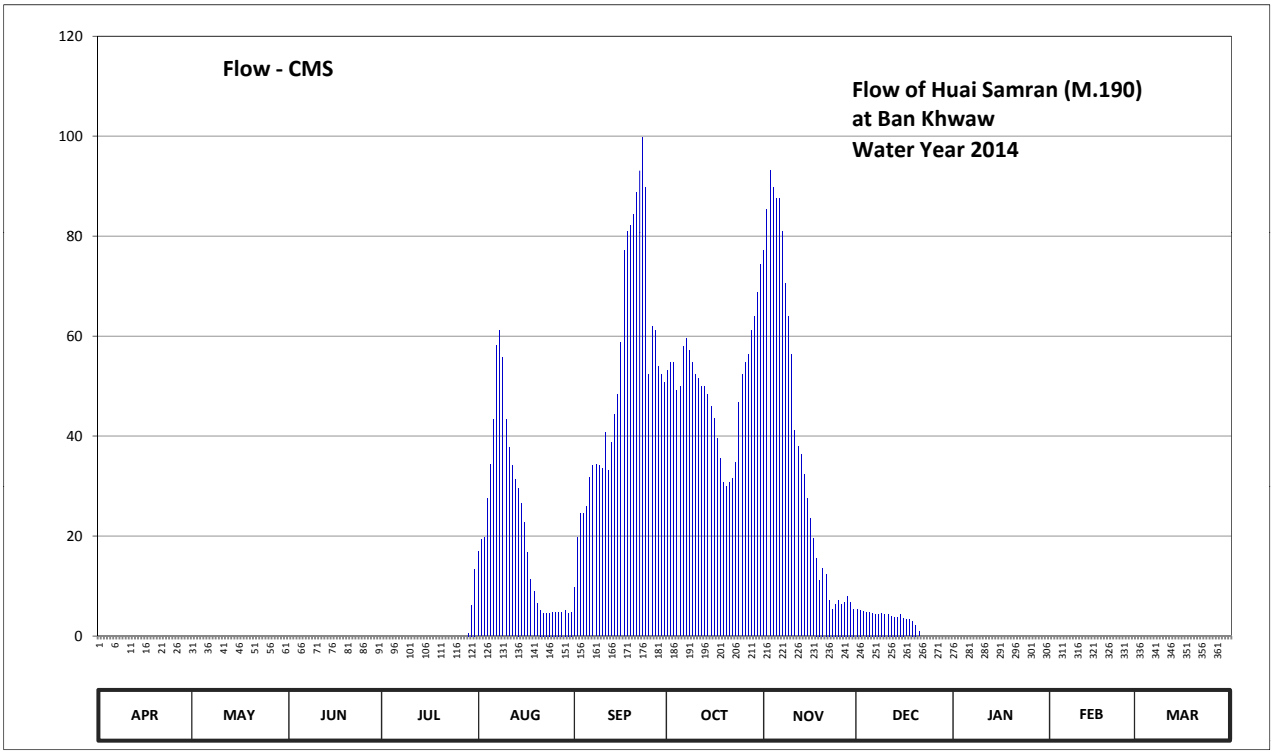
Location : on right at the bridge on highway.

	Ban Khwaw	**Amphoe** Uthumphon Phisai		**Changwat** Si Sa Ket	
Drainge Area	2,339 sq.km.				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+119.700 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the gage site.			**Elevation**	+129.804 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 Flot	-				
Rated by Current Meter	2008 to date				
Stability of Channel Regimes	Fairly stable because of backwater effect.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.93	121.78	121.51	121.50	122.70	122.46	125.09	125.36	124.37	123.54	122.44	121.79	
2	121.91	121.78	121.51	121.51	122.78	122.79	125.11	125.44	124.36	123.48	122.39	121.78	
3	121.90	121.77	121.50	121.49	122.79	122.95	125.11	125.51	124.35	123.43	122.34	121.76	
4	121.89	121.80	121.50	121.46	123.05	122.95	125.04	125.48	124.34	123.37	122.29	121.74	
5	121.88	121.79	121.49	121.43	123.28	123.00	125.05	125.46	124.34	123.33	122.24	121.72	
6	121.88	121.78	121.48	121.41	123.58	123.19	125.15	125.46	124.33	123.27	122.20	121.70	
7	121.87	121.77	121.48	121.39	124.07	123.27	125.17	125.40	124.32	123.22	122.15	121.67	
8	121.86	121.76	121.47	121.37	124.17	123.28	125.14	125.29	124.32	123.18	122.10	121.65	
9	121.85	121.74	121.46	121.35	123.99	123.27	125.11	125.22	124.33	123.13	122.05	121.64	
10	121.86	121.73	121.45	121.35	123.58	123.25	125.08	125.13	124.32	123.09	121.99	121.60	
11	121.89	121.73	121.44	121.34	123.39	123.49	125.07	124.94	124.32	123.04	121.96	121.58	
12	121.89	121.73	121.43	121.31	123.27	124.84	125.05	124.90	124.30	122.99	121.94	121.56	
13	121.88	121.72	121.42	121.28	123.18	124.91	125.05	124.88	124.29	122.95	121.91	121.54	
14	121.87	121.72	121.41	121.28	123.12	124.98	125.03	124.83	124.29	122.90	121.89	121.53	
15	121.87	121.71	121.43	121.28	123.02	125.03	125.00	124.77	124.32	122.86	121.86	121.51	
16	121.87	121.70	121.42	121.27	122.89	125.16	124.97	124.72	124.28	122.81	121.84	121.50	
17	121.86	121.68	121.41	121.27	122.69	125.36	124.92	124.67	124.27	122.76	121.82	121.48	
18	121.85	121.67	121.40	121.27	122.51	125.40	124.87	124.62	124.27	122.72	121.80	121.47	
19	121.85	121.66	121.42	121.26	122.43	125.41	124.81	124.53	124.25	122.69	121.81	121.45	
20	121.84	121.64	121.42	121.26	122.33	125.43	124.80	124.59	124.21	122.66	121.80	121.43	
21	121.83	121.62	121.41	121.31	122.26	125.47	124.81	124.56	124.15	122.62	121.80	121.41	
22	121.83	121.61	121.40	121.36	122.23	125.51	124.82	124.43	124.10	122.55	121.82	121.40	
23	121.82	121.60	121.40	121.46	122.23	125.57	124.86	124.37	124.04	122.51	121.83	121.38	
24	121.81	121.59	121.39	121.52	122.23	125.48	125.01	124.41	123.98	122.50	121.82	121.35	
25	121.81	121.57	121.39	121.56	122.24	125.08	125.08	124.43	123.92	122.51	121.81	121.34	
26	121.80	121.55	121.44	121.66	122.24	125.20	125.11	124.41	123.86	122.48	121.81	121.32	
27	121.78	121.55	121.43	121.86	122.24	125.19	125.13	124.42	123.81	122.47	121.80	121.30	
28	121.78	121.54	121.43	121.98	122.24	125.10	125.19	124.45	123.75	122.47	121.80	121.28	
29	121.79	121.53	121.43	122.03	122.26	125.08	125.22	124.42	123.70	122.47		121.27	
30	121.79	121.53	121.46	122.31	122.23	125.06	125.27	124.37	123.64	122.47		121.25	
31		121.52		122.58	122.24		125.33		123.60	122.46		121.24	
Mean	121.85	121.67	121.44	121.51	122.82	124.44	125.05	124.85	124.15	122.87	121.98	121.50	
Max	121.93	121.80	121.51	122.58	124.17	125.57	125.33	125.51	124.37	123.54	122.44	121.79	125.57
Min	121.78	121.52	121.39	121.26	122.23	122.46	124.80	124.37	123.60	122.46	121.80	121.24	121.24

Annual Max Momentary Gage Height	125.61	m. (MSL.) ,	at 16.00 Hours, on Sep 23, 2014		
Zero Gage at Bottom Elevation	119.70	m. (MSL.) ,	River Bed	121.38	m. (MSL.)
Left Bank Elevation	129.80	m. (MSL.) ,			
Right Bank Elevation	129.86	m. (MSL.) ,	Drainage Area	2339	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	17.00	9.80	53.20	77.20	5.40	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	19.40	19.70	54.80	85.40	5.20	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	19.70	24.50	54.80	93.10	5.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	27.50	24.50	49.20	89.80	4.80	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	34.40	26.00	50.00	87.60	4.80	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	43.40	31.70	58.00	87.60	4.60	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	58.10	34.10	59.60	81.00	4.40	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	61.10	34.40	57.20	70.55	4.40	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	55.70	34.10	54.80	63.90	4.60	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	43.40	33.50	52.40	56.40	4.40	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	37.70	40.70	51.60	41.20	4.40	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	34.10	33.20	50.00	38.00	4.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	31.40	38.80	50.00	36.40	3.80	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	29.60	44.40	48.40	32.40	3.80	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	26.60	48.40	46.00	27.60	4.40	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	22.70	58.80	43.60	23.60	3.60	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	16.70	77.20	39.60	19.60	3.40	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	11.30	81.00	35.60	15.60	3.40	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	8.90	82.10	30.80	11.20	3.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	6.60	84.30	30.00	13.60	2.20	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	5.20	88.70	30.80	12.40	1.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	4.60	93.10	31.60	7.20	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	4.60	99.70	34.80	5.40	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	4.60	89.80	46.80	6.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	4.80	52.40	52.40	7.20	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	4.80	62.00	54.80	6.40	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	4.80	61.20	56.40	6.80	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	4.80	54.00	61.20	8.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.60	5.20	52.40	63.90	6.80	0.00	0.00		0.00		
30	0.00	0.00	0.00	6.20	4.60	50.80	68.65	5.40	0.00	0.00		0.00		
31		0.00		13.40	4.80		74.35		0.00	0.00		0.00		
Total	0.00	0.00	0.00	20.20	658.10	1565.30	1545.30	1123.75	84.60	0.00	0.00	0.00	4997.25	CMSDAY
Mean	0.00	0.00	0.00	0.65	21.23	52.18	49.85	37.46	2.73	0.00	0.00	0.00	13.69	CMS
Max	0.00	0.00	0.00	13.40	61.10	99.70	74.35	93.10	5.40	0.00	0.00	0.00	99.70	CMS
Min	0.00	0.00	0.00	0.00	4.60	9.80	30.00	5.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	1.75	56.86	135.24	133.51	97.09	7.31	0.00	0.00	0.00	431.76	MCM

Momentary Peak 104.20 CMS, at 125.61 m. (MSL.), at 16.00 Hours, on Sep 23, 2014

Runoff Yield 5.85 Liters/Second/Square KM. Momentary Peak Yield 44.549 Liters/Second/Square KM.

WATER YEAR : 2014

MUN RIVER BASIN

Lam Ta Khong at Ban Khok Kruad, Nakhon Ratchasima (M.191)

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

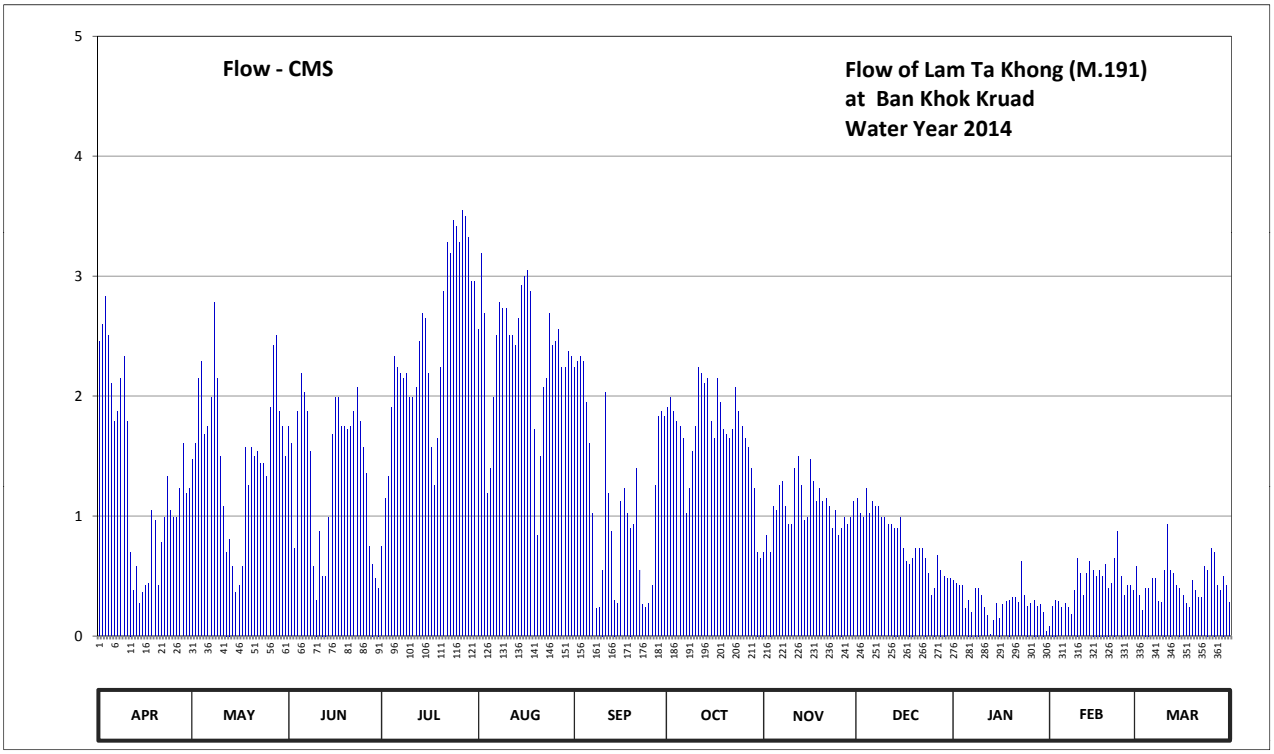
Location : on left bank at the bridge on road.

	Ban Khok Kruad	**Amphoe** Mueang	**Changwat** Nakhon Ratchasima
Drainge Area	2,854 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+191.800 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +195.991 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.17	192.92	193.00	192.70	193.19	193.12	193.04	192.68	192.83	192.58	192.28	192.63	
2	193.20	192.96	192.96	192.83	193.33	193.13	193.06	192.73	192.79	192.57	192.45	192.52	
3	193.25	193.10	192.69	192.88	193.22	193.14	193.03	192.68	192.78	192.56	192.50	192.41	
4	193.18	193.13	193.03	193.04	192.84	193.13	193.01	192.81	192.85	192.56	192.49	192.55	
5	193.09	192.98	193.11	193.14	192.90	193.05	193.00	192.80	192.79	192.43	192.44	192.55	
6	193.01	193.00	193.07	193.12	193.06	192.96	192.97	192.86	192.82	192.50	192.47	192.59	
7	193.03	193.06	193.03	193.11	193.18	192.79	192.79	192.87	192.81	192.40	192.44	192.59	
8	193.10	193.24	192.94	193.10	193.24	192.43	192.85	192.81	192.81	192.55	192.38	192.49	
9	193.14	193.10	192.63	193.11	193.23	192.44	192.94	192.76	192.78	192.55	192.54	192.48	
10	193.01	192.93	192.50	193.06	193.23	192.62	193.00	192.76	192.78	192.52	192.66	192.62	
11	192.68	192.81	192.74	193.06	193.18	193.07	193.12	192.90	192.76	192.44	192.61	192.76	
12	192.54	192.68	192.60	193.08	193.18	192.84	193.11	192.93	192.76	192.37	192.52	192.62	
13	192.63	192.72	192.60	193.17	193.16	192.74	193.09	192.86	192.75	192.21	192.61	192.61	
14	192.47	192.63	192.78	193.22	193.21	192.50	193.10	192.77	192.75	192.33	192.65	192.56	
15	192.53	192.53	192.98	193.21	193.27	192.47	193.01	192.78	192.78	192.47	192.62	192.55	
16	192.56	192.56	193.06	193.11	193.29	192.82	192.97	192.92	192.69	192.35	192.60	192.52	
17	192.57	192.63	193.06	192.95	193.30	192.85	193.10	192.87	192.65	192.46	192.62	192.47	
18	192.80	192.95	193.00	192.86	193.26	192.79	193.05	192.82	192.64	192.49	192.60	192.44	
19	192.77	192.86	193.00	192.97	192.99	192.75	192.99	192.85	192.66	192.50	192.64	192.58	
20	192.56	192.95	192.99	193.12	192.73	192.76	192.98	192.82	192.69	192.51	192.55	192.54	
21	192.71	192.93	193.00	193.26	192.93	192.90	192.97	192.83	192.69	192.51	192.57	192.51	
22	192.78	192.94	193.03	193.35	193.08	192.62	192.99	192.81	192.69	192.48	192.66	192.51	
23	192.88	192.91	193.08	193.33	193.10	192.46	193.08	192.75	192.66	192.65	192.74	192.63	
24	192.80	192.91	193.01	193.39	193.22	192.44	193.03	192.80	192.61	192.52	192.60	192.62	
25	192.78	192.88	192.95	193.38	193.16	192.47	193.00	192.73	192.52	192.45	192.52	192.69	
26	192.78	193.04	192.89	193.35	193.17	192.56	192.97	192.75	192.55	192.47	192.56	192.68	
27	192.85	193.16	192.70	193.41	193.19	192.86	192.95	192.78	192.67	192.50	192.56	192.56	
28	192.96	193.18	192.64	193.40	193.12	193.02	192.90	192.76	192.62	192.45	192.54	192.54	
29	192.84	193.03	192.59	193.36	193.12	193.03	192.85	192.78	192.60	192.46		192.60	
30	192.85	193.00	192.55	193.28	193.15	193.02	192.68	192.82	192.59	192.40		192.56	
31		192.93		193.28	193.14		192.66		192.59	192.24		192.48	
Mean	192.85	192.92	192.87	193.15	193.14	192.79	192.98	192.80	192.71	192.47	192.55	192.56	
Max	193.25	193.24	193.11	193.41	193.33	193.14	193.12	192.93	192.85	192.65	192.74	192.76	193.41
Min	192.47	192.53	192.50	192.70	192.73	192.43	192.66	192.68	192.52	192.21	192.28	192.41	192.21

Annual Max Momentary Gage Height	193.47	m. (MSL.) ,	at 18.00 Hours , on Jul 27 , 2014		
Zero Gage at Bottom Elevation	191.80	m. (MSL.) ,	River Bed	191.76	m. (MSL.)
Left Bank Elevation	195.97	m. (MSL.) ,			
Right Bank Elevation	195.98	m. (MSL.) ,	Drainage Area	2854	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.46	1.47	1.75	0.75	2.56	2.24	1.91	0.70	1.15	0.46	0.08	0.58		
2	2.60	1.61	1.61	1.15	3.19	2.29	1.99	0.84	1.02	0.44	0.25	0.34		
3	2.83	2.15	0.73	1.33	2.69	2.33	1.87	0.70	0.99	0.42	0.30	0.21		
4	2.51	2.29	1.87	1.91	1.19	2.29	1.79	1.08	1.23	0.42	0.29	0.40		
5	2.11	1.68	2.19	2.33	1.40	1.95	1.75	1.05	1.02	0.23	0.24	0.40		
6	1.79	1.75	2.03	2.24	1.99	1.61	1.65	1.26	1.12	0.30	0.27	0.48		
7	1.87	1.99	1.87	2.19	2.51	1.02	1.02	1.29	1.08	0.20	0.24	0.48		
8	2.15	2.78	1.54	2.15	2.78	0.23	1.23	1.08	1.08	0.40	0.18	0.29		
9	2.33	2.15	0.58	2.19	2.73	0.24	1.54	0.93	0.99	0.40	0.38	0.28		
10	1.79	1.50	0.30	1.99	2.73	0.55	1.75	0.93	0.99	0.34	0.65	0.55		
11	0.70	1.08	0.87	1.99	2.51	2.03	2.24	1.40	0.93	0.24	0.52	0.93		
12	0.38	0.70	0.50	2.07	2.51	1.19	2.19	1.50	0.93	0.17	0.34	0.55		
13	0.58	0.81	0.50	2.46	2.42	0.87	2.11	1.26	0.90	0.01	0.52	0.52		
14	0.27	0.58	0.99	2.69	2.65	0.30	2.15	0.96	0.90	0.13	0.62	0.42		
15	0.36	0.36	1.68	2.65	2.92	0.27	1.79	0.99	0.99	0.27	0.55	0.40		
16	0.42	0.42	1.99	2.19	3.00	1.12	1.65	1.47	0.73	0.15	0.50	0.34		
17	0.44	0.58	1.99	1.57	3.05	1.23	2.15	1.29	0.62	0.26	0.55	0.27		
18	1.05	1.57	1.75	1.26	2.87	1.02	1.95	1.12	0.60	0.29	0.50	0.24		
19	0.96	1.26	1.75	1.65	1.72	0.90	1.72	1.23	0.65	0.30	0.60	0.46		
20	0.42	1.57	1.72	2.24	0.84	0.93	1.68	1.12	0.73	0.32	0.40	0.38		
21	0.78	1.50	1.75	2.87	1.50	1.40	1.65	1.15	0.73	0.32	0.44	0.32		
22	0.99	1.54	1.87	3.28	2.07	0.55	1.72	1.08	0.73	0.28	0.65	0.32		
23	1.33	1.44	2.07	3.19	2.15	0.26	2.07	0.90	0.65	0.62	0.87	0.58		
24	1.05	1.44	1.79	3.46	2.69	0.24	1.87	1.05	0.52	0.34	0.50	0.55		
25	0.99	1.33	1.57	3.41	2.42	0.27	1.75	0.84	0.34	0.25	0.34	0.73		
26	0.99	1.91	1.36	3.28	2.46	0.42	1.65	0.90	0.40	0.27	0.42	0.70		
27	1.23	2.42	0.75	3.55	2.56	1.26	1.57	0.99	0.67	0.30	0.42	0.42		
28	1.61	2.51	0.60	3.50	2.24	1.83	1.40	0.93	0.55	0.25	0.38	0.38		
29	1.19	1.87	0.48	3.32	2.24	1.87	1.23	0.99	0.50	0.26		0.50		
30	1.23	1.75	0.40	2.96	2.37	1.83	0.70	1.12	0.48	0.20		0.42		
31		1.50		2.96	2.33		0.65		0.48	0.04		0.28		
Total	39.41	47.51	40.85	74.78	73.29	34.54	52.39	32.15	24.70	8.88	12.00	13.72	454.22	CMSDAY
Mean	1.31	1.53	1.36	2.41	2.36	1.15	1.69	1.07	0.80	0.29	0.43	0.44	1.24	CMS
Max	2.83	2.78	2.19	3.55	3.19	2.33	2.24	1.50	1.23	0.62	0.87	0.93	3.55	CMS
Min	0.27	0.36	0.30	0.75	0.84	0.23	0.65	0.70	0.34	0.01	0.08	0.21	0.01	CMS
Runoff	3.41	4.11	3.53	6.46	6.33	2.98	4.53	2.78	2.13	0.77	1.04	1.19	39.25	MCM

Momentary Peak 3.85 CMS. at 193.47 m. (MSL.), at 18.00 Hours, on Jul 27, 2014

Runoff Yield 0.44 Liters/Second/Square KM. Momentary Peak Yield 1.349 Liters/Second/Square KM.

WATER YEAR : 2014

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.

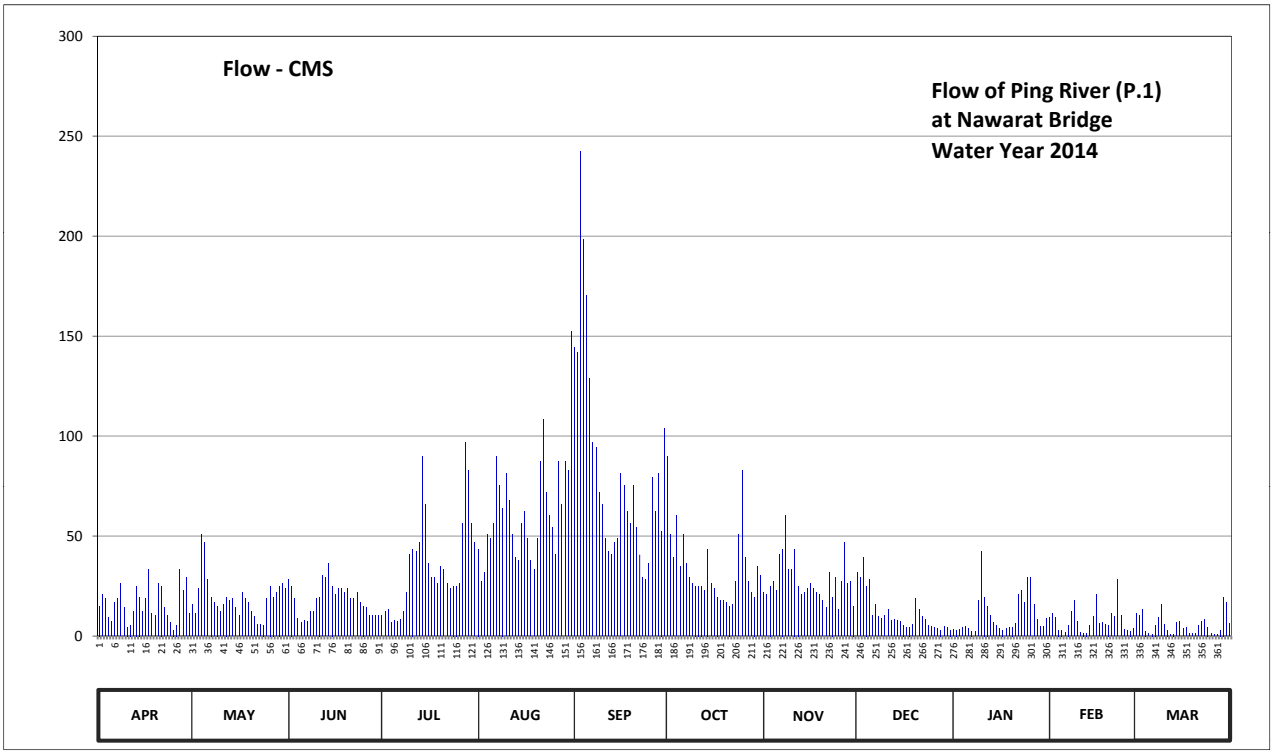
Ban Nawarat Bridge **Amphoe** Mueang **Changwat** Chiang Mai

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** +305.310 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 Flot	1936 - 1938
Rated by Current Meter	1954 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers dowmstream from the gage site. Stage-discharge relation defined by 33 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.75	301.76	301.88	301.69	301.99	302.46	302.23	301.82	301.91	301.52	301.67	301.71	
2	301.81	301.71	301.85	301.72	301.87	302.45	302.03	301.81	301.89	301.51	301.71	301.69	
3	301.79	301.84	301.79	301.73	301.91	302.81	301.96	301.85	301.96	301.52	301.67	301.73	
4	301.67	302.03	301.66	301.62	302.03	302.66	302.08	301.87	301.85	301.55	301.51	301.49	
5	301.63	302.01	301.62	301.64	302.02	302.56	301.93	301.83	301.88	301.57	301.51	301.42	
6	301.77	301.88	301.64	301.63	302.06	302.40	302.03	301.97	301.70	301.54	301.44	301.40	
7	301.79	301.80	301.63	301.65	302.23	302.26	301.94	301.99	301.76	301.49	301.59	301.59	
8	301.86	301.77	301.72	301.72	302.16	302.25	301.89	302.08	301.68	301.48	301.72	301.67	
9	301.74	301.75	301.72	301.82	302.10	302.14	301.86	301.92	301.66	301.78	301.78	301.76	
10	301.56	301.72	301.79	301.97	302.19	302.11	301.85	301.92	301.69	301.98	301.63	301.60	
11	301.59	301.76	301.80	301.99	302.12	302.02	301.85	301.99	301.73	301.80	301.45	301.51	
12	301.72	301.80	301.90	301.98	302.03	301.98	301.85	301.85	301.64	301.75	301.43	301.39	
13	301.85	301.78	301.89	302.01	301.96	301.97	301.83	301.81	301.65	301.70	301.43	301.40	
14	301.80	301.79	301.94	302.23	301.95	302.01	301.99	301.82	301.64	301.62	301.58	301.62	
15	301.72	301.74	301.85	302.11	302.06	302.02	301.86	301.84	301.63	301.58	301.68	301.63	
16	301.79	301.69	301.81	301.94	302.09	302.19	301.84	301.86	301.59	301.53	301.81	301.54	
17	301.92	301.82	301.84	301.89	302.02	302.16	301.80	301.84	301.55	301.51	301.61	301.55	
18	301.71	301.79	301.84	301.89	301.95	302.09	301.78	301.82	301.56	301.53	301.62	301.42	
19	301.70	301.77	301.82	301.86	301.92	302.06	301.78	301.81	301.60	301.55	301.60	301.41	
20	301.86	301.72	301.84	301.93	302.02	302.16	301.77	301.78	301.79	301.56	301.59	301.42	
21	301.85	301.68	301.79	301.92	302.22	302.05	301.75	301.74	301.73	301.61	301.71	301.58	
22	301.74	301.60	301.79	301.86	302.31	301.97	301.76	301.91	301.68	301.81	301.68	301.63	
23	301.69	301.60	301.82	301.84	302.14	301.89	301.87	301.80	301.65	301.83	301.88	301.65	
24	301.62	301.59	301.77	301.85	302.08	301.88	302.03	301.89	301.58	301.77	301.70	301.56	
25	301.51	301.79	301.75	301.85	302.05	301.94	302.20	301.73	301.57	301.89	301.52	301.41	
26	301.59	301.85	301.74	301.86	301.97	302.18	301.96	301.87	301.55	301.89	301.50	301.37	
27	301.92	301.80	301.70	302.06	302.22	302.09	301.87	302.01	301.54	301.76	301.49	301.38	
28	301.83	301.82	301.70	302.26	302.11	302.19	301.82	301.86	301.51	301.65	301.53	301.51	
29	301.89	301.85	301.70	302.20	302.22	302.04	301.80	301.87	301.57	301.57		301.80	
30	301.71	301.86	301.70	302.06	302.20	302.29	301.93	301.75	301.55	301.57		301.77	
31		301.84		302.01	302.49		301.90		301.51	301.66		301.61	
Mean	301.75	301.78	301.78	301.90	302.09	302.18	301.90	301.86	301.67	301.65	301.61	301.56	
Max	301.92	302.03	301.94	302.26	302.49	302.81	302.23	302.08	301.96	301.98	301.88	301.80	302.81
Min	301.51	301.59	301.62	301.62	301.87	301.88	301.75	301.73	301.51	301.48	301.43	301.37	301.37

Annual Max Momentary Gage Height	302.90	m. (MSL.) ,	at 14.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	300.50	m. (MSL.) ,	River Bed	299.21	m. (MSL.)
Left Bank Elevation	307.69	m. (MSL.) ,			
Right Bank Elevation	307.67	m. (MSL.) ,	Drainage Area	6350	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.00	15.90	28.30	10.03	43.55	144.60	89.90	21.70	31.95	3.32	9.09	11.40		
2	20.60	11.40	25.00	12.30	27.20	142.00	50.70	20.60	29.40	3.01	11.40	10.03		
3	18.60	23.90	18.60	13.20	31.95	242.10	39.20	25.00	39.20	3.32	9.09	13.20		
4	9.09	50.70	8.62	6.74	50.70	198.40	60.20	27.20	25.00	4.25	3.01	2.53		
5	7.21	46.90	6.74	7.68	48.80	170.60	34.85	22.80	28.30	4.87	3.01	1.34		
6	16.80	28.30	7.68	7.21	56.40	129.00	50.70	40.65	10.50	3.94	1.68	1.00		
7	18.60	19.50	7.21	8.15	89.90	96.80	36.30	43.55	15.90	2.53	5.49	5.49		
8	26.10	16.80	12.30	12.30	75.40	94.50	29.40	60.20	9.56	2.36	12.30	9.09		
9	14.10	15.00	12.30	21.70	64.00	71.60	26.10	33.40	8.62	17.70	17.70	15.90		
10	4.56	12.30	18.60	40.65	81.10	65.90	25.00	33.40	10.03	42.10	7.21	5.80		
11	5.49	15.90	19.50	43.55	67.80	48.80	25.00	43.55	13.20	19.50	1.85	3.01		
12	12.30	19.50	30.50	42.10	50.70	42.10	25.00	25.00	7.68	15.00	1.51	0.90		
13	25.00	17.70	29.40	46.90	39.20	40.65	22.80	20.60	8.15	10.50	1.51	1.00		
14	19.50	18.60	36.30	89.90	37.75	46.90	43.55	21.70	7.68	6.74	5.18	6.74		
15	12.30	14.10	25.00	65.90	56.40	48.80	26.10	23.90	7.21	5.18	9.56	7.21		
16	18.60	10.03	20.60	36.30	62.10	81.10	23.90	26.10	5.49	3.63	20.60	3.94		
17	33.40	21.70	23.90	29.40	48.80	75.40	19.50	23.90	4.25	3.01	6.27	4.25		
18	11.40	18.60	23.90	29.40	37.75	62.10	17.70	21.70	4.56	3.63	6.74	1.34		
19	10.50	16.80	21.70	26.10	33.40	56.40	17.70	20.60	5.80	4.25	5.80	1.17		
20	26.10	12.30	23.90	34.85	48.80	75.40	16.80	17.70	18.60	4.56	5.49	1.34		
21	25.00	9.56	18.60	33.40	87.60	54.50	15.00	14.10	13.20	6.27	11.40	5.18		
22	14.10	5.80	18.60	26.10	108.30	40.65	15.90	31.95	9.56	20.60	9.56	7.21		
23	10.03	5.80	21.70	23.90	71.60	29.40	27.20	19.50	8.15	22.80	28.30	8.15		
24	6.74	5.49	16.80	25.00	60.20	28.30	50.70	29.40	5.18	16.80	10.50	4.56		
25	3.01	18.60	15.00	25.00	54.50	36.30	83.00	13.20	4.87	29.40	3.32	1.17		
26	5.49	25.00	14.10	26.10	40.65	79.20	39.20	27.20	4.25	29.40	2.70	0.70		
27	33.40	19.50	10.50	56.40	87.60	62.10	27.20	46.90	3.94	15.90	2.53	0.80		
28	22.80	21.70	10.50	96.80	65.90	81.10	21.70	26.10	3.01	8.15	3.63	3.01		
29	29.40	25.00	10.50	83.00	87.60	52.60	19.50	27.20	4.87	4.87		19.50		
30	11.40	26.10	10.50	56.40	83.00	103.70	34.85	15.00	4.25	4.87		16.80		
31		23.90		46.90	152.40		30.50		3.01	8.62		6.27		
Total	486.62	592.38	546.85	1083.36	1951.05	2501.00	1045.15	823.80	355.37	331.08	216.43	180.03	10113.12	CMSDAY
Mean	16.22	19.11	18.23	34.95	62.94	83.37	33.71	27.46	11.46	10.68	7.73	5.81	27.71	CMS
Max	33.40	50.70	36.30	96.80	152.40	242.10	89.90	60.20	39.20	42.10	28.30	19.50	242.10	CMS
Min	3.01	5.49	6.74	6.74	27.20	28.30	15.00	13.20	3.01	2.36	1.51	0.70	0.70	CMS
Runoff	42.04	51.18	47.25	93.60	168.57	216.09	90.30	71.18	30.70	28.61	18.70	15.56	873.77	MCM

Momentary Peak 270.00 CMS. at 302.90 m. (MSL.) at 14.00 Hours , on Sep 3 , 2014

Runoff Yield 4.36 Liters/Second/Square KM. Momentary Peak Yield 42.520 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 16 - 51 - 11 N Long 99 - 07 - 34 E

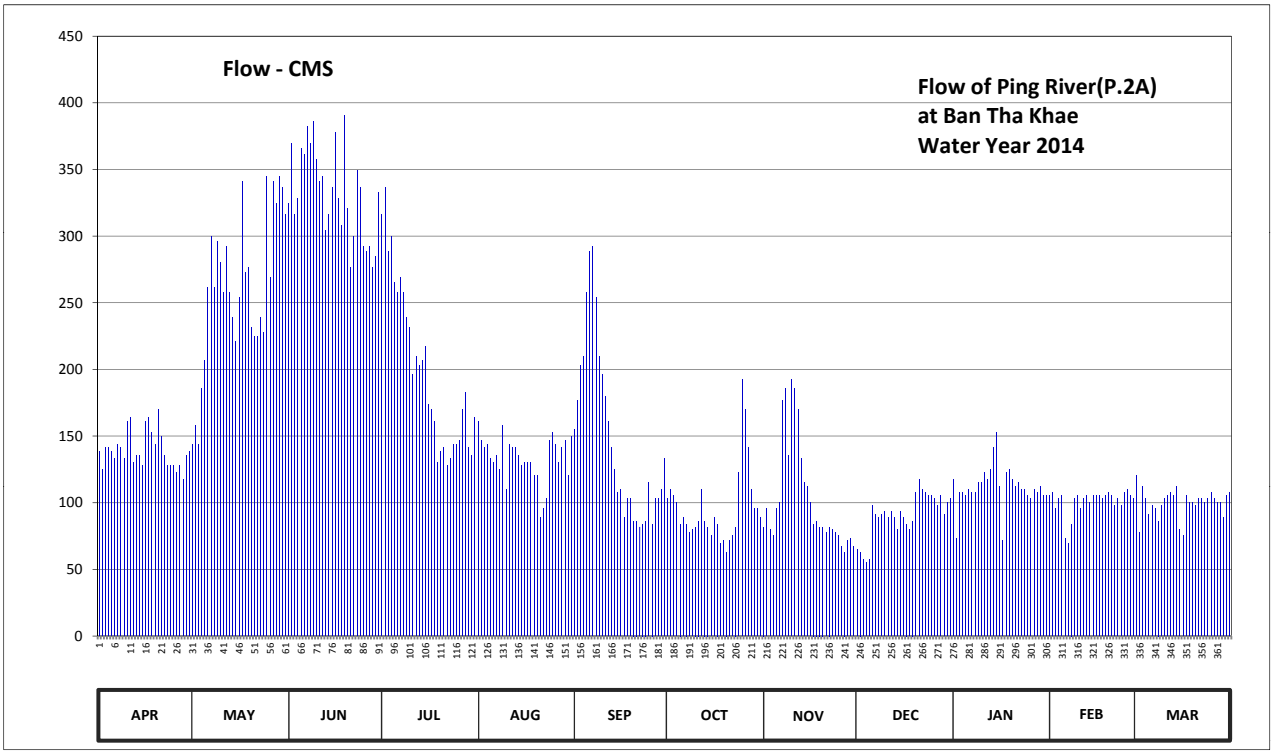
Location : on right bank about 200 meters downstream from Kittikhachon I Bridge.

	Ban Tha Khae	**Amphoe** Mueang	**Changwat** Tak
Drainge Area	38,681 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1952 to date		
Rating Operation			
Period of Rating	1952 - 1960 , 1963 - 1967 , 1971 to date		
Rated by Flot	-		
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 27 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.62	104.64	105.15	105.13	104.70	104.68	104.48	104.39	104.31	104.54	104.49	104.55	
2	104.57	104.69	105.26	105.18	104.65	104.75	104.51	104.45	104.30	104.35	104.50	104.37	
3	104.63	104.64	105.13	105.06	104.63	104.83	104.49	104.38	104.27	104.50	104.45	104.52	
4	104.63	104.78	105.16	105.09	104.64	104.85	104.47	104.36	104.26	104.50	104.48	104.48	
5	104.62	104.84	105.25	105.00	104.60	104.98	104.40	104.45	104.27	104.49	104.49	104.43	
6	104.60	104.99	105.24	104.98	104.59	105.06	104.42	104.47	104.46	104.51	104.35	104.46	
7	104.64	105.09	105.29	105.01	104.61	105.07	104.40	104.75	104.43	104.50	104.33	104.45	
8	104.63	104.99	105.26	104.98	104.57	104.97	104.37	104.78	104.42	104.50	104.40	104.41	
9	104.60	105.08	105.30	104.93	104.69	104.85	104.38	104.61	104.43	104.53	104.48	104.46	
10	104.70	105.04	105.23	104.91	104.51	104.81	104.39	104.80	104.44	104.53	104.49	104.48	
11	104.71	104.98	105.19	104.81	104.64	104.76	104.41	104.78	104.42	104.56	104.45	104.49	
12	104.59	105.07	105.20	104.85	104.63	104.70	104.51	104.73	104.44	104.54	104.48	104.50	
13	104.61	104.98	105.10	104.83	104.63	104.63	104.41	104.60	104.42	104.57	104.49	104.49	
14	104.61	104.93	105.13	104.84	104.61	104.57	104.39	104.53	104.38	104.63	104.47	104.52	
15	104.58	104.88	105.18	104.87	104.58	104.50	104.36	104.52	104.44	104.67	104.49	104.38	
16	104.70	104.97	105.28	104.74	104.59	104.51	104.42	104.47	104.42	104.52	104.49	104.36	
17	104.71	105.19	105.16	104.73	104.59	104.42	104.40	104.40	104.40	104.34	104.49	104.49	
18	104.67	105.02	105.11	104.70	104.59	104.48	104.33	104.41	104.38	104.56	104.48	104.47	
19	104.64	105.03	105.31	104.59	104.55	104.48	104.34	104.39	104.41	104.57	104.49	104.47	
20	104.73	104.91	105.14	104.62	104.55	104.41	104.30	104.39	104.50	104.54	104.50	104.46	
21	104.66	104.89	105.03	104.63	104.42	104.41	104.34	104.37	104.54	104.52	104.49	104.48	
22	104.61	104.89	105.09	104.58	104.45	104.39	104.36	104.39	104.51	104.53	104.46	104.48	
23	104.58	104.93	105.21	104.60	104.48	104.40	104.39	104.38	104.50	104.51	104.48	104.47	
24	104.58	104.90	105.18	104.64	104.65	104.41	104.56	104.37	104.49	104.51	104.46	104.48	
25	104.58	105.20	105.07	104.64	104.67	104.53	104.80	104.36	104.49	104.49	104.50	104.50	
26	104.56	105.01	105.06	104.65	104.64	104.40	104.73	104.32	104.48	104.48	104.51	104.48	
27	104.58	105.19	105.07	104.73	104.59	104.48	104.63	104.30	104.46	104.51	104.49	104.47	
28	104.54	105.15	105.03	104.77	104.63	104.48	104.51	104.34	104.49	104.50	104.48	104.47	
29	104.61	105.20	105.05	104.63	104.65	104.51	104.45	104.35	104.43	104.52		104.42	
30	104.62	105.18	105.17	104.61	104.55	104.60	104.45	104.32	104.47	104.49		104.49	
31		105.13		104.71	104.66		104.42		104.48	104.49		104.50	
Mean	104.62	104.98	105.17	104.81	104.60	104.63	104.45	104.47	104.42	104.52	104.47	104.47	
Max	104.73	105.20	105.31	105.18	104.70	105.07	104.80	104.80	104.54	104.67	104.51	104.55	105.31
Min	104.54	104.64	105.03	104.58	104.42	104.39	104.30	104.30	104.26	104.34	104.33	104.36	104.26

Annual Max Momentary Gage Height	105.74	m. (MSL.) ,	at 06.00 Hours, on Jun 5, 2014		
Zero Gage at Bottom Elevation	104.00	m. (MSL.) ,	River Bed	103.03	m. (MSL.)
Left Bank Elevation	109.06	m. (MSL.) ,			
Right Bank Elevation	109.73	m. (MSL.) ,	Drainage Area	38681	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	138.60	144.20	324.50	316.30	161.00	155.40	102.80	81.90	65.10	117.70	105.15	120.25		
2	125.35	158.20	369.60	336.80	147.00	176.75	110.05	95.75	63.00	73.50	107.50	77.70		
3	141.40	144.20	316.30	288.40	141.40	203.15	105.15	79.80	57.30	107.50	95.75	112.60		
4	141.40	186.20	328.60	300.10	144.20	210.25	100.45	75.60	55.40	107.50	102.80	102.80		
5	138.60	206.70	365.50	265.00	133.00	257.60	84.00	95.75	57.30	105.15	105.15	91.05		
6	133.00	261.30	361.40	257.60	130.45	288.40	88.70	100.45	98.10	110.05	73.50	98.10		
7	144.20	300.10	381.90	268.90	135.80	292.30	84.00	176.75	91.05	107.50	69.30	95.75		
8	141.40	261.30	369.60	257.60	125.35	253.90	77.70	186.20	88.70	107.50	84.00	86.35		
9	133.00	296.20	386.00	239.10	158.20	210.25	79.80	135.80	91.05	115.15	102.80	98.10		
10	161.00	280.60	357.30	231.70	110.05	196.05	81.90	192.50	93.40	115.15	105.15	102.80		
11	164.15	257.60	340.90	196.05	144.20	179.90	86.35	186.20	88.70	122.80	95.75	105.15		
12	130.45	292.30	345.00	210.25	141.40	161.00	110.05	170.45	93.40	117.70	102.80	107.50		
13	135.80	257.60	304.00	203.15	141.40	141.40	86.35	133.00	88.70	125.35	105.15	105.15		
14	135.80	239.10	316.30	206.70	135.80	125.35	81.90	115.15	79.80	141.40	100.45	112.60		
15	127.90	220.90	336.80	217.35	127.90	107.50	75.60	112.60	93.40	152.60	105.15	79.80		
16	161.00	253.90	377.80	173.60	130.45	110.05	88.70	100.45	88.70	112.60	105.15	75.60		
17	164.15	340.90	328.60	170.45	130.45	88.70	84.00	84.00	84.00	71.40	105.15	105.15		
18	152.60	272.80	308.10	161.00	130.45	102.80	69.30	86.35	79.80	122.80	102.80	100.45		
19	144.20	276.70	390.30	130.45	120.25	102.80	71.40	81.90	86.35	125.35	105.15	100.45		
20	170.45	231.70	320.40	138.60	120.25	86.35	63.00	81.90	107.50	117.70	107.50	98.10		
21	149.80	224.45	276.70	141.40	88.70	86.35	71.40	77.70	117.70	112.60	105.15	102.80		
22	135.80	224.45	300.10	127.90	95.75	81.90	75.60	81.90	110.05	115.15	98.10	102.80		
23	127.90	239.10	349.10	133.00	102.80	84.00	81.90	79.80	107.50	110.05	102.80	100.45		
24	127.90	228.00	336.80	144.20	147.00	86.35	122.80	77.70	105.15	110.05	98.10	102.80		
25	127.90	345.00	292.30	144.20	152.60	115.15	192.50	75.60	105.15	105.15	107.50	107.50		
26	122.80	268.90	288.40	147.00	144.20	84.00	170.45	67.20	102.80	102.80	110.05	102.80		
27	127.90	340.90	292.30	170.45	130.45	102.80	141.40	63.00	98.10	110.05	105.15	100.45		
28	117.70	324.50	276.70	183.05	141.40	102.80	110.05	71.40	105.15	107.50	102.80	100.45		
29	135.80	345.00	284.50	141.40	147.00	110.05	95.75	73.50	91.05	112.60		88.70		
30	138.60	336.80	332.70	135.80	120.25	133.00	95.75	67.20	100.45	105.15		105.15		
31		316.30		164.15	149.80		88.70		102.80	105.15		107.50		
Total	4196.55	8075.90	9958.50	6201.65	4128.95	4436.30	2977.50	3107.50	2796.65	3472.65	2815.80	3096.85	55264.80	CMSDAY
Mean	139.88	260.51	331.95	200.05	133.19	147.88	96.05	103.58	90.21	112.02	100.56	99.90	151.41	CMS
Max	170.45	345.00	390.30	336.80	161.00	292.30	192.50	192.50	117.70	152.60	110.05	120.25	390.30	CMS
Min	117.70	144.20	276.70	127.90	88.70	81.90	63.00	63.00	55.40	71.40	69.30	75.60	55.40	CMS
Runoff	362.58	697.76	860.41	535.82	356.74	383.30	257.26	268.49	241.63	300.04	243.29	267.57	4774.88	MCM

Momentary Peak 582.00 CMS. at 105.74 m. (MSL.) at 06.00 Hours , on Jun 5, 2014

Runoff Yield 3.91 Liters/Second/Square KM. Momentary Peak Yield 15.046 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 19 - 07 - 15 N Long 98 - 56 - 53 E

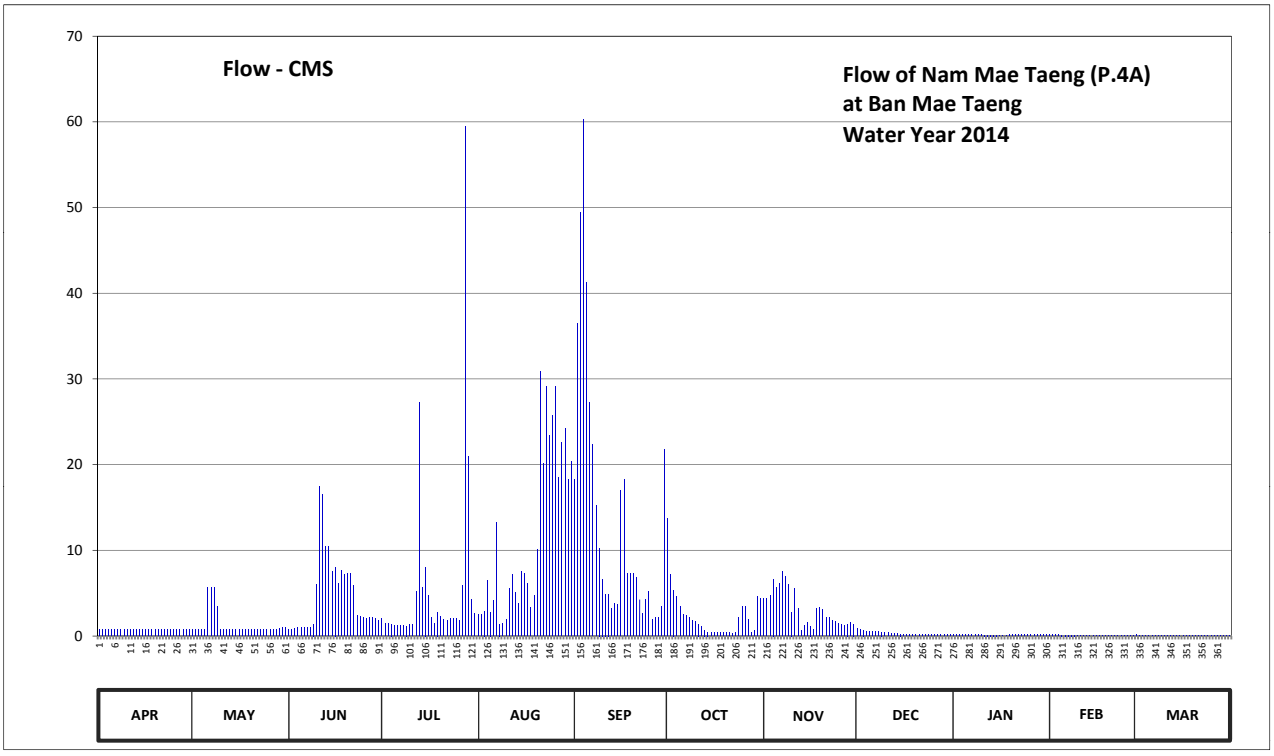
Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Mae Taeng	**Amphoe** Mae Taeng	**Changwat** Chiang Mai
Drainge Area	1,930 sq.km.		
Type of Gage	Water - stage recorder.		
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	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1955 to date		
Rating Operation			
Period of Rating	1955 - 1960 , 1967 to date		
Rated by Flot	-		
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 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	333.38	333.38	333.40	333.54	333.58	334.39	334.21	333.72	333.41	333.14	333.13	333.12	
2	333.38	333.38	333.40	333.49	333.58	335.01	333.89	333.72	333.40	333.14	333.12	333.08	
3	333.38	333.38	333.41	333.49	333.61	335.37	333.78	333.74	333.37	333.14	333.12	333.08	
4	333.38	333.38	333.42	333.48	333.85	335.63	333.73	333.86	333.32	333.14	333.12	333.08	
5	333.38	333.38	333.42	333.46	333.60	335.15	333.65	333.80	333.32	333.13	333.11	333.08	
6	333.38	333.80	333.42	333.46	333.70	334.71	333.58	333.83	333.31	333.13	333.11	333.08	
7	333.38	333.80	333.42	333.46	334.19	334.54	333.57	333.91	333.30	333.13	333.11	333.07	
8	333.38	333.80	333.42	333.46	333.48	334.27	333.55	333.88	333.30	333.13	333.11	333.06	
9	333.38	333.65	333.48	333.45	333.49	334.05	333.52	333.82	333.28	333.13	333.11	333.06	
10	333.38	333.40	333.82	333.47	333.53	333.86	333.51	333.60	333.25	333.12	333.10	333.08	
11	333.38	333.40	334.36	333.47	333.79	333.75	333.48	333.79	333.23	333.11	333.10	333.09	
12	333.38	333.40	334.32	333.77	333.89	333.75	333.44	333.63	333.22	333.11	333.10	333.09	
13	333.38	333.40	334.06	334.71	333.76	333.63	333.37	333.36	333.20	333.11	333.10	333.09	
14	333.38	333.40	334.06	333.80	333.68	333.68	333.28	333.46	333.18	333.11	333.10	333.09	
15	333.38	333.40	333.91	333.94	333.91	333.67	333.26	333.50	333.17	333.11	333.10	333.09	
16	333.38	333.39	333.94	333.74	333.90	334.34	333.24	333.45	333.16	333.10	333.10	333.10	
17	333.38	333.39	333.83	333.55	333.83	334.39	333.23	333.38	333.16	333.10	333.10	333.10	
18	333.38	333.39	333.92	333.49	333.64	333.90	333.23	333.63	333.16	333.10	333.10	333.10	
19	333.38	333.39	333.89	333.60	333.74	333.90	333.23	333.64	333.15	333.13	333.10	333.09	
20	333.38	333.39	333.90	333.56	334.04	333.90	333.23	333.62	333.15	333.13	333.09	333.09	
21	333.38	333.39	333.90	333.53	334.83	333.87	333.23	333.55	333.15	333.13	333.09	333.09	
22	333.38	333.40	333.81	333.52	334.46	333.71	333.21	333.55	333.15	333.13	333.09	333.09	
23	333.38	333.40	333.57	333.54	334.77	333.59	333.26	333.52	333.14	333.13	333.09	333.09	
24	333.38	333.40	333.56	333.54	334.58	333.71	333.55	333.51	333.14	333.13	333.09	333.08	
25	333.38	333.40	333.55	333.54	334.66	333.77	333.65	333.49	333.14	333.13	333.09	333.08	
26	333.38	333.40	333.54	333.52	334.77	333.53	333.65	333.47	333.14	333.13	333.09	333.08	
27	333.38	333.40	333.55	333.81	334.40	333.55	333.53	333.46	333.14	333.13	333.09	333.08	
28	333.38	333.40	333.55	335.61	334.55	333.55	333.24	333.48	333.14	333.13	333.10	333.08	
29	333.38	333.41	333.54	334.49	334.61	333.65	333.36	333.50	333.14	333.13		333.09	
30	333.38	333.42	333.52	333.71	334.39	334.52	333.73	333.48	333.13	333.13		333.08	
31		333.42		333.59	334.47		333.72		333.13	333.13		333.08	
Mean	333.38	333.44	333.70	333.70	334.04	334.11	333.49	333.61	333.21	333.12	333.10	333.09	
Max	333.38	333.80	334.36	335.61	334.83	335.63	334.21	333.91	333.41	333.14	333.13	333.12	335.63
Min	333.38	333.38	333.40	333.45	333.48	333.53	333.21	333.36	333.13	333.10	333.09	333.06	333.06

Annual Max Momentary Gage Height	335.93	m. (MSL.) ,	at 19.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	334.00	m. (MSL.) ,	River Bed	333.00	m. (MSL.)
Left Bank Elevation	339.87	m. (MSL.) ,			
Right Bank Elevation	339.87	m. (MSL.) ,	Drainage Area	1930	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.74	0.74	0.80	2.05	2.55	18.25	13.75	4.42	0.88	0.18	0.16	0.14		
2	0.74	0.74	0.80	1.47	2.55	36.54	7.14	4.42	0.80	0.18	0.14	0.08		
3	0.74	0.74	0.88	1.47	2.93	49.37	5.38	4.74	0.71	0.18	0.14	0.08		
4	0.74	0.74	0.95	1.40	6.50	60.28	4.58	6.66	0.56	0.18	0.14	0.08		
5	0.74	0.74	0.95	1.25	2.80	41.30	3.45	5.70	0.56	0.16	0.12	0.08		
6	0.74	5.70	0.95	1.25	4.10	27.30	2.55	6.18	0.53	0.16	0.12	0.08		
7	0.74	5.70	0.95	1.25	13.28	22.35	2.43	7.49	0.50	0.16	0.12	0.07		
8	0.74	5.70	0.95	1.25	1.40	15.25	2.17	6.98	0.50	0.16	0.12	0.06		
9	0.74	3.45	1.40	1.18	1.47	10.27	1.80	6.02	0.46	0.16	0.12	0.06		
10	0.74	0.80	6.02	1.33	1.92	6.66	1.68	2.80	0.40	0.14	0.10	0.08		
11	0.74	0.80	17.50	1.33	5.54	4.90	1.40	5.54	0.36	0.12	0.10	0.09		
12	0.74	0.80	16.50	5.22	7.14	4.90	1.10	3.19	0.34	0.12	0.10	0.09		
13	0.74	0.80	10.49	27.30	5.06	3.19	0.71	0.68	0.30	0.12	0.10	0.09		
14	0.74	0.80	10.49	5.70	3.84	3.84	0.46	1.25	0.26	0.12	0.10	0.09		
15	0.74	0.80	7.49	8.06	7.49	3.71	0.42	1.55	0.24	0.12	0.10	0.09		
16	0.74	0.77	8.06	4.74	7.30	17.00	0.38	1.18	0.22	0.10	0.10	0.10		
17	0.74	0.77	6.18	2.17	6.18	18.25	0.36	0.74	0.22	0.10	0.10	0.10		
18	0.74	0.77	7.68	1.47	3.32	7.30	0.36	3.19	0.22	0.10	0.10	0.10		
19	0.74	0.77	7.14	2.80	4.74	7.30	0.36	3.32	0.20	0.16	0.10	0.09		
20	0.74	0.77	7.30	2.30	10.06	7.30	0.36	3.06	0.20	0.16	0.09	0.09		
21	0.74	0.77	7.30	1.92	30.93	6.82	0.36	2.17	0.20	0.16	0.09	0.09		
22	0.74	0.80	5.86	1.80	20.15	4.26	0.32	2.17	0.20	0.16	0.09	0.09		
23	0.74	0.80	2.43	2.05	29.10	2.67	0.42	1.80	0.18	0.16	0.09	0.09		
24	0.74	0.80	2.30	2.05	23.45	4.26	2.17	1.68	0.18	0.16	0.09	0.08		
25	0.74	0.80	2.17	2.05	25.80	5.22	3.45	1.47	0.18	0.16	0.09	0.08		
26	0.74	0.80	2.05	1.80	29.10	1.92	3.45	1.33	0.18	0.16	0.09	0.08		
27	0.74	0.80	2.17	5.86	18.50	2.17	1.92	1.25	0.18	0.16	0.09	0.08		
28	0.74	0.80	2.17	59.42	22.62	2.17	0.38	1.40	0.18	0.16	0.10	0.08		
29	0.74	0.88	2.05	20.97	24.30	3.45	0.68	1.55	0.18	0.16		0.09		
30	0.74	0.95	1.80	4.26	18.25	21.80	4.58	1.40	0.16	0.16		0.08		
31		0.95		2.67	20.43		4.42		0.16	0.16		0.08		
Total	22.20	42.05	143.78	179.84	362.80	420.00	72.99	95.33	10.44	4.64	3.00	2.66	1359.73	CMSDAY
Mean	0.74	1.36	4.79	5.80	11.70	14.00	2.35	3.18	0.34	0.15	0.11	0.09	3.73	CMS
Max	0.74	5.70	17.50	59.42	30.93	60.28	13.75	7.49	0.88	0.18	0.16	0.14	60.28	CMS
Min	0.74	0.74	0.80	1.18	1.40	1.92	0.32	0.68	0.16	0.10	0.09	0.06	0.06	CMS
Runoff	1.92	3.63	12.42	15.54	31.35	36.29	6.31	8.24	0.90	0.40	0.26	0.23	117.48	MCM

Momentary Peak 73.35 CMS. at 335.93 m. (MSL.) at 19.00 Hours , on Sep 4 , 2014

Runoff Yield 1.93 Liters/Second/Square KM. Momentary Peak Yield 38.005 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 18 - 34 - 32 N Long 99 - 00 - 44 E

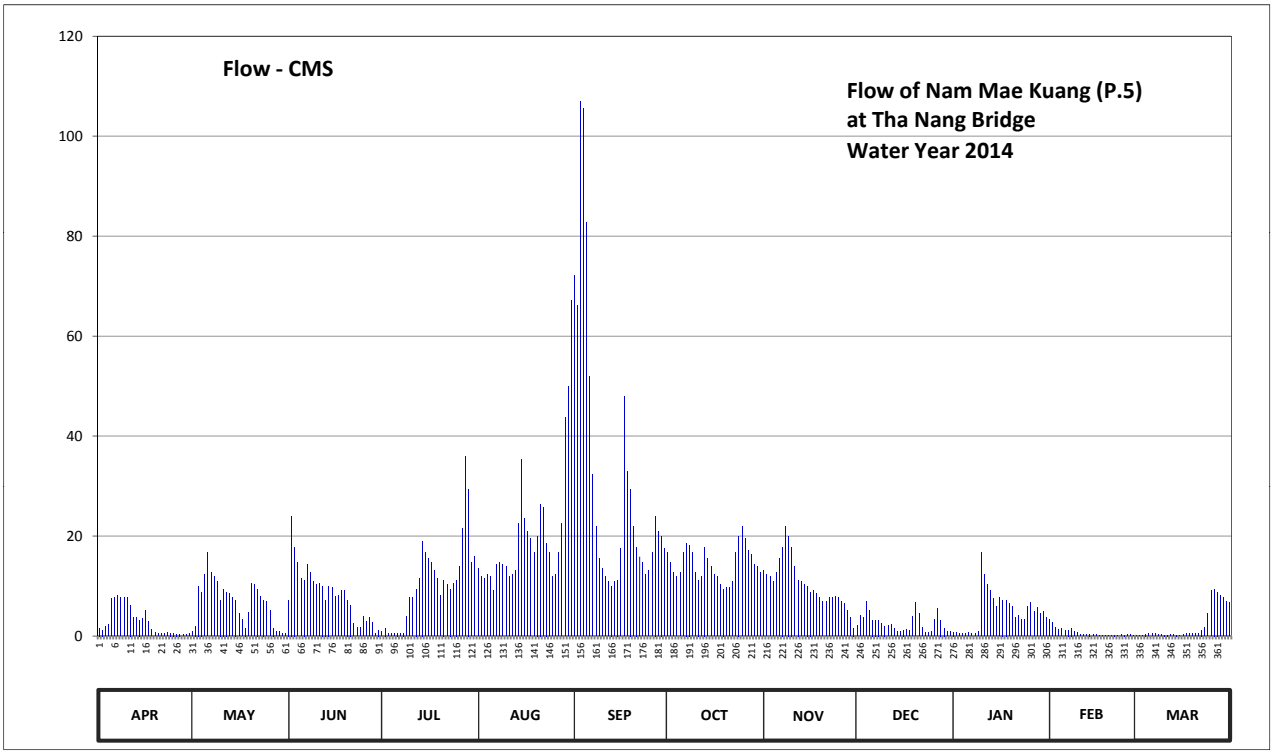
Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	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 Flot	-		
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 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.86	290.79	291.16	290.79	291.36	292.23	291.44	291.35	290.91	290.76	290.98	290.31	
2	290.82	290.90	291.60	290.86	291.32	292.17	291.39	291.33	291.02	290.74	290.94	290.33	
3	290.89	291.26	291.47	290.66	291.31	292.53	291.34	291.32	291.00	290.69	290.87	290.34	
4	290.92	291.22	291.39	290.64	291.33	292.52	291.32	291.29	291.15	290.66	290.83	290.61	
5	291.17	291.33	291.31	290.65	291.32	292.33	291.34	291.34	291.07	290.71	290.85	290.69	
6	291.18	291.44	291.30	290.72	291.23	292.02	291.44	291.41	290.97	290.74	290.81	290.66	
7	291.20	291.34	291.38	290.68	291.38	291.74	291.49	291.47	290.97	290.71	290.82	290.64	
8	291.18	291.32	291.34	290.72	291.39	291.56	291.48	291.56	290.97	290.69	290.86	290.53	
9	291.18	291.29	291.29	291.01	291.38	291.41	291.44	291.52	290.93	290.79	290.77	290.45	
10	291.18	291.16	291.27	291.18	291.37	291.36	291.34	291.47	290.90	291.44	290.74	290.42	
11	291.12	291.24	291.28	291.18	291.32	291.32	291.30	291.37	290.91	291.33	290.58	290.39	
12	291.00	291.22	291.26	291.24	291.33	291.29	291.32	291.30	290.92	291.27	290.53	290.44	
13	291.00	291.21	291.16	291.31	291.35	291.26	291.47	291.29	290.85	291.23	290.55	290.47	
14	290.97	291.18	291.26	291.50	291.57	291.29	291.41	291.27	290.80	291.17	290.60	290.43	
15	290.99	291.16	291.25	291.44	291.79	291.30	291.37	291.26	290.78	291.11	290.59	290.35	
16	291.07	291.04	291.19	291.41	291.59	291.46	291.33	291.22	290.82	291.18	290.52	290.47	
17	290.95	290.98	291.20	291.39	291.54	291.97	291.32	291.23	290.83	291.16	290.34	290.63	
18	290.83	290.86	291.23	291.35	291.51	291.75	291.27	291.21	290.81	291.16	290.38	290.66	
19	290.75	291.05	291.23	291.31	291.44	291.69	291.24	291.18	291.01	291.13	290.32	290.66	
20	290.65	291.28	291.16	291.20	291.52	291.56	291.25	291.15	291.14	291.11	290.38	290.67	
21	290.64	291.27	291.12	291.30	291.64	291.47	291.25	291.15	291.04	291.00	290.36	290.71	
22	290.66	291.24	290.93	291.27	291.63	291.42	291.29	291.18	290.87	291.02	290.42	290.82	
23	290.73	291.19	290.87	291.24	291.49	291.39	291.44	291.18	290.75	290.98	290.37	290.87	
24	290.72	291.16	290.88	291.28	291.44	291.33	291.52	291.19	290.75	290.98	290.52	291.04	
25	290.72	291.15	291.01	291.30	291.32	291.35	291.56	291.18	290.79	291.11	290.43	291.23	
26	290.60	291.07	290.95	291.37	291.33	291.44	291.51	291.15	290.98	291.14	290.57	291.24	
27	290.60	290.86	291.00	291.55	291.44	291.60	291.45	291.13	291.09	291.06	290.53	291.22	
28	290.52	290.77	290.94	291.80	291.57	291.54	291.43	291.07	290.97	291.10	290.37	291.20	
29	290.59	290.77	290.68	291.69	291.91	291.52	291.38	291.00	290.86	291.04		291.18	
30	290.67	290.69	290.82	291.39	292.00	291.46	291.37	290.86	290.80	291.06		291.15	
31		290.71		291.42	292.18		291.34		290.78	291.00		291.14	
Mean	290.88	291.10	291.16	291.19	291.49	291.64	291.38	291.25	290.92	291.01	290.60	290.71	
Max	291.20	291.44	291.60	291.80	292.18	292.53	291.56	291.56	291.15	291.44	290.98	291.24	292.53
Min	290.52	290.69	290.68	290.64	291.23	291.26	291.24	290.86	290.75	290.66	290.32	290.31	290.31

Annual Max Momentary Gage Height	292.64	m. (MSL.) ,	at 16.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	288.50	m. (MSL.) ,	River Bed	289.04	m. (MSL.)
Left Bank Elevation	295.79	m. (MSL.) ,			
Right Bank Elevation	295.80	m. (MSL.) ,	Drainage Area	1569	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	0.95	7.20	0.95	13.54	72.15	16.66	13.15	2.17	0.80	3.36	0.16		
2	1.20	2.00	24.00	1.60	11.98	66.15	14.71	12.37	4.10	0.70	2.68	0.16		
3	1.90	10.00	17.83	0.46	11.59	106.90	12.76	11.98	3.70	0.49	1.70	0.17		
4	2.34	8.80	14.71	0.44	12.37	105.60	11.98	10.90	6.95	0.46	1.30	0.41		
5	7.45	12.37	11.59	0.45	11.98	82.65	12.76	12.76	5.10	0.55	1.50	0.49		
6	7.70	16.66	11.20	0.60	9.10	51.90	16.66	15.49	3.19	0.70	1.10	0.46		
7	8.20	12.76	14.32	0.48	14.32	32.40	18.61	17.83	3.19	0.55	1.20	0.44		
8	7.70	11.98	12.76	0.60	14.71	22.00	18.22	22.00	3.19	0.49	1.60	0.33		
9	7.70	10.90	10.90	3.90	14.32	15.49	16.66	20.00	2.51	0.95	0.85	0.25		
10	7.70	7.20	10.30	7.70	13.93	13.54	12.76	17.83	2.00	16.66	0.70	0.22		
11	6.20	9.40	10.60	7.70	11.98	11.98	11.20	13.93	2.17	12.37	0.38	0.20		
12	3.70	8.80	10.00	9.40	12.37	10.90	11.98	11.20	2.34	10.30	0.33	0.24		
13	3.70	8.50	7.20	11.59	13.15	10.00	17.83	10.90	1.50	9.10	0.35	0.27		
14	3.19	7.70	10.00	19.00	22.50	10.90	15.49	10.30	1.00	7.45	0.40	0.23		
15	3.53	7.20	9.70	16.66	35.40	11.20	13.93	10.00	0.90	5.95	0.39	0.18		
16	5.10	4.50	7.95	15.49	23.50	17.44	12.37	8.80	1.20	7.70	0.32	0.27		
17	2.85	3.36	8.20	14.71	21.00	47.90	11.98	9.10	1.30	7.20	0.17	0.43		
18	1.30	1.60	9.10	13.15	19.50	33.00	10.30	8.50	1.10	7.20	0.19	0.46		
19	0.75	4.70	9.10	11.59	16.66	29.40	9.40	7.70	3.90	6.45	0.16	0.46		
20	0.45	10.60	7.20	8.20	20.00	22.00	9.70	6.95	6.70	5.95	0.19	0.47		
21	0.44	10.30	6.20	11.20	26.40	17.83	9.70	6.95	4.50	3.70	0.18	0.55		
22	0.46	9.40	2.51	10.30	25.80	15.88	10.90	7.70	1.70	4.10	0.22	1.20		
23	0.65	7.95	1.70	9.40	18.61	14.71	16.66	7.70	0.75	3.36	0.19	1.70		
24	0.60	7.20	1.80	10.60	16.66	12.37	20.00	7.95	0.75	3.36	0.32	4.50		
25	0.60	6.95	3.90	11.20	11.98	13.15	22.00	7.70	0.95	5.95	0.23	9.10		
26	0.40	5.10	2.85	13.93	12.37	16.66	19.50	6.95	3.36	6.70	0.37	9.40		
27	0.40	1.60	3.70	21.50	16.66	24.00	17.05	6.45	5.50	4.90	0.33	8.80		
28	0.32	0.85	2.68	36.00	22.50	21.00	16.27	5.10	3.19	5.70	0.19	8.20		
29	0.39	0.85	0.48	29.40	43.70	20.00	14.32	3.70	1.60	4.50		7.70		
30	0.47	0.49	1.20	14.71	50.00	17.44	13.93	1.60	1.00	4.90		6.95		
31		0.55		15.88	67.10		12.76		0.90	3.70		6.70		
Total	88.99	211.22	250.88	328.79	635.68	946.54	449.05	313.49	82.41	152.89	20.90	71.10	3551.94	CMSDAY
Mean	2.97	6.81	8.36	10.61	20.51	31.55	14.49	10.45	2.66	4.93	0.75	2.29	9.73	CMS
Max	8.20	16.66	24.00	36.00	67.10	106.90	22.00	22.00	6.95	16.66	3.36	9.40	106.90	CMS
Min	0.32	0.49	0.48	0.44	9.10	10.00	9.40	1.60	0.75	0.46	0.16	0.16	0.16	CMS
Runoff	7.69	18.25	21.68	28.41	54.92	81.78	38.80	27.09	7.12	13.21	1.81	6.14	306.89	MCM

Momentary Peak 122.60 CMS. at 292.64 m. (MSL.) at 16.00 Hours , on Sep 3 , 2014

Runoff Yield 6.20 Liters/Second/Square KM. Momentary Peak Yield 78.139 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

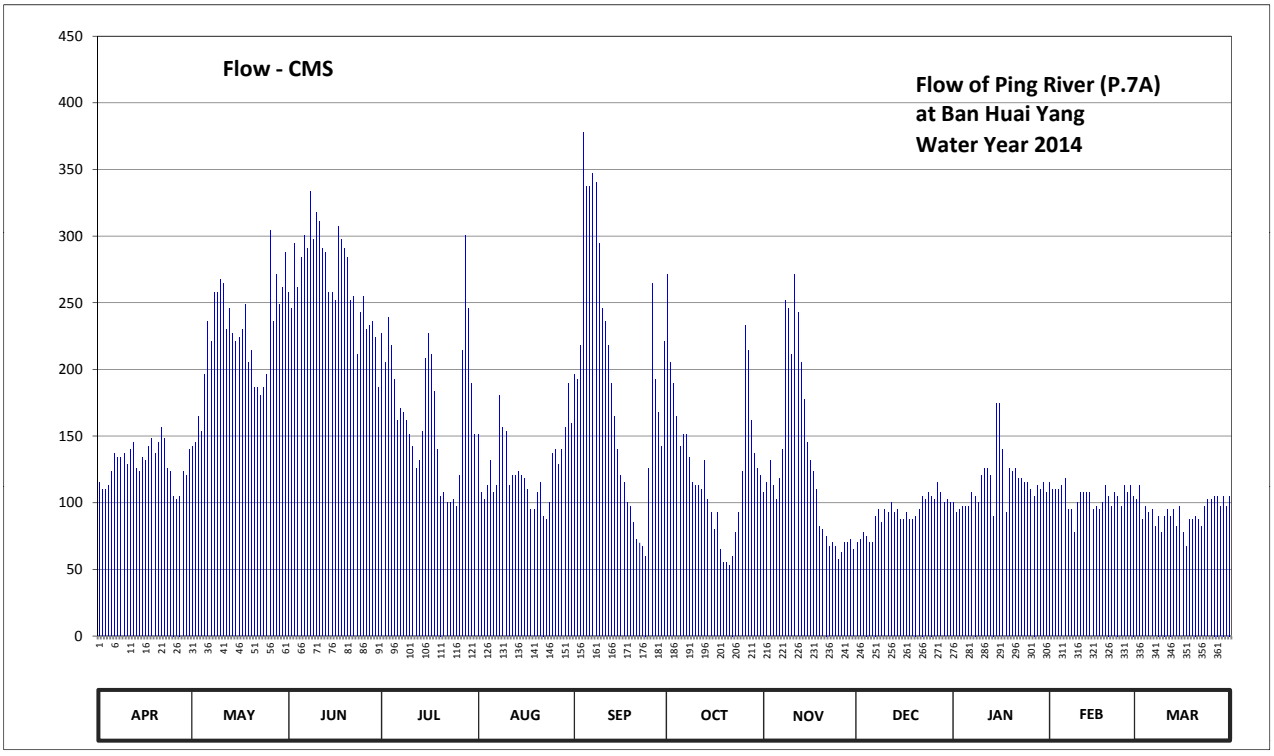
Location : on left bank about 100 meters upstream from the bridge on highway.

	Ban Huai Yang	**Amphoe** Mueang	**Changwat** Kamphaeng Phet
Drainge Area	42,464 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1960 to date		
Rating Operation			
Period of Rating	1960 - 1961 , 1967 to date		
Rated by Flot	-		
Rated by Current Meter	1960 - 1961 , 1967 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phumiphol Dam reservior above gage site.		
	Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.02	72.12	72.50	72.40	72.15	72.30	72.54	71.99	71.84	71.96	72.02	71.97	
2	72.00	72.13	72.46	72.33	71.99	72.29	72.33	72.02	71.85	71.93	72.00	72.01	
3	72.00	72.20	72.61	72.44	71.97	72.37	72.28	72.08	71.87	71.94	72.00	71.91	
4	72.01	72.16	72.51	72.37	72.01	72.86	72.20	72.01	71.86	71.95	72.00	71.95	
5	72.05	72.30	72.58	72.29	72.08	72.74	72.12	71.97	71.84	71.95	72.01	71.93	
6	72.10	72.43	72.63	72.19	71.99	72.74	72.15	72.03	71.84	71.95	72.03	71.94	
7	72.09	72.38	72.60	72.22	72.01	72.77	72.15	72.11	71.92	71.99	71.94	71.89	
8	72.09	72.50	72.73	72.21	72.25	72.75	72.09	72.48	71.94	71.98	71.94	71.92	
9	72.10	72.50	72.62	72.19	72.17	72.61	72.02	72.46	71.90	71.96	71.87	71.87	
10	72.07	72.53	72.68	72.15	72.16	72.46	72.01	72.35	71.94	72.04	71.96	71.92	
11	72.11	72.52	72.66	72.12	72.01	72.43	72.01	72.54	71.93	72.06	71.99	71.94	
12	72.13	72.41	72.60	72.06	72.04	72.37	72.00	72.45	71.96	72.06	71.99	71.92	
13	72.06	72.46	72.59	72.08	72.04	72.28	72.08	72.33	71.93	72.04	71.99	71.94	
14	72.05	72.40	72.50	72.16	72.05	72.20	71.97	72.24	71.94	71.92	71.99	71.89	
15	72.09	72.38	72.50	72.34	72.04	72.11	71.93	72.13	71.91	72.23	71.94	71.95	
16	72.08	72.39	72.48	72.40	72.03	72.04	71.88	72.08	71.91	72.23	71.95	71.87	
17	72.12	72.41	72.65	72.35	72.00	72.02	71.93	72.05	71.93	72.11	71.94	71.83	
18	72.14	72.47	72.62	72.26	71.94	71.96	71.82	72.00	71.91	71.93	71.96	71.91	
19	72.10	72.33	72.60	72.11	71.94	71.95	71.78	71.89	71.91	72.06	72.01	71.91	
20	72.13	72.36	72.58	71.98	71.99	71.90	71.78	71.88	71.92	72.05	71.98	71.92	
21	72.17	72.27	72.48	71.99	72.02	71.85	71.77	71.86	71.94	72.06	71.95	71.91	
22	72.14	72.27	72.49	71.96	71.92	71.84	71.80	71.83	71.98	72.03	71.99	71.89	
23	72.06	72.25	72.35	71.96	71.91	71.83	71.87	71.84	71.97	72.03	71.98	71.95	
24	72.05	72.27	72.45	71.97	71.96	71.80	71.93	71.83	71.99	72.02	71.95	71.97	
25	71.98	72.30	72.49	71.95	72.10	72.06	72.05	71.79	71.98	72.02	72.01	71.97	
26	71.97	72.64	72.41	72.04	72.11	72.52	72.42	71.81	71.97	72.00	71.99	71.98	
27	71.98	72.43	72.42	72.36	72.07	72.29	72.36	71.84	72.02	71.98	72.01	71.98	
28	72.05	72.54	72.43	72.63	72.11	72.21	72.19	71.84	71.99	72.01	71.98	71.95	
29	72.04	72.47	72.39	72.46	72.17	72.12	72.10	71.85	71.96	72.00		71.98	
30	72.11	72.51	72.27	72.28	72.28	72.38	72.06	71.82	71.97	72.02		71.95	
31		72.59		72.15	72.18		72.04		71.96	71.99		71.98	
Mean	72.07	72.38	72.53	72.21	72.05	72.27	72.05	72.05	71.93	72.02	71.98	71.93	
Max	72.17	72.64	72.73	72.63	72.28	72.86	72.54	72.54	72.02	72.23	72.03	72.01	72.86
Min	71.97	72.12	72.27	71.95	71.91	71.80	71.77	71.79	71.84	71.92	71.87	71.83	71.77

Annual Max Momentary Gage Height	72.98	m. (MSL.) ,	at 18.00 Hours , on Jun 8 , 2014		
Zero Gage at Bottom Elevation	71.73	m. (MSL.) ,	River Bed	70.20	m. (MSL.)
Left Bank Elevation	77.93	m. (MSL.) ,			
Right Bank Elevation	77.79	m. (MSL.) ,	Drainage Area	42464	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	115.40	142.60	258.00	227.00	151.00	196.00	271.20	107.50	70.00	100.00	115.40	102.50		
2	110.00	145.40	245.60	205.30	107.50	192.90	205.30	115.40	72.50	92.50	110.00	112.70		
3	110.00	165.00	294.30	239.40	102.50	217.70	189.80	131.60	77.50	95.00	110.00	87.50		
4	112.70	153.80	261.30	217.70	112.70	377.40	165.00	112.70	75.00	97.50	110.00	97.50		
5	123.50	196.00	284.40	192.90	131.60	337.20	142.60	102.50	70.00	97.50	112.70	92.50		
6	137.00	236.30	300.90	162.20	107.50	337.20	151.00	118.10	70.00	97.50	118.10	95.00		
7	134.30	220.80	291.00	171.20	112.70	347.10	151.00	139.80	90.00	107.50	95.00	82.50		
8	134.30	258.00	333.90	168.10	180.50	340.50	134.30	251.80	95.00	105.00	95.00	90.00		
9	137.00	258.00	297.60	162.20	156.60	294.30	115.40	245.60	85.00	100.00	77.50	77.50		
10	128.90	267.90	317.40	151.00	153.80	245.60	112.70	211.50	95.00	120.80	100.00	90.00		
11	139.80	264.60	310.80	142.60	112.70	236.30	112.70	271.20	92.50	126.20	107.50	95.00		
12	145.40	230.10	291.00	126.20	120.80	217.70	110.00	242.50	100.00	126.20	107.50	90.00		
13	126.20	245.60	287.70	131.60	120.80	189.80	131.60	205.30	92.50	120.80	107.50	95.00		
14	123.50	227.00	258.00	153.80	123.50	165.00	102.50	177.40	95.00	90.00	107.50	82.50		
15	134.30	220.80	258.00	208.40	120.80	139.80	92.50	145.40	87.50	174.30	95.00	97.50		
16	131.60	223.90	251.80	227.00	118.10	120.80	80.00	131.60	87.50	174.30	97.50	77.50		
17	142.60	230.10	307.50	211.50	110.00	115.40	92.50	123.50	92.50	139.80	95.00	67.50		
18	148.20	248.70	297.60	183.60	95.00	100.00	65.00	110.00	87.50	92.50	100.00	87.50		
19	137.00	205.30	291.00	139.80	95.00	97.50	55.20	82.50	87.50	126.20	112.70	87.50		
20	145.40	214.60	284.40	105.00	107.50	85.00	55.20	80.00	90.00	123.50	105.00	90.00		
21	156.60	186.70	251.80	107.50	115.40	72.50	52.80	75.00	95.00	126.20	97.50	87.50		
22	148.20	186.70	254.90	100.00	90.00	70.00	60.00	67.50	105.00	118.10	107.50	82.50		
23	126.20	180.50	211.50	100.00	87.50	67.50	77.50	70.00	102.50	118.10	105.00	97.50		
24	123.50	186.70	242.50	102.50	100.00	60.00	92.50	67.50	107.50	115.40	97.50	102.50		
25	105.00	196.00	254.90	97.50	137.00	126.20	123.50	57.60	105.00	115.40	112.70	102.50		
26	102.50	304.20	230.10	120.80	139.80	264.60	233.20	62.50	102.50	110.00	107.50	105.00		
27	105.00	236.30	233.20	214.60	128.90	192.90	214.60	70.00	115.40	105.00	112.70	105.00		
28	123.50	271.20	236.30	300.90	139.80	168.10	162.20	70.00	107.50	112.70	105.00	97.50		
29	120.80	248.70	223.90	245.60	156.60	142.60	137.00	72.50	100.00	110.00		105.00		
30	139.80	261.30	186.70	189.80	189.80	220.80	126.20	65.00	102.50	115.40		97.50		
31		287.70		151.00	159.40		120.80		100.00	107.50		105.00		
Total	3868.20	6900.50	8048.00	5256.70	3884.80	5738.40	3935.80	3783.50	2855.40	3560.90	2924.30	2885.20	53641.70	CMSDAY
Mean	128.94	222.60	268.27	169.57	125.32	191.28	126.96	126.12	92.11	114.87	104.44	93.07	146.96	CMS
Max	156.60	304.20	333.90	300.90	189.80	377.40	271.20	271.20	115.40	174.30	118.10	112.70	377.40	CMS
Min	102.50	142.60	186.70	97.50	87.50	60.00	52.80	57.60	70.00	90.00	77.50	67.50	52.80	CMS
Runoff	334.21	596.20	695.35	454.18	335.65	495.80	340.05	326.89	246.71	307.66	252.66	249.28	4634.64	MCM

Momentary Peak 418.20 CMS. at 72.98 m. (MSL.) at 18.00 Hours , on Jun 8 , 2014

Runoff Yield 3.46 Liters/Second/Square KM. Momentary Peak Yield 9.848 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Ping River at Ban Yanree , Tak (P.12C)

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

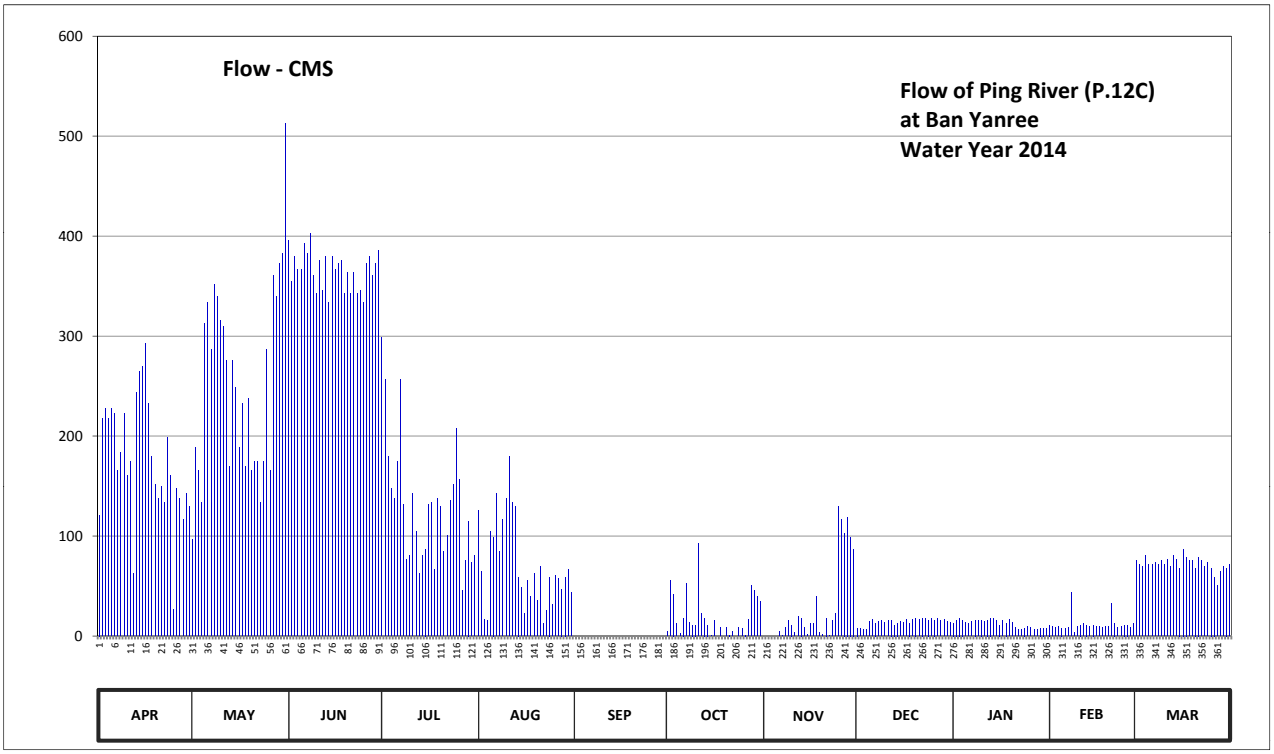
Location : on right bank about 3 kilometers from Phumiphol Dam reservoir.

	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**	+137.031 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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly 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 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.02	129.90	131.06	130.74	130.04	129.00	129.20	129.00	129.25	129.33	129.30	129.79	
2	130.44	130.32	130.93	130.59	129.73	129.00	129.68	129.00	129.24	129.37	129.28	129.77	
3	130.48	130.22	131.01	130.28	129.38	129.00	129.60	129.00	129.23	129.40	129.26	129.76	
4	130.44	130.08	130.97	130.14	129.36	129.00	129.32	129.00	129.23	129.37	129.27	129.82	
5	130.48	130.79	130.97	130.10	129.94	129.00	129.14	129.00	129.35	129.34	129.25	129.77	
6	130.46	130.86	131.05	130.26	129.91	129.00	129.40	129.20	129.38	129.32	129.24	129.77	
7	130.22	130.70	131.02	130.59	130.12	129.00	129.66	129.06	129.33	129.35	129.26	129.78	
8	130.30	130.92	131.08	130.07	129.84	129.00	129.34	129.26	129.35	129.37	129.61	129.77	
9	130.46	130.88	130.95	129.80	130.00	129.00	129.30	129.36	129.36	129.36	129.17	129.79	
10	130.20	130.80	130.89	129.82	130.10	129.00	129.30	129.30	129.34	129.37	129.28	129.77	
11	130.26	130.78	131.00	130.12	130.28	129.00	129.88	129.16	129.36	129.35	129.30	129.80	
12	129.72	130.66	130.90	129.94	130.08	129.00	129.44	129.41	129.37	129.37	129.32	129.76	
13	130.54	130.24	131.01	129.72	130.06	129.00	129.40	129.40	129.30	129.40	129.30	129.82	
14	130.62	130.66	130.86	129.82	129.70	129.00	129.30	129.26	129.33	129.39	129.28	129.80	
15	130.64	130.56	131.01	129.85	129.64	129.00	129.08	129.12	129.35	129.36	129.30	129.75	
16	130.72	130.32	130.97	130.07	129.44	129.00	129.36	129.32	129.34	129.30	129.27	129.85	
17	130.50	130.50	130.99	130.08	129.68	129.00	129.00	129.32	129.38	129.36	129.27	129.81	
18	130.28	130.24	131.00	129.74	129.58	129.00	129.26	129.58	129.33	129.33	129.26	129.79	
19	130.16	130.52	130.89	130.10	129.72	129.00	129.00	129.16	129.38	129.38	129.28	129.79	
20	130.10	130.22	130.96	130.06	129.55	129.00	129.26	129.12	129.40	129.34	129.27	129.75	
21	130.15	130.26	130.89	129.84	129.76	129.00	129.10	129.40	129.38	129.26	129.53	129.81	
22	130.08	130.26	130.96	129.92	129.32	129.00	129.20	129.06	129.40	129.23	129.33	129.79	
23	130.36	130.08	130.89	130.09	129.47	129.00	129.00	129.36	129.39	129.23	129.26	129.76	
24	130.20	130.26	130.90	130.16	129.70	129.00	129.26	129.44	129.37	129.25	129.28	129.78	
25	129.48	130.70	130.86	130.40	129.52	129.00	129.24	130.06	129.39	129.27	129.30	129.75	
26	130.14	130.22	130.99	130.18	129.71	129.00	129.10	130.00	129.37	129.26	129.30	129.70	
27	130.10	130.95	131.01	129.62	129.69	129.00	129.38	129.93	129.39	129.22	129.26	129.65	
28	130.00	130.88	130.95	129.79	129.63	129.00	129.65	130.01	129.36	129.23	129.32	129.73	
29	130.12	130.99	130.99	129.99	129.70	129.00	129.62	129.91	129.38	129.25		129.76	
30	130.06	131.02	131.03	129.78	129.74	129.00	129.58	129.85	129.35	129.25		129.75	
31		131.40		129.82	129.61		129.54		129.34	129.24		129.77	
Mean	130.26	130.55	130.97	130.05	129.74	129.00	129.34	129.37	129.35	129.32	129.30	129.77	
Max	130.72	131.40	131.08	130.74	130.28	129.00	129.88	130.06	129.40	129.40	129.61	129.85	131.40
Min	129.48	129.90	130.86	129.62	129.32	129.00	129.00	129.00	129.23	129.22	129.17	129.65	129.00

Annual Max Momentary Gage Height	132.00	m. (MSL.) ,	at 12.00 Hours , on May 31 , 2014		
Zero Gage at Bottom Elevation	129.00	m. (MSL.) ,	River Bed	127.36	m. (MSL.)
Left Bank Elevation	134.32	m. (MSL.) ,			
Right Bank Elevation	134.28	m. (MSL.) ,	Drainage Area	26241	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	121.20	97.00	395.80	298.60	125.40	0.00	5.00	0.00	8.00	13.10	11.00	75.20		
2	218.00	188.80	355.00	256.40	64.40	0.00	55.60	0.00	7.40	15.90	9.80	71.60		
3	228.00	165.60	379.30	179.40	16.60	0.00	42.00	0.00	6.80	18.00	8.60	69.80		
4	218.00	133.80	367.00	147.20	15.20	0.00	12.40	0.00	6.80	15.90	9.20	81.00		
5	228.00	313.10	367.00	138.00	105.00	0.00	2.60	0.00	14.50	13.80	8.00	71.60		
6	223.00	334.00	392.50	174.80	99.00	0.00	18.00	5.00	16.60	12.40	7.40	71.60		
7	165.60	287.00	382.60	256.40	142.60	0.00	52.20	0.60	13.10	14.50	8.60	73.40		
8	184.00	352.00	402.40	131.70	85.00	0.00	13.80	8.60	14.50	15.90	43.70	71.60		
9	223.00	340.00	361.00	77.00	117.00	0.00	11.00	15.20	15.20	15.20	3.80	75.20		
10	161.00	316.00	343.00	81.00	138.00	0.00	11.00	11.00	13.80	15.90	9.80	71.60		
11	174.80	310.20	376.00	142.60	179.40	0.00	93.00	3.40	15.20	14.50	11.00	77.00		
12	62.60	275.80	346.00	105.00	133.80	0.00	22.40	19.10	15.90	15.90	12.40	69.80		
13	243.40	170.20	379.30	62.60	129.60	0.00	18.00	18.00	11.00	18.00	11.00	81.00		
14	264.60	275.80	334.00	81.00	59.00	0.00	11.00	8.60	13.10	17.30	9.80	77.00		
15	270.20	248.60	379.30	87.00	48.80	0.00	0.80	1.80	14.50	15.20	11.00	68.00		
16	292.80	188.80	367.00	131.70	22.40	0.00	15.20	12.40	13.80	11.00	9.20	87.00		
17	233.00	233.00	373.00	133.80	55.60	0.00	0.00	12.40	16.60	15.20	9.20	79.00		
18	179.40	170.20	376.00	66.20	39.40	0.00	8.60	39.40	13.10	13.10	8.60	75.20		
19	151.80	238.20	343.00	138.00	62.60	0.00	0.00	3.40	16.60	16.60	9.80	75.20		
20	138.00	165.60	364.00	129.60	35.50	0.00	8.60	1.80	18.00	13.80	9.20	68.00		
21	149.50	174.80	343.00	85.00	69.80	0.00	1.00	18.00	16.60	8.60	32.90	79.00		
22	133.80	174.80	364.00	101.00	12.40	0.00	5.00	0.60	18.00	6.80	13.10	75.20		
23	198.40	133.80	343.00	135.90	25.70	0.00	0.00	15.20	17.30	6.80	8.60	69.80		
24	161.00	174.80	346.00	151.80	59.00	0.00	8.60	22.40	15.90	8.00	9.80	73.40		
25	26.80	287.00	334.00	208.00	31.60	0.00	7.40	129.60	17.30	9.20	11.00	68.00		
26	147.20	165.60	373.00	156.40	60.80	0.00	1.00	117.00	15.90	8.60	11.00	59.00		
27	138.00	361.00	379.30	45.40	57.30	0.00	16.60	103.00	17.30	6.20	8.60	50.50		
28	117.00	340.00	361.00	75.20	47.10	0.00	50.50	119.10	15.20	6.80	12.40	64.40		
29	142.60	373.00	373.00	115.00	59.00	0.00	45.40	99.00	16.60	8.00		69.80		
30	129.60	382.60	385.90	73.40	66.20	0.00	39.40	87.00	14.50	8.00		68.00		
31		513.00		81.00	43.70		34.20		13.80	7.40		71.60		
Total	5324.30	7884.10	10985.40	4046.10	2206.90	0.00	610.30	871.60	442.90	385.60	328.50	2238.50	35324.20	CMSDAY
Mean	177.48	254.33	366.18	130.52	71.19	0.00	19.69	29.05	14.29	12.44	11.73	72.21	96.78	CMS
Max	292.80	513.00	402.40	298.60	179.40	0.00	93.00	129.60	18.00	18.00	43.70	87.00	513.00	CMS
Min	26.80	97.00	334.00	45.40	12.40	0.00	0.00	0.00	6.80	6.20	3.80	50.50	0.00	CMS
Runoff	460.02	681.19	949.14	349.58	190.68	0.00	52.73	75.31	38.27	33.32	28.38	193.41	3052.01	MCM

Momentary Peak 735.00 CMS. at 132.00 m. (MSL.) at 12.00 Hours , on May 31 , 2014

Runoff Yield 3.69 Liters/Second/Square KM. Momentary Peak Yield 28.010 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 19 - 12 - 02 N Long 98 - 37 - 01 E

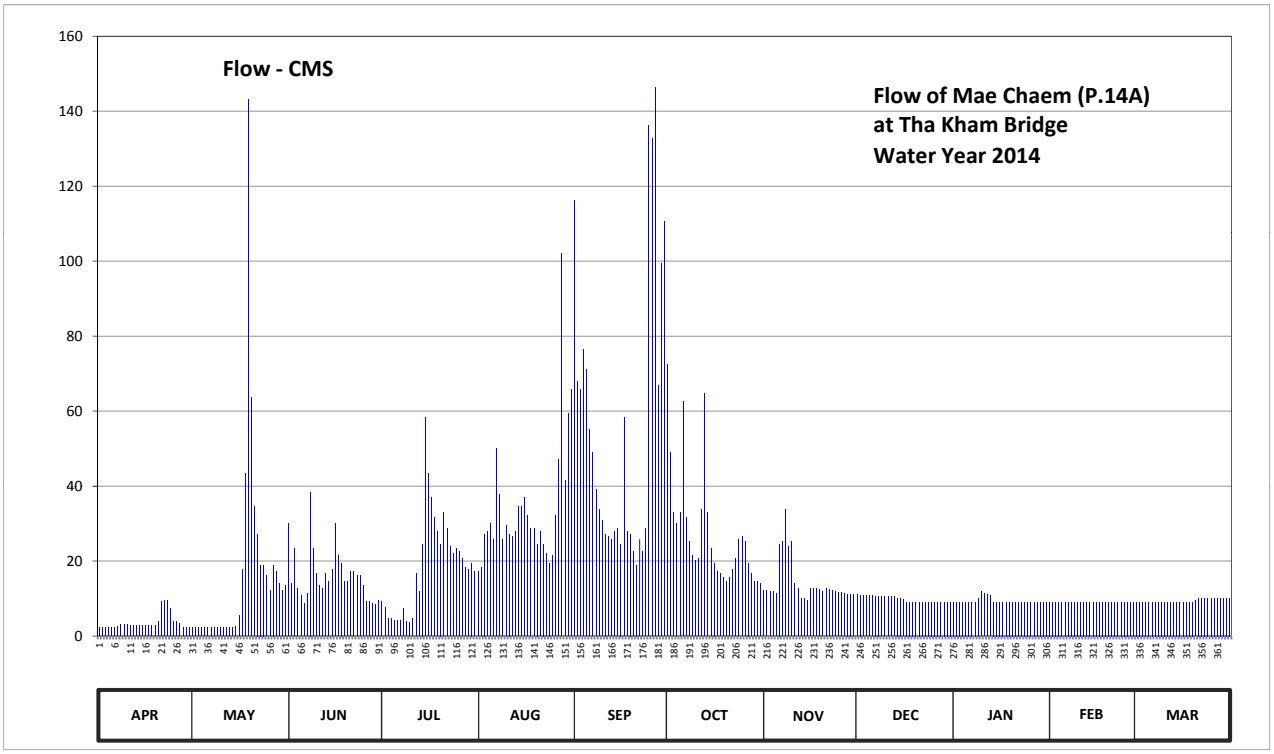
Location : on right bank near the bridge of Hot - Mae Sariang Highway at guidepost 7+500.

	Ban -	**Amphoe**	Chom Thong	**Changwat**	Chiang Mai
Drainge Area	3,909 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+261.863 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	about 10 meters in front of automatic gage building.			**Elevation**	+267.972 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1953 to date				
Rating Operation					
Period of Rating	1955 - 1960 , 1967 to date				
Rated by Flot	-				
Rated by Current Meter	1955 - 1960 , 1967 to date				
Stability of Channel Regimes	Rather unstable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	262.76	262.76	263.36	262.99	263.16	264.13	263.81	263.06	262.86	262.76	262.76	262.76	
2	262.76	262.76	263.10	262.95	263.18	263.77	263.59	263.06	262.85	262.76	262.76	262.76	
3	262.76	262.76	263.26	262.86	263.32	263.75	263.40	263.05	262.84	262.76	262.76	262.76	
4	262.76	262.76	263.07	262.86	263.33	263.84	263.36	263.05	262.84	262.76	262.76	262.76	
5	262.76	262.76	263.03	262.84	263.36	263.80	263.40	263.04	262.84	262.76	262.76	262.76	
6	262.76	262.76	262.98	262.84	263.30	263.65	263.72	263.28	262.83	262.76	262.76	262.76	
7	262.77	262.76	263.04	262.84	263.60	263.59	263.38	263.29	262.82	262.76	262.76	262.76	
8	262.80	262.76	263.47	262.94	263.46	263.48	263.29	263.41	262.82	262.76	262.76	262.76	
9	262.80	262.76	263.26	262.83	263.30	263.41	263.23	263.27	262.81	262.79	262.76	262.76	
10	262.80	262.76	263.15	262.82	263.35	263.37	263.21	263.29	262.81	262.93	262.76	262.76	
11	262.79	262.76	263.09	262.86	263.32	263.32	263.22	263.10	262.81	262.89	262.76	262.76	
12	262.79	262.76	263.07	263.15	263.31	263.31	263.41	263.07	262.81	262.86	262.76	262.76	
13	262.79	262.76	263.15	263.05	263.33	263.30	263.74	263.01	262.80	262.83	262.76	262.76	
14	262.79	262.76	263.11	263.28	263.42	263.33	263.40	263.01	262.79	262.76	262.76	262.76	
15	262.79	262.77	263.17	263.68	263.42	263.34	263.26	263.00	262.79	262.76	262.76	262.76	
16	262.79	262.89	263.36	263.53	263.45	263.28	263.20	262.96	262.78	262.76	262.76	262.76	
17	262.79	263.17	263.23	263.45	263.39	263.68	263.16	262.96	262.76	262.76	262.76	262.76	
18	262.79	263.53	263.20	263.38	263.34	263.33	263.15	262.96	262.76	262.76	262.76	262.76	
19	262.79	264.30	263.11	263.33	263.34	263.32	263.13	262.95	262.76	262.76	262.76	262.76	
20	262.83	263.73	263.11	263.28	263.28	263.25	263.11	262.92	262.76	262.76	262.76	262.77	
21	262.99	263.42	263.16	263.40	263.33	263.19	263.13	262.96	262.76	262.76	262.76	262.79	
22	263.00	263.32	263.16	263.34	263.28	263.30	263.17	262.95	262.76	262.76	262.76	262.79	
23	263.00	263.19	263.14	263.27	263.24	263.25	263.22	262.94	262.76	262.76	262.76	262.79	
24	262.94	263.19	263.14	263.24	263.20	263.34	263.30	262.93	262.76	262.76	262.76	262.79	
25	262.83	263.14	263.09	263.26	263.23	264.26	263.31	262.91	262.76	262.76	262.76	262.79	
26	262.83	263.06	262.99	263.25	263.39	264.24	263.29	262.91	262.76	262.76	262.76	262.79	
27	262.81	263.19	262.99	263.22	263.57	264.32	263.20	262.90	262.76	262.76	262.76	262.79	
28	262.76	263.16	262.98	263.18	264.03	263.76	263.15	262.88	262.76	262.76	262.76	262.79	
29	262.76	263.10	262.97	263.17	263.51	264.01	263.11	262.88	262.76	262.76		262.79	
30	262.76	263.06	263.00	263.20	263.69	264.09	263.11	262.86	262.76	262.76		262.79	
31		263.09		263.16	263.75		263.10		262.76	262.76		262.79	
Mean	262.81	263.03	263.13	263.14	263.39	263.60	263.30	263.03	262.79	262.78	262.76	262.77	
Max	263.00	264.30	263.47	263.68	264.03	264.32	263.81	263.41	262.86	262.93	262.76	262.79	264.32
Min	262.76	262.76	262.97	262.82	263.16	263.19	263.10	262.86	262.76	262.76	262.76	262.76	262.76

Annual Max Momentary Gage Height	264.68	m. (MSL.) ,	at 23.00 Hours , on Sep 23 , 2014			
Zero Gage at Bottom Elevation	261.86	m. (MSL.) ,	River Bed	262.40	m. (MSL)	
Left Bank Elevation	268.19	m. (MSL.) ,				
Right Bank Elevation	268.32	m. (MSL.) ,	Drainage Area	3909	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.28	2.28	30.12	9.13	17.30	116.20	72.35	12.20	11.04	9.10	9.10	9.10		
2	2.28	2.28	14.00	7.65	18.40	67.85	49.07	12.20	10.95	9.10	9.10	9.10		
3	2.28	2.28	23.28	4.68	27.24	65.75	33.00	11.75	10.86	9.10	9.10	9.10		
4	2.28	2.28	12.65	4.68	27.96	76.40	30.12	11.75	10.86	9.10	9.10	9.10		
5	2.28	2.28	10.85	4.12	30.12	71.00	33.00	11.30	10.86	9.10	9.10	9.10		
6	2.28	2.28	8.76	4.12	25.80	55.25	62.60	24.54	10.77	9.10	9.10	9.10		
7	2.46	2.28	11.30	4.12	50.00	49.07	31.56	25.17	10.68	9.10	9.10	9.10		
8	3.00	2.28	38.39	7.28	37.62	39.16	25.17	33.77	10.68	9.10	9.10	9.10		
9	3.00	2.28	23.28	3.84	25.80	33.77	21.39	23.91	10.59	10.15	9.10	9.10		
10	3.00	2.28	16.75	3.56	29.40	30.84	20.13	25.17	10.59	12.00	9.10	9.10		
11	2.82	2.28	13.55	4.68	27.24	27.24	20.76	14.00	10.59	11.31	9.10	9.10		
12	2.82	2.28	12.65	16.75	26.52	26.52	33.77	12.65	10.59	11.04	9.10	9.10		
13	2.82	2.28	16.75	11.75	27.96	25.80	64.70	9.95	10.50	10.77	9.10	9.10		
14	2.82	2.28	14.55	24.54	34.54	27.96	33.00	9.95	10.15	9.10	9.10	9.10		
15	2.82	2.46	17.85	58.40	34.54	28.68	23.28	9.50	10.15	9.10	9.10	9.10		
16	2.82	5.52	30.12	43.49	36.85	24.54	19.50	12.60	9.80	9.10	9.10	9.10		
17	2.82	17.85	21.39	36.85	32.28	58.40	17.30	12.60	9.10	9.10	9.10	9.10		
18	2.82	43.49	19.50	31.56	28.68	27.96	16.75	12.60	9.10	9.10	9.10	9.10		
19	2.82	143.00	14.55	27.96	28.68	27.24	15.65	12.40	9.10	9.10	9.10	9.10		
20	3.84	63.65	14.55	24.54	24.54	22.65	14.55	11.80	9.10	9.10	9.10	9.45		
21	9.13	34.54	17.30	33.00	27.96	18.95	15.65	12.60	9.10	9.10	9.10	10.15		
22	9.50	27.24	17.30	28.68	24.54	25.80	17.85	12.40	9.10	9.10	9.10	10.15		
23	9.50	18.95	16.20	23.91	22.02	22.65	20.76	12.20	9.10	9.10	9.10	10.15		
24	7.28	18.95	16.20	22.02	19.50	28.68	25.80	12.00	9.10	9.10	9.10	10.15		
25	3.84	16.20	13.55	23.28	21.39	136.20	26.52	11.60	9.10	9.10	9.10	10.15		
26	3.84	12.20	9.13	22.65	32.28	132.80	25.17	11.60	9.10	9.10	9.10	10.15		
27	3.28	18.95	9.13	20.76	47.21	146.40	19.50	11.40	9.10	9.10	9.10	10.15		
28	2.28	17.30	8.76	18.40	102.20	66.80	16.75	11.22	9.10	9.10	9.10	10.15		
29	2.28	14.00	8.39	17.85	41.63	99.40	14.55	11.22	9.10	9.10		10.15		
30	2.28	12.20	9.50	19.50	59.45	110.60	14.55	11.04	9.10	9.10		10.15		
31		13.55		17.30	65.75		14.00		9.10	9.10		10.15		
Total	107.57	511.97	490.30	581.05	1055.40	1690.56	848.75	427.09	306.16	291.87	254.80	294.00	6859.52	CMSDAY
Mean	3.59	16.52	16.34	18.74	34.05	56.35	27.38	14.24	9.88	9.42	9.10	9.48	18.79	CMS
Max	9.50	143.00	38.39	58.40	102.20	146.40	72.35	33.77	11.04	12.00	9.10	10.15	146.40	CMS
Min	2.28	2.28	8.39	3.56	17.30	18.95	14.00	9.50	9.10	9.10	9.10	9.10	2.28	CMS
Runoff	9.29	44.23	42.36	50.20	91.19	146.06	73.33	36.90	26.45	25.22	22.02	25.40	592.66	MCM

Momentary Peak 218.00 CMS. at 264.68 m. (MSL.) at 23.00 Hours , on Sep 23 , 2014

Runoff Yield 4.81 Liters/Second/Square KM. Momentary Peak Yield 55.769 Liters/Second/Square KM.

WATER YEAR : 2014

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.

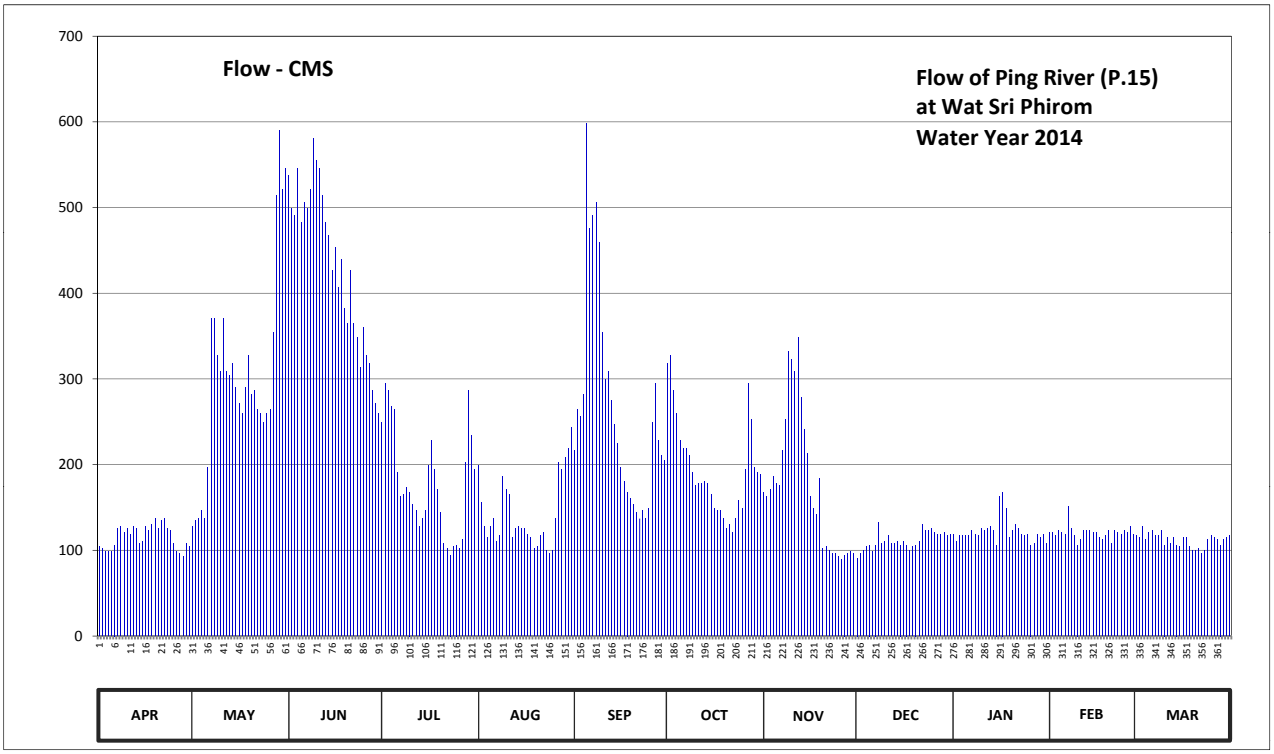
Ban Wat Sri Phirom **Amphoe** Khlong Khlung **Changwat** Kamphaeng Phet

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 Flot	-
Rated by Current Meter	1964 - 1974 , 1997 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 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.62	52.73	53.70	53.19	53.02	53.08	53.36	52.90	52.55	52.69	52.70	52.68	
2	52.61	52.76	53.65	53.31	52.85	53.23	53.38	52.88	52.58	52.65	52.70	52.67	
3	52.59	52.77	53.64	53.29	52.73	53.21	53.29	52.91	52.60	52.68	52.68	52.73	
4	52.59	52.81	53.71	53.24	52.67	53.28	53.22	52.97	52.62	52.68	52.71	52.66	
5	52.59	52.77	53.63	53.23	52.73	53.77	53.12	52.94	52.63	52.68	52.70	52.70	
6	52.63	53.01	53.66	52.99	52.77	53.62	53.09	52.93	52.59	52.68	52.69	52.71	
7	52.72	53.46	53.65	52.88	52.65	53.64	53.09	53.08	52.63	52.71	52.83	52.68	
8	52.73	53.46	53.68	52.89	52.68	53.66	53.06	53.20	52.75	52.69	52.72	52.68	
9	52.70	53.38	53.75	52.92	52.97	53.60	52.99	53.39	52.64	52.68	52.68	52.71	
10	52.72	53.34	53.72	52.90	52.91	53.43	52.93	53.37	52.65	52.72	52.63	52.63	
11	52.69	53.46	53.71	52.84	52.89	53.32	52.94	53.34	52.68	52.71	52.66	52.67	
12	52.73	53.34	53.67	52.81	52.67	53.34	52.94	53.42	52.64	52.72	52.71	52.64	
13	52.72	53.33	53.63	52.73	52.72	53.26	52.95	53.27	52.64	52.73	52.71	52.67	
14	52.64	53.36	53.61	52.77	52.73	53.18	52.94	53.16	52.65	52.71	52.71	52.63	
15	52.65	53.30	53.55	52.81	52.72	53.11	52.89	53.07	52.63	52.63	52.70	52.62	
16	52.73	53.25	53.59	53.02	52.72	53.01	52.82	52.88	52.65	52.88	52.70	52.67	
17	52.71	53.22	53.52	53.12	52.69	52.95	52.81	52.82	52.63	52.90	52.67	52.67	
18	52.74	53.30	53.57	53.00	52.67	52.90	52.81	52.79	52.60	52.82	52.66	52.62	
19	52.77	53.38	53.48	52.91	52.61	52.87	52.77	52.96	52.62	52.67	52.68	52.60	
20	52.72	53.28	53.45	52.80	52.62	52.84	52.72	52.61	52.63	52.71	52.71	52.60	
21	52.76	53.29	53.55	52.64	52.68	52.80	52.74	52.62	52.65	52.74	52.64	52.61	
22	52.77	53.23	53.45	52.61	52.70	52.77	52.70	52.60	52.74	52.72	52.71	52.58	
23	52.72	53.22	53.42	52.57	52.60	52.81	52.77	52.58	52.71	52.69	52.70	52.60	
24	52.71	53.19	53.35	52.62	52.58	52.77	52.86	52.58	52.71	52.68	52.69	52.66	
25	52.64	53.22	53.44	52.63	52.60	52.82	52.82	52.56	52.72	52.69	52.71	52.68	
26	52.59	53.23	53.38	52.61	52.77	53.19	53.00	52.54	52.70	52.63	52.70	52.67	
27	52.58	53.43	53.36	52.66	53.03	53.31	53.31	52.57	52.69	52.64	52.73	52.66	
28	52.56	53.67	53.29	53.03	53.00	53.12	53.20	52.58	52.69	52.69	52.69	52.63	
29	52.64	53.76	53.25	53.29	53.05	53.06	53.01	52.59	52.70	52.67		52.66	
30	52.62	53.68	53.22	53.14	53.09	53.04	52.99	52.58	52.68	52.69		52.67	
31		53.71		53.00	53.17		52.98		52.69	52.64		52.68	
Mean	52.67	53.27	53.54	52.92	52.78	53.17	52.98	52.89	52.65	52.70	52.70	52.66	
Max	52.77	53.76	53.75	53.31	53.17	53.77	53.38	53.42	52.75	52.90	52.83	52.73	53.77
Min	52.56	52.73	53.22	52.57	52.58	52.77	52.70	52.54	52.55	52.63	52.63	52.58	52.54

Annual Max Momentary Gage Height	53.84	m. (MSL.) ,	at 15.00 Hours , on May 29 , 2014		
Zero Gage at Bottom Elevation	51.56	m. (MSL.) ,	River Bed	50.31	m. (MSL.)
Left Bank Elevation	57.48	m. (MSL.) ,			
Right Bank Elevation	57.41	m. (MSL.) ,	Drainage Area	44461	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	104.20	127.90	537.00	249.90	199.60	216.40	318.20	168.00	91.00	118.90	121.00	116.80		
2	102.10	134.80	498.50	294.70	156.00	264.10	327.60	163.20	96.40	110.50	121.00	114.70		
3	98.20	137.10	490.80	286.30	127.90	256.70	286.30	170.60	100.00	116.80	116.80	127.90		
4	98.20	146.40	545.80	267.80	114.70	282.60	260.40	186.20	104.20	116.80	123.30	112.60		
5	98.20	137.10	483.10	264.10	127.90	598.60	228.20	178.40	106.30	116.80	121.00	121.00		
6	106.30	196.80	506.20	191.40	137.10	475.40	219.20	175.80	98.20	116.80	118.90	123.30		
7	125.60	371.20	498.50	163.20	110.50	490.80	219.20	216.40	106.30	123.30	151.20	116.80		
8	127.90	371.20	521.60	165.60	116.80	506.20	210.80	253.00	132.50	118.90	125.60	116.80		
9	121.00	327.60	581.00	173.20	186.20	460.00	191.40	332.30	108.40	116.80	116.80	123.30		
10	125.60	308.80	554.60	168.00	170.60	354.10	175.80	322.90	110.50	125.60	106.30	106.30		
11	118.90	371.20	545.80	153.60	165.60	299.40	178.40	308.80	116.80	123.30	112.60	114.70		
12	127.90	308.80	513.90	146.40	114.70	308.80	178.40	348.40	108.40	125.60	123.30	108.40		
13	125.60	304.10	483.10	127.90	125.60	275.20	181.00	278.90	108.40	127.90	123.30	114.70		
14	108.40	318.20	467.70	137.10	127.90	246.80	178.40	240.60	110.50	123.30	123.30	106.30		
15	110.50	290.00	427.00	146.40	125.60	225.10	165.60	213.60	106.30	106.30	121.00	104.20		
16	127.90	271.50	453.40	199.60	125.60	196.80	148.80	163.20	110.50	163.20	121.00	114.70		
17	123.30	260.40	407.20	228.20	118.90	181.00	146.40	148.80	106.30	168.00	114.70	114.70		
18	130.20	290.00	440.20	194.00	114.70	168.00	146.40	141.70	100.00	148.80	112.60	104.20		
19	137.10	327.60	382.60	170.60	102.10	160.80	137.10	183.60	104.20	114.70	116.80	100.00		
20	125.60	282.60	365.50	144.00	104.20	153.60	125.60	102.10	106.30	123.30	123.30	100.00		
21	134.80	286.30	427.00	108.40	116.80	144.00	130.20	104.20	110.50	130.20	108.40	102.10		
22	137.10	264.10	365.50	102.10	121.00	137.10	121.00	100.00	130.20	125.60	123.30	96.40		
23	125.60	260.40	348.40	94.60	100.00	146.40	137.10	96.40	123.30	118.90	121.00	100.00		
24	123.30	249.90	313.50	104.20	96.40	137.10	158.40	96.40	123.30	116.80	118.90	112.60		
25	108.40	260.40	359.80	106.30	100.00	148.80	148.80	92.80	125.60	118.90	123.30	116.80		
26	98.20	264.10	327.60	102.10	137.10	249.90	194.00	89.20	121.00	106.30	121.00	114.70		
27	96.40	354.10	318.20	112.60	202.40	294.70	294.70	94.60	118.90	108.40	127.90	112.60		
28	92.80	513.90	286.30	202.40	194.00	228.20	253.00	96.40	118.90	118.90	118.90	106.30		
29	108.40	589.80	271.50	286.30	208.00	210.80	196.80	98.20	121.00	114.70		112.60		
30	104.20	521.60	260.40	234.40	219.20	205.20	191.40	96.40	116.80	118.90		114.70		
31		545.80		194.00	243.70		188.80		118.90	108.40		116.80		
Total	3471.90	9393.70	12981.70	5519.40	4410.80	8022.60	6037.40	5261.10	3459.90	3791.60	3376.50	3467.00	69193.60	CMSDAY
Mean	115.73	303.02	432.72	178.05	142.28	267.42	194.75	175.37	111.61	122.31	120.59	111.84	189.57	CMS
Max	137.10	589.80	581.00	294.70	243.70	598.60	327.60	348.40	132.50	168.00	151.20	127.90	598.60	CMS
Min	92.80	127.90	260.40	94.60	96.40	137.10	121.00	89.20	91.00	106.30	106.30	96.40	89.20	CMS
Runoff	299.97	811.62	1121.62	476.88	381.09	693.15	521.63	454.56	298.94	327.59	291.73	299.55	5978.33	MCM

Momentary Peak 663.80 CMS. at 53.84 m. (MSL.) at 15.00 Hours , on May 29 , 2014

Runoff Yield 4.26 Liters/Second/Square KM. Momentary Peak Yield 14.930 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

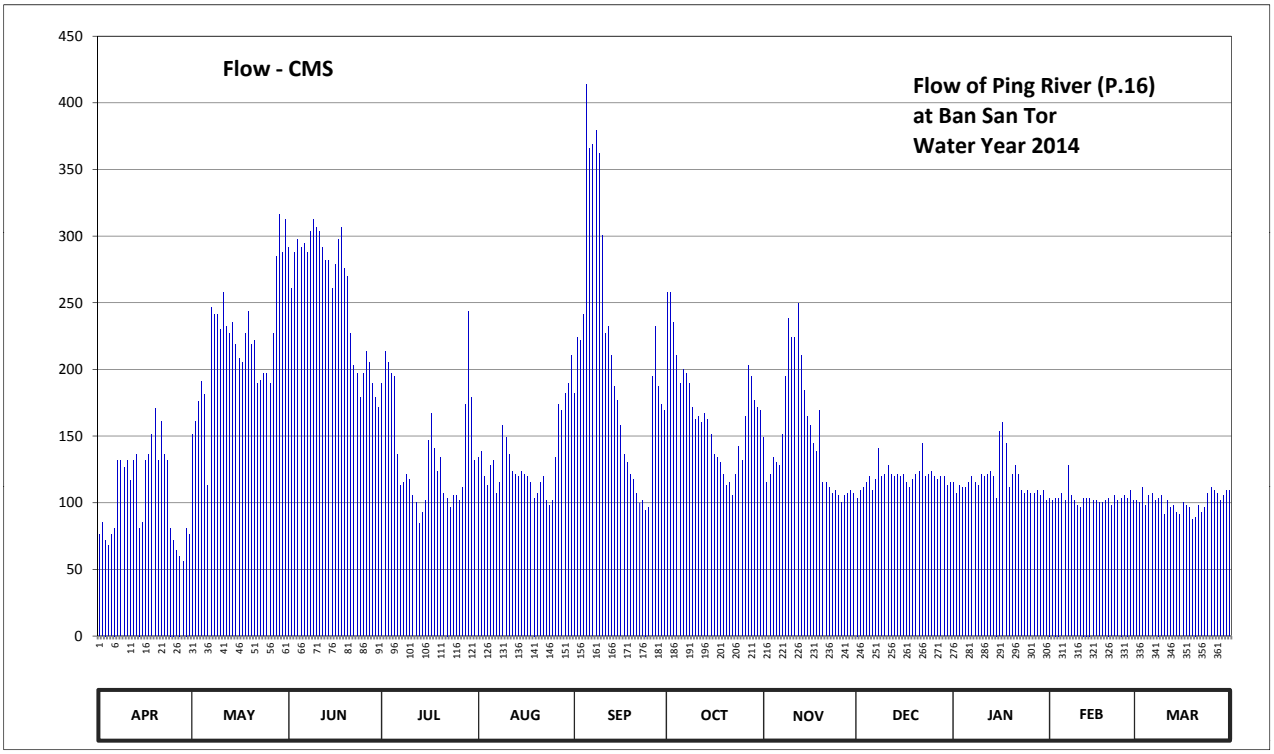
Location : on right bank behind the Post Office.

	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 Flot	-				
Rated by Current Meter	1960 , 1964 - 1975 , 1979 , 1990 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.21	40.37	41.72	41.36	41.12	41.33	41.61	41.19	40.97	41.03	40.97	40.96	
2	40.23	40.39	41.62	41.45	41.14	41.49	41.61	41.03	41.00	40.99	40.96	40.95	
3	40.20	40.42	41.71	41.42	41.05	41.48	41.53	41.06	41.01	41.02	40.97	41.01	
4	40.19	40.45	41.74	41.39	41.02	41.55	41.44	41.12	41.03	41.01	40.97	40.94	
5	40.21	40.43	41.72	41.38	41.09	42.08	41.36	41.10	41.05	41.01	40.99	40.98	
6	40.22	41.02	41.73	41.13	41.11	41.95	41.40	41.09	41.00	41.03	40.96	40.99	
7	40.33	41.57	41.71	41.02	40.99	41.96	41.39	41.20	41.04	41.05	41.09	40.96	
8	40.33	41.55	41.76	41.03	41.03	41.99	41.36	41.38	41.15	41.03	40.98	40.97	
9	40.32	41.55	41.79	41.06	41.23	41.94	41.29	41.54	41.05	41.02	40.96	40.98	
10	40.33	41.51	41.77	41.04	41.19	41.75	41.25	41.49	41.06	41.06	40.94	40.90	
11	40.30	41.61	41.76	40.98	41.13	41.50	41.26	41.49	41.09	41.05	40.93	40.96	
12	40.33	41.52	41.72	40.95	41.07	41.52	41.24	41.58	41.06	41.06	40.97	40.93	
13	40.34	41.50	41.69	40.86	41.06	41.44	41.27	41.44	41.05	41.07	40.97	40.94	
14	40.22	41.53	41.69	40.91	41.05	41.35	41.25	41.34	41.06	41.05	40.97	40.91	
15	40.23	41.47	41.62	40.96	41.07	41.31	41.20	41.26	41.05	40.97	40.96	40.90	
16	40.33	41.43	41.68	41.18	41.06	41.23	41.13	41.23	41.06	41.21	40.96	40.95	
17	40.34	41.42	41.74	41.27	41.05	41.13	41.12	41.17	41.03	41.24	40.95	40.94	
18	40.37	41.50	41.77	41.15	41.03	41.10	41.10	41.14	41.01	41.17	40.95	40.93	
19	40.41	41.56	41.67	41.07	40.97	41.06	41.06	41.28	41.04	41.01	40.96	40.88	
20	40.33	41.47	41.65	41.12	40.99	41.04	41.02	41.03	41.06	41.06	40.97	40.89	
21	40.39	41.48	41.50	40.99	41.03	40.99	41.03	41.03	41.07	41.09	40.94	40.94	
22	40.34	41.36	41.41	40.97	41.05	40.95	40.98	41.01	41.17	41.06	40.98	40.91	
23	40.33	41.37	41.39	40.93	40.96	40.96	41.06	40.99	41.05	41.00	40.96	40.93	
24	40.22	41.39	41.32	40.98	40.94	40.92	41.16	41.00	41.06	40.99	40.97	40.99	
25	40.20	41.39	41.39	40.98	40.96	40.93	41.11	40.98	41.07	41.00	40.98	41.01	
26	40.18	41.36	41.45	40.96	41.12	41.38	41.26	40.95	41.05	40.99	40.97	41.00	
27	40.17	41.50	41.42	41.01	41.30	41.52	41.41	40.98	41.04	40.99	41.00	40.99	
28	40.16	41.70	41.36	41.30	41.28	41.35	41.38	40.99	41.05	41.00	40.96	40.96	
29	40.22	41.80	41.32	41.56	41.33	41.30	41.31	41.00	41.05	40.98		40.98	
30	40.21	41.71	41.29	41.32	41.36	41.28	41.29	40.99	41.02	41.00		41.00	
31		41.79		41.11	41.44		41.28		41.03	40.96		41.00	
Mean	40.27	41.33	41.60	41.12	41.10	41.39	41.26	41.17	41.05	41.04	40.97	40.95	
Max	40.41	41.80	41.79	41.56	41.44	42.08	41.61	41.58	41.17	41.24	41.09	41.01	42.08
Min	40.16	40.37	41.29	40.86	40.94	40.92	40.98	40.95	40.97	40.96	40.93	40.88	40.16

Annual Max Momentary Gage Height	42.14	m. (MSL.) ,	at 18.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	41.78	m. (MSL.) ,	River Bed	37.24	m. (MSL.)
Left Bank Elevation	45.06	m. (MSL.) ,			
Right Bank Elevation	44.94	m. (MSL.) ,	Drainage Area	45076	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	76.50	151.30	291.20	189.60	134.20	181.80	258.00	148.90	103.60	115.30	103.60	101.80		
2	85.50	161.10	261.00	213.50	138.40	224.30	258.00	115.30	109.00	107.20	101.80	100.00		
3	72.00	176.00	288.10	205.40	119.50	221.60	235.40	121.60	111.10	113.20	103.60	111.10		
4	68.00	191.00	297.40	197.40	113.20	241.00	210.80	134.20	115.30	111.10	103.60	98.20		
5	76.50	181.00	291.20	194.80	127.90	413.40	189.60	130.00	119.50	111.10	107.20	105.40		
6	81.00	113.20	294.30	136.30	132.10	365.50	200.00	127.90	109.00	115.30	101.80	107.20		
7	131.70	246.60	288.10	113.20	107.20	369.00	197.40	151.00	117.40	119.50	127.90	101.80		
8	131.70	241.00	303.60	115.30	115.30	379.50	189.60	194.80	140.50	115.30	105.40	103.60		
9	126.80	241.00	312.90	121.60	157.90	362.00	171.70	238.20	119.50	113.20	101.80	105.40		
10	131.70	229.80	306.70	117.40	148.90	300.50	162.50	224.30	121.60	121.60	98.20	91.00		
11	117.00	258.00	303.60	105.40	136.30	227.00	164.80	224.30	127.90	119.50	96.40	101.80		
12	131.70	232.60	291.20	100.00	123.70	232.60	160.20	249.40	121.60	121.60	103.60	96.40		
13	136.60	227.00	282.00	84.20	121.60	210.80	167.10	210.80	119.50	123.70	103.60	98.20		
14	81.00	235.40	282.00	92.80	119.50	187.00	162.50	184.40	121.60	119.50	103.60	92.80		
15	85.50	218.90	261.00	101.80	123.70	176.60	151.00	164.80	119.50	103.60	101.80	91.00		
16	131.70	208.10	279.00	146.80	121.60	157.90	136.30	157.90	121.60	153.30	101.80	100.00		
17	136.60	205.40	297.40	167.10	119.50	136.30	134.20	144.70	115.30	160.20	100.00	98.20		
18	151.30	227.00	306.70	140.50	115.30	130.00	130.00	138.40	111.10	144.70	100.00	96.40		
19	171.00	243.80	276.00	123.70	103.60	121.60	121.60	169.40	117.40	111.10	101.80	87.60		
20	131.70	218.90	270.00	134.20	107.20	117.40	113.20	115.30	121.60	121.60	103.60	89.30		
21	161.10	221.60	227.00	107.20	115.30	107.20	115.30	115.30	123.70	127.90	98.20	98.20		
22	136.60	189.60	202.70	103.60	119.50	100.00	105.40	111.10	144.70	121.60	105.40	92.80		
23	131.70	192.20	197.40	96.40	101.80	101.80	121.60	107.20	119.50	109.00	101.80	96.40		
24	81.00	197.40	179.20	105.40	98.20	94.60	142.60	109.00	121.60	107.20	103.60	107.20		
25	72.00	197.40	197.40	105.40	101.80	96.40	132.10	105.40	123.70	109.00	105.40	111.10		
26	64.00	189.60	213.50	101.80	134.20	194.80	164.80	100.00	119.50	107.20	103.60	109.00		
27	60.00	227.00	205.40	111.10	174.00	232.60	202.70	105.40	117.40	107.20	109.00	107.20		
28	56.00	285.00	189.60	174.00	169.40	187.00	194.80	107.20	119.50	109.00	101.80	101.80		
29	81.00	316.00	179.20	243.80	181.80	174.00	176.60	109.00	119.50	105.40		105.40		
30	76.50	288.10	171.70	179.20	189.60	169.40	171.70	107.20	113.20	109.00		109.00		
31		312.90		132.10	210.80		169.40		115.30	101.80		109.00		
Total	3175.40	6823.90	7746.50	4261.00	4083.00	6213.60	5210.90	4422.40	3701.20	3635.90	2899.90	3124.30	55298.00	CMSDAY
Mean	105.85	220.13	258.22	137.45	131.71	207.12	168.09	147.41	119.39	117.29	103.57	100.78	151.50	CMS
Max	171.00	316.00	312.90	243.80	210.80	413.40	258.00	249.40	144.70	160.20	127.90	111.10	413.40	CMS
Min	56.00	113.20	171.70	84.20	98.20	94.60	105.40	100.00	103.60	101.80	96.40	87.60	56.00	CMS
Runoff	274.36	589.59	669.30	368.15	352.77	536.86	450.22	382.10	319.78	314.14	250.55	269.94	4777.75	MCM

Momentary Peak 437.20 CMS. at 42.14 m. (MSL.) at 18.00 Hours , on Sep 5 , 2014

Runoff Yield 3.36 Liters/Second/Square KM. Momentary Peak Yield 9.699 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

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

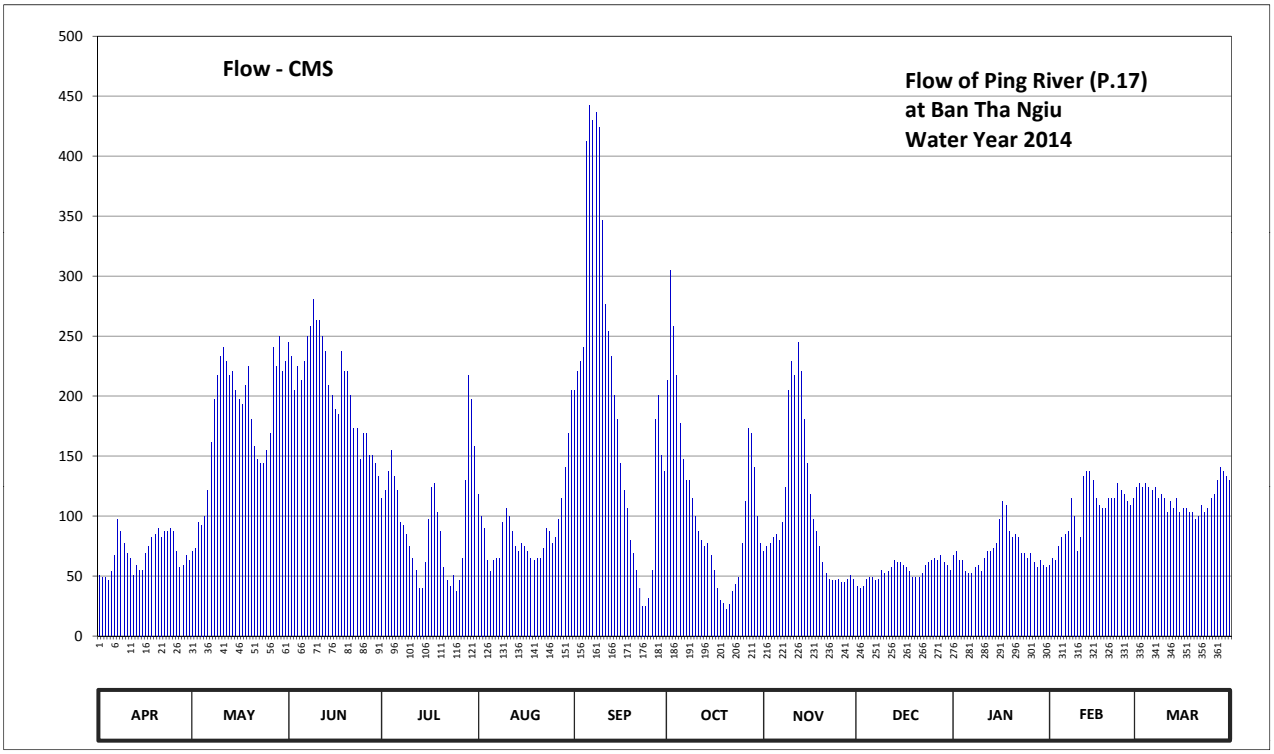
Location : on right bank at Som Sieo Market

	Ban Tha Ngiu	**Amphoe** Banphot Phisai	**Changwat** Nakhon Sawan		
Drainge Area	45,297 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank about 5.00 meters from the top staff gage		**Elevation** +37.900 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	1960, 1967 - 1974, 1990 to date				
Rated by Flot	-				
Rated by Current Meter	1954 - 1979, 1990 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Flow effected by Phumiphol Dam.				
	Stage-discharge relation defined by 34 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.57	34.68	35.20	34.85	34.86	35.10	35.12	34.68	34.51	34.66	34.62	34.88	
2	34.56	34.69	35.17	34.87	34.80	35.14	35.33	34.70	34.50	34.68	34.65	34.89	
3	34.56	34.78	35.10	34.92	34.76	35.16	35.23	34.71	34.51	34.64	34.64	34.88	
4	34.54	34.77	35.15	34.97	34.64	35.19	35.13	34.73	34.55	34.64	34.70	34.89	
5	34.59	34.80	35.12	34.91	34.59	35.52	35.03	34.74	34.56	34.59	34.73	34.88	
6	34.66	34.87	35.16	34.87	34.64	35.57	34.95	34.72	34.56	34.58	34.74	34.87	
7	34.79	34.99	35.21	34.78	34.65	35.55	34.90	34.78	34.54	34.58	34.75	34.88	
8	34.75	35.08	35.23	34.77	34.65	35.56	34.90	34.88	34.55	34.61	34.85	34.85	
9	34.71	35.13	35.28	34.74	34.78	35.54	34.85	35.10	34.60	34.62	34.80	34.86	
10	34.67	35.17	35.24	34.70	34.82	35.41	34.80	35.16	34.58	34.59	34.68	34.85	
11	34.65	35.19	35.24	34.65	34.80	35.27	34.75	35.13	34.59	34.65	34.73	34.81	
12	34.57	35.16	35.21	34.60	34.75	35.22	34.72	35.20	34.61	34.68	34.91	34.84	
13	34.62	35.13	35.18	34.50	34.70	35.17	34.70	35.14	34.64	34.68	34.92	34.82	
14	34.60	35.14	35.11	34.50	34.68	35.09	34.71	35.04	34.63	34.69	34.92	34.85	
15	34.60	35.10	35.09	34.63	34.71	35.04	34.66	34.94	34.63	34.71	34.90	34.81	
16	34.67	35.08	35.06	34.79	34.70	34.94	34.60	34.86	34.62	34.79	34.85	34.82	
17	34.70	35.07	35.05	34.88	34.68	34.87	34.50	34.79	34.61	34.84	34.83	34.82	
18	34.73	35.11	35.18	34.89	34.65	34.82	34.40	34.75	34.59	34.83	34.82	34.81	
19	34.74	35.15	35.14	34.81	34.64	34.72	34.37	34.70	34.56	34.75	34.82	34.81	
20	34.76	35.04	35.14	34.75	34.65	34.67	34.32	34.63	34.56	34.73	34.85	34.79	
21	34.73	34.98	35.09	34.61	34.65	34.60	34.36	34.58	34.56	34.74	34.85	34.80	
22	34.75	34.95	35.02	34.54	34.69	34.50	34.47	34.55	34.58	34.73	34.85	34.83	
23	34.75	34.94	35.02	34.51	34.76	34.35	34.52	34.54	34.62	34.67	34.89	34.81	
24	34.76	34.94	34.95	34.57	34.75	34.35	34.56	34.54	34.63	34.67	34.87	34.82	
25	34.75	34.97	35.01	34.47	34.71	34.41	34.71	34.55	34.64	34.65	34.86	34.85	
26	34.68	35.01	35.01	34.54	34.73	34.60	34.84	34.53	34.65	34.67	34.84	34.86	
27	34.61	35.19	34.96	34.65	34.79	35.04	35.02	34.53	34.64	34.63	34.83	34.90	
28	34.62	35.15	34.96	34.90	34.85	35.09	35.01	34.55	34.66	34.61	34.85	34.93	
29	34.66	35.21	34.94	35.13	34.93	34.96	34.93	34.57	34.63	34.64		34.92	
30	34.64	35.14	34.91	35.08	35.01	34.92	34.80	34.55	34.62	34.62		34.91	
31		35.16		34.98	35.10		34.71		34.60	34.61		34.90	
Mean	34.67	35.02	35.10	34.75	34.75	35.01	34.77	34.76	34.59	34.67	34.81	34.85	
Max	34.79	35.21	35.28	35.13	35.10	35.57	35.33	35.20	34.66	34.84	34.92	34.93	35.57
Min	34.54	34.68	34.91	34.47	34.59	34.35	34.32	34.53	34.50	34.58	34.62	34.79	34.32

Annual Max Momentary Gage Height	35.60	m. (MSL.) ,	at 15.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	30.51	m. (MSL.)
Left Bank Elevation	39.83	m. (MSL.) ,			
Right Bank Elevation	39.80	m. (MSL.) ,	Drainage Area	45297	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	50.50	71.00	245.00	115.00	118.00	205.00	213.00	71.00	41.50	67.00	59.00	124.00		
2	49.00	73.00	233.00	121.00	100.00	221.00	305.00	75.00	40.00	71.00	65.00	127.00		
3	49.00	95.00	205.00	137.00	90.00	229.00	258.50	77.50	41.50	63.00	63.00	124.00		
4	46.00	92.50	225.00	154.50	63.00	241.00	217.00	82.50	47.50	63.00	75.00	127.00		
5	53.50	100.00	213.00	133.50	53.50	412.00	177.00	85.00	49.00	53.50	82.50	124.00		
6	67.00	121.00	229.00	121.00	63.00	442.00	147.50	80.00	49.00	52.00	85.00	121.00		
7	97.50	161.50	249.50	95.00	65.00	430.00	130.00	95.00	46.00	52.00	87.50	124.00		
8	87.50	197.00	258.50	92.50	65.00	436.00	130.00	124.00	47.50	57.00	115.00	115.00		
9	77.50	217.00	281.00	85.00	95.00	424.00	115.00	205.00	55.00	59.00	100.00	118.00		
10	69.00	233.00	263.00	75.00	106.00	346.00	100.00	229.00	52.00	53.50	71.00	115.00		
11	65.00	241.00	263.00	65.00	100.00	276.50	87.50	217.00	53.50	65.00	82.50	103.00		
12	50.50	229.00	249.50	55.00	87.50	254.00	80.00	245.00	57.00	71.00	133.50	112.00		
13	59.00	217.00	237.00	40.00	75.00	233.00	75.00	221.00	63.00	71.00	137.00	106.00		
14	55.00	221.00	209.00	40.00	71.00	201.00	77.50	181.00	61.00	73.00	137.00	115.00		
15	55.00	205.00	201.00	61.00	77.50	181.00	67.00	144.00	61.00	77.50	130.00	103.00		
16	69.00	197.00	189.00	97.50	75.00	144.00	55.00	118.00	59.00	97.50	115.00	106.00		
17	75.00	193.00	185.00	124.00	71.00	121.00	40.00	97.50	57.00	112.00	109.00	106.00		
18	82.50	209.00	237.00	127.00	65.00	106.00	30.00	87.50	53.50	109.00	106.00	103.00		
19	85.00	225.00	221.00	103.00	63.00	80.00	27.00	75.00	49.00	87.50	106.00	103.00		
20	90.00	181.00	221.00	87.50	65.00	69.00	22.00	61.00	49.00	82.50	115.00	97.50		
21	82.50	158.00	201.00	57.00	65.00	55.00	26.00	52.00	49.00	85.00	115.00	100.00		
22	87.50	147.50	173.00	46.00	73.00	40.00	37.00	47.50	52.00	82.50	115.00	109.00		
23	87.50	144.00	173.00	41.50	90.00	25.00	43.00	46.00	59.00	69.00	127.00	103.00		
24	90.00	144.00	147.50	50.50	87.50	25.00	49.00	46.00	61.00	69.00	121.00	106.00		
25	87.50	154.50	169.00	37.00	77.50	31.00	77.50	47.50	63.00	65.00	118.00	115.00		
26	71.00	169.00	169.00	46.00	82.50	55.00	112.00	44.50	65.00	69.00	112.00	118.00		
27	57.00	241.00	151.00	65.00	97.50	181.00	173.00	44.50	63.00	61.00	109.00	130.00		
28	59.00	225.00	151.00	130.00	115.00	201.00	169.00	47.50	67.00	57.00	115.00	140.50		
29	67.00	249.50	144.00	217.00	140.50	151.00	140.50	50.50	61.00	63.00		137.00		
30	63.00	221.00	133.50	197.00	169.00	137.00	100.00	47.50	59.00	59.00		133.50		
31		229.00		158.00	205.00		77.50		55.00	57.00		130.00		
Total	2084.50	5561.50	6226.50	2974.50	2771.00	5952.50	3358.50	3044.50	1686.00	2173.50	2906.00	3595.50	42334.50	CMSDAY
Mean	69.48	179.40	207.55	95.95	89.39	198.42	108.34	101.48	54.39	70.11	103.79	115.98	115.98	CMS
Max	97.50	249.50	281.00	217.00	205.00	442.00	305.00	245.00	67.00	112.00	137.00	140.50	442.00	CMS
Min	46.00	71.00	133.50	37.00	53.50	25.00	22.00	44.50	40.00	52.00	59.00	97.50	22.00	CMS
Runoff	180.10	480.51	537.97	257.00	239.41	514.30	290.17	263.05	145.67	187.79	251.08	310.65	3657.70	MCM

Momentary Peak 460.00 CMS. at 35.60 m. (MSL.) at 15.00 Hours , on Sep 5, 2014

Runoff Yield 2.56 Liters/Second/Square KM. Momentary Peak Yield 10.155 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-
Rated by Current Meter	1979 - 1982 , 1989 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

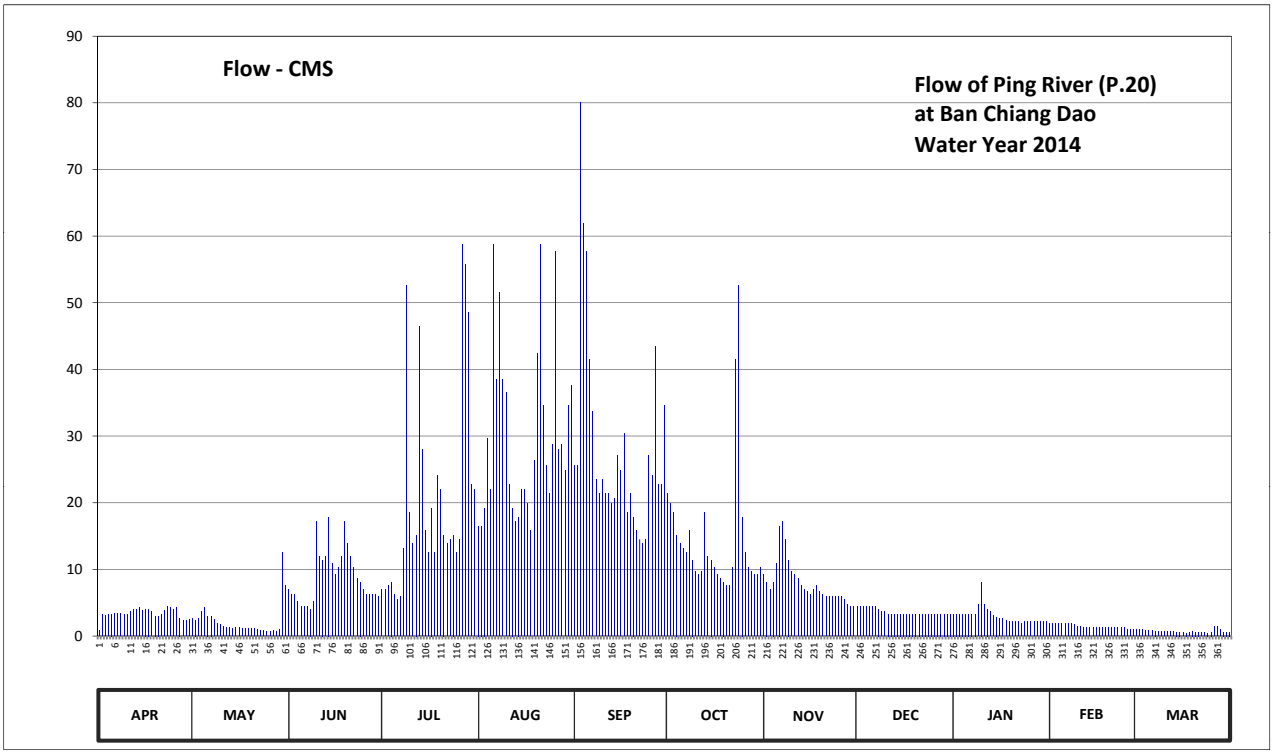
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.02	380.22	380.10	380.10	380.26	380.39	380.33	380.14	380.03	380.00	379.94	379.89	
2	380.28	380.20	380.08	380.10	380.26	380.39	380.31	380.12	380.03	380.00	379.94	379.89	
3	380.27	380.22	380.08	380.11	380.30	380.92	380.29	380.10	380.03	380.00	379.94	379.89	
4	380.28	380.32	380.05	380.12	380.44	380.77	380.24	380.12	380.03	380.00	379.94	379.88	
5	380.29	380.38	380.03	380.08	380.34	380.73	380.22	380.17	380.03	380.00	379.94	379.88	
6	380.30	380.26	380.03	380.06	380.74	380.57	380.21	380.26	380.03	380.00	379.94	379.88	
7	380.30	380.26	380.03	380.07	380.54	380.49	380.20	380.27	380.03	380.00	379.94	379.87	
8	380.30	380.21	380.02	380.21	380.67	380.36	380.25	380.23	380.02	380.00	379.94	379.86	
9	380.28	380.14	380.05	380.68	380.54	380.33	380.18	380.18	380.01	380.04	379.93	379.86	
10	380.28	380.13	380.27	380.29	380.52	380.36	380.15	380.15	380.01	380.12	379.92	379.86	
11	380.32	380.09	380.19	380.22	380.35	380.33	380.14	380.14	380.00	380.04	379.92	379.86	
12	380.35	380.07	380.18	380.24	380.30	380.33	380.15	380.13	380.00	380.02	379.91	379.86	
13	380.35	380.07	380.19	380.62	380.27	380.31	380.29	380.11	380.00	380.01	379.91	379.86	
14	380.38	380.06	380.28	380.42	380.28	380.32	380.19	380.10	380.00	379.99	379.91	379.85	
15	380.34	380.07	380.17	380.25	380.34	380.41	380.18	380.09	380.00	379.98	379.91	379.85	
16	380.36	380.07	380.14	380.20	380.34	380.38	380.16	380.08	380.00	379.97	379.91	379.84	
17	380.36	380.05	380.16	380.30	380.31	380.45	380.14	380.10	380.00	379.97	379.91	379.83	
18	380.33	380.06	380.19	380.20	380.25	380.29	380.13	380.11	380.00	379.96	379.91	379.84	
19	380.26	380.06	380.27	380.37	380.40	380.33	380.12	380.09	380.00	379.95	379.91	379.87	
20	380.26	380.05	380.22	380.34	380.58	380.28	380.11	380.08	380.00	379.95	379.91	379.85	
21	380.28	380.05	380.19	380.24	380.74	380.25	380.11	380.07	380.00	379.95	379.91	379.85	
22	380.34	380.04	380.16	380.22	380.50	380.23	380.16	380.07	380.00	379.95	379.91	379.84	
23	380.39	380.02	380.13	380.23	380.39	380.22	380.57	380.07	380.00	379.94	379.91	379.84	
24	380.38	380.01	380.12	380.24	380.33	380.23	380.68	380.07	380.00	379.95	379.91	379.83	
25	380.35	380.00	380.10	380.20	380.43	380.41	380.28	380.07	380.00	379.95	379.91	379.85	
26	380.38	380.00	380.08	380.23	380.73	380.37	380.20	380.07	380.00	379.95	379.90	379.92	
27	380.23	380.01	380.08	380.74	380.42	380.59	380.16	380.06	380.00	379.95	379.89	379.92	
28	380.19	380.00	380.08	380.71	380.43	380.35	380.15	380.04	380.00	379.95	379.89	379.90	
29	380.19	380.03	380.08	380.64	380.38	380.35	380.14	380.03	380.00	379.95		379.85	
30	380.21	380.20	380.07	380.35	380.50	380.50	380.14	380.03	380.00	379.95		379.85	
31		380.11		380.34	380.53		380.16		380.00	379.95		379.85	
Mean	380.30	380.11	380.13	380.29	380.43	380.41	380.22	380.11	380.01	379.98	379.92	379.86	
Max	380.39	380.38	380.28	380.74	380.74	380.92	380.68	380.27	380.03	380.12	379.94	379.92	380.92
Min	380.02	380.00	380.02	380.06	380.25	380.22	380.11	380.03	380.00	379.94	379.89	379.83	379.83

Annual Max Momentary Gage Height 381.16 m. (MSL.) , at 24.00 Hours , on Oct 23 , 2014

Zero Gage at Bottom Elevation 379.90 m. (MSL.) , River Bed 378.39 m. (MSL.)

Left Bank Elevation 385.62 m. (MSL.) ,

Right Bank Elevation 386.72 m. (MSL.) , Drainage Area 1345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.86	2.60	7.00	7.00	16.52	25.59	21.33	9.20	4.41	3.30	1.92	0.92		
2	3.20	2.40	6.26	7.00	16.52	25.59	19.91	8.10	4.41	3.30	1.92	0.92		
3	3.10	2.60	6.26	7.55	19.20	80.00	18.53	7.00	4.41	3.30	1.92	0.92		
4	3.20	3.62	5.15	8.10	29.62	61.91	15.18	8.10	4.41	3.30	1.92	0.84		
5	3.30	4.28	4.41	6.26	22.04	57.79	13.84	10.85	4.41	3.30	1.92	0.84		
6	3.40	3.00	4.41	5.52	58.82	41.46	13.17	16.52	4.41	3.30	1.92	0.84		
7	3.40	3.00	4.41	5.89	38.52	33.77	12.50	17.19	4.41	3.30	1.92	0.76		
8	3.40	2.50	4.04	13.17	51.61	23.46	15.85	14.51	4.04	3.30	1.92	0.68		
9	3.20	1.86	5.15	52.64	38.52	21.33	11.40	11.40	3.67	4.78	1.69	0.68		
10	3.20	1.77	17.19	18.53	36.56	23.46	9.75	9.75	3.67	8.10	1.46	0.68		
11	3.62	1.42	11.95	13.84	22.75	21.33	9.20	9.20	3.30	4.78	1.46	0.68		
12	3.95	1.26	11.40	15.18	19.20	21.33	9.75	8.65	3.30	4.04	1.23	0.68		
13	3.95	1.26	11.95	46.46	17.19	19.91	18.53	7.55	3.30	3.67	1.23	0.68		
14	4.28	1.18	17.86	27.96	17.86	20.62	11.95	7.00	3.30	3.07	1.23	0.60		
15	3.84	1.26	10.85	15.85	22.04	27.13	11.40	6.63	3.30	2.84	1.23	0.60		
16	4.06	1.26	9.20	12.50	22.04	24.88	10.30	6.26	3.30	2.61	1.23	0.52		
17	4.06	1.10	10.30	19.20	19.91	30.45	9.20	7.00	3.30	2.61	1.23	0.44		
18	3.73	1.18	11.95	12.50	15.85	18.53	8.65	7.55	3.30	2.38	1.23	0.52		
19	3.00	1.18	17.19	24.17	26.30	21.33	8.10	6.63	3.30	2.15	1.23	0.76		
20	3.00	1.10	13.84	22.04	42.44	17.86	7.55	6.26	3.30	2.15	1.23	0.60		
21	3.20	1.10	11.95	15.18	58.82	15.85	7.55	5.89	3.30	2.15	1.23	0.60		
22	3.84	1.02	10.30	13.84	34.60	14.51	10.30	5.89	3.30	2.15	1.23	0.52		
23	4.39	0.86	8.65	14.51	25.59	13.84	41.46	5.89	3.30	1.92	1.23	0.52		
24	4.28	0.78	8.10	15.18	21.33	14.51	52.64	5.89	3.30	2.15	1.23	0.44		
25	3.95	0.70	7.00	12.50	28.79	27.13	17.86	5.89	3.30	2.15	1.23	0.60		
26	4.28	0.70	6.26	14.51	57.79	24.17	12.50	5.89	3.30	2.15	1.00	1.46		
27	2.70	0.78	6.26	58.82	27.96	43.42	10.30	5.52	3.30	2.15	0.92	1.46		
28	2.31	0.70	6.26	55.73	28.79	22.75	9.75	4.78	3.30	2.15	0.92	1.00		
29	2.31	0.94	6.26	48.52	24.88	22.75	9.20	4.41	3.30	2.15		0.60		
30	2.50	12.50	5.89	22.75	34.60	34.60	9.20	4.41	3.30	2.15		0.60		
31		7.55		22.04	37.54		10.30		3.30	2.15		0.60		
Total	101.51	67.46	267.70	634.94	934.20	851.26	447.15	239.81	111.55	93.00	40.03	22.56	3811.17	CMSDAY
Mean	3.38	2.18	8.92	20.48	30.14	28.38	14.42	7.99	3.60	3.00	1.43	0.73	10.44	CMS
Max	4.39	12.50	17.86	58.82	58.82	80.00	52.64	17.19	4.41	8.10	1.92	1.46	80.00	CMS
Min	0.86	0.70	4.04	5.52	15.85	13.84	7.55	4.41	3.30	1.92	0.92	0.44	0.44	CMS
Runoff	8.77	5.83	23.13	54.86	80.72	73.55	38.63	20.72	9.64	8.04	3.46	1.95	329.29	MCM

Momentary Peak 112.40 CMS. at 381.16 m. (MSL.) at 24.00 Hours , on Oct 23 , 2014

Runoff Yield 7.76 Liters/Second/Square KM. Momentary Peak Yield 83.569 Liters/Second/Square KM.

WATER YEAR : 2014

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

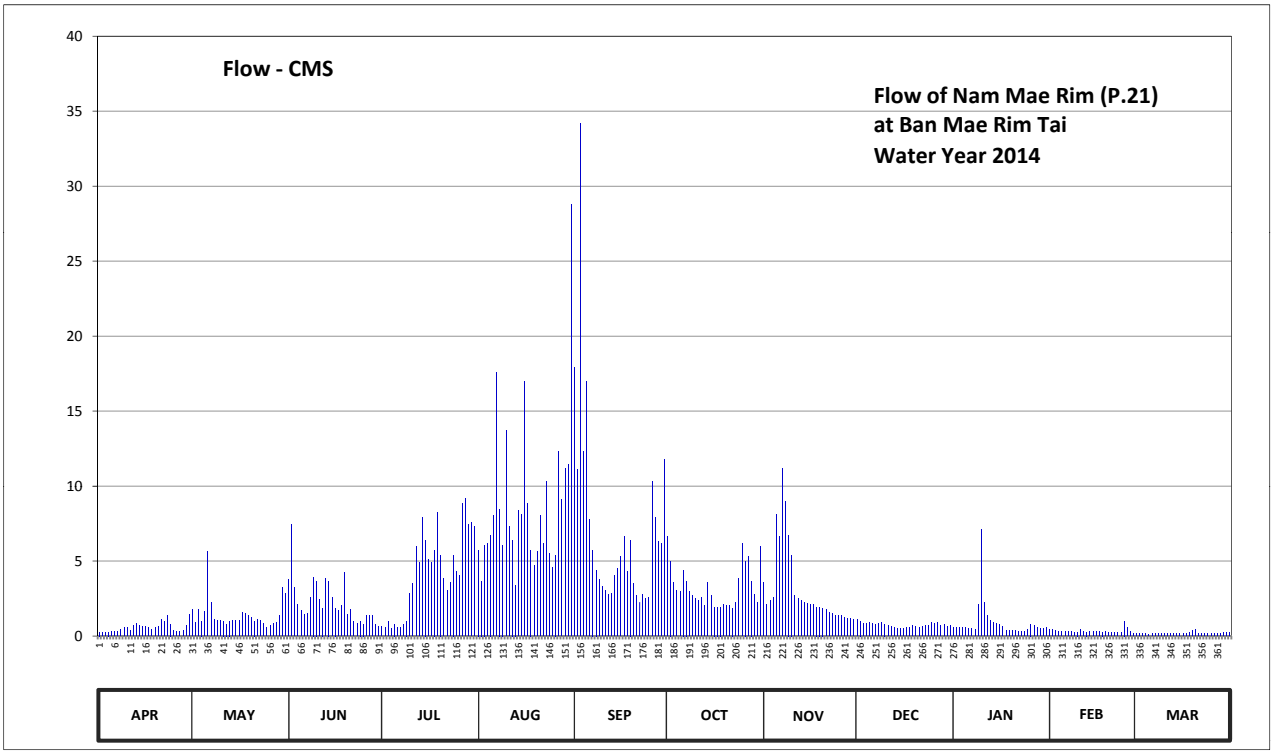
Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	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** +325.270 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 Flot	-		
Rated by Current Meter	1954 - 1960 , 1977 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.16	320.51	320.74	320.31	320.94	321.85	321.02	320.72	320.40	320.30	320.25	320.07	
2	320.13	320.36	321.09	320.30	320.73	321.39	320.87	320.55	320.38	320.30	320.25	320.07	
3	320.14	320.51	320.68	320.37	320.97	322.70	320.72	320.58	320.35	320.29	320.22	320.07	
4	320.16	320.38	320.55	320.27	320.98	321.48	320.66	320.61	320.35	320.28	320.17	320.05	
5	320.18	320.49	320.50	320.34	321.03	321.79	320.65	321.15	320.36	320.29	320.17	320.01	
6	320.20	320.93	320.46	320.28	321.14	321.12	320.81	321.02	320.35	320.26	320.18	320.07	
7	320.21	320.57	320.47	320.28	321.83	320.94	320.73	321.40	320.33	320.26	320.20	320.06	
8	320.24	320.40	320.61	320.33	321.18	320.81	320.65	321.22	320.35	320.25	320.17	320.06	
9	320.28	320.39	320.76	320.38	320.97	320.74	320.62	321.03	320.36	320.55	320.15	320.07	
10	320.28	320.39	320.73	320.64	321.58	320.69	320.60	320.91	320.34	321.06	320.16	320.06	
11	320.23	320.38	320.59	320.71	321.08	320.66	320.58	320.62	320.32	320.57	320.24	320.05	
12	320.32	320.34	320.52	320.96	321.00	320.63	320.61	320.60	320.31	320.44	320.17	320.06	
13	320.35	320.38	320.75	320.86	320.70	320.64	320.54	320.58	320.29	320.39	320.16	320.05	
14	320.32	320.39	320.73	321.13	321.17	320.77	320.72	320.57	320.27	320.36	320.18	320.07	
15	320.31	320.39	320.61	321.00	321.15	320.82	320.62	320.56	320.26	320.35	320.18	320.05	
16	320.31	320.39	320.52	320.88	321.79	320.90	320.53	320.55	320.27	320.33	320.17	320.06	
17	320.29	320.48	320.50	320.86	321.21	321.02	320.53	320.55	320.30	320.31	320.18	320.05	
18	320.25	320.47	320.54	320.94	320.94	320.80	320.53	320.53	320.30	320.23	320.16	320.14	
19	320.28	320.45	320.79	321.16	320.84	321.00	320.55	320.53	320.32	320.23	320.17	320.23	
20	320.31	320.42	320.46	320.91	320.93	320.71	320.54	320.52	320.31	320.23	320.15	320.25	
21	320.40	320.38	320.51	320.75	321.14	320.62	320.54	320.51	320.30	320.22	320.14	320.05	
22	320.37	320.40	320.37	320.66	320.98	320.57	320.52	320.48	320.31	320.21	320.13	320.06	
23	320.45	320.39	320.35	320.72	321.33	320.63	320.57	320.47	320.32	320.20	320.12	320.05	
24	320.34	320.35	320.38	320.91	320.92	320.60	320.75	320.45	320.32	320.20	320.13	320.06	
25	320.23	320.30	320.34	320.80	320.83	320.61	320.98	320.45	320.36	320.24	320.38	320.08	
26	320.18	320.32	320.44	320.77	320.91	321.33	320.87	320.44	320.35	320.34	320.30	320.08	
27	320.20	320.35	320.45	321.21	321.48	321.13	320.90	320.42	320.36	320.32	320.17	320.08	
28	320.22	320.36	320.44	321.24	321.23	320.99	320.73	320.41	320.32	320.28	320.08	320.07	
29	320.32	320.44	320.33	321.09	321.40	320.98	320.63	320.41	320.33	320.26		320.11	
30	320.46	320.68	320.31	321.10	321.42	321.44	320.57	320.40	320.31	320.27		320.13	
31		320.64		321.08	322.44		320.96		320.32	320.28		320.11	
Mean	320.27	320.44	320.55	320.75	321.17	321.01	320.68	320.64	320.33	320.33	320.18	320.08	
Max	320.46	320.93	321.09	321.24	322.44	322.70	321.02	321.40	320.40	321.06	320.38	320.25	322.70
Min	320.13	320.30	320.31	320.27	320.70	320.57	320.52	320.40	320.26	320.20	320.08	320.01	320.01

Annual Max Momentary Gage Height	323.04	m. (MSL.) ,	at 16.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	319.70	m. (MSL.) ,	River Bed	319.70	m. (MSL.)
Left Bank Elevation	325.17	m. (MSL.) ,			
Right Bank Elevation	325.21	m. (MSL.) ,	Drainage Area	452	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	1.78	3.76	0.65	5.74	17.95	6.63	3.58	1.10	0.60	0.45	0.17		
2	0.23	0.90	7.43	0.60	3.67	11.08	5.00	2.10	1.00	0.60	0.45	0.17		
3	0.24	1.78	3.22	0.95	6.07	34.15	3.58	2.34	0.85	0.57	0.36	0.17		
4	0.26	1.00	2.10	0.51	6.18	12.32	3.04	2.59	0.85	0.54	0.27	0.15		
5	0.28	1.64	1.70	0.80	6.74	16.95	2.95	8.12	0.90	0.57	0.27	0.11		
6	0.30	5.63	1.46	0.54	8.01	7.78	4.40	6.63	0.85	0.48	0.28	0.17		
7	0.33	2.26	1.52	0.54	17.61	5.74	3.67	11.20	0.75	0.48	0.30	0.16		
8	0.42	1.10	2.59	0.75	8.47	4.40	2.95	8.95	0.85	0.45	0.27	0.16		
9	0.54	1.05	3.94	1.00	6.07	3.76	2.68	6.74	0.90	2.10	0.25	0.17		
10	0.54	1.05	3.67	2.86	13.72	3.31	2.50	5.41	0.80	7.09	0.26	0.16		
11	0.39	1.00	2.42	3.49	7.32	3.04	2.34	2.68	0.70	2.26	0.42	0.15		
12	0.70	0.80	1.86	5.96	6.40	2.77	2.59	2.50	0.65	1.34	0.27	0.16		
13	0.85	1.00	3.85	4.90	3.40	2.86	2.02	2.34	0.57	1.05	0.26	0.15		
14	0.70	1.05	3.67	7.89	8.36	4.03	3.58	2.26	0.51	0.90	0.28	0.17		
15	0.65	1.05	2.59	6.40	8.12	4.50	2.68	2.18	0.48	0.85	0.28	0.15		
16	0.65	1.05	1.86	5.10	16.95	5.30	1.94	2.10	0.51	0.75	0.27	0.16		
17	0.57	1.58	1.70	4.90	8.82	6.63	1.94	2.10	0.60	0.65	0.28	0.15		
18	0.45	1.52	2.02	5.74	5.74	4.30	1.94	1.94	0.60	0.39	0.26	0.24		
19	0.54	1.40	4.21	8.24	4.70	6.40	2.10	1.94	0.70	0.39	0.27	0.39		
20	0.65	1.22	1.46	5.41	5.63	3.49	2.02	1.86	0.65	0.39	0.25	0.45		
21	1.10	1.00	1.78	3.85	8.01	2.68	2.02	1.78	0.60	0.36	0.24	0.15		
22	0.95	1.10	0.95	3.04	6.18	2.26	1.86	1.58	0.65	0.33	0.23	0.16		
23	1.40	1.05	0.85	3.58	10.32	2.77	2.26	1.52	0.70	0.30	0.22	0.15		
24	0.80	0.85	1.00	5.41	5.52	2.50	3.85	1.40	0.70	0.30	0.23	0.16		
25	0.39	0.60	0.80	4.30	4.60	2.59	6.18	1.40	0.90	0.42	1.00	0.18		
26	0.28	0.70	1.34	4.03	5.41	10.32	5.00	1.34	0.85	0.80	0.60	0.18		
27	0.30	0.85	1.40	8.82	12.32	7.89	5.30	1.22	0.90	0.70	0.27	0.18		
28	0.36	0.90	1.34	9.20	9.08	6.29	3.67	1.16	0.70	0.54	0.18	0.17		
29	0.70	1.34	0.75	7.43	11.20	6.18	2.77	1.16	0.75	0.48		0.21		
30	1.46	3.22	0.65	7.55	11.48	11.76	2.26	1.10	0.65	0.51		0.23		
31		2.86		7.32	28.80		5.96		0.70	0.54		0.21		
Total	17.29	44.33	67.89	131.76	270.64	216.00	101.68	93.22	22.92	27.73	8.97	5.74	1008.17	CMSDAY
Mean	0.58	1.43	2.26	4.25	8.73	7.20	3.28	3.11	0.74	0.89	0.32	0.19	2.76	CMS
Max	1.46	5.63	7.43	9.20	28.80	34.15	6.63	11.20	1.10	7.09	1.00	0.45	34.15	CMS
Min	0.23	0.60	0.65	0.51	3.40	2.26	1.86	1.10	0.48	0.30	0.18	0.11	0.11	CMS
Runoff	1.49	3.83	5.87	11.38	23.38	18.66	8.79	8.05	1.98	2.40	0.78	0.50	87.11	MCM

Momentary Peak 41.70 CMS. at 323.04 m. (MSL.) at 16.00 Hours , on Sep 3 , 2014

Runoff Yield 6.11 Liters/Second/Square KM. Momentary Peak Yield 92.257 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

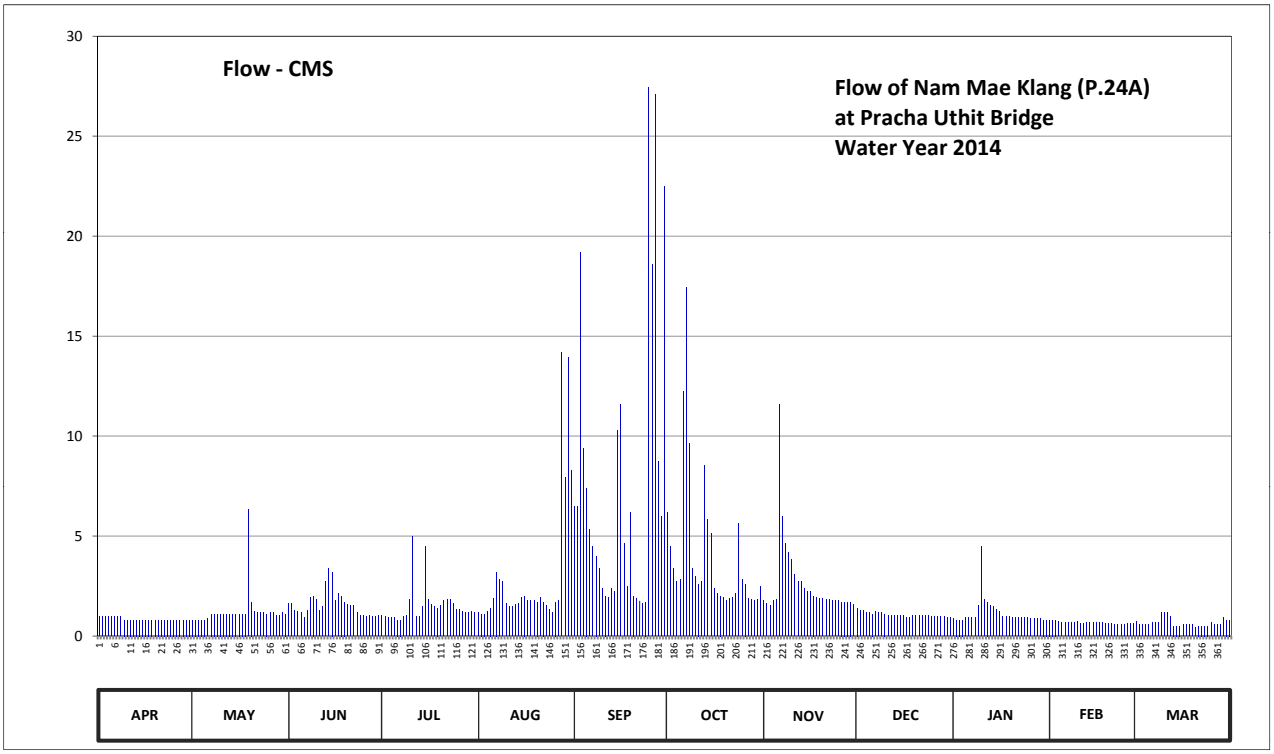
Location : on left bank at Pracha Uthit Bridge.

	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	3-time daily reading 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 Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.43	275.40	275.54	275.44	275.46	275.90	275.88	275.56	275.50	275.41	275.40	275.39	
2	275.43	275.40	275.54	275.43	275.45	275.90	275.78	275.54	275.48	275.40	275.40	275.36	
3	275.43	275.40	275.48	275.42	275.45	276.45	275.71	275.52	275.48	275.40	275.40	275.36	
4	275.43	275.40	275.47	275.42	275.47	276.05	275.66	275.56	275.46	275.40	275.39	275.36	
5	275.43	275.40	275.46	275.42	275.50	275.95	275.67	275.57	275.46	275.42	275.38	275.36	
6	275.43	275.41	275.42	275.40	275.58	275.83	276.18	276.15	275.45	275.42	275.38	275.38	
7	275.43	275.45	275.48	275.40	275.70	275.78	276.39	275.87	275.47	275.42	275.38	275.38	
8	275.43	275.45	275.59	275.43	275.67	275.75	276.06	275.79	275.46	275.42	275.38	275.38	
9	275.40	275.45	275.60	275.44	275.66	275.71	275.71	275.76	275.46	275.52	275.38	275.46	
10	275.40	275.45	275.57	275.57	275.54	275.63	275.68	275.74	275.45	275.78	275.39	275.46	
11	275.40	275.45	275.48	275.81	275.51	275.60	275.65	275.69	275.44	275.57	275.37	275.46	
12	275.40	275.45	275.51	275.43	275.51	275.59	275.66	275.66	275.44	275.55	275.37	275.43	
13	275.40	275.45	275.66	275.43	275.53	275.63	276.01	275.66	275.44	275.52	275.38	275.35	
14	275.40	275.45	275.71	275.51	275.54	275.62	275.86	275.63	275.44	275.51	275.38	275.35	
15	275.40	275.45	275.70	275.78	275.59	276.09	275.82	275.62	275.44	275.49	275.38	275.35	
16	275.40	275.45	275.56	275.57	275.60	276.15	275.63	275.62	275.44	275.47	275.38	275.36	
17	275.40	275.45	275.61	275.53	275.56	275.79	275.61	275.60	275.42	275.43	275.38	275.36	
18	275.40	275.45	275.60	275.51	275.56	275.64	275.60	275.59	275.42	275.43	275.38	275.36	
19	275.40	275.89	275.55	275.50	275.56	275.88	275.59	275.58	275.44	275.43	275.37	275.36	
20	275.40	275.55	275.53	275.52	275.55	275.60	275.56	275.58	275.44	275.42	275.37	275.34	
21	275.40	275.47	275.52	275.56	275.59	275.58	275.58	275.57	275.44	275.42	275.37	275.35	
22	275.40	275.46	275.52	275.57	275.55	275.56	275.59	275.57	275.44	275.42	275.36	275.35	
23	275.40	275.46	275.46	275.57	275.52	275.54	275.61	275.56	275.44	275.42	275.36	275.35	
24	275.40	275.46	275.44	275.54	275.49	275.55	275.85	275.56	275.44	275.42	275.36	275.35	
25	275.40	275.45	275.44	275.49	275.46	276.71	275.67	275.56	275.43	275.42	275.36	275.38	
26	275.40	275.46	275.43	275.49	275.55	276.43	275.65	275.55	275.43	275.41	275.37	275.36	
27	275.40	275.46	275.44	275.47	275.56	276.70	275.58	275.55	275.43	275.41	275.37	275.36	
28	275.40	275.44	275.43	275.46	276.26	276.02	275.57	275.55	275.43	275.41	275.37	275.36	
29	275.40	275.44	275.43	275.46	275.98	275.87	275.56	275.55	275.43	275.41		275.42	
30	275.40	275.46	275.44	275.47	276.25	276.56	275.57	275.53	275.42	275.40		275.40	
31		275.45		275.46	276.00		275.64		275.42	275.40		275.40	
Mean	275.41	275.46	275.52	275.50	275.62	275.90	275.73	275.63	275.44	275.45	275.38	275.38	
Max	275.43	275.89	275.71	275.81	276.26	276.71	276.39	276.15	275.50	275.78	275.40	275.46	276.71
Min	275.40	275.40	275.42	275.40	275.45	275.54	275.56	275.52	275.42	275.40	275.36	275.34	275.34

Annual Max Momentary Gage Height	277.49	m. (MSL.) ,	at 20.00 Hours , on Sep 25 , 2014		
Zero Gage at Bottom Elevation	275.00	m. (MSL.) ,	River Bed	274.93	m. (MSL.)
Left Bank Elevation	280.19	m. (MSL.) ,			
Right Bank Elevation	280.08	m. (MSL.) ,	Drainage Area	452	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.98	0.80	1.64	1.04	1.16	6.50	6.16	1.76	1.40	0.86	0.80	0.74		
2	0.98	0.80	1.64	0.98	1.10	6.50	4.48	1.64	1.28	0.80	0.80	0.56		
3	0.98	0.80	1.28	0.92	1.10	19.20	3.36	1.52	1.28	0.80	0.80	0.56		
4	0.98	0.80	1.22	0.92	1.22	9.40	2.72	1.76	1.16	0.80	0.74	0.56		
5	0.98	0.80	1.16	0.92	1.40	7.40	2.84	1.82	1.16	0.92	0.68	0.56		
6	0.98	0.86	0.92	0.80	1.88	5.31	12.26	11.60	1.10	0.92	0.68	0.68		
7	0.98	1.10	1.28	0.80	3.20	4.48	17.45	5.99	1.22	0.92	0.68	0.68		
8	0.98	1.10	1.94	0.98	2.84	4.00	9.62	4.64	1.16	0.92	0.68	0.68		
9	0.80	1.10	2.00	1.04	2.72	3.36	3.36	4.16	1.16	1.52	0.68	1.16		
10	0.80	1.10	1.82	1.82	1.64	2.36	2.96	3.84	1.10	4.48	0.74	1.16		
11	0.80	1.10	1.28	4.97	1.46	2.00	2.60	3.08	1.04	1.82	0.62	1.16		
12	0.80	1.10	1.46	0.98	1.46	1.94	2.72	2.72	1.04	1.70	0.62	0.98		
13	0.80	1.10	2.72	0.98	1.58	2.36	8.52	2.72	1.04	1.52	0.68	0.50		
14	0.80	1.10	3.36	1.46	1.64	2.24	5.82	2.36	1.04	1.46	0.68	0.50		
15	0.80	1.10	3.20	4.48	1.94	10.28	5.14	2.24	1.04	1.34	0.68	0.50		
16	0.80	1.10	1.76	1.82	2.00	11.60	2.36	2.24	1.04	1.22	0.68	0.56		
17	0.80	1.10	2.12	1.58	1.76	4.64	2.12	2.00	0.92	0.98	0.68	0.56		
18	0.80	1.10	2.00	1.46	1.76	2.48	2.00	1.94	0.92	0.98	0.68	0.56		
19	0.80	6.33	1.70	1.40	1.76	6.16	1.94	1.88	1.04	0.98	0.62	0.56		
20	0.80	1.70	1.58	1.52	1.70	2.00	1.76	1.88	1.04	0.92	0.62	0.44		
21	0.80	1.22	1.52	1.76	1.94	1.88	1.88	1.82	1.04	0.92	0.62	0.50		
22	0.80	1.16	1.52	1.82	1.70	1.76	1.94	1.82	1.04	0.92	0.56	0.50		
23	0.80	1.16	1.16	1.82	1.52	1.64	2.12	1.76	1.04	0.92	0.56	0.50		
24	0.80	1.16	1.04	1.64	1.34	1.70	5.65	1.76	1.04	0.92	0.56	0.50		
25	0.80	1.10	1.04	1.34	1.16	27.44	2.84	1.76	0.98	0.92	0.56	0.68		
26	0.80	1.16	0.98	1.34	1.70	18.60	2.60	1.70	0.98	0.86	0.62	0.56		
27	0.80	1.16	1.04	1.22	1.76	27.10	1.88	1.70	0.98	0.86	0.62	0.56		
28	0.80	1.04	0.98	1.16	14.20	8.74	1.82	1.70	0.98	0.86	0.62	0.56		
29	0.80	1.04	0.98	1.16	7.94	5.99	1.76	1.70	0.98	0.86		0.92		
30	0.80	1.16	1.04	1.22	13.95	22.50	1.82	1.58	0.92	0.80		0.80		
31		1.10		1.16	8.30		2.48		0.92	0.80		0.80		
Total	25.44	38.55	47.38	46.51	90.83	231.56	126.98	79.09	33.08	35.50	18.56	20.54	794.02	CMSDAY
Mean	0.85	1.24	1.58	1.50	2.93	7.72	4.10	2.64	1.07	1.15	0.66	0.66	2.18	CMS
Max	0.98	6.33	3.36	4.97	14.20	27.44	17.45	11.60	1.40	4.48	0.80	1.16	27.44	CMS
Min	0.80	0.80	0.92	0.80	1.10	1.64	1.76	1.52	0.92	0.80	0.56	0.44	0.44	CMS
Runoff	2.20	3.33	4.09	4.02	7.85	20.01	10.97	6.83	2.86	3.07	1.60	1.78	68.60	MCM

Momentary Peak 61.07 CMS. at 277.49 m. (MSL.) at 20.00 Hours , on Sep 25 , 2014

Runoff Yield 4.81 Liters/Second/Square KM. Momentary Peak Yield 135.111 Liters/Second/Square KM.

WATER YEAR : 2014

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.

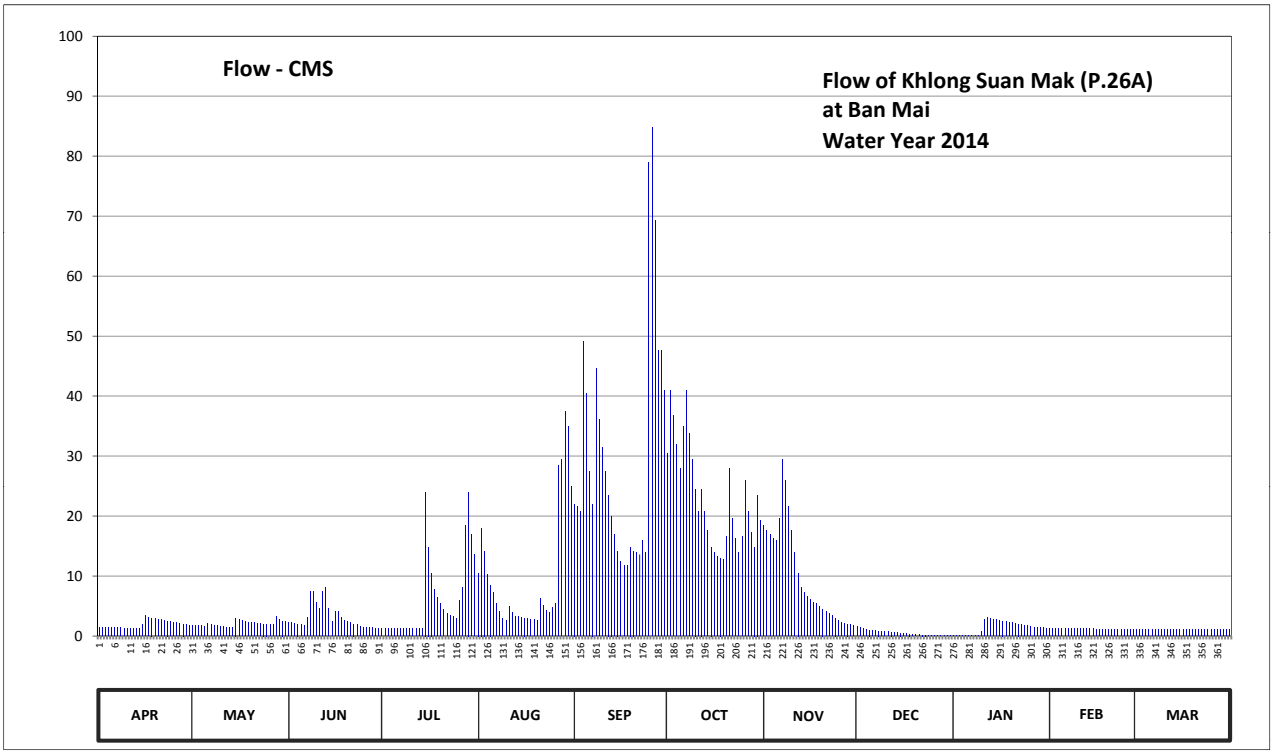
Ban Mai **Amphoe** Mueang **Changwat** Kamphaeng Phet

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 Flot	-
Rated by Current Meter	1972 - 1974 , 1980 to date
Stability of Channel Regimes	Fairly 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 20 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	83.38	83.43	83.48	83.35	84.05	84.40	84.57	84.31	83.41	82.87	83.36	83.33	
2	83.38	83.43	83.47	83.35	84.30	84.39	84.75	84.29	83.38	82.87	83.36	83.33	
3	83.38	83.42	83.46	83.35	84.19	84.37	84.68	84.27	83.35	82.87	83.36	83.33	
4	83.38	83.42	83.45	83.35	84.04	84.87	84.60	84.25	83.32	82.87	83.36	83.33	
5	83.37	83.41	83.44	83.35	83.95	84.74	84.52	84.24	83.30	82.87	83.36	83.33	
6	83.37	83.46	83.43	83.35	83.88	84.51	84.65	84.34	83.28	82.87	83.35	83.33	
7	83.37	83.44	83.56	83.34	83.75	84.40	84.75	84.55	83.26	82.87	83.35	83.33	
8	83.37	83.43	83.89	83.34	83.65	84.81	84.63	84.48	83.24	82.87	83.35	83.33	
9	83.36	83.42	83.90	83.34	83.54	84.67	84.55	84.39	83.22	82.87	83.35	83.33	
10	83.36	83.41	83.77	83.34	83.51	84.59	84.45	84.29	83.20	83.21	83.35	83.33	
11	83.36	83.41	83.69	83.34	83.71	84.51	84.37	84.18	83.18	83.52	83.34	83.32	
12	83.36	83.40	83.90	83.34	83.63	84.43	84.45	84.05	83.16	83.56	83.34	83.32	
13	83.35	83.40	83.93	83.34	83.58	84.35	84.37	83.93	83.14	83.54	83.34	83.32	
14	83.35	83.39	83.69	83.35	83.57	84.27	84.29	83.88	83.12	83.53	83.34	83.32	
15	83.44	83.55	83.49	84.44	83.56	84.19	84.21	83.84	83.10	83.52	83.34	83.32	
16	83.59	83.53	83.65	84.21	83.55	84.13	84.18	83.81	83.08	83.51	83.33	83.32	
17	83.56	83.51	83.65	84.05	83.54	84.11	84.16	83.77	83.06	83.50	83.33	83.32	
18	83.55	83.49	83.56	83.91	83.53	84.11	84.15	83.75	83.04	83.49	83.33	83.32	
19	83.54	83.48	83.51	83.83	83.52	84.21	84.14	83.71	83.02	83.48	83.33	83.32	
20	83.53	83.47	83.50	83.75	83.51	84.19	84.26	83.68	82.99	83.47	83.33	83.32	
21	83.52	83.47	83.47	83.67	83.82	84.18	84.52	83.65	82.97	83.46	83.33	83.32	
22	83.51	83.46	83.45	83.62	83.73	84.17	84.34	83.62	82.96	83.45	83.33	83.32	
23	83.50	83.46	83.44	83.59	83.66	84.24	84.25	83.59	82.95	83.44	83.33	83.32	
24	83.49	83.45	83.41	83.57	83.63	84.18	84.18	83.55	82.94	83.43	83.33	83.32	
25	83.48	83.45	83.40	83.54	83.70	85.22	84.26	83.51	82.93	83.42	83.33	83.32	
26	83.47	83.44	83.39	83.79	83.75	85.28	84.48	83.48	82.92	83.41	83.33	83.32	
27	83.46	83.44	83.38	83.93	84.53	85.12	84.37	83.46	82.91	83.40	83.33	83.33	
28	83.45	83.58	83.37	84.31	84.55	84.85	84.28	83.45	82.90	83.39	83.33	83.33	
29	83.44	83.53	83.36	84.44	84.69	84.85	84.21	83.44	82.89	83.38		83.33	
30	83.43	83.50	83.35	84.27	84.65	84.75	84.43	83.43	82.88	83.37		83.33	
31		83.49		84.17	84.46		84.33		82.87	83.36		83.33	
Mean	83.44	83.46	83.55	83.67	83.86	84.50	84.40	83.91	83.10	83.28	83.34	83.32	
Max	83.59	83.58	83.93	84.44	84.69	85.28	84.75	84.55	83.41	83.56	83.36	83.33	85.28
Min	83.35	83.39	83.35	83.34	83.51	84.11	84.14	83.43	82.87	82.87	83.33	83.32	82.87

Annual Max Momentary Gage Height	85.51	m. (MSL.) ,	at 18.00 Hours , on Sep 25 , 2014		
Zero Gage at Bottom Elevation	84.11	m. (MSL.) ,	River Bed	74.88	m. (MSL.)
Left Bank Elevation	88.60	m. (MSL.) ,			
Right Bank Elevation	89.13	m. (MSL.) ,	Drainage Area	974	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	1.80	2.30	1.25	10.50	22.00	30.50	18.40	1.60	0.07	1.30	1.15		
2	1.40	1.80	2.20	1.25	18.00	21.60	41.00	17.65	1.40	0.07	1.30	1.15		
3	1.40	1.70	2.10	1.25	14.20	20.80	36.80	16.95	1.25	0.07	1.30	1.15		
4	1.40	1.70	2.00	1.25	10.30	49.08	32.00	16.25	1.10	0.07	1.30	1.15		
5	1.35	1.60	1.90	1.25	8.50	40.40	28.00	15.90	1.00	0.07	1.30	1.15		
6	1.35	2.10	1.80	1.25	7.20	27.50	35.00	19.60	0.95	0.07	1.25	1.15		
7	1.35	1.90	3.10	1.20	5.37	22.00	41.00	29.50	0.90	0.07	1.25	1.15		
8	1.35	1.80	7.35	1.20	4.13	44.72	33.80	26.00	0.85	0.07	1.25	1.15		
9	1.30	1.70	7.50	1.20	2.90	36.20	29.50	21.60	0.80	0.07	1.25	1.15		
10	1.30	1.60	5.62	1.20	2.60	31.50	24.50	17.65	0.75	0.77	1.25	1.15		
11	1.30	1.60	4.63	1.20	4.87	27.50	20.80	13.90	0.70	2.70	1.20	1.10		
12	1.30	1.50	7.50	1.20	3.87	23.50	24.50	10.50	0.65	3.10	1.20	1.10		
13	1.25	1.50	8.10	1.20	3.30	20.00	20.80	8.10	0.60	2.90	1.20	1.10		
14	1.25	1.45	4.63	1.25	3.20	16.95	17.65	7.20	0.55	2.80	1.20	1.10		
15	1.90	3.00	2.40	24.00	3.10	14.20	14.85	6.60	0.50	2.70	1.20	1.10		
16	3.40	2.80	4.13	14.85	3.00	12.40	13.90	6.15	0.45	2.60	1.15	1.10		
17	3.10	2.60	4.13	10.50	2.90	11.80	13.30	5.62	0.40	2.50	1.15	1.10		
18	3.00	2.40	3.10	7.70	2.80	11.80	13.00	5.37	0.35	2.40	1.15	1.10		
19	2.90	2.30	2.60	6.45	2.70	14.85	12.70	4.87	0.30	2.30	1.15	1.10		
20	2.80	2.20	2.50	5.37	2.60	14.20	16.60	4.50	0.23	2.20	1.15	1.10		
21	2.70	2.20	2.20	4.37	6.30	13.90	28.00	4.13	0.21	2.10	1.15	1.10		
22	2.60	2.10	2.00	3.75	5.13	13.60	19.60	3.75	0.19	2.00	1.15	1.10		
23	2.50	2.10	1.90	3.40	4.25	15.90	16.25	3.40	0.17	1.90	1.15	1.10		
24	2.40	2.00	1.60	3.20	3.87	13.90	13.90	3.00	0.16	1.80	1.15	1.10		
25	2.30	2.00	1.50	2.90	4.75	78.95	16.60	2.60	0.14	1.70	1.15	1.10		
26	2.20	1.90	1.45	5.87	5.37	84.80	26.00	2.30	0.13	1.60	1.15	1.10		
27	2.10	1.90	1.40	8.10	28.50	69.20	20.80	2.10	0.12	1.50	1.15	1.15		
28	2.00	3.30	1.35	18.40	29.50	47.62	17.30	2.00	0.10	1.45	1.15	1.15		
29	1.90	2.80	1.30	24.00	37.40	47.62	14.85	1.90	0.09	1.40		1.15		
30	1.80	2.50	1.25	16.95	35.00	41.00	23.50	1.80	0.08	1.35		1.15		
31		2.40		13.60	25.00		19.20		0.07	1.30		1.15		
Total	58.30	64.25	95.54	190.56	301.11	909.49	716.20	299.29	16.79	45.70	33.70	34.85	2765.78	CMSDAY
Mean	1.94	2.07	3.18	6.15	9.71	30.32	23.10	9.98	0.54	1.47	1.20	1.12	7.58	CMS
Max	3.40	3.30	8.10	24.00	37.40	84.80	41.00	29.50	1.60	3.10	1.30	1.15	84.80	CMS
Min	1.25	1.45	1.25	1.20	2.60	11.80	12.70	1.80	0.07	0.07	1.15	1.10	0.07	CMS
Runoff	5.04	5.55	8.26	16.46	26.02	78.58	61.88	25.86	1.45	3.95	2.91	3.01	238.96	MCM

Momentary Peak 109.60 CMS. at 85.51 m. (MSL.) at 18.00 Hours , on Sep 25 , 2014

Runoff Yield 7.78 Liters/Second/Square KM. Momentary Peak Yield 112.526 Liters/Second/Square KM.

WATER YEAR : 2014

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

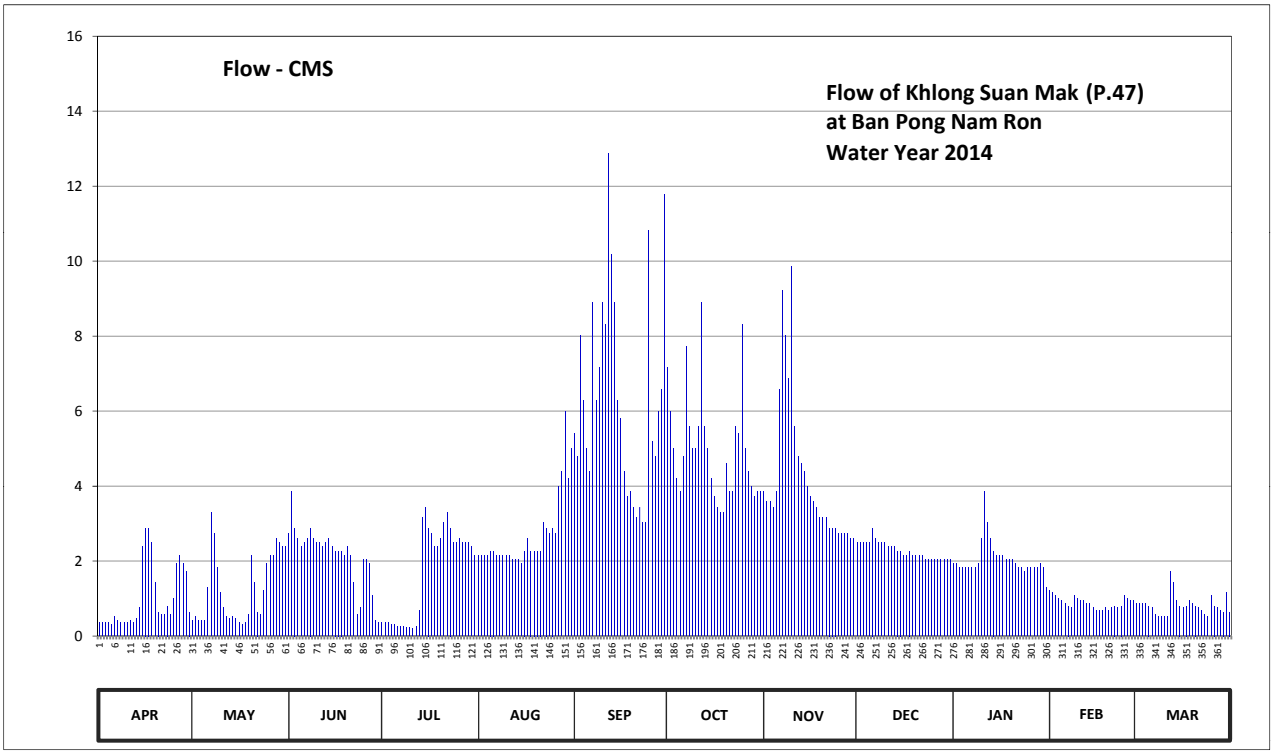
Location : on right bank at Ban Pong Ron.

	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 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	1983 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.92	143.93	144.21	143.92	144.16	144.37	144.44	144.29	144.19	144.14	144.06	144.01	
2	143.92	143.95	144.29	143.92	144.16	144.34	144.40	144.27	144.19	144.14	144.05	144.01	
3	143.92	143.93	144.22	143.92	144.16	144.47	144.35	144.27	144.19	144.13	144.04	144.01	
4	143.92	143.93	144.20	143.91	144.16	144.41	144.31	144.26	144.19	144.13	144.03	144.01	
5	143.91	143.93	144.18	143.91	144.17	144.35	144.29	144.29	144.19	144.13	144.02	144.00	
6	143.95	144.07	144.19	143.90	144.17	144.32	144.34	144.42	144.22	144.13	144.01	143.99	
7	143.93	144.25	144.20	143.90	144.16	144.50	144.46	144.51	144.20	144.13	144.00	143.96	
8	143.92	144.21	144.22	143.90	144.16	144.41	144.38	144.47	144.19	144.13	143.99	143.95	
9	143.92	144.13	144.20	143.89	144.16	144.44	144.35	144.43	144.19	144.14	144.04	143.95	
10	143.92	144.05	144.19	143.89	144.16	144.50	144.35	144.53	144.19	144.20	144.03	143.95	
11	143.93	143.99	144.19	143.88	144.16	144.48	144.38	144.38	144.18	144.29	144.02	143.95	
12	143.92	143.95	144.18	143.90	144.15	144.62	144.50	144.34	144.18	144.23	144.02	144.12	
13	143.94	143.94	144.19	143.98	144.15	144.54	144.38	144.33	144.18	144.20	144.01	144.09	
14	143.99	143.95	144.20	144.24	144.15	144.50	144.35	144.32	144.17	144.17	144.01	144.02	
15	144.18	143.94	144.18	144.26	144.14	144.41	144.31	144.30	144.17	144.16	143.99	144.00	
16	144.22	143.92	144.17	144.22	144.17	144.39	144.28	144.28	144.16	144.16	143.98	143.99	
17	144.22	143.91	144.17	144.21	144.20	144.32	144.26	144.27	144.16	144.16	143.98	144.00	
18	144.19	143.92	144.17	144.18	144.17	144.28	144.25	144.26	144.17	144.15	143.98	144.02	
19	144.09	143.96	144.16	144.18	144.17	144.29	144.25	144.24	144.16	144.15	143.99	144.01	
20	143.97	144.16	144.18	144.20	144.17	144.26	144.33	144.24	144.16	144.15	143.98	144.00	
21	143.96	144.09	144.16	144.23	144.17	144.24	144.29	144.24	144.16	144.14	143.99	143.99	
22	143.96	143.97	144.09	144.25	144.23	144.26	144.29	144.22	144.16	144.13	144.00	143.98	
23	144.00	143.96	143.96	144.22	144.22	144.23	144.38	144.22	144.15	144.13	143.99	143.96	
24	143.96	144.06	143.99	144.19	144.21	144.23	144.37	144.22	144.15	144.12	144.00	143.95	
25	144.03	144.14	144.15	144.19	144.22	144.56	144.48	144.21	144.15	144.13	144.04	144.04	
26	144.14	144.16	144.15	144.20	144.21	144.36	144.35	144.21	144.15	144.13	144.03	144.00	
27	144.16	144.16	144.14	144.19	144.30	144.34	144.32	144.21	144.15	144.13	144.02	143.99	
28	144.14	144.20	144.04	144.19	144.32	144.40	144.30	144.21	144.15	144.13	144.02	143.98	
29	144.12	144.19	143.93	144.19	144.40	144.42	144.28	144.20	144.15	144.14		143.97	
30	143.97	144.18	143.92	144.18	144.31	144.59	144.29	144.20	144.15	144.13		144.05	
31		144.18		144.16	144.35		144.29		144.15	144.07		143.97	
Mean	144.01	144.04	144.15	144.08	144.20	144.39	144.34	144.29	144.17	144.15	144.01	144.00	
Max	144.22	144.25	144.29	144.26	144.40	144.62	144.50	144.53	144.22	144.29	144.06	144.12	144.62
Min	143.91	143.91	143.92	143.88	144.14	144.23	144.25	144.20	144.15	144.07	143.98	143.95	143.88

Annual Max Momentary Gage Height	144.87	m. (MSL.) ,	at 06.00 Hours , on Sep 25 , 2014		
Zero Gage at Bottom Elevation	143.77	m. (MSL.) ,	River Bed	143.63	m. (MSL.)
Left Bank Elevation	147.17	m. (MSL.) ,			
Right Bank Elevation	149.36	m. (MSL.) ,	Drainage Area	529	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.36	0.41	2.74	0.36	2.16	5.40	7.16	3.86	2.49	1.94	1.22	0.87		
2	0.36	0.53	3.86	0.36	2.16	4.80	6.00	3.58	2.49	1.94	1.15	0.87		
3	0.36	0.41	2.88	0.36	2.16	8.03	5.00	3.58	2.49	1.83	1.08	0.87		
4	0.36	0.41	2.60	0.31	2.16	6.29	4.20	3.44	2.49	1.83	1.01	0.87		
5	0.31	0.41	2.38	0.31	2.27	5.00	3.86	3.86	2.49	1.83	0.94	0.80		
6	0.53	1.29	2.49	0.25	2.27	4.40	4.80	6.58	2.88	1.83	0.87	0.75		
7	0.41	3.30	2.60	0.25	2.16	8.90	7.74	9.22	2.60	1.83	0.80	0.58		
8	0.36	2.74	2.88	0.25	2.16	6.29	5.60	8.03	2.49	1.83	0.75	0.53		
9	0.36	1.83	2.60	0.23	2.16	7.16	5.00	6.87	2.49	1.94	1.08	0.53		
10	0.36	1.15	2.49	0.23	2.16	8.90	5.00	9.86	2.49	2.60	1.01	0.53		
11	0.41	0.75	2.49	0.20	2.16	8.32	5.60	5.60	2.38	3.86	0.94	0.53		
12	0.36	0.53	2.38	0.25	2.05	12.86	8.90	4.80	2.38	3.02	0.94	1.72		
13	0.47	0.47	2.49	0.69	2.05	10.18	5.60	4.60	2.38	2.60	0.87	1.43		
14	0.75	0.53	2.60	3.16	2.05	8.90	5.00	4.40	2.27	2.27	0.87	0.94		
15	2.38	0.47	2.38	3.44	1.94	6.29	4.20	4.00	2.27	2.16	0.75	0.80		
16	2.88	0.36	2.27	2.88	2.27	5.80	3.72	3.72	2.16	2.16	0.69	0.75		
17	2.88	0.31	2.27	2.74	2.60	4.40	3.44	3.58	2.16	2.16	0.69	0.80		
18	2.49	0.36	2.27	2.38	2.27	3.72	3.30	3.44	2.27	2.05	0.69	0.94		
19	1.43	0.58	2.16	2.38	2.27	3.86	3.30	3.16	2.16	2.05	0.75	0.87		
20	0.64	2.16	2.38	2.60	2.27	3.44	4.60	3.16	2.16	2.05	0.69	0.80		
21	0.58	1.43	2.16	3.02	2.27	3.16	3.86	3.16	2.16	1.94	0.75	0.75		
22	0.58	0.64	1.43	3.30	3.02	3.44	3.86	2.88	2.16	1.83	0.80	0.69		
23	0.80	0.58	0.58	2.88	2.88	3.02	5.60	2.88	2.05	1.83	0.75	0.58		
24	0.58	1.22	0.75	2.49	2.74	3.02	5.40	2.88	2.05	1.72	0.80	0.53		
25	1.01	1.94	2.05	2.49	2.88	10.82	8.32	2.74	2.05	1.83	1.08	1.08		
26	1.94	2.16	2.05	2.60	2.74	5.20	5.00	2.74	2.05	1.83	1.01	0.80		
27	2.16	2.16	1.94	2.49	4.00	4.80	4.40	2.74	2.05	1.83	0.94	0.75		
28	1.94	2.60	1.08	2.49	4.40	6.00	4.00	2.74	2.05	1.83	0.94	0.69		
29	1.72	2.49	0.41	2.49	6.00	6.58	3.72	2.60	2.05	1.94		0.64		
30	0.64	2.38	0.36	2.38	4.20	11.78	3.86	2.60	2.05	1.83		1.15		
31		2.38		2.16	5.00		3.86		2.05	1.29		0.64		
Total	30.41	38.98	64.02	52.42	83.88	190.76	153.90	127.30	70.76	63.48	24.86	25.08	925.85	CMSDAY
Mean	1.01	1.26	2.13	1.69	2.71	6.36	4.96	4.24	2.28	2.05	0.89	0.81	2.54	CMS
Max	2.88	3.30	3.86	3.44	6.00	12.86	8.90	9.86	2.88	3.86	1.22	1.72	12.86	CMS
Min	0.31	0.31	0.36	0.20	1.94	3.02	3.30	2.60	2.05	1.29	0.69	0.53	0.20	CMS
Runoff	2.63	3.37	5.53	4.53	7.25	16.48	13.30	11.00	6.11	5.49	2.15	2.17	79.99	MCM

Momentary Peak 23.97 CMS. at 144.87 m. (MSL.) at 06.00 Hours , on Sep 25 , 2014

Runoff Yield 4.80 Liters/Second/Square KM. Momentary Peak Yield 45.312 Liters/Second/Square KM.

WATER YEAR : 2014

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**	+109.825 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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

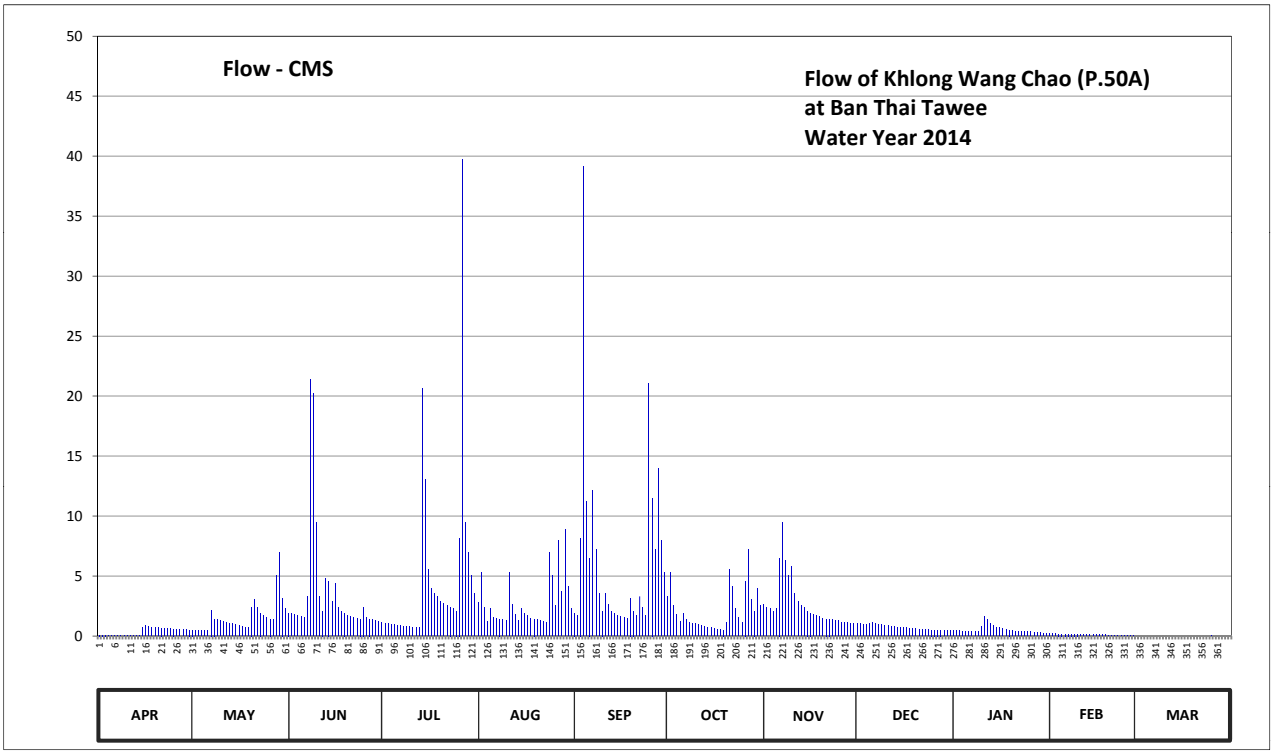
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.76	105.00	105.00	104.89	105.10	105.00	105.14	105.08	104.87	104.78	104.74	104.70	
2	104.76	104.99	104.99	104.88	105.25	104.97	105.25	105.05	104.87	104.78	104.74	104.70	
3	104.76	104.99	104.98	104.87	105.05	105.37	105.07	105.04	104.86	104.78	104.74	104.70	
4	104.75	104.98	104.97	104.86	104.90	106.16	104.98	105.01	104.86	104.77	104.73	104.69	
5	104.75	104.98	104.96	104.86	105.04	105.48	104.90	105.04	104.88	104.77	104.73	104.69	
6	104.75	104.97	104.95	104.85	104.95	105.30	104.99	105.30	104.89	104.77	104.73	104.69	
7	104.75	105.03	105.14	104.85	104.94	105.51	104.92	105.42	104.87	104.77	104.73	104.68	
8	104.74	104.93	105.78	104.84	104.93	105.33	104.89	105.29	104.86	104.76	104.73	104.68	
9	104.74	104.92	105.75	104.84	104.92	105.16	104.88	105.24	104.86	104.77	104.73	104.68	
10	104.74	104.91	105.42	104.84	104.91	105.02	104.87	105.27	104.85	104.84	104.73	104.67	
11	104.74	104.90	105.14	104.83	105.25	105.16	104.86	105.16	104.85	104.96	104.72	104.67	
12	104.73	104.89	105.02	104.83	105.08	105.08	104.85	105.11	104.84	104.92	104.72	104.67	
13	104.73	104.88	105.23	104.83	104.98	105.01	104.84	105.07	104.84	104.88	104.72	104.66	
14	104.73	104.87	105.22	105.76	104.91	104.99	104.83	105.05	104.83	104.85	104.72	104.66	
15	105.11	104.86	105.11	105.54	105.04	104.97	104.82	105.02	104.83	104.83	104.72	104.66	
16	105.18	104.85	105.21	105.26	104.99	104.96	104.81	105.00	104.82	104.82	104.72	104.66	
17	105.15	104.84	105.05	105.19	104.97	104.95	104.80	104.98	104.82	104.81	104.72	104.65	
18	105.12	104.83	105.01	105.16	104.94	104.94	104.80	104.97	104.81	104.80	104.72	104.65	
19	105.10	104.82	105.00	105.14	104.93	105.13	104.79	104.96	104.81	104.79	104.72	104.65	
20	105.09	105.06	104.97	105.11	104.92	105.02	104.89	104.94	104.81	104.78	104.71	104.65	
21	105.08	105.12	104.96	105.09	104.91	104.97	105.26	104.93	104.80	104.77	104.71	104.65	
22	105.07	105.05	104.95	105.07	104.90	105.14	105.20	104.93	104.80	104.77	104.71	104.65	
23	105.06	105.00	104.94	105.06	104.89	105.05	105.04	104.92	104.80	104.77	104.71	104.65	
24	105.05	104.97	104.93	105.04	105.32	104.97	104.95	104.91	104.80	104.76	104.71	104.69	
25	105.04	104.95	105.06	105.02	105.24	105.77	104.89	104.91	104.79	104.76	104.71	104.71	
26	105.03	104.93	104.95	105.37	105.07	105.49	105.22	104.89	104.79	104.76	104.71	104.68	
27	105.02	104.92	104.93	106.17	105.36	105.33	105.33	104.89	104.79	104.75	104.71	104.67	
28	105.01	105.24	104.92	105.42	105.17	105.57	105.12	104.89	104.79	104.75	104.71	104.67	
29	105.01	105.32	104.91	105.32	105.40	105.36	105.02	104.88	104.78	104.75		104.66	
30	105.00	105.13	104.90	105.24	105.20	105.25	105.19	104.88	104.78	104.74		104.66	
31		105.04		105.16	105.04		105.07		104.78	104.74		104.66	
Mean	104.92	104.97	105.08	105.10	105.05	105.21	104.98	105.03	104.83	104.79	104.72	104.67	
Max	105.18	105.32	105.78	106.17	105.40	106.16	105.33	105.42	104.89	104.96	104.74	104.71	106.17
Min	104.73	104.82	104.90	104.83	104.89	104.94	104.79	104.88	104.78	104.74	104.71	104.65	104.65

Annual Max Momentary Gage Height 106.36 m. (MSL.) , at 18.00 Hours , on Jul 14 , 2014

Zero Gage at Bottom Elevation 104.36 m. (MSL.) , River Bed 104.37 m. (MSL.)

Left Bank Elevation 109.90 m. (MSL.) ,

Right Bank Elevation 109.96 m. (MSL.) , Drainage Area 480 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	0.50	1.92	1.14	2.77	1.92	3.30	2.60	1.02	0.45	0.22	0.00		
2	0.09	0.48	1.85	1.08	5.30	1.71	5.30	2.35	1.02	0.45	0.22	0.00		
3	0.09	0.48	1.78	1.02	2.35	8.18	2.52	2.26	0.95	0.45	0.22	0.00		
4	0.08	0.46	1.71	0.95	1.21	39.18	1.78	2.01	0.95	0.39	0.17	0.00		
5	0.08	0.46	1.64	0.95	2.26	11.22	1.21	2.26	1.08	0.39	0.17	0.00		
6	0.08	0.44	1.56	0.88	1.56	6.50	1.85	6.50	1.14	0.39	0.17	0.00		
7	0.08	2.17	3.30	0.88	1.49	12.11	1.35	9.48	1.02	0.39	0.17	0.00		
8	0.06	1.42	21.42	0.82	1.42	7.22	1.14	6.26	0.95	0.34	0.17	0.00		
9	0.06	1.35	20.25	0.82	1.35	3.57	1.08	5.06	0.95	0.39	0.17	0.00		
10	0.06	1.28	9.48	0.82	1.28	2.09	1.02	5.78	0.88	0.82	0.17	0.00		
11	0.06	1.21	3.30	0.75	5.30	3.57	0.95	3.57	0.88	1.64	0.11	0.00		
12	0.05	1.14	2.09	0.75	2.60	2.60	0.88	2.90	0.82	1.35	0.11	0.00		
13	0.05	1.08	4.82	0.75	1.78	2.01	0.82	2.52	0.82	1.08	0.11	0.00		
14	0.05	1.02	4.58	20.64	1.28	1.85	0.75	2.35	0.75	0.88	0.11	0.00		
15	0.73	0.95	2.90	13.04	2.26	1.71	0.69	2.09	0.75	0.75	0.11	0.00		
16	0.91	0.88	4.34	5.54	1.85	1.64	0.62	1.92	0.69	0.69	0.11	0.00		
17	0.83	0.82	2.35	3.97	1.71	1.56	0.56	1.78	0.69	0.62	0.11	0.00		
18	0.75	0.75	2.01	3.57	1.49	1.49	0.56	1.71	0.62	0.56	0.11	0.00		
19	0.70	0.69	1.92	3.30	1.42	3.17	0.50	1.64	0.62	0.50	0.11	0.00		
20	0.68	2.43	1.71	2.90	1.35	2.09	1.14	1.49	0.62	0.45	0.06	0.00		
21	0.66	3.04	1.64	2.68	1.28	1.71	5.54	1.42	0.56	0.39	0.06	0.00		
22	0.64	2.35	1.56	2.52	1.21	3.30	4.10	1.42	0.56	0.39	0.06	0.00		
23	0.62	1.92	1.49	2.43	1.14	2.35	2.26	1.35	0.56	0.39	0.06	0.00		
24	0.60	1.71	1.42	2.26	6.98	1.71	1.56	1.28	0.56	0.34	0.06	0.00		
25	0.58	1.56	2.43	2.09	5.06	21.03	1.14	1.28	0.50	0.34	0.06	0.06		
26	0.56	1.42	1.56	8.18	2.52	11.51	4.58	1.14	0.50	0.34	0.06	0.00		
27	0.54	1.35	1.42	39.71	7.94	7.22	7.22	1.14	0.50	0.28	0.06	0.00		
28	0.52	5.06	1.35	9.48	3.70	13.97	3.04	1.14	0.50	0.28	0.06	0.00		
29	0.52	6.98	1.28	6.98	8.90	7.94	2.09	1.08	0.45	0.28		0.00		
30	0.50	3.17	1.21	5.06	4.10	5.30	3.97	1.08	0.45	0.22		0.00		
31		2.26		3.57	2.26		2.52		0.45	0.22		0.00		
Total	11.32	50.83	110.29	149.53	87.12	191.43	66.04	78.86	22.81	16.45	3.38	0.06	788.12	CMSDAY
Mean	0.38	1.64	3.68	4.82	2.81	6.38	2.13	2.63	0.74	0.53	0.12	0.00	2.16	CMS
Max	0.91	6.98	21.42	39.71	8.90	39.18	7.22	9.48	1.14	1.64	0.22	0.06	39.71	CMS
Min	0.05	0.44	1.21	0.75	1.14	1.49	0.50	1.08	0.45	0.22	0.06	0.00	0.00	CMS
Runoff	0.98	4.39	9.53	12.92	7.53	16.54	5.71	6.81	1.97	1.42	0.29	0.01	68.09	MCM

Momentary Peak 50.90 CMS. at 106.36 m. (MSL.) at 18.00 Hours , on Jul 14 , 2014

Runoff Yield 4.50 Liters/Second/Square KM. Momentary Peak Yield 106.042 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

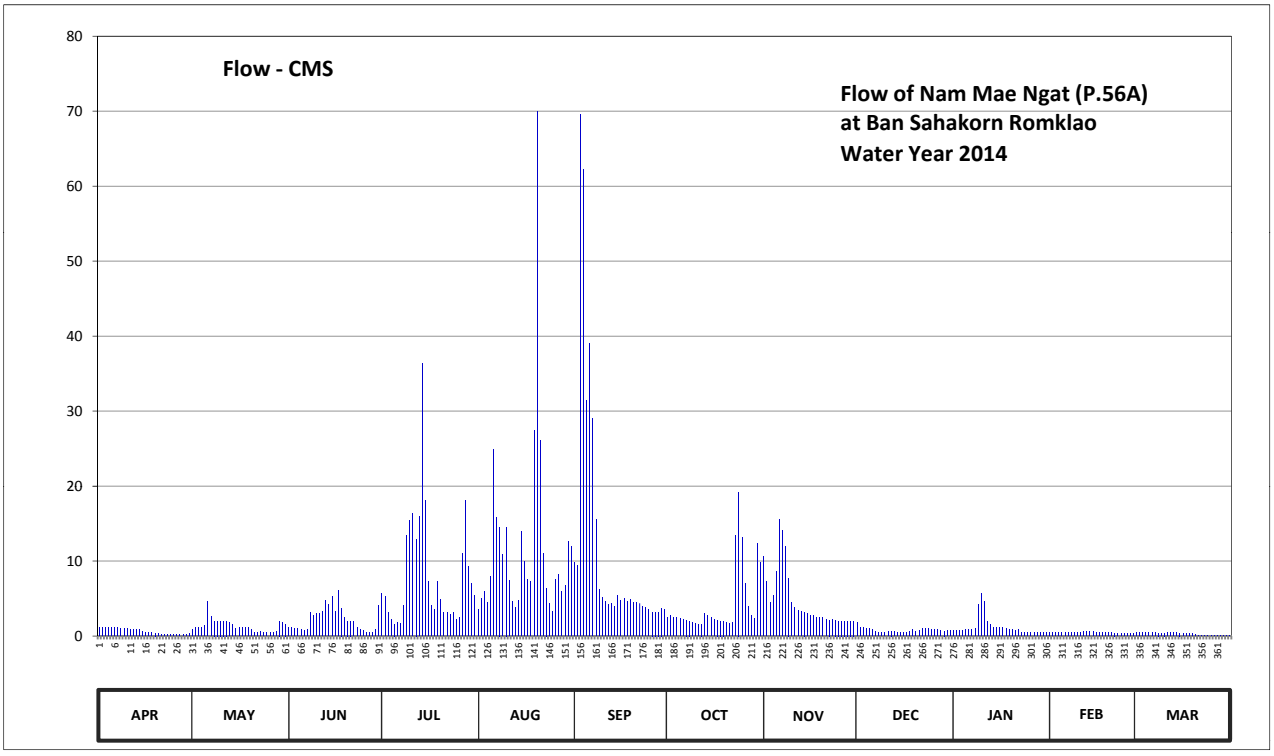
Location : on left bank at the bridge near land Cooperative Office.

	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**	+416.250 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 Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	409.00	408.92	408.98	409.39	409.23	409.66	409.14	409.71	409.08	408.86	408.76	408.75	
2	409.00	408.97	408.97	409.36	409.34	409.64	409.16	409.50	409.00	408.86	408.76	408.75	
3	409.00	408.97	408.93	409.19	409.41	412.09	409.14	409.30	408.99	408.86	408.76	408.75	
4	409.00	408.97	408.93	409.12	409.30	411.87	409.14	409.37	408.95	408.88	408.76	408.75	
5	408.99	409.02	408.92	409.05	409.54	410.78	409.13	409.59	408.95	408.92	408.76	408.77	
6	408.98	409.31	408.88	409.07	410.48	411.10	409.12	410.02	408.90	408.91	408.76	408.76	
7	408.97	409.15	408.91	409.06	410.03	410.67	409.11	409.93	408.84	408.91	408.76	408.76	
8	408.95	409.10	409.19	409.27	409.96	410.02	409.10	409.80	408.80	408.93	408.76	408.74	
9	408.95	409.10	409.16	409.89	409.73	409.43	409.08	409.53	408.80	409.28	408.76	408.70	
10	408.94	409.10	409.18	410.01	409.96	409.35	409.06	409.30	408.80	409.39	408.76	408.74	
11	408.92	409.10	409.18	410.06	409.51	409.31	409.04	409.25	408.82	409.31	408.78	408.75	
12	408.90	409.10	409.21	409.86	409.31	409.28	409.05	409.22	408.85	409.09	408.83	408.75	
13	408.90	409.07	409.32	410.04	409.25	409.29	409.18	409.21	408.84	409.04	408.83	408.75	
14	408.89	409.04	409.28	411.00	409.32	409.26	409.16	409.20	408.80	409.00	408.83	408.75	
15	408.84	408.93	409.36	410.15	409.92	409.37	409.14	409.18	408.80	409.00	408.82	408.74	
16	408.80	408.99	409.21	409.50	409.67	409.32	409.12	409.16	408.80	408.99	408.80	408.70	
17	408.80	409.00	409.42	409.27	409.52	409.34	409.11	409.16	408.80	408.98	408.80	408.70	
18	408.79	409.00	409.24	409.23	409.50	409.31	409.10	409.14	408.81	408.95	408.79	408.70	
19	408.74	408.97	409.14	409.50	410.60	409.33	409.10	409.14	408.91	408.90	408.75	408.70	
20	408.69	408.92	409.10	409.33	412.10	409.30	409.08	409.14	408.84	408.90	408.75	408.64	
21	408.64	408.79	409.10	409.19	410.54	409.30	409.06	409.12	408.86	408.86	408.75	408.50	
22	408.60	408.77	409.09	409.19	409.74	409.29	409.08	409.11	408.93	408.92	408.74	408.50	
23	408.59	408.84	408.99	409.17	409.44	409.26	409.89	409.12	408.94	408.80	408.70	408.50	
24	408.60	408.77	408.91	409.19	409.29	409.25	410.21	409.11	408.93	408.78	408.70	408.50	
25	408.60	408.75	408.87	409.12	409.21	409.23	409.87	409.10	408.90	408.78	408.70	408.50	
26	408.60	408.76	408.80	409.14	409.52	409.20	409.48	409.10	408.90	408.78	408.70	408.50	
27	408.60	408.76	408.80	409.74	409.56	409.20	409.26	409.10	408.90	408.78	408.70	408.50	
28	408.60	408.81	408.80	410.15	409.41	409.20	409.16	409.10	408.88	408.78	408.72	408.50	
29	408.60	409.10	408.90	409.63	409.46	409.24	409.13	409.10	408.85	408.77		408.51	
30	408.67	409.08	409.27	409.48	409.84	409.23	409.82	409.10	408.86	408.77		408.51	
31		409.05		409.37	409.80		409.66		408.86	408.77		408.51	
Mean	408.80	408.97	409.07	409.51	409.73	409.67	409.25	409.30	408.88	408.93	408.76	408.65	
Max	409.00	409.31	409.42	411.00	412.10	412.09	410.21	410.02	409.08	409.39	408.83	408.77	412.10
Min	408.59	408.75	408.80	409.05	409.21	409.20	409.04	409.10	408.80	408.77	408.70	408.50	408.50

Annual Max Momentary Gage Height	412.66	m. (MSL.) ,	at 17.00 Hours , on Sep 3 , 2014			
Zero Gage at Bottom Elevation	408.30	m. (MSL.) ,	River Bed	408.40	m. (MSL.)	
Left Bank Elevation	415.73	m. (MSL.) ,				
Right Bank Elevation	415.77	m. (MSL.) ,	Drainage Area	546	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	0.92	1.13	5.67	3.59	9.76	2.48	10.56	1.84	0.71	0.44	0.43		
2	1.20	1.10	1.10	5.28	5.02	9.44	2.72	7.30	1.20	0.71	0.44	0.43		
3	1.20	1.10	0.95	3.08	5.95	69.55	2.48	4.50	1.16	0.71	0.44	0.43		
4	1.20	1.10	0.95	2.24	4.50	62.24	2.48	5.41	1.03	0.78	0.44	0.43		
5	1.16	1.36	0.92	1.60	7.90	31.45	2.36	8.65	1.03	0.92	0.44	0.45		
6	1.13	4.63	0.78	1.76	24.88	39.00	2.24	15.58	0.85	0.89	0.44	0.44		
7	1.10	2.60	0.89	1.68	15.77	28.98	2.12	14.08	0.64	0.89	0.44	0.44		
8	1.03	2.00	3.08	4.11	14.56	15.58	2.00	12.00	0.50	0.95	0.44	0.41		
9	1.03	2.00	2.72	13.44	10.88	6.25	1.84	7.75	0.50	4.24	0.44	0.35		
10	0.99	2.00	2.96	15.39	14.56	5.15	1.68	4.50	0.50	5.67	0.44	0.41		
11	0.92	2.00	2.96	16.34	7.45	4.63	1.52	3.85	0.57	4.63	0.47	0.43		
12	0.85	2.00	3.33	12.96	4.63	4.24	1.60	3.46	0.68	1.92	0.60	0.43		
13	0.85	1.76	4.76	15.96	3.85	4.37	2.96	3.33	0.64	1.52	0.60	0.43		
14	0.82	1.52	4.24	36.40	4.76	3.98	2.72	3.20	0.50	1.20	0.60	0.43		
15	0.64	0.95	5.28	18.05	13.92	5.41	2.48	2.96	0.50	1.20	0.57	0.41		
16	0.50	1.16	3.33	7.30	9.92	4.76	2.24	2.72	0.50	1.16	0.50	0.35		
17	0.50	1.20	6.10	4.11	7.60	5.02	2.12	2.72	0.50	1.13	0.50	0.35		
18	0.49	1.20	3.72	3.59	7.30	4.63	2.00	2.48	0.54	1.03	0.49	0.35		
19	0.41	1.10	2.48	7.30	27.40	4.89	2.00	2.48	0.89	0.85	0.43	0.35		
20	0.34	0.92	2.00	4.89	69.90	4.50	1.84	2.48	0.64	0.85	0.43	0.26		
21	0.26	0.49	2.00	3.08	26.14	4.50	1.68	2.24	0.71	0.71	0.43	0.10		
22	0.20	0.45	1.92	3.08	11.04	4.37	1.84	2.12	0.95	0.92	0.41	0.10		
23	0.19	0.64	1.16	2.84	6.40	3.98	13.44	2.24	0.99	0.50	0.35	0.10		
24	0.20	0.45	0.89	3.08	4.37	3.85	19.21	2.12	0.95	0.47	0.35	0.10		
25	0.20	0.43	0.75	2.24	3.33	3.59	13.12	2.00	0.85	0.47	0.35	0.10		
26	0.20	0.44	0.50	2.48	7.60	3.20	7.00	2.00	0.85	0.47	0.35	0.10		
27	0.20	0.44	0.50	11.04	8.20	3.20	3.98	2.00	0.85	0.47	0.35	0.10		
28	0.20	0.54	0.50	18.05	5.95	3.20	2.72	2.00	0.78	0.47	0.38	0.10		
29	0.20	2.00	0.85	9.28	6.70	3.72	2.36	2.00	0.68	0.45		0.11		
30	0.31	1.84	4.11	7.00	12.64	3.59	12.32	2.00	0.71	0.45		0.11		
31		1.60		5.41	12.00		9.76		0.71	0.45		0.11		
Total	19.72	41.94	66.86	248.73	368.71	361.03	131.31	140.73	24.24	37.79	12.56	9.14	1462.76	CMSDAY
Mean	0.66	1.35	2.23	8.02	11.89	12.03	4.24	4.69	0.78	1.22	0.45	0.29	4.01	CMS
Max	1.20	4.63	6.10	36.40	69.90	69.55	19.21	15.58	1.84	5.67	0.60	0.45	69.90	CMS
Min	0.19	0.43	0.50	1.60	3.33	3.20	1.52	2.00	0.50	0.45	0.35	0.10	0.10	CMS
Runoff	1.70	3.62	5.78	21.49	31.86	31.19	11.35	12.16	2.09	3.27	1.09	0.79	126.38	MCM

Momentary Peak 90.40 CMS. at 412.66 m. (MSL.) at 17.00 Hours , on Sep 3 , 2014

Runoff Yield 7.34 Liters/Second/Square KM. Momentary Peak Yield 165.568 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1995 to date		
Stability of Channel Regimes	Fairly stable.		
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 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

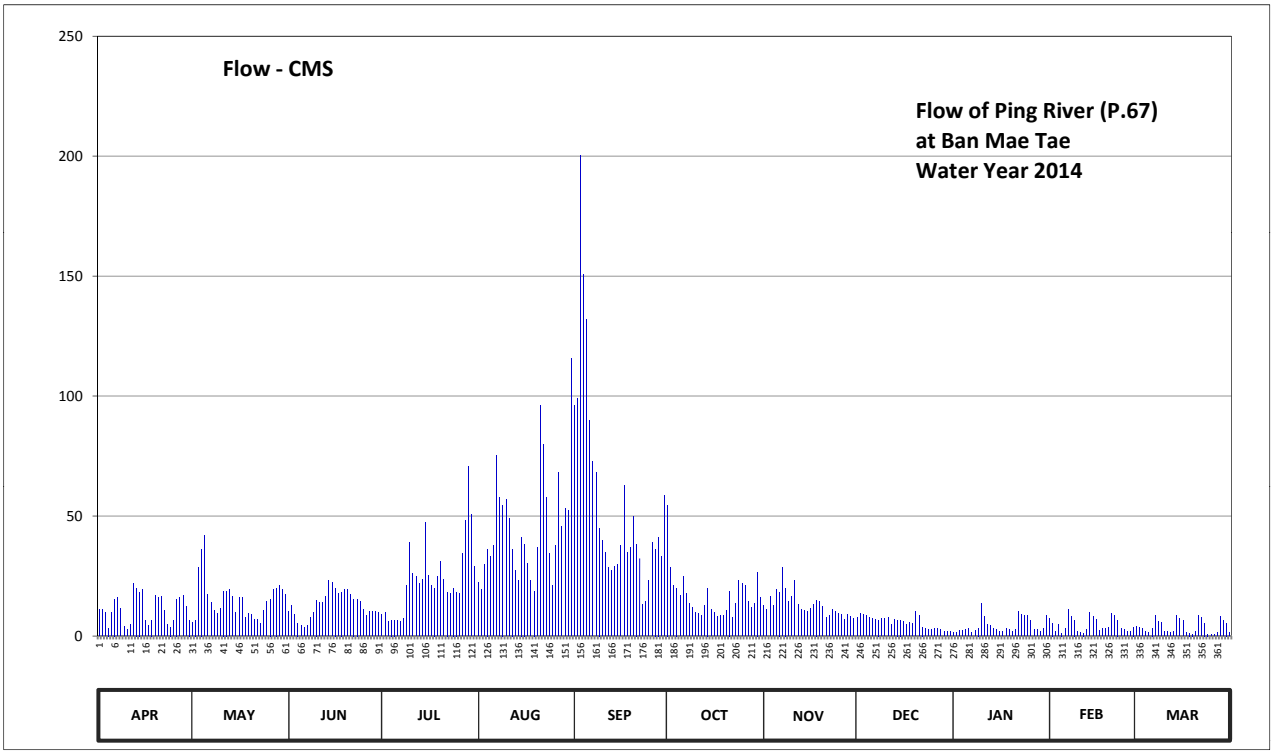
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	315.43	315.28	315.41	315.38	315.66	316.57	316.12	315.47	315.34	315.09	315.33	315.22	
2	315.43	315.31	315.47	315.40	315.61	316.60	315.76	315.43	315.39	315.08	315.27	315.20	
3	315.40	315.76	315.38	315.29	315.78	317.41	315.64	315.55	315.38	315.13	315.11	315.17	
4	315.19	315.88	315.27	315.31	315.88	317.05	315.62	315.47	315.36	315.14	315.24	315.10	
5	315.40	315.96	315.23	315.31	315.83	316.90	315.56	315.61	315.34	315.16	315.06	315.09	
6	315.53	315.57	315.20	315.30	315.90	316.51	315.70	315.59	315.33	315.17	315.17	315.19	
7	315.54	315.50	315.23	315.29	316.36	316.33	315.58	315.76	315.32	315.09	315.43	315.37	
8	315.44	315.42	315.34	315.33	316.16	316.28	315.49	315.62	315.31	315.13	315.35	315.29	
9	315.22	315.39	315.40	315.64	316.12	316.00	315.45	315.51	315.33	315.19	315.31	315.28	
10	315.16	315.44	315.52	315.92	316.15	315.93	315.40	315.55	315.33	315.49	315.12	315.11	
11	315.25	315.60	315.50	315.72	316.05	315.86	315.39	315.67	315.34	315.35	315.08	315.10	
12	315.65	315.60	315.50	315.70	315.88	315.76	315.36	315.48	315.25	315.25	315.06	315.09	
13	315.62	315.61	315.55	315.65	315.74	315.74	315.47	315.43	315.32	315.23	315.15	315.12	
14	315.59	315.55	315.67	315.68	315.67	315.77	315.62	315.42	315.31	315.18	315.40	315.36	
15	315.61	315.40	315.66	316.03	315.95	315.78	315.43	315.41	315.31	315.15	315.35	315.33	
16	315.30	315.54	315.62	315.71	315.91	315.90	315.40	315.44	315.29	315.12	315.32	315.30	
17	315.23	315.54	315.58	315.64	315.79	316.22	315.35	315.48	315.25	315.11	315.14	315.08	
18	315.31	315.34	315.59	315.62	315.67	315.86	315.37	315.52	315.28	315.17	315.18	315.06	
19	315.56	315.39	315.61	315.70	315.60	315.89	315.37	315.51	315.26	315.15	315.17	315.03	
20	315.54	315.38	315.61	315.80	315.89	316.06	315.42	315.46	315.41	315.11	315.20	315.11	
21	315.55	315.32	315.57	315.68	316.57	315.91	315.60	315.34	315.37	315.16	315.39	315.36	
22	315.42	315.32	315.53	315.59	316.41	315.82	315.34	315.36	315.21	315.41	315.37	315.34	
23	315.25	315.26	315.53	315.58	316.16	315.48	315.49	315.43	315.17	315.38	315.31	315.27	
24	315.21	315.42	315.51	315.62	315.85	315.51	315.67	315.41	315.16	315.36	315.18	315.03	
25	315.30	315.51	315.43	315.59	315.64	315.67	315.65	315.39	315.16	315.37	315.15	315.01	
26	315.53	315.53	315.37	315.58	315.90	315.92	315.64	315.38	315.18	315.30	315.12	315.00	
27	315.54	315.61	315.41	315.85	316.28	315.88	315.51	315.32	315.17	315.16	315.12	315.09	
28	315.56	315.62	315.41	316.04	316.01	315.95	315.45	315.38	315.15	315.15	315.21	315.35	
29	315.46	315.64	315.41	316.31	316.10	315.83	315.49	315.35	315.12	315.12		315.30	
30	315.31	315.61	315.40	316.07	316.09	316.17	315.73	315.33	315.11	315.17		315.27	
31		315.57		315.77	316.76		315.54		315.10	315.37		315.08	
Mean	315.42	315.51	315.46	315.65	315.98	316.09	315.54	315.47	315.27	315.21	315.22	315.18	
Max	315.65	315.96	315.67	316.31	316.76	317.41	316.12	315.76	315.41	315.49	315.43	315.37	317.41
Min	315.16	315.26	315.20	315.29	315.60	315.48	315.34	315.32	315.10	315.08	315.06	315.00	315.00

Annual Max Momentary Gage Height 317.56 m. (MSL.) , at 18.00 Hours , on Sep 3 , 2014

Zero Gage at Bottom Elevation 315.93 m. (MSL.) , River Bed 312.76 m. (MSL.)

Left Bank Elevation 326.33 m. (MSL.) ,

Right Bank Elevation 326.20 m. (MSL.) , Drainage Area 5323 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.06	5.74	10.22	9.10	22.40	96.00	54.60	12.74	7.70	1.58	7.35	4.06		
2	11.06	6.65	12.74	9.80	19.40	99.00	28.52	11.06	9.45	1.46	5.46	3.50		
3	9.80	28.52	9.10	6.02	29.76	200.45	21.20	16.40	9.10	2.24	1.88	2.96		
4	3.32	36.28	5.46	6.65	36.28	150.75	20.00	12.74	8.40	2.42	4.62	1.70		
5	9.80	42.04	4.34	6.65	32.98	132.00	16.88	19.40	7.70	2.78	1.22	1.58		
6	15.44	17.36	3.50	6.30	37.60	90.00	24.80	18.32	7.35	2.96	2.96	3.32		
7	15.92	14.00	4.34	6.02	75.40	72.70	17.84	28.52	7.00	1.58	11.06	8.75		
8	11.48	10.64	7.70	7.35	57.80	68.20	13.58	20.00	6.65	2.24	8.05	6.02		
9	4.06	9.45	9.80	21.20	54.60	45.00	11.90	14.48	7.35	3.32	6.65	5.74		
10	2.78	11.48	14.96	39.08	57.00	39.82	9.80	16.40	7.35	13.58	2.06	1.88		
11	4.90	18.80	14.00	26.04	49.00	34.96	9.45	23.00	7.70	8.05	1.46	1.70		
12	21.80	18.80	14.00	24.80	36.28	28.52	8.40	13.16	4.90	4.90	1.22	1.58		
13	20.00	19.40	16.40	21.80	27.28	27.28	12.74	11.06	7.00	4.34	2.60	2.06		
14	18.32	16.40	23.00	23.60	23.00	29.14	20.00	10.64	6.65	3.14	9.80	8.40		
15	19.40	9.80	22.40	47.40	41.30	29.76	11.06	10.22	6.65	2.60	8.05	7.35		
16	6.30	15.92	20.00	25.42	38.34	37.60	9.80	11.48	6.02	2.06	7.00	6.30		
17	4.34	15.92	17.84	21.20	30.38	62.80	8.05	13.16	4.90	1.88	2.42	1.46		
18	6.65	7.70	18.32	20.00	23.00	34.96	8.75	14.96	5.74	2.96	3.14	1.22		
19	16.88	9.45	19.40	24.80	18.80	36.94	8.75	14.48	5.18	2.60	2.96	0.86		
20	15.92	9.10	19.40	31.00	36.94	49.80	10.64	12.32	10.22	1.88	3.50	1.88		
21	16.40	7.00	17.36	23.60	96.00	38.34	18.80	7.70	8.75	2.78	9.45	8.40		
22	10.64	7.00	15.44	18.32	80.00	32.32	7.70	8.40	3.78	10.22	8.75	7.70		
23	4.90	5.18	15.44	17.84	57.80	13.16	13.58	11.06	2.96	9.10	6.65	5.46		
24	3.78	10.64	14.48	20.00	34.30	14.48	23.00	10.22	2.78	8.40	3.14	0.86		
25	6.30	14.48	11.06	18.32	21.20	23.00	21.80	9.45	2.78	8.75	2.60	0.62		
26	15.44	15.44	8.75	17.84	37.60	39.08	21.20	9.10	3.14	6.30	2.06	0.50		
27	15.92	19.40	10.22	34.30	68.20	36.28	14.48	7.00	2.96	2.78	2.06	1.58		
28	16.88	20.00	10.22	48.20	45.80	41.30	11.90	9.10	2.60	2.60	3.78	8.05		
29	12.32	21.20	10.22	70.90	53.00	32.98	13.58	8.05	2.06	2.06		6.30		
30	6.65	19.40	9.80	50.60	52.20	58.60	26.66	7.35	1.88	2.96		5.46		
31		17.36		29.14	115.80		15.92		1.70	8.75		1.46		
Total	338.46	480.55	389.91	733.29	1409.44	1695.22	515.38	391.97	178.40	133.27	131.95	118.71	6516.55	CMSDAY
Mean	11.28	15.50	13.00	23.65	45.47	56.51	16.63	13.07	5.75	4.30	4.71	3.83	17.85	CMS
Max	21.80	42.04	23.00	70.90	115.80	200.45	54.60	28.52	10.22	13.58	11.06	8.75	200.45	CMS
Min	2.78	5.18	3.50	6.02	18.80	13.16	7.70	7.00	1.70	1.46	1.22	0.50	0.50	CMS
Runoff	29.24	41.52	33.69	63.36	121.78	146.47	44.53	33.87	15.41	11.52	11.40	10.26	563.03	MCM

Momentary Peak 222.20 CMS. at 317.56 m. (MSL.) at 18.00 Hours , on Sep 3 , 2014

Runoff Yield 3.35 Liters/Second/Square KM. Momentary Peak Yield 41.743 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

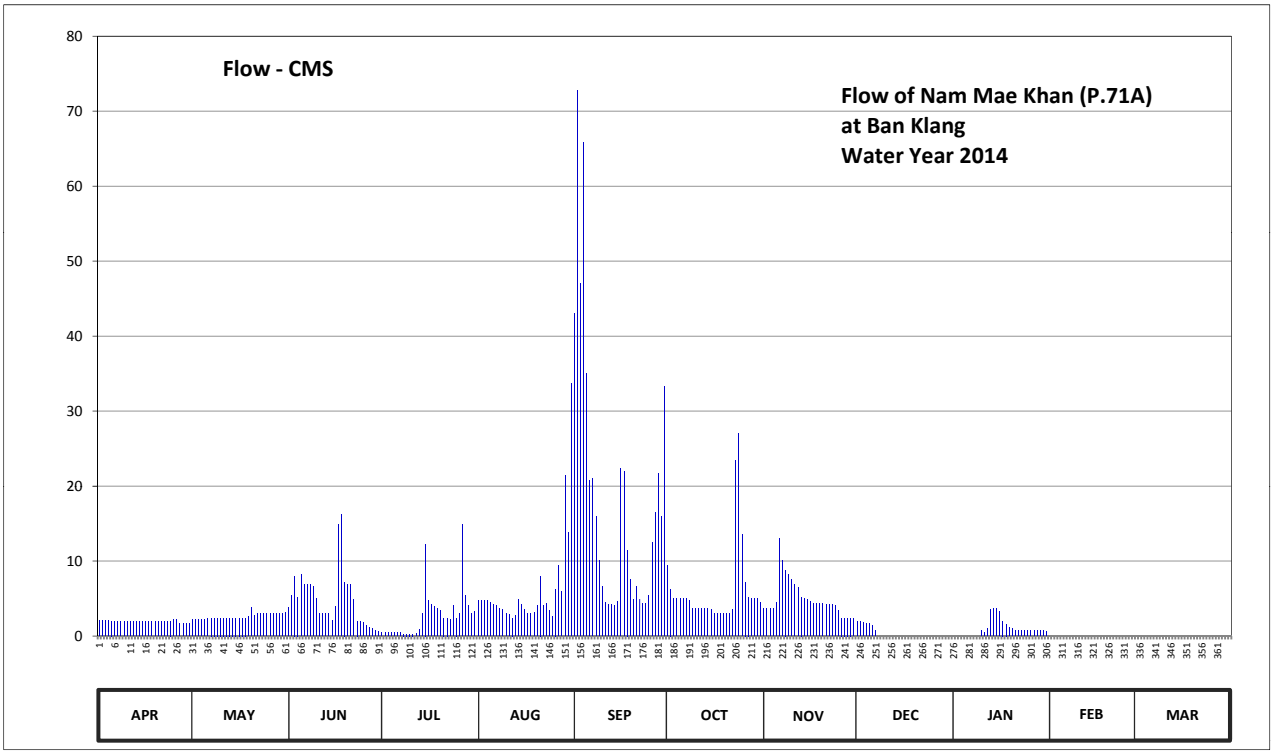
Location : on left bank at the bridge on highway.

	Ban Klang	**Amphoe** San Pa Tong	**Changwat** Chiang Mai		
Drainge Area	1,634 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+283.285 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank about 3 meters from the top staff gage.		**Elevation** +287.570 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 Flot	-				
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. 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 33 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.46	284.47	284.60	284.24	284.67	285.86	284.92	284.59	284.44	284.19	284.19	284.58	
2	284.46	284.47	284.71	284.24	284.67	286.34	284.76	284.59	284.44	284.19	284.19	284.57	
3	284.46	284.47	284.85	284.24	284.67	285.94	284.69	284.59	284.43	284.19	284.19	284.57	
4	284.46	284.47	284.70	284.24	284.67	286.24	284.69	284.59	284.42	284.19	284.19	284.57	
5	284.45	284.47	284.86	284.24	284.65	285.69	284.69	284.65	284.42	284.19	284.19	284.57	
6	284.44	284.48	284.79	284.24	284.63	285.33	284.69	285.07	284.38	284.19	284.19	284.57	
7	284.44	284.49	284.79	284.23	284.62	285.34	284.69	284.95	284.29	284.19	284.19	284.57	
8	284.44	284.49	284.79	284.19	284.59	285.18	284.67	284.89	284.29	284.19	284.19	284.57	
9	284.44	284.49	284.78	284.19	284.58	284.95	284.59	284.86	284.29	284.21	284.19	284.57	
10	284.44	284.49	284.69	284.19	284.54	284.78	284.59	284.83	284.29	284.28	284.19	284.57	
11	284.44	284.49	284.54	284.19	284.53	284.65	284.59	284.79	284.29	284.24	284.17	284.57	
12	284.44	284.49	284.54	284.21	284.49	284.63	284.59	284.77	284.29	284.33	284.14	284.57	
13	284.44	284.49	284.54	284.31	284.52	284.63	284.59	284.70	284.29	284.58	284.14	284.57	
14	284.44	284.49	284.54	284.54	284.68	284.62	284.59	284.69	284.29	284.59	284.14	284.56	
15	284.44	284.49	284.46	285.04	284.63	284.66	284.58	284.68	284.25	284.59	284.13	284.54	
16	284.44	284.49	284.61	284.67	284.58	285.38	284.54	284.66	284.19	284.56	284.09	284.54	
17	284.44	284.49	285.14	284.63	284.54	285.37	284.54	284.64	284.19	284.45	284.09	284.56	
18	284.44	284.49	285.19	284.61	284.54	285.01	284.54	284.64	284.19	284.41	284.09	284.59	
19	284.44	284.51	284.81	284.59	284.55	284.83	284.54	284.64	284.19	284.34	284.09	284.59	
20	284.44	284.60	284.79	284.57	284.62	284.68	284.54	284.64	284.19	284.33	284.09	284.59	
21	284.44	284.52	284.79	284.49	284.85	284.78	284.54	284.63	284.18	284.29	284.09	284.59	
22	284.44	284.54	284.68	284.49	284.62	284.68	284.58	284.63	284.18	284.29	284.09	284.59	
23	284.44	284.54	284.45	284.47	284.64	284.64	285.41	284.63	284.18	284.29	284.09	284.59	
24	284.45	284.54	284.44	284.62	284.57	284.64	285.50	284.62	284.19	284.29	284.09	284.59	
25	284.47	284.54	284.43	284.49	284.51	284.71	285.09	284.57	284.19	284.29	284.21	284.59	
26	284.47	284.54	284.38	284.54	284.76	285.05	284.81	284.49	284.19	284.29	284.58	284.59	
27	284.42	284.54	284.34	285.14	284.92	285.20	284.70	284.49	284.19	284.29	284.59	284.59	
28	284.42	284.54	284.33	284.71	284.74	285.36	284.69	284.49	284.19	284.29	284.59	284.59	
29	284.42	284.54	284.29	284.62	285.35	285.18	284.69	284.49	284.19	284.29		284.59	
30	284.42	284.54	284.27	284.54	285.10	285.65	284.69	284.48	284.19	284.29		284.59	
31		284.55		284.56	285.66		284.65		284.19	284.27		284.59	
Mean	284.44	284.51	284.64	284.46	284.70	285.13	284.71	284.67	284.26	284.31	284.19	284.58	
Max	284.47	284.60	285.19	285.14	285.66	286.34	285.50	285.07	284.44	284.59	284.59	284.59	286.34
Min	284.42	284.47	284.27	284.19	284.49	284.62	284.54	284.48	284.18	284.19	284.09	284.54	284.09

Annual Max Momentary Gage Height	286.51	m. (MSL.) ,	at 15.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	283.29	m. (MSL.) ,	River Bed	281.78	m. (MSL.)
Left Bank Elevation	290.10	m. (MSL.) ,			
Right Bank Elevation	290.10	m. (MSL.) ,	Drainage Area	1634	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	2.20	3.80	0.50	4.78	43.00	9.44	3.67	1.90	0.00	0.00	0.00		
2	2.10	2.20	5.38	0.50	4.78	72.80	6.28	3.67	1.90	0.00	0.00	0.00		
3	2.10	2.20	8.00	0.50	4.78	47.00	5.06	3.67	1.80	0.00	0.00	0.00		
4	2.10	2.20	5.20	0.50	4.78	65.80	5.06	3.67	1.70	0.00	0.00	0.00		
5	2.00	2.20	8.20	0.50	4.50	35.05	5.06	4.50	1.70	0.00	0.00	0.00		
6	1.90	2.30	6.82	0.50	4.22	20.72	5.06	13.06	1.36	0.00	0.00	0.00		
7	1.90	2.40	6.82	0.45	4.08	21.05	5.06	10.10	0.75	0.00	0.00	0.00		
8	1.90	2.40	6.82	0.28	3.67	15.97	4.78	8.80	0.00	0.00	0.00	0.00		
9	1.90	2.40	6.64	0.28	3.54	10.10	3.67	8.20	0.00	0.00	0.00	0.00		
10	1.90	2.40	5.06	0.28	3.02	6.64	3.67	7.60	0.00	0.70	0.00	0.00		
11	1.90	2.40	3.02	0.28	2.89	4.50	3.67	6.82	0.00	0.50	0.00	0.00		
12	1.90	2.40	3.02	0.35	2.40	4.22	3.67	6.46	0.00	1.01	0.00	0.00		
13	1.90	2.40	3.02	0.87	2.76	4.22	3.67	5.20	0.00	3.54	0.00	0.00		
14	1.90	2.40	3.02	3.02	4.92	4.08	3.67	5.06	0.00	3.67	0.00	0.00		
15	1.90	2.40	2.10	12.26	4.22	4.64	3.54	4.92	0.00	3.67	0.00	0.00		
16	1.90	2.40	3.94	4.78	3.54	22.35	3.02	4.64	0.00	3.28	0.00	0.00		
17	1.90	2.40	14.91	4.22	3.02	22.02	3.02	4.36	0.00	2.00	0.00	0.00		
18	1.90	2.40	16.23	3.94	3.02	11.47	3.02	4.36	0.00	1.60	0.00	0.00		
19	1.90	2.63	7.20	3.67	3.15	7.60	3.02	4.36	0.00	1.08	0.00	0.00		
20	1.90	3.80	6.82	3.41	4.08	4.92	3.02	4.36	0.00	1.01	0.00	0.00		
21	1.90	2.76	6.82	2.40	8.00	6.64	3.02	4.22	0.00	0.75	0.00	0.00		
22	1.90	3.02	4.92	2.40	4.08	4.92	3.54	4.22	0.00	0.75	0.00	0.00		
23	1.90	3.02	2.00	2.20	4.36	4.36	23.40	4.22	0.00	0.75	0.00	0.00		
24	2.00	3.02	1.90	4.08	3.41	4.36	27.00	4.08	0.00	0.75	0.00	0.00		
25	2.20	3.02	1.80	2.40	2.63	5.38	13.58	3.41	0.00	0.75	0.00	0.00		
26	2.20	3.02	1.36	3.02	6.28	12.52	7.20	2.40	0.00	0.75	0.00	0.00		
27	1.70	3.02	1.08	14.91	9.44	16.50	5.20	2.40	0.00	0.75	0.00	0.00		
28	1.70	3.02	1.01	5.38	5.92	21.70	5.06	2.40	0.00	0.75	0.00	0.00		
29	1.70	3.02	0.75	4.08	21.38	15.97	5.06	2.40	0.00	0.75		0.00		
30	1.70	3.02	0.65	3.02	13.85	33.25	5.06	2.30	0.00	0.75		0.00		
31		3.15		3.28	33.70		4.50		0.00	0.65		0.00		
Total	57.80	81.62	148.31	88.26	189.20	553.75	189.08	149.53	11.11	30.21	0.00	0.00	1498.87	CMSDAY
Mean	1.93	2.63	4.94	2.85	6.10	18.46	6.10	4.98	0.36	0.97	0.00	0.00	4.11	CMS
Max	2.20	3.80	16.23	14.91	33.70	72.80	27.00	13.06	1.90	3.67	0.00	0.00	72.80	CMS
Min	1.70	2.20	0.65	0.28	2.40	4.08	3.02	2.30	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	4.99	7.05	12.81	7.63	16.35	47.84	16.34	12.92	0.96	2.61	0.00	0.00	129.50	MCM

Momentary Peak 85.80 CMS. at 286.51 m. (MSL.) at 15.00 Hours , on Sep 2 , 2014

Runoff Yield 2.51 Liters/Second/Square KM. Momentary Peak Yield 52.509 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Ping River at Ban Sop Soi , Chiang Mai (P.73)

Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

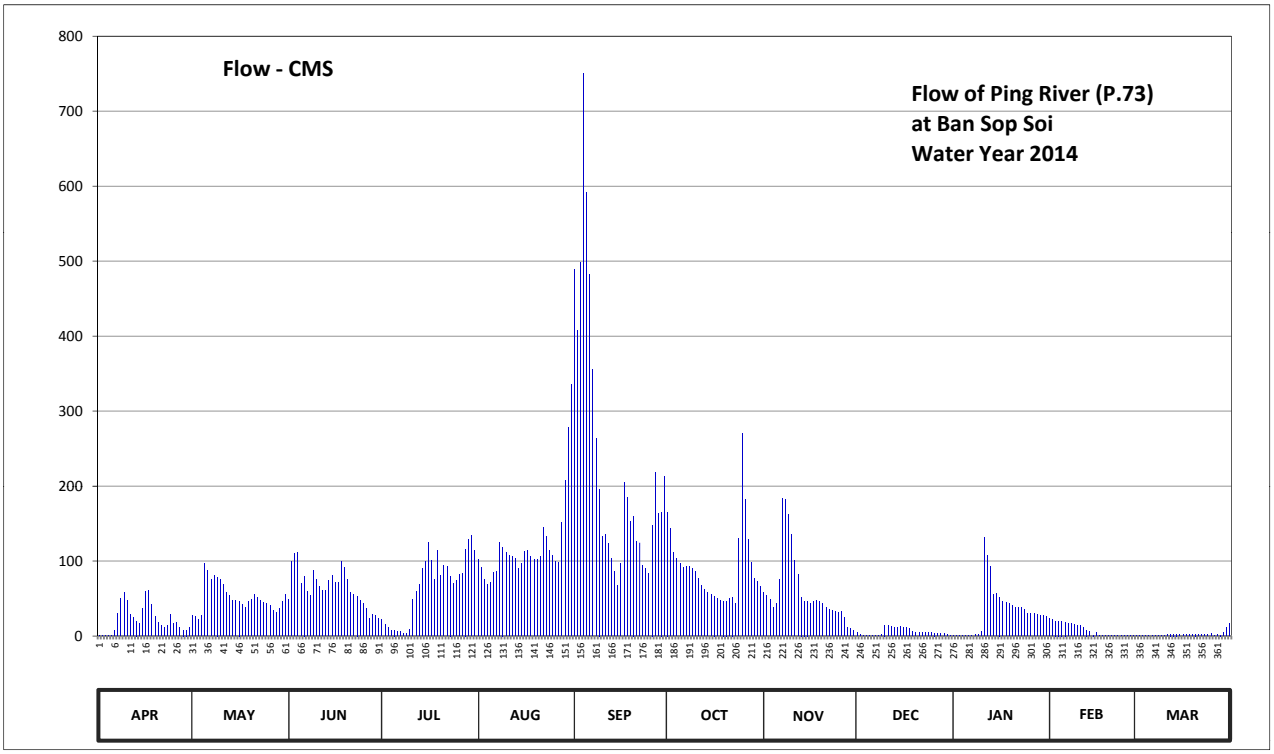
Location : on left bank at Sop Soi Phatana Bridge.

	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 Flot	-		
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 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	260.59	260.90	261.17	260.82	261.60	263.46	262.03	261.25	260.43	260.25	260.85	260.23	
2	260.54	260.89	261.58	260.73	261.52	263.17	261.89	261.22	260.32	260.25	260.83	260.23	
3	260.50	260.83	261.66	260.62	261.40	263.49	261.67	261.16	260.25	260.25	260.80	260.23	
4	260.49	260.90	261.67	260.54	261.34	264.20	261.61	261.04	260.25	260.25	260.80	260.23	
5	260.45	261.56	261.35	260.55	261.36	263.77	261.56	261.10	260.25	260.25	260.80	260.23	
6	260.52	261.49	261.43	260.50	261.47	263.44	261.52	261.40	260.22	260.25	260.78	260.23	
7	260.94	261.40	261.26	260.48	261.48	262.96	261.53	262.13	260.15	260.25	260.75	260.23	
8	261.18	261.44	261.22	260.41	261.76	262.54	261.53	262.12	260.15	260.30	260.75	260.23	
9	261.25	261.42	261.49	260.40	261.72	262.20	261.51	262.01	260.30	260.29	260.73	260.22	
10	261.15	261.40	261.39	260.56	261.67	261.82	261.48	261.84	260.71	260.51	260.69	260.22	
11	260.92	261.34	261.32	261.17	261.64	261.84	261.41	261.59	260.69	261.81	260.69	260.34	
12	260.86	261.25	261.27	261.26	261.63	261.75	261.33	261.45	260.67	261.64	260.63	260.35	
13	260.80	261.22	261.27	261.34	261.61	261.61	261.28	261.20	260.65	261.53	260.55	260.35	
14	260.74	261.15	261.38	261.51	261.51	261.48	261.25	261.14	260.65	261.23	260.47	260.35	
15	261.03	261.15	261.44	261.58	261.56	261.33	261.23	261.14	260.66	261.24	260.28	260.34	
16	261.26	261.14	261.36	261.76	261.68	261.56	261.21	261.10	260.65	261.20	260.43	260.33	
17	261.27	261.09	261.36	261.59	261.69	262.25	261.18	261.13	260.63	261.13	260.25	260.33	
18	261.09	261.04	261.58	261.39	261.63	262.14	261.15	261.15	260.59	261.12	260.25	260.33	
19	260.88	261.13	261.52	261.69	261.60	261.95	261.14	261.13	260.49	261.10	260.25	260.34	
20	260.77	261.16	261.40	261.44	261.60	262.00	261.14	261.10	260.45	261.08	260.24	260.35	
21	260.69	261.23	261.25	261.54	261.63	261.77	261.18	261.04	260.45	261.05	260.23	260.33	
22	260.65	261.19	261.23	261.53	261.90	261.76	261.20	261.02	260.45	261.05	260.23	260.30	
23	260.70	261.15	261.21	261.43	261.82	261.54	261.11	261.00	260.44	261.04	260.23	260.30	
24	260.92	261.12	261.15	261.35	261.69	261.51	261.80	260.98	260.43	261.01	260.23	260.33	
25	260.74	261.10	261.11	261.38	261.64	261.46	262.57	260.96	260.43	260.95	260.24	260.41	
26	260.77	261.08	261.03	261.45	261.58	261.92	262.12	260.99	260.42	260.95	260.23	260.19	
27	260.62	261.00	260.85	261.46	261.57	262.32	261.79	260.87	260.40	260.95	260.23	260.31	
28	260.55	260.96	260.92	261.70	261.94	262.02	261.57	260.65	260.40	260.93	260.23	260.27	
29	260.55	261.03	260.90	261.79	262.26	262.03	261.41	260.61	260.38	260.90		260.43	
30	260.63	261.13	260.85	261.83	262.61	262.29	261.37	260.54	260.33	260.90		260.64	
31		261.23		261.69	262.87		261.32		260.25	260.88		260.75	
Mean	260.80	261.17	261.29	261.21	261.71	262.25	261.49	261.20	260.44	260.86	260.49	260.32	
Max	261.27	261.56	261.67	261.83	262.87	264.20	262.57	262.13	260.71	261.81	260.85	260.75	264.20
Min	260.45	260.83	260.85	260.40	261.34	261.33	261.11	260.54	260.15	260.25	260.23	260.19	260.15

Annual Max Momentary Gage Height	264.29	m. (MSL.) ,	at 09.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	261.75	m. (MSL.) ,	River Bed	258.73	m. (MSL.)
Left Bank Elevation	267.73	m. (MSL.) ,			
Right Bank Elevation	268.03	m. (MSL.) ,	Drainage Area	14814	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.77	27.00	49.30	21.40	102.00	489.20	165.40	58.00	4.31	1.10	23.50	0.82		
2	0.62	26.30	99.40	15.80	91.60	408.20	143.50	54.40	2.14	1.10	22.10	0.82		
3	0.50	22.10	110.40	10.80	76.00	498.80	111.80	48.40	1.10	1.10	20.00	0.82		
4	0.48	27.00	111.80	7.72	68.80	750.00	103.40	37.60	1.10	1.10	20.00	0.82		
5	0.40	96.80	70.00	8.10	71.20	591.80	96.80	43.00	1.10	1.10	20.00	0.82		
6	6.96	87.70	79.90	6.20	85.10	482.80	91.60	76.00	0.68	1.10	18.80	0.82		
7	29.80	76.00	59.20	5.66	86.40	355.20	92.90	183.40	0.20	1.10	17.00	0.82		
8	50.20	81.20	54.40	3.77	124.40	263.40	92.90	181.60	0.20	1.80	17.00	0.82		
9	58.00	78.60	87.70	3.50	118.80	196.00	90.30	161.80	1.80	1.66	15.80	0.68		
10	47.50	76.00	74.80	8.48	111.80	133.00	86.40	136.00	14.60	6.58	13.60	0.68		
11	28.40	68.80	66.40	49.30	107.60	136.00	77.30	100.70	13.60	131.50	13.60	2.48		
12	24.20	58.00	60.40	59.20	106.20	123.00	67.60	82.50	12.80	107.60	11.20	2.65		
13	20.00	54.40	60.40	68.80	103.40	103.40	61.60	52.00	12.00	92.90	8.10	2.65		
14	16.40	47.50	73.60	90.30	90.30	86.40	58.00	46.60	12.00	55.60	5.39	2.65		
15	36.70	47.50	81.20	99.40	96.80	67.60	55.60	46.60	12.40	56.80	1.52	2.48		
16	59.20	46.60	71.20	124.40	113.20	96.80	53.20	43.00	12.00	52.00	4.31	2.31		
17	60.40	42.10	71.20	100.70	114.60	205.50	50.20	45.70	11.20	45.70	1.10	2.31		
18	42.10	37.60	99.40	74.80	106.20	185.20	47.50	47.50	9.62	44.80	1.10	2.31		
19	25.60	45.70	91.60	114.60	102.00	152.50	46.60	45.70	5.93	43.00	1.10	2.48		
20	18.20	48.40	76.00	81.20	102.00	160.00	46.60	43.00	4.85	41.20	0.96	2.65		
21	13.60	55.60	58.00	94.20	106.20	125.80	50.20	37.60	4.85	38.50	0.82	2.31		
22	12.00	51.10	55.60	92.90	145.00	124.40	52.00	35.80	4.85	38.50	0.82	1.80		
23	14.00	47.50	53.20	79.90	133.00	94.20	43.90	34.00	4.58	37.60	0.82	1.80		
24	28.40	44.80	47.50	70.00	114.60	90.30	130.00	32.60	4.31	34.90	0.82	2.31		
25	16.40	43.00	43.90	73.60	107.60	83.80	269.70	31.20	4.31	30.50	0.96	3.77		
26	18.20	41.20	36.70	82.50	99.40	148.00	181.60	33.30	4.04	30.50	0.82	0.36		
27	10.80	34.00	23.50	83.80	98.10	218.80	128.60	24.90	3.50	30.50	0.82	1.97		
28	8.10	31.20	28.40	116.00	151.00	163.60	98.10	12.00	3.50	29.10	0.82	1.38		
29	8.10	36.70	27.00	128.60	207.40	165.40	77.30	10.40	3.16	27.00		4.31		
30	11.20	45.70	23.50	134.50	278.20	213.10	72.40	7.72	2.31	27.00		11.60		
31		55.60		114.60	335.40		66.40		1.10	25.60		17.00		
Total	667.23	1581.70	1945.60	2024.73	3754.30	6912.20	2809.40	1793.02	174.14	1038.54	242.88	81.50	23025.24	CMSDAY
Mean	22.24	51.02	64.85	65.31	121.11	230.41	90.63	59.77	5.62	33.50	8.67	2.63	63.08	CMS
Max	60.40	96.80	111.80	134.50	335.40	750.00	269.70	183.40	14.60	131.50	23.50	17.00	750.00	CMS
Min	0.40	22.10	23.50	3.50	68.80	67.60	43.90	7.72	0.20	1.10	0.82	0.36	0.20	CMS
Runoff	57.65	136.66	168.10	174.94	324.37	597.21	242.73	154.92	15.05	89.73	20.99	7.04	1989.38	MCM

Momentary Peak 784.20 CMS. at 264.29 m. (MSL.) at 09.00 Hours , on Sep 4 , 2014

Runoff Yield 4.26 Liters/Second/Square KM. Momentary Peak Yield 52.936 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Ping River at Ban Cho Lae , Chiang Mai (P.75)

Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

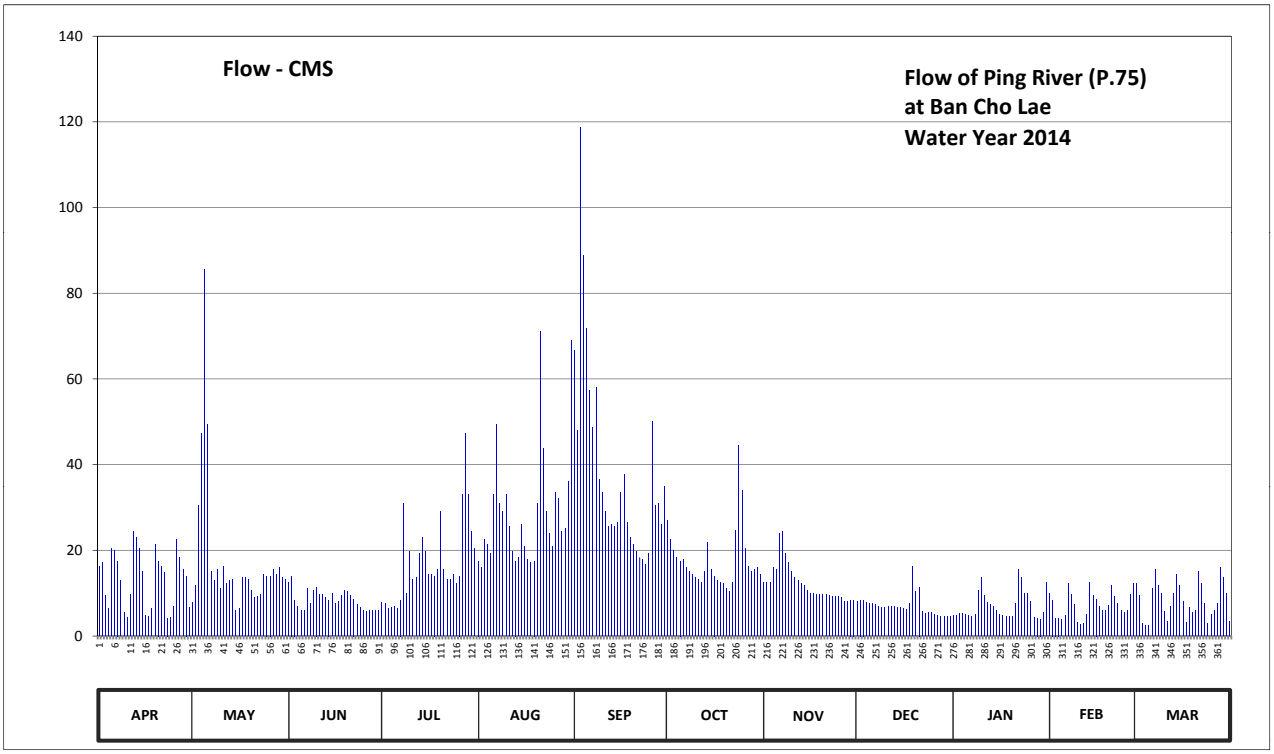
Location : on left bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	338.17	337.92	338.07	337.92	338.20	339.07	338.42	338.07	337.93	337.79	338.00	338.06	
2	338.19	338.05	338.11	337.91	338.16	338.80	338.32	338.07	337.94	337.79	337.94	337.98	
3	337.98	338.49	337.94	337.86	338.32	339.66	338.26	338.07	337.94	337.81	337.76	337.69	
4	337.86	338.79	337.88	337.87	338.29	339.35	338.22	338.16	337.92	337.81	337.76	337.67	
5	338.27	339.31	337.84	337.88	338.24	339.14	338.20	338.15	337.91	337.80	337.74	337.67	
6	338.26	338.82	337.84	337.86	338.54	338.94	338.21	338.35	337.91	337.79	337.79	338.03	
7	338.20	338.14	338.03	337.94	338.82	338.81	338.16	338.36	337.90	337.78	338.06	338.15	
8	338.08	338.08	337.91	338.50	338.50	338.95	338.14	338.24	337.88	337.80	337.99	338.05	
9	337.82	338.15	338.02	338.00	338.46	338.61	338.12	338.19	337.87	338.02	337.90	338.00	
10	337.77	338.03	338.04	338.25	338.54	338.55	338.10	338.14	337.87	338.10	337.71	337.83	
11	337.99	338.17	337.99	338.09	338.39	338.46	338.09	338.10	337.88	337.98	337.68	337.72	
12	338.36	338.06	337.99	338.10	338.25	338.39	338.07	338.08	337.88	337.92	337.69	337.88	
13	338.33	338.08	337.96	338.24	338.20	338.40	338.14	338.06	337.88	337.90	337.80	338.00	
14	338.27	338.09	337.94	338.33	338.22	338.39	338.30	338.05	337.87	337.88	338.07	338.12	
15	338.14	337.84	338.00	338.25	338.40	338.41	338.15	338.02	337.87	337.84	337.98	338.05	
16	337.79	337.86	337.91	338.12	338.28	338.55	338.11	338.00	337.86	337.80	337.95	337.93	
17	337.78	338.10	337.93	338.12	338.21	338.63	338.08	338.00	337.85	337.79	337.88	337.71	
18	337.86	338.10	337.98	338.11	338.19	338.41	338.07	337.99	337.91	337.78	337.84	337.87	
19	338.29	338.09	338.02	338.15	338.20	338.33	338.06	337.99	338.17	337.78	337.84	337.82	
20	338.20	338.02	338.01	338.46	338.50	338.29	338.03	337.99	338.01	337.78	337.89	337.84	
21	338.17	337.96	337.98	338.15	339.13	338.25	338.01	337.99	338.04	337.91	338.05	338.14	
22	338.13	337.97	337.95	338.09	338.73	338.22	338.07	337.98	337.83	338.15	337.97	338.06	
23	337.76	337.99	337.90	338.09	338.46	338.21	338.37	337.97	337.81	338.10	337.91	337.91	
24	337.77	338.12	337.87	338.12	338.35	338.18	338.74	337.97	337.82	338.00	337.84	337.69	
25	337.88	338.11	337.84	338.06	338.28	338.24	338.56	337.97	337.82	338.00	337.82	337.80	
26	338.32	338.11	337.83	338.11	338.55	338.83	338.27	337.96	337.80	337.93	337.84	337.84	
27	338.22	338.15	337.84	338.54	338.52	338.49	338.17	337.93	337.79	337.77	337.99	337.91	
28	338.15	338.12	337.84	338.79	338.36	338.50	338.14	337.93	337.78	337.76	338.06	338.16	
29	338.11	338.16	337.84	338.54	338.38	338.40	338.15	337.94	337.78	337.75		338.10	
30	337.87	338.10	337.84	338.36	338.60	338.58	338.16	337.94	337.78	337.82		338.00	
31		338.09		338.27	339.10		338.12		337.78	338.07		337.72	
Mean	338.07	338.16	337.94	338.16	338.43	338.60	338.19	338.06	337.88	337.88	337.88	337.92	
Max	338.36	339.31	338.11	338.79	339.13	339.66	338.74	338.36	338.17	338.15	338.07	338.16	339.66
Min	337.76	337.84	337.83	337.86	338.16	338.18	338.01	337.93	337.78	337.75	337.68	337.67	337.67

Annual Max Momentary Gage Height	339.83	m. (MSL.) ,	at 17.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	337.60	m. (MSL.) ,	River Bed	337.34	m. (MSL.)
Left Bank Elevation	345.11	m. (MSL.) ,			
Right Bank Elevation	345.16	m. (MSL.) ,	Drainage Area	3088	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.33	7.84	12.52	7.84	17.50	66.72	27.00	12.52	8.11	4.80	10.00	12.16		
2	17.11	11.80	13.99	7.57	15.94	48.00	22.60	12.52	8.38	4.80	8.38	9.46		
3	9.46	30.50	8.38	6.38	22.60	118.65	20.05	12.52	8.38	5.23	4.20	2.84		
4	6.38	47.40	6.84	6.61	21.33	88.85	18.35	15.94	7.84	5.23	4.20	2.52		
5	20.47	85.53	5.92	6.84	19.20	71.93	17.50	15.55	7.57	5.00	3.80	2.52		
6	20.05	49.35	5.92	6.38	33.00	57.45	17.92	23.88	7.57	4.80	4.80	11.08		
7	17.50	15.16	11.08	8.38	49.35	48.68	15.94	24.30	7.30	4.60	12.16	15.55		
8	12.88	12.88	7.57	31.00	31.00	58.13	15.16	19.20	6.84	5.00	9.73	11.80		
9	5.46	15.55	10.72	10.00	29.00	36.60	14.38	17.11	6.61	10.72	7.30	10.00		
10	4.40	11.08	11.44	19.62	33.00	33.50	13.60	15.16	6.61	13.60	3.20	5.69		
11	9.73	16.33	9.73	13.24	25.58	29.00	13.24	13.60	6.84	9.46	2.68	3.40		
12	24.30	12.16	9.73	13.60	19.62	25.58	12.52	12.88	6.84	7.84	2.84	6.84		
13	23.02	12.88	8.92	19.20	17.50	26.00	15.16	12.16	6.84	7.30	5.00	10.00		
14	20.47	13.24	8.38	23.02	18.35	25.58	21.75	11.80	6.61	6.84	12.52	14.38		
15	15.16	5.92	10.00	19.62	26.00	26.50	15.55	10.72	6.61	5.92	9.46	11.80		
16	4.80	6.38	7.57	14.38	20.90	33.50	13.99	10.00	6.38	5.00	8.65	8.11		
17	4.60	13.60	8.11	14.38	17.92	37.80	12.88	10.00	6.15	4.80	6.84	3.20		
18	6.38	13.60	9.46	13.99	17.11	26.50	12.52	9.73	7.57	4.60	5.92	6.61		
19	21.33	13.24	10.72	15.55	17.50	23.02	12.16	9.73	16.33	4.60	5.92	5.46		
20	17.50	10.72	10.36	29.00	31.00	21.33	11.08	9.73	10.36	4.60	7.07	5.92		
21	16.33	8.92	9.46	15.55	71.18	19.62	10.36	9.73	11.44	7.57	11.80	15.16		
22	14.77	9.19	8.65	13.24	43.80	18.35	12.52	9.46	5.69	15.55	9.19	12.16		
23	4.20	9.73	7.30	13.24	29.00	17.92	24.72	9.19	5.23	13.60	7.57	7.57		
24	4.40	14.38	6.61	14.38	23.88	16.72	44.40	9.19	5.46	10.00	5.92	2.84		
25	6.84	13.99	5.92	12.16	20.90	19.20	34.00	9.19	5.46	10.00	5.46	5.00		
26	22.60	13.99	5.69	13.99	33.50	50.02	20.47	8.92	5.00	8.11	5.92	5.92		
27	18.35	15.55	5.92	33.00	32.00	30.50	16.33	8.11	4.80	4.40	9.73	7.57		
28	15.55	14.38	5.92	47.40	24.30	31.00	15.16	8.11	4.60	4.20	12.16	15.94		
29	13.99	15.94	5.92	33.00	25.15	26.00	15.55	8.38	4.60	4.00		13.60		
30	6.61	13.60	5.92	24.30	36.00	35.00	15.94	8.38	4.60	5.46		10.00		
31		13.24		20.47	68.95		14.38		4.60	12.52		3.40		
Total	400.97	548.07	254.67	527.33	892.06	1167.65	547.18	367.71	217.22	220.15	202.42	258.50	5603.93	CMSDAY
Mean	13.37	17.68	8.49	17.01	28.78	38.92	17.65	12.26	7.01	7.10	7.23	8.34	15.35	CMS
Max	24.30	85.53	13.99	47.40	71.18	118.65	44.40	24.30	16.33	15.55	12.52	15.94	118.65	CMS
Min	4.20	5.92	5.69	6.38	15.94	16.72	10.36	8.11	4.60	4.00	2.68	2.52	2.52	CMS
Runoff	34.64	47.35	22.00	45.56	77.07	100.89	47.28	31.77	18.77	19.02	17.49	22.33	484.18	MCM

Momentary Peak 136.15 CMS. at 339.83 m. (MSL.) at 17.00 Hours , on Sep 3 , 2014

Runoff Yield 4.97 Liters/Second/Square KM. Momentary Peak Yield 44.090 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

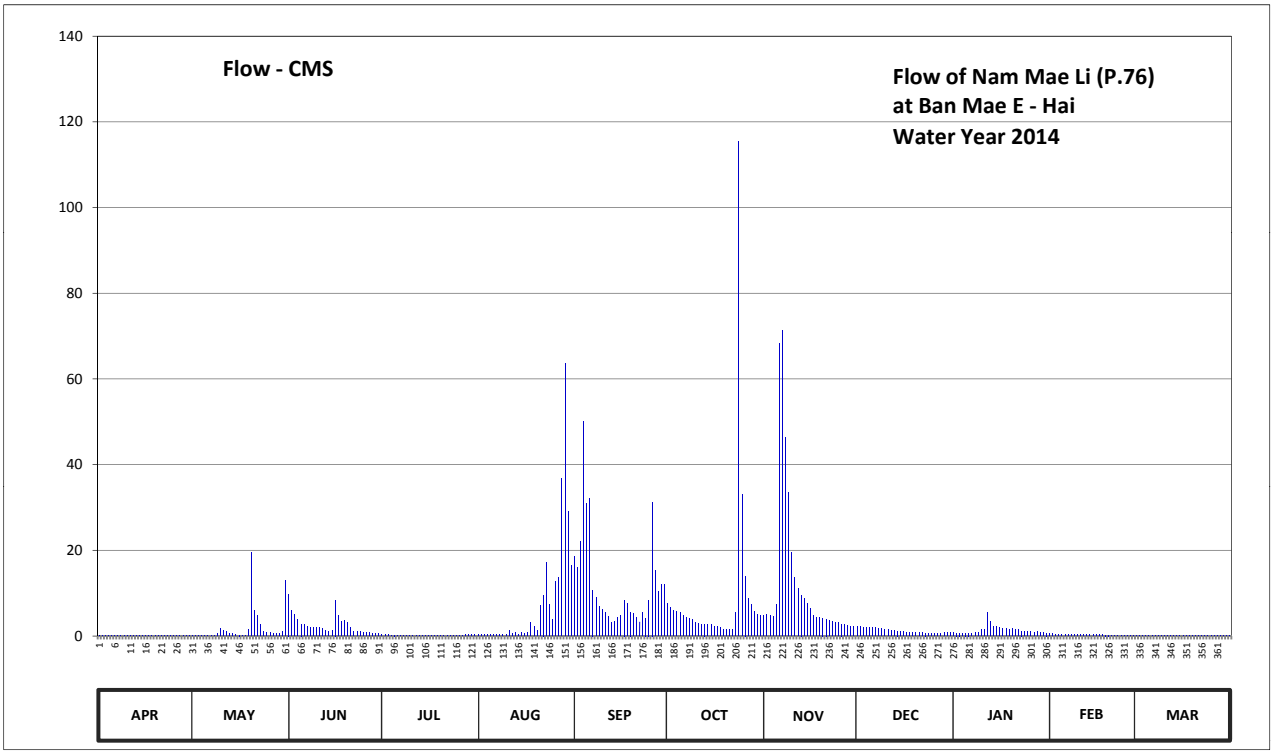
Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.13	364.14	365.19	364.30	364.25	365.50	365.08	364.85	364.58	364.37	364.35	364.17	
2	364.14	364.13	364.96	364.27	364.26	365.43	365.02	364.87	364.58	364.36	364.33	364.15	
3	364.14	364.14	364.87	364.25	364.25	365.60	364.97	364.86	364.57	364.36	364.31	364.15	
4	364.12	364.14	364.76	364.23	364.25	366.22	364.94	364.82	364.56	364.35	364.30	364.15	
5	364.12	364.14	364.65	364.24	364.25	365.83	364.91	365.06	364.56	364.36	364.29	364.15	
6	364.13	364.14	364.64	364.23	364.26	365.86	364.84	366.54	364.56	364.36	364.28	364.15	
7	364.12	364.14	364.59	364.23	364.26	365.23	364.80	366.59	364.56	364.35	364.29	364.15	
8	364.12	364.14	364.57	364.22	364.26	365.15	364.78	366.15	364.53	364.37	364.28	364.14	
9	364.13	364.33	364.57	364.23	364.25	365.04	364.75	365.89	364.53	364.39	364.27	364.14	
10	364.12	364.52	364.55	364.23	364.27	364.98	364.69	365.53	364.51	364.50	364.27	364.15	
11	364.14	364.47	364.55	364.23	364.47	364.92	364.66	365.35	364.49	364.51	364.26	364.15	
12	364.14	364.41	364.52	364.21	364.35	364.83	364.64	365.24	364.47	364.91	364.26	364.15	
13	364.15	364.34	364.48	364.18	364.37	364.69	364.65	365.18	364.46	364.71	364.27	364.15	
14	364.14	364.32	364.43	364.17	364.25	364.71	364.64	365.14	364.45	364.59	364.25	364.16	
15	364.14	364.28	364.48	364.18	364.38	364.81	364.63	365.08	364.43	364.58	364.26	364.16	
16	364.15	364.24	365.12	364.19	364.35	364.86	364.60	365.01	364.41	364.55	364.25	364.15	
17	364.14	364.23	364.84	364.17	364.40	365.12	364.59	364.85	364.39	364.53	364.25	364.16	
18	364.15	364.23	364.71	364.18	364.68	365.07	364.55	364.80	364.39	364.53	364.25	364.15	
19	364.14	364.50	364.74	364.18	364.58	364.93	364.49	364.81	364.38	364.51	364.24	364.15	
20	364.14	365.53	364.69	364.19	364.46	364.89	364.50	364.79	364.40	364.52	364.24	364.15	
21	364.14	364.97	364.57	364.19	365.05	364.81	364.50	364.77	364.38	364.51	364.22	364.16	
22	364.14	364.86	364.44	364.19	365.18	364.70	364.49	364.74	364.37	364.49	364.20	364.16	
23	364.14	364.63	364.44	364.20	365.46	364.91	364.92	364.71	364.36	364.45	364.20	364.16	
24	364.14	364.41	364.41	364.18	365.06	364.79	367.15	364.69	364.35	364.43	364.20	364.16	
25	364.14	364.40	364.40	364.19	364.75	365.12	365.88	364.68	364.34	364.44	364.19	364.16	
26	364.14	364.38	364.40	364.22	365.31	365.84	365.36	364.65	364.33	364.41	364.19	364.16	
27	364.14	364.34	364.37	364.23	365.35	365.41	365.14	364.63	364.32	364.40	364.18	364.16	
28	364.13	364.33	364.35	364.25	365.96	365.22	365.06	364.62	364.35	364.41	364.17	364.16	
29	364.14	364.33	364.35	364.26	366.46	365.28	364.95	364.60	364.37	364.39		364.17	
30	364.14	364.44	364.32	364.26	365.79	365.28	364.87	364.59	364.37	364.37		364.17	
31		365.32		364.25	365.44		364.84		364.37	364.36		364.17	
Mean	364.14	364.42	364.60	364.22	364.73	365.17	364.90	365.07	364.44	364.46	364.25	364.16	
Max	364.15	365.53	365.19	364.30	366.46	366.22	367.15	366.59	364.58	364.91	364.35	364.17	367.15
Min	364.12	364.13	364.32	364.17	364.25	364.69	364.49	364.59	364.32	364.35	364.17	364.14	364.12

Annual Max Momentary Gage Height	367.90	m. (MSL.) ,	at 07.00 Hours , on Oct 24 , 2014		
Zero Gage at Bottom Elevation	363.62	m. (MSL.) ,	River Bed	363.08	m. (MSL.)
Left Bank Elevation	371.47	m. (MSL.) ,			
Right Bank Elevation	371.47	m. (MSL.) ,	Drainage Area	1544	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.09	9.80	0.40	0.28	18.50	7.66	4.80	2.14	0.75	0.65	0.12		
2	0.09	0.08	5.90	0.32	0.30	16.05	6.64	5.00	2.14	0.70	0.55	0.10		
3	0.09	0.09	5.00	0.28	0.28	22.00	6.00	4.90	2.06	0.70	0.45	0.10		
4	0.07	0.09	3.90	0.23	0.28	50.10	5.70	4.50	1.98	0.65	0.40	0.10		
5	0.07	0.09	2.80	0.25	0.28	30.85	5.40	7.32	1.98	0.70	0.38	0.10		
6	0.08	0.09	2.70	0.23	0.30	32.20	4.70	68.40	1.98	0.70	0.35	0.10		
7	0.07	0.09	2.22	0.23	0.30	10.75	4.30	71.40	1.98	0.65	0.38	0.10		
8	0.07	0.09	2.06	0.20	0.30	9.00	4.10	46.37	1.74	0.75	0.35	0.09		
9	0.08	0.55	2.06	0.23	0.28	6.98	3.80	33.55	1.74	0.85	0.32	0.09		
10	0.07	1.66	1.90	0.23	0.32	6.10	3.20	19.55	1.58	1.50	0.32	0.10		
11	0.09	1.32	1.90	0.23	1.32	5.50	2.90	13.75	1.44	1.58	0.30	0.10		
12	0.09	0.96	1.66	0.17	0.65	4.60	2.70	11.00	1.32	5.40	0.30	0.10		
13	0.10	0.60	1.38	0.13	0.75	3.20	2.80	9.60	1.26	3.40	0.32	0.10		
14	0.09	0.50	1.08	0.12	0.28	3.40	2.70	8.80	1.20	2.22	0.28	0.11		
15	0.09	0.35	1.38	0.13	0.80	4.40	2.60	7.66	1.08	2.14	0.30	0.11		
16	0.10	0.25	8.40	0.14	0.65	4.90	2.30	6.47	0.96	1.90	0.28	0.10		
17	0.09	0.23	4.70	0.12	0.90	8.40	2.22	4.80	0.85	1.74	0.28	0.11		
18	0.10	0.23	3.40	0.13	3.10	7.49	1.90	4.30	0.85	1.74	0.28	0.10		
19	0.09	1.50	3.70	0.13	2.14	5.60	1.44	4.40	0.80	1.58	0.25	0.10		
20	0.09	19.55	3.20	0.14	1.26	5.20	1.50	4.20	0.90	1.66	0.25	0.10		
21	0.09	6.00	2.06	0.14	7.15	4.40	1.50	4.00	0.80	1.58	0.20	0.11		
22	0.09	4.90	1.14	0.14	9.60	3.30	1.44	3.70	0.75	1.44	0.15	0.11		
23	0.09	2.60	1.14	0.15	17.10	5.40	5.50	3.40	0.70	1.20	0.15	0.11		
24	0.09	0.96	0.96	0.13	7.32	4.20	115.37	3.20	0.65	1.08	0.15	0.11		
25	0.09	0.90	0.90	0.14	3.80	8.40	33.10	3.10	0.60	1.14	0.14	0.11		
26	0.09	0.80	0.90	0.20	12.75	31.30	14.00	2.80	0.55	0.96	0.14	0.11		
27	0.09	0.60	0.75	0.23	13.75	15.35	8.80	2.60	0.50	0.90	0.13	0.11		
28	0.08	0.55	0.65	0.28	36.70	10.50	7.32	2.50	0.65	0.96	0.12	0.11		
29	0.09	0.55	0.65	0.30	63.60	12.00	5.80	2.30	0.75	0.85		0.12		
30	0.09	1.14	0.50	0.30	29.13	12.00	5.00	2.22	0.75	0.75		0.12		
31		13.00		0.28	16.40		4.70		0.75	0.70		0.12		
Total	2.59	60.41	78.79	6.33	232.07	362.07	277.09	370.59	37.43	42.87	8.17	3.27	1481.68	CMSDAY
Mean	0.09	1.95	2.63	0.20	7.49	12.07	8.94	12.35	1.21	1.38	0.29	0.11	4.06	CMS
Max	0.10	19.55	9.80	0.40	63.60	50.10	115.37	71.40	2.14	5.40	0.65	0.12	115.37	CMS
Min	0.07	0.08	0.50	0.12	0.28	3.20	1.44	2.22	0.50	0.65	0.12	0.09	0.07	CMS
Runoff	0.22	5.22	6.81	0.55	20.05	31.28	23.94	32.02	3.23	3.70	0.71	0.28	128.02	MCM

Momentary Peak 194.50 CMS. at 367.90 m. (MSL.) at 07.00 Hours , on Oct 24 , 2014

Runoff Yield 2.63 Liters/Second/Square KM. Momentary Peak Yield 125.972 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

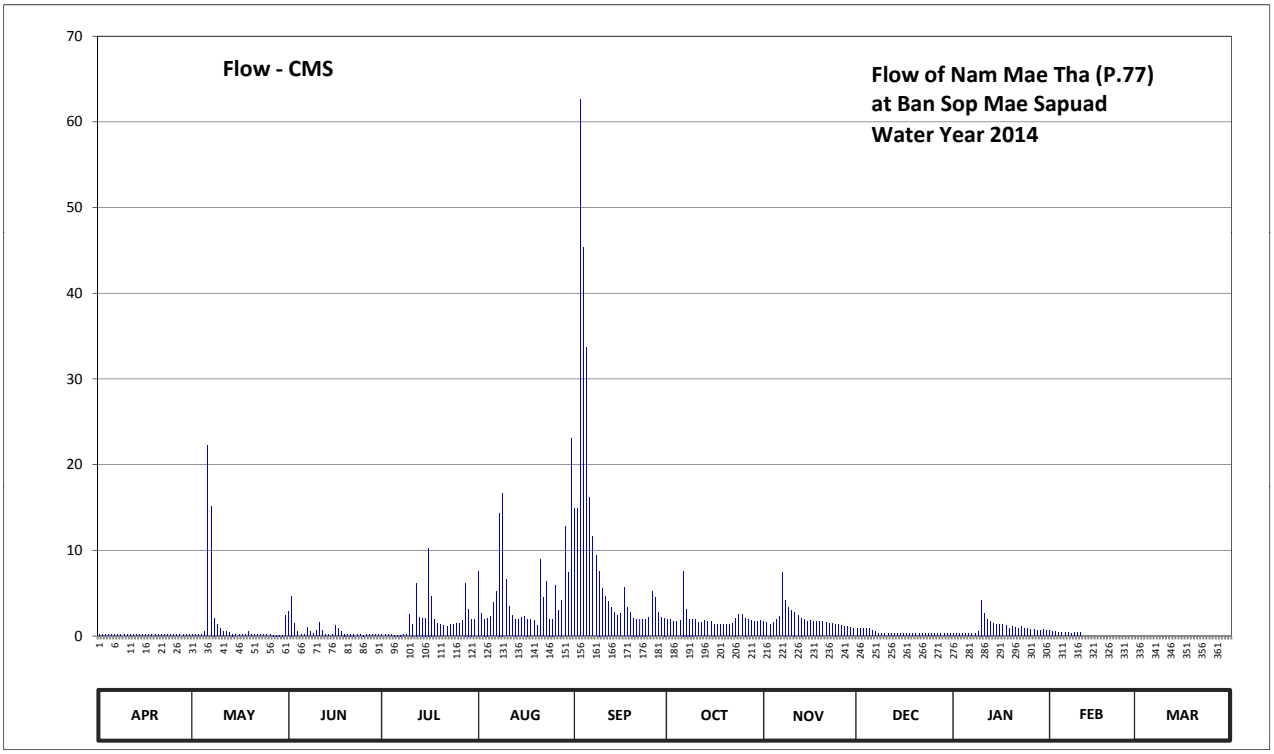
Location : on left bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.57	365.57	365.89	365.56	366.17	366.48	365.79	365.77	365.69	365.62	365.66	366.16	
2	365.57	365.58	366.01	365.55	365.86	366.48	365.79	365.76	365.69	365.62	365.65	366.16	
3	365.57	365.59	365.75	365.54	365.80	367.75	365.77	365.74	365.69	365.62	365.64	366.16	
4	365.57	365.58	365.65	365.54	365.81	367.36	365.77	365.76	365.68	365.62	365.63	366.15	
5	365.56	365.65	365.59	365.52	365.83	367.07	365.78	365.79	365.68	365.62	365.63	366.15	
6	365.57	366.74	365.58	365.51	365.96	366.53	366.17	365.83	365.66	365.62	365.63	366.15	
7	365.56	366.49	365.70	365.51	366.04	366.35	365.91	366.16	365.64	365.62	365.63	366.15	
8	365.55	365.81	365.64	365.53	366.46	366.25	365.80	365.98	365.62	365.62	365.62	366.15	
9	365.55	365.73	365.62	365.60	366.55	366.17	365.80	365.92	365.62	365.64	365.63	366.15	
10	365.55	365.68	365.66	365.85	366.12	366.06	365.79	365.90	365.62	365.98	365.63	366.14	
11	365.55	365.65	365.76	365.74	365.93	366.01	365.76	365.88	365.62	365.86	365.63	366.15	
12	365.56	365.64	365.66	366.10	365.84	365.97	365.76	365.84	365.62	365.80	365.65	366.13	
13	365.55	365.63	365.59	365.82	365.80	365.92	365.78	365.81	365.62	365.77	365.69	366.12	
14	365.56	365.61	365.59	365.81	365.79	365.87	365.77	365.79	365.62	365.75	365.74	366.13	
15	365.58	365.59	365.60	365.81	365.82	365.84	365.77	365.77	365.62	365.73	365.77	366.12	
16	365.60	365.58	365.72	366.29	365.83	365.86	365.74	365.78	365.62	365.73	365.86	366.13	
17	365.59	365.56	365.69	366.01	365.80	366.07	365.73	365.77	365.62	365.73	365.91	366.13	
18	365.59	365.57	365.64	365.80	365.79	365.92	365.73	365.77	365.62	365.72	365.94	366.11	
19	365.59	365.65	365.61	365.75	365.78	365.87	365.73	365.77	365.62	365.68	365.96	366.11	
20	365.59	365.56	365.60	365.73	365.72	365.81	365.73	365.77	365.62	365.71	366.01	366.10	
21	365.59	365.56	365.61	365.72	366.23	365.80	365.73	365.76	365.62	365.70	366.11	366.10	
22	365.59	365.56	365.61	365.71	366.00	365.80	365.75	365.75	365.62	365.69	366.13	366.14	
23	365.59	365.56	365.58	365.73	366.11	365.80	365.81	365.75	365.62	365.71	366.13	366.15	
24	365.59	365.55	365.56	365.73	365.80	365.80	365.85	365.74	365.62	365.69	366.14	366.15	
25	365.59	365.55	365.49	365.75	365.80	365.82	365.85	365.73	365.62	365.68	366.15	366.13	
26	365.53	365.53	365.55	365.75	366.08	366.04	365.81	365.72	365.62	365.67	366.16	366.13	
27	365.60	365.51	365.56	365.78	365.90	366.00	365.79	365.71	365.62	365.67	366.19	366.13	
28	365.59	365.51	365.56	366.10	365.98	365.87	365.78	365.71	365.62	365.66	366.18	366.13	
29	365.58	365.51	365.56	365.91	366.40	365.82	365.77	365.70	365.62	365.66		366.13	
30	365.57	365.46	365.54	365.80	366.16	365.81	365.77	365.68	365.62	365.67		366.13	
31		365.84		365.79	366.77		365.78		365.62	365.66		366.13	
Mean	365.57	365.66	365.64	365.75	366.00	366.14	365.79	365.79	365.63	365.69	365.85	366.14	
Max	365.60	366.74	366.01	366.29	366.77	367.75	366.17	366.16	365.69	365.98	366.19	366.16	367.75
Min	365.53	365.46	365.49	365.51	365.72	365.80	365.73	365.68	365.62	365.62	365.62	366.10	365.46

Annual Max Momentary Gage Height	368.71	m. (MSL.) ,	at 04.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	364.38	m. (MSL.) ,	River Bed	365.29	m. (MSL.)
Left Bank Elevation	370.12	m. (MSL.) ,			
Right Bank Elevation	374.22	m. (MSL.) ,	Drainage Area	550	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.14	2.90	0.14	7.60	14.88	1.90	1.70	0.91	0.32	0.66	0.00		
2	0.14	0.15	4.67	0.14	2.60	14.88	1.90	1.60	0.91	0.32	0.57	0.00		
3	0.14	0.15	1.50	0.14	2.00	62.65	1.70	1.40	0.91	0.32	0.49	0.00		
4	0.14	0.15	0.57	0.14	2.10	45.36	1.70	1.60	0.83	0.32	0.40	0.00		
5	0.14	0.57	0.15	0.13	2.30	33.73	1.80	1.90	0.83	0.32	0.40	0.00		
6	0.14	22.20	0.15	0.13	3.90	16.18	7.60	2.30	0.66	0.32	0.40	0.00		
7	0.14	15.14	1.00	0.13	5.18	11.65	3.15	7.40	0.49	0.32	0.40	0.00		
8	0.14	2.10	0.49	0.14	14.36	9.35	2.00	4.20	0.32	0.32	0.32	0.00		
9	0.14	1.30	0.32	0.15	16.70	7.60	2.00	3.30	0.32	0.49	0.40	0.00		
10	0.14	0.83	0.66	2.50	6.60	5.52	1.90	3.00	0.32	4.20	0.40	0.00		
11	0.14	0.57	1.60	1.40	3.45	4.67	1.60	2.80	0.32	2.60	0.40	0.00		
12	0.14	0.49	0.66	6.20	2.40	4.05	1.60	2.40	0.32	2.00	0.00	0.00		
13	0.14	0.40	0.15	2.20	2.00	3.30	1.80	2.10	0.32	1.70	0.00	0.00		
14	0.14	0.23	0.15	2.10	1.90	2.70	1.70	1.90	0.32	1.50	0.00	0.00		
15	0.15	0.15	0.15	2.10	2.20	2.40	1.70	1.70	0.32	1.30	0.00	0.00		
16	0.15	0.15	1.20	10.27	2.30	2.60	1.40	1.80	0.32	1.30	0.00	0.00		
17	0.15	0.14	0.91	4.67	2.00	5.69	1.30	1.70	0.32	1.30	0.00	0.00		
18	0.15	0.14	0.49	2.00	1.90	3.30	1.30	1.70	0.32	1.20	0.00	0.00		
19	0.15	0.57	0.23	1.50	1.80	2.70	1.30	1.70	0.32	0.83	0.00	0.00		
20	0.15	0.14	0.15	1.30	1.20	2.10	1.30	1.70	0.32	1.10	0.00	0.00		
21	0.15	0.14	0.23	1.20	8.89	2.00	1.30	1.60	0.32	1.00	0.00	0.00		
22	0.15	0.14	0.23	1.10	4.50	2.00	1.50	1.50	0.32	0.91	0.00	0.00		
23	0.15	0.14	0.15	1.30	6.40	2.00	2.10	1.50	0.32	1.10	0.00	0.00		
24	0.15	0.14	0.14	1.30	2.00	2.00	2.50	1.40	0.32	0.91	0.00	0.00		
25	0.15	0.14	0.13	1.50	2.00	2.20	2.50	1.30	0.32	0.83	0.00	0.00		
26	0.14	0.14	0.14	1.50	5.86	5.18	2.10	1.20	0.32	0.75	0.00	0.00		
27	0.15	0.13	0.14	1.80	3.00	4.50	1.90	1.10	0.32	0.75	0.00	0.00		
28	0.15	0.13	0.14	6.20	4.20	2.70	1.80	1.10	0.32	0.66	0.00	0.00		
29	0.15	0.13	0.14	3.15	12.80	2.20	1.70	1.00	0.32	0.66		0.00		
30	0.14	0.12	0.14	2.00	7.40	2.10	1.70	0.83	0.32	0.75		0.00		
31		2.40		1.90	23.10		1.80		0.32	0.66		0.00		
Total	4.34	49.46	19.68	60.43	164.64	282.19	61.55	60.43	13.22	31.06	4.84	0.00	751.84	CMSDAY
Mean	0.14	1.60	0.66	1.95	5.31	9.41	1.99	2.01	0.43	1.00	0.17	0.00	2.06	CMS
Max	0.15	22.20	4.67	10.27	23.10	62.65	7.60	7.40	0.91	4.20	0.66	0.00	62.65	CMS
Min	0.14	0.12	0.13	0.13	1.20	2.00	1.30	0.83	0.32	0.32	0.00	0.00	0.00	CMS
Runoff	0.38	4.27	1.70	5.22	14.23	24.38	5.32	5.22	1.14	2.68	0.42	0.00	64.96	MCM

Momentary Peak 115.32 CMS. at 368.71 m. (MSL.) at 04.00 Hours , on Sep 3 , 2014

Runoff Yield 3.75 Liters/Second/Square KM. Momentary Peak Yield 209.673 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

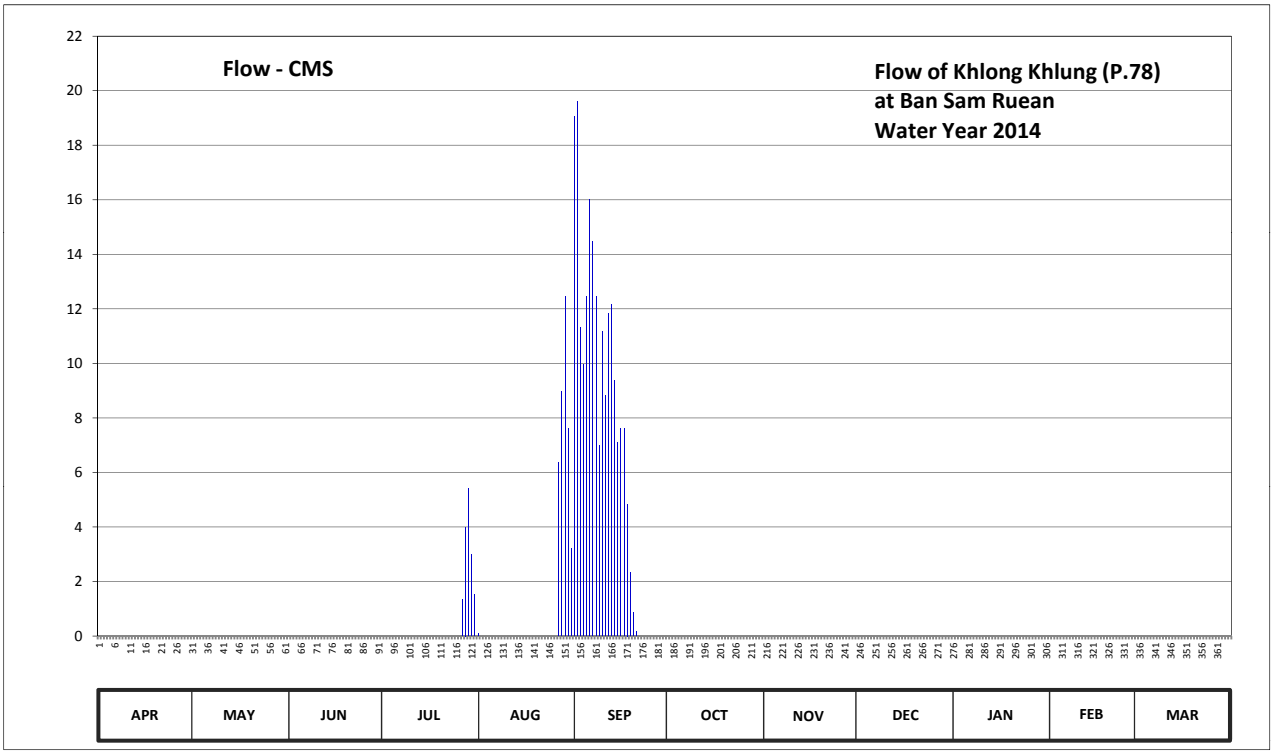
Location : on left bank at Ban Sam Ruean.

	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 Flot	-		
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 4 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.36	66.36	66.36	66.16	66.20	67.85	66.13	66.13	66.13	66.13	66.13	66.13	
2	66.36	66.36	66.36	65.68	65.79	67.88	66.13	66.13	66.13	66.13	66.13	66.13	
3	66.36	66.36	66.36	65.57	65.57	67.42	66.13	66.13	66.13	66.13	66.13	66.13	
4	66.36	66.36	66.36	65.57	65.57	67.33	66.13	66.13	66.13	66.13	66.13	66.13	
5	66.36	66.36	66.36	65.57	65.57	67.49	66.13	66.13	66.13	66.13	66.13	66.13	
6	66.36	66.36	66.36	65.57	65.57	67.69	66.13	66.13	66.13	66.13	66.13	66.13	
7	66.36	66.36	66.36	65.57	65.57	67.61	66.13	66.13	66.13	66.13	66.13	66.13	
8	66.36	66.36	66.36	65.57	65.57	67.49	66.13	66.13	66.13	66.13	66.13	66.13	
9	66.36	66.36	66.36	65.57	65.57	67.11	66.13	66.13	66.13	66.13	66.13	66.13	
10	66.36	66.36	66.36	65.57	65.57	67.41	66.13	66.13	66.13	66.13	66.13	66.13	
11	66.36	66.36	66.36	65.57	65.57	67.25	66.13	66.13	66.13	66.13	66.13	66.13	
12	66.36	66.36	66.36	65.57	65.57	67.45	66.13	66.13	66.13	66.13	66.13	66.13	
13	66.36	66.36	66.36	65.57	65.57	67.47	66.13	66.13	66.13	66.13	66.13	66.13	
14	66.36	66.36	66.36	65.57	65.57	67.29	66.13	66.13	66.13	66.13	66.13	66.13	
15	66.36	66.36	66.36	65.57	65.57	67.12	66.13	66.13	66.13	66.13	66.13	66.13	
16	66.36	66.36	66.36	65.57	65.57	67.16	66.13	66.13	66.13	66.13	66.13	66.13	
17	66.36	66.36	66.36	65.57	65.57	67.16	66.13	66.13	66.13	66.13	66.13	66.13	
18	66.36	66.36	66.36	65.57	65.57	66.93	66.13	66.13	66.13	66.13	66.13	66.13	
19	66.36	66.36	66.36	65.57	65.57	66.68	66.13	66.13	66.13	66.13	66.13	66.13	
20	66.36	66.36	66.36	65.57	65.57	66.45	66.13	66.13	66.13	66.13	66.13	66.13	
21	66.36	66.36	66.36	65.57	65.57	66.27	66.13	66.13	66.13	66.13	66.13	66.13	
22	66.36	66.36	66.36	65.57	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
23	66.36	66.36	66.36	65.57	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
24	66.36	66.36	66.36	65.57	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
25	66.36	66.36	66.36	65.57	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
26	66.36	66.36	66.36	65.78	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
27	66.36	66.36	66.36	66.54	67.06	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
28	66.36	66.36	66.36	66.85	67.26	66.13	66.13	66.13	66.13	66.13	66.13	66.13	
29	66.36	66.36	66.36	66.98	67.49	66.13	66.13	66.13	66.13	66.13		66.13	
30	66.36	66.36	66.36	66.75	67.16	66.13	66.13	66.13	66.13	66.13		66.13	
31		66.36		66.57	66.77		66.13		66.13	66.13		66.13	
Mean	66.36	66.36	66.36	65.79	65.85	66.92	66.13	66.13	66.13	66.13	66.13	66.13	
Max	66.36	66.36	66.36	66.98	67.49	67.88	66.13	66.13	66.13	66.13	66.13	66.13	67.88
Min	66.36	66.36	66.36	65.57	65.57	66.13	66.13	66.13	66.13	66.13	66.13	66.13	65.57

Annual Max Momentary Gage Height	67.89	m. (MSL.) ,	at 15.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	65.18	m. (MSL.) ,	River Bed	65.55	m. (MSL.)
Left Bank Elevation	73.22	m. (MSL.) ,			
Right Bank Elevation	73.26	m. (MSL.) ,	Drainage Area	1119	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.10	19.05	0.00	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	19.62	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	11.33	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	9.95	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	12.48	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	16.01	0.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	14.49	0.00	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	12.48	0.00	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	6.98	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	8.82	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	11.82	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	12.16	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	7.11	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	7.63	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	7.63	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	2.34	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	1.34	6.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	4.00	8.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	5.42	12.48	0.00	0.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	3.00	7.63	0.00	0.00	0.00	0.00	0.00		0.00		
31		0.00		1.52	3.20		0.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	15.28	38.74	206.29	0.00	0.00	0.00	0.00	0.00	0.00	260.31	CMSDAY
Mean	0.00	0.00	0.00	0.49	1.25	6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.71	CMS
Max	0.00	0.00	0.00	5.42	12.48	19.62	0.00	0.00	0.00	0.00	0.00	0.00	19.62	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	0.00	0.00	0.00	1.32	3.35	17.82	0.00	0.00	0.00	0.00	0.00	0.00	22.49	MCM

Momentary Peak 19.81 CMS. at 67.89 m. (MSL.) at 15.00 Hours , on Sep 2 , 2014

Runoff Yield 0.64 Liters/Second/Square KM. Momentary Peak Yield 17.703 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

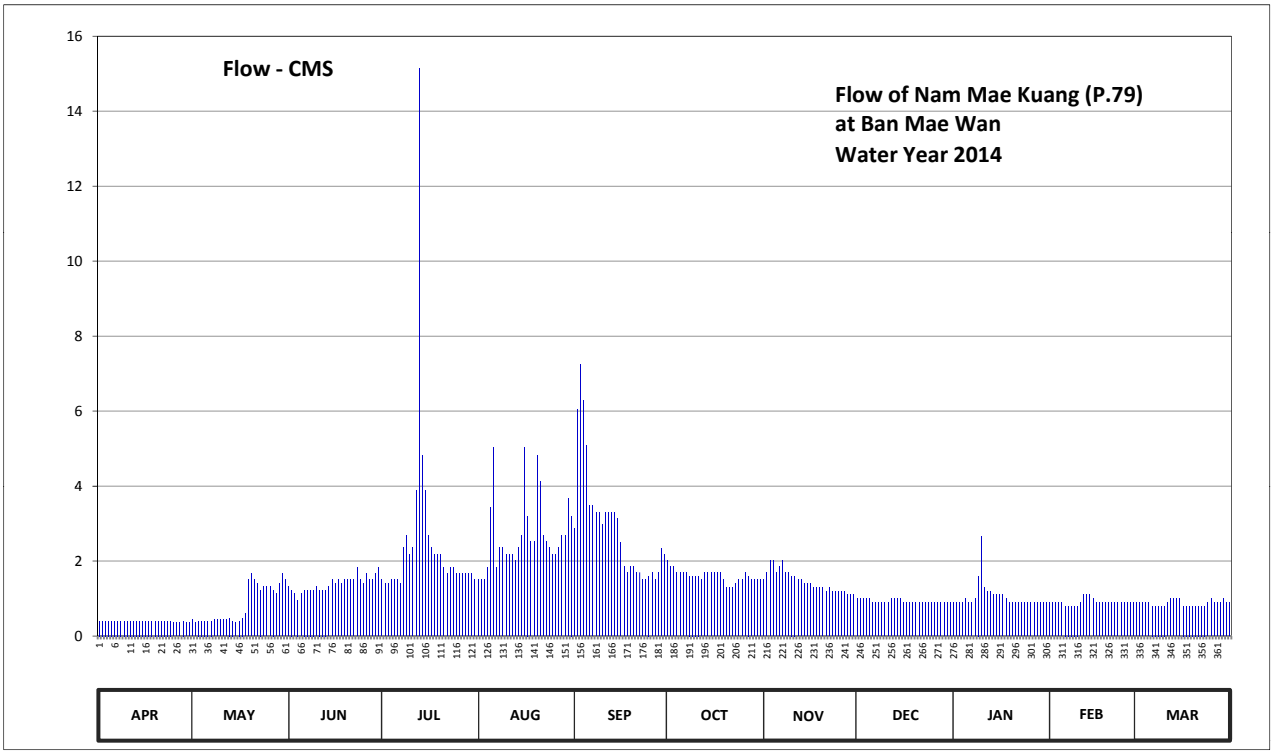
Location : on left bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.65	442.66	442.78	442.80	442.80	442.88	442.62	442.58	442.53	442.52	442.52	442.52	
2	442.65	442.64	442.77	442.79	442.80	443.02	442.61	442.60	442.53	442.52	442.52	442.52	
3	442.65	442.65	442.76	442.79	442.80	442.89	442.61	442.62	442.53	442.52	442.52	442.52	
4	442.65	442.65	442.74	442.80	442.82	442.85	442.60	442.62	442.53	442.52	442.52	442.52	
5	442.65	442.65	442.76	442.80	442.91	442.80	442.60	442.60	442.53	442.53	442.52	442.52	
6	442.65	442.65	442.77	442.80	442.98	442.71	442.60	442.61	442.52	442.52	442.51	442.51	
7	442.65	442.65	442.77	442.79	442.82	442.71	442.60	442.62	442.52	442.52	442.51	442.51	
8	442.65	442.66	442.77	442.85	442.85	442.70	442.59	442.60	442.52	442.53	442.51	442.51	
9	442.65	442.66	442.77	442.87	442.85	442.70	442.59	442.60	442.52	442.59	442.51	442.51	
10	442.65	442.66	442.78	442.84	442.84	442.68	442.59	442.59	442.52	442.66	442.51	442.51	
11	442.65	442.66	442.77	442.85	442.84	442.70	442.59	442.59	442.52	442.56	442.52	442.52	
12	442.65	442.66	442.77	442.93	442.84	442.70	442.58	442.58	442.53	442.55	442.54	442.53	
13	442.65	442.67	442.77	443.28	442.83	442.70	442.60	442.58	442.53	442.55	442.54	442.53	
14	442.65	442.65	442.78	442.97	442.85	442.70	442.60	442.57	442.53	442.54	442.54	442.53	
15	442.65	442.64	442.80	442.93	442.87	442.69	442.60	442.57	442.53	442.54	442.53	442.53	
16	442.65	442.65	442.79	442.87	442.98	442.65	442.60	442.57	442.52	442.54	442.52	442.51	
17	442.65	442.67	442.80	442.85	442.90	442.61	442.60	442.56	442.52	442.54	442.52	442.51	
18	442.65	442.70	442.79	442.84	442.86	442.60	442.60	442.56	442.52	442.53	442.52	442.51	
19	442.65	442.80	442.80	442.84	442.86	442.61	442.58	442.56	442.52	442.52	442.52	442.51	
20	442.65	442.81	442.80	442.84	442.97	442.61	442.56	442.56	442.52	442.52	442.52	442.51	
21	442.65	442.80	442.80	442.82	442.94	442.60	442.56	442.55	442.52	442.52	442.52	442.51	
22	442.65	442.79	442.80	442.81	442.87	442.60	442.56	442.56	442.52	442.52	442.52	442.51	
23	442.65	442.77	442.82	442.82	442.86	442.58	442.57	442.55	442.52	442.52	442.52	442.51	
24	442.65	442.78	442.80	442.82	442.85	442.58	442.58	442.55	442.52	442.52	442.52	442.52	
25	442.64	442.78	442.79	442.81	442.84	442.59	442.58	442.55	442.52	442.52	442.52	442.53	
26	442.64	442.78	442.81	442.81	442.84	442.60	442.60	442.55	442.52	442.52	442.52	442.52	
27	442.64	442.77	442.80	442.81	442.85	442.58	442.59	442.55	442.52	442.52	442.52	442.52	
28	442.65	442.76	442.80	442.81	442.87	442.60	442.58	442.54	442.52	442.52	442.52	442.52	
29	442.64	442.79	442.81	442.81	442.87	442.64	442.58	442.54	442.52	442.52		442.53	
30	442.64	442.81	442.82	442.81	442.92	442.63	442.58	442.54	442.52	442.52		442.52	
31		442.80		442.80	442.90		442.58		442.52	442.52		442.52	
Mean	442.65	442.71	442.79	442.85	442.87	442.68	442.59	442.57	442.52	442.53	442.52	442.52	
Max	442.65	442.81	442.82	443.28	442.98	443.02	442.62	442.62	442.53	442.66	442.54	442.53	443.28
Min	442.64	442.64	442.74	442.79	442.80	442.58	442.56	442.54	442.52	442.52	442.51	442.51	442.51

Annual Max Momentary Gage Height	444.00	m. (MSL.) ,	at 03.00 Hours , on Jul 13 , 2014		
Zero Gage at Bottom Elevation	442.30	m. (MSL.) ,	River Bed	442.27	m. (MSL.)
Left Bank Elevation	446.86	m. (MSL.) ,			
Right Bank Elevation	446.09	m. (MSL.) ,	Drainage Area	136	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.44	1.32	1.50	1.50	2.86	2.02	1.50	1.00	0.90	0.90	0.90		
2	0.40	0.36	1.23	1.41	1.50	6.06	1.86	1.70	1.00	0.90	0.90	0.90		
3	0.40	0.40	1.14	1.41	1.50	7.26	1.86	2.02	1.00	0.90	0.90	0.90		
4	0.40	0.40	0.96	1.50	1.84	6.30	1.70	2.02	1.00	0.90	0.90	0.90		
5	0.40	0.40	1.14	1.50	3.43	5.10	1.70	1.70	1.00	1.00	0.90	0.90		
6	0.40	0.40	1.23	1.50	5.04	3.48	1.70	1.86	0.90	0.90	0.80	0.80		
7	0.40	0.40	1.23	1.41	1.84	3.48	1.70	2.02	0.90	0.90	0.80	0.80		
8	0.40	0.44	1.23	2.35	2.35	3.30	1.60	1.70	0.90	1.00	0.80	0.80		
9	0.40	0.44	1.23	2.69	2.35	3.30	1.60	1.70	0.90	1.60	0.80	0.80		
10	0.40	0.44	1.32	2.18	2.18	2.98	1.60	1.60	0.90	2.66	0.80	0.80		
11	0.40	0.44	1.23	2.35	2.18	3.30	1.60	1.60	0.90	1.30	0.90	0.90		
12	0.40	0.44	1.23	3.89	2.18	3.30	1.50	1.50	1.00	1.20	1.10	1.00		
13	0.40	0.48	1.23	15.14	2.01	3.30	1.70	1.50	1.00	1.20	1.10	1.00		
14	0.40	0.40	1.32	4.81	2.35	3.30	1.70	1.40	1.00	1.10	1.10	1.00		
15	0.40	0.36	1.50	3.89	2.69	3.14	1.70	1.40	1.00	1.10	1.00	1.00		
16	0.40	0.40	1.41	2.69	5.04	2.50	1.70	1.40	0.90	1.10	0.90	0.80		
17	0.40	0.48	1.50	2.35	3.20	1.86	1.70	1.30	0.90	1.10	0.90	0.80		
18	0.40	0.60	1.41	2.18	2.52	1.70	1.70	1.30	0.90	1.00	0.90	0.80		
19	0.40	1.50	1.50	2.18	2.52	1.86	1.50	1.30	0.90	0.90	0.90	0.80		
20	0.40	1.67	1.50	2.18	4.81	1.86	1.30	1.30	0.90	0.90	0.90	0.80		
21	0.40	1.50	1.50	1.84	4.12	1.70	1.30	1.20	0.90	0.90	0.90	0.80		
22	0.40	1.41	1.50	1.67	2.69	1.70	1.30	1.30	0.90	0.90	0.90	0.80		
23	0.40	1.23	1.84	1.84	2.52	1.50	1.40	1.20	0.90	0.90	0.90	0.80		
24	0.40	1.32	1.50	1.84	2.35	1.50	1.50	1.20	0.90	0.90	0.90	0.90		
25	0.36	1.32	1.41	1.67	2.18	1.60	1.50	1.20	0.90	0.90	0.90	1.00		
26	0.36	1.32	1.67	1.67	2.18	1.70	1.70	1.20	0.90	0.90	0.90	0.90		
27	0.36	1.23	1.50	1.67	2.35	1.50	1.60	1.20	0.90	0.90	0.90	0.90		
28	0.40	1.14	1.50	1.67	2.69	1.70	1.50	1.10	0.90	0.90	0.90	0.90		
29	0.36	1.41	1.67	1.67	2.69	2.34	1.50	1.10	0.90	0.90		1.00		
30	0.36	1.67	1.84	1.67	3.66	2.18	1.50	1.10	0.90	0.90		0.90		
31		1.50		1.50	3.20		1.50		0.90	0.90		0.90		
Total	11.80	25.94	41.79	77.82	83.66	87.66	49.74	43.62	28.80	32.46	25.40	27.20	535.89	CMSDAY
Mean	0.39	0.84	1.39	2.51	2.70	2.92	1.60	1.45	0.93	1.05	0.91	0.88	1.47	CMS
Max	0.40	1.67	1.84	15.14	5.04	7.26	2.02	2.02	1.00	2.66	1.10	1.00	15.14	CMS
Min	0.36	0.36	0.96	1.41	1.50	1.50	1.30	1.10	0.90	0.90	0.80	0.80	0.36	CMS
Runoff	1.02	2.24	3.61	6.72	7.23	7.57	4.30	3.77	2.49	2.81	2.20	2.35	46.30	MCM

Momentary Peak 64.50 CMS. at 444.00 m. (MSL.) at 03.00 Hours , on Jul 13 , 2014

Runoff Yield 10.80 Liters/Second/Square KM. Momentary Peak Yield 474.265 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

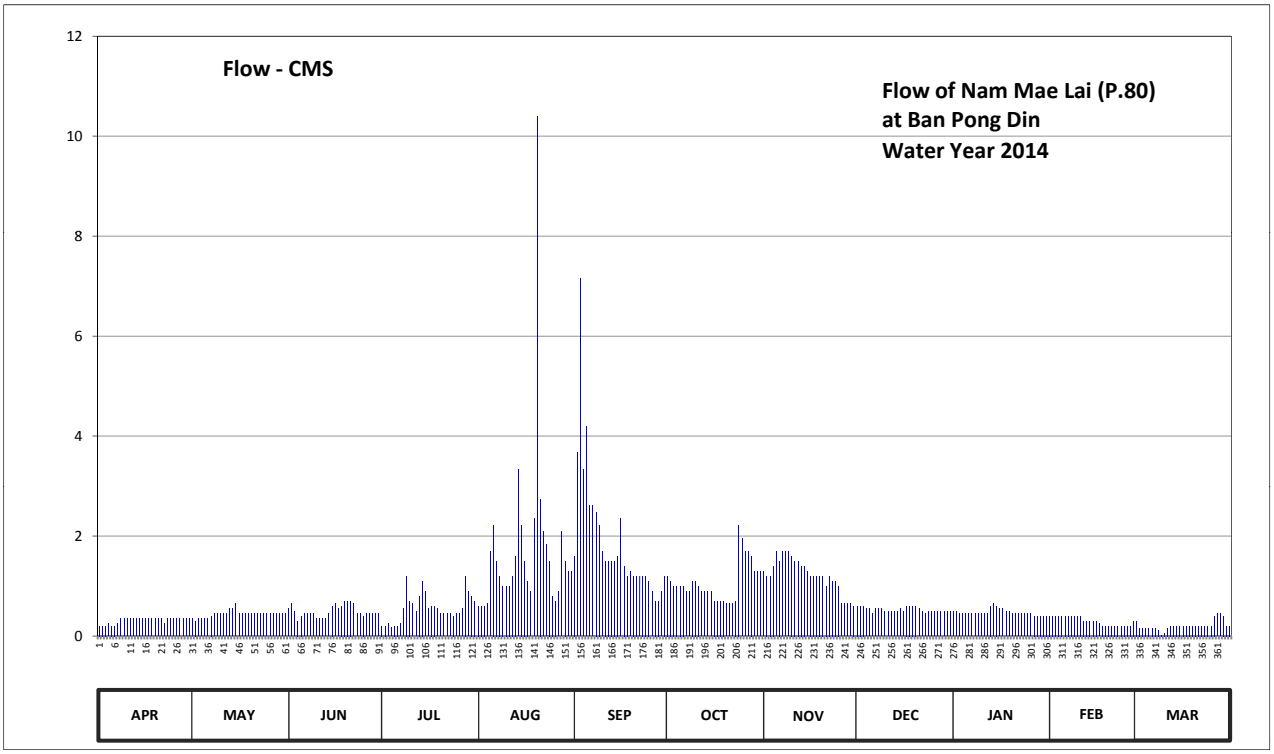
Location : on left bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.40	455.43	455.47	455.40	455.48	455.59	455.55	455.56	455.48	455.46	455.44	455.42	
2	455.40	455.42	455.49	455.40	455.48	455.74	455.54	455.55	455.48	455.46	455.44	455.38	
3	455.40	455.43	455.46	455.41	455.48	455.92	455.53	455.55	455.48	455.45	455.44	455.38	
4	455.41	455.43	455.42	455.39	455.49	455.72	455.53	455.57	455.47	455.45	455.44	455.38	
5	455.40	455.43	455.44	455.40	455.60	455.77	455.53	455.60	455.47	455.45	455.44	455.38	
6	455.40	455.43	455.45	455.40	455.64	455.67	455.53	455.58	455.45	455.45	455.44	455.38	
7	455.41	455.44	455.45	455.41	455.58	455.67	455.52	455.60	455.47	455.45	455.44	455.38	
8	455.43	455.45	455.45	455.47	455.55	455.66	455.52	455.60	455.47	455.45	455.44	455.36	
9	455.43	455.45	455.45	455.55	455.53	455.64	455.54	455.60	455.47	455.45	455.44	455.31	
10	455.43	455.45	455.43	455.50	455.53	455.60	455.54	455.59	455.46	455.45	455.44	455.33	
11	455.43	455.45	455.43	455.49	455.53	455.58	455.53	455.58	455.46	455.45	455.44	455.38	
12	455.43	455.45	455.43	455.46	455.55	455.58	455.52	455.58	455.46	455.45	455.42	455.40	
13	455.43	455.47	455.43	455.51	455.59	455.58	455.52	455.57	455.46	455.48	455.42	455.40	
14	455.43	455.47	455.45	455.54	455.72	455.58	455.52	455.57	455.46	455.49	455.42	455.40	
15	455.43	455.49	455.48	455.52	455.64	455.59	455.52	455.56	455.47	455.48	455.42	455.40	
16	455.43	455.45	455.49	455.47	455.58	455.65	455.50	455.55	455.46	455.47	455.42	455.40	
17	455.43	455.45	455.47	455.48	455.54	455.57	455.50	455.55	455.48	455.47	455.41	455.40	
18	455.43	455.45	455.48	455.48	455.52	455.55	455.50	455.55	455.48	455.46	455.40	455.40	
19	455.43	455.45	455.50	455.47	455.65	455.56	455.50	455.55	455.48	455.46	455.40	455.40	
20	455.43	455.45	455.50	455.45	456.05	455.55	455.49	455.55	455.48	455.45	455.40	455.40	
21	455.43	455.45	455.50	455.45	455.68	455.55	455.49	455.53	455.47	455.45	455.40	455.40	
22	455.41	455.45	455.49	455.45	455.63	455.55	455.49	455.55	455.46	455.45	455.40	455.40	
23	455.43	455.45	455.45	455.45	455.61	455.55	455.50	455.54	455.45	455.45	455.40	455.40	
24	455.43	455.45	455.45	455.44	455.58	455.55	455.64	455.54	455.46	455.45	455.40	455.40	
25	455.43	455.45	455.44	455.45	455.51	455.54	455.62	455.53	455.46	455.45	455.40	455.40	
26	455.43	455.45	455.45	455.45	455.50	455.52	455.60	455.49	455.46	455.45	455.40	455.44	
27	455.43	455.45	455.45	455.47	455.52	455.50	455.60	455.49	455.46	455.44	455.40	455.45	
28	455.43	455.45	455.45	455.55	455.63	455.50	455.59	455.49	455.46	455.44	455.42	455.45	
29	455.43	455.45	455.45	455.52	455.58	455.52	455.56	455.49	455.46	455.44		455.44	
30	455.43	455.45	455.45	455.51	455.56	455.55	455.56	455.48	455.46	455.44		455.40	
31		455.45		455.50	455.56		455.56		455.46	455.44		455.40	
Mean	455.42	455.45	455.46	455.47	455.58	455.60	455.54	455.55	455.47	455.45	455.42	455.40	
Max	455.43	455.49	455.50	455.55	456.05	455.92	455.64	455.60	455.48	455.49	455.44	455.45	456.05
Min	455.40	455.42	455.42	455.39	455.48	455.50	455.49	455.48	455.45	455.44	455.40	455.31	455.31

Annual Max Momentary Gage Height	456.60	m. (MSL.) ,	at 04.00 Hours , on Aug 20 , 2014		
Zero Gage at Bottom Elevation	455.10	m. (MSL.) ,	River Bed	455.01	m. (MSL.)
Left Bank Elevation	461.89	m. (MSL.) ,			
Right Bank Elevation	461.92	m. (MSL.) ,	Drainage Area	129	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.35	0.55	0.20	0.60	1.60	1.20	1.30	0.60	0.50	0.40	0.30		
2	0.20	0.30	0.65	0.20	0.60	3.68	1.10	1.20	0.60	0.50	0.40	0.16		
3	0.20	0.35	0.50	0.25	0.60	7.16	1.00	1.20	0.60	0.45	0.40	0.16		
4	0.25	0.35	0.30	0.18	0.65	3.34	1.00	1.40	0.55	0.45	0.40	0.16		
5	0.20	0.35	0.40	0.20	1.70	4.19	1.00	1.70	0.55	0.45	0.40	0.16		
6	0.20	0.35	0.45	0.20	2.22	2.61	1.00	1.50	0.45	0.45	0.40	0.16		
7	0.25	0.40	0.45	0.25	1.50	2.61	0.90	1.70	0.55	0.45	0.40	0.16		
8	0.35	0.45	0.45	0.55	1.20	2.48	0.90	1.70	0.55	0.45	0.40	0.12		
9	0.35	0.45	0.45	1.20	1.00	2.22	1.10	1.70	0.55	0.45	0.40	0.02		
10	0.35	0.45	0.35	0.70	1.00	1.70	1.10	1.60	0.50	0.45	0.40	0.06		
11	0.35	0.45	0.35	0.65	1.00	1.50	1.00	1.50	0.50	0.45	0.40	0.16		
12	0.35	0.45	0.35	0.50	1.20	1.50	0.90	1.50	0.50	0.45	0.30	0.20		
13	0.35	0.55	0.35	0.80	1.60	1.50	0.90	1.40	0.50	0.60	0.30	0.20		
14	0.35	0.55	0.45	1.10	3.34	1.50	0.90	1.40	0.50	0.65	0.30	0.20		
15	0.35	0.65	0.60	0.90	2.22	1.60	0.90	1.30	0.55	0.60	0.30	0.20		
16	0.35	0.45	0.65	0.55	1.50	2.35	0.70	1.20	0.50	0.55	0.30	0.20		
17	0.35	0.45	0.55	0.60	1.10	1.40	0.70	1.20	0.60	0.55	0.25	0.20		
18	0.35	0.45	0.60	0.60	0.90	1.20	0.70	1.20	0.60	0.50	0.20	0.20		
19	0.35	0.45	0.70	0.55	2.35	1.30	0.70	1.20	0.60	0.50	0.20	0.20		
20	0.35	0.45	0.70	0.45	10.40	1.20	0.65	1.20	0.60	0.45	0.20	0.20		
21	0.35	0.45	0.70	0.45	2.74	1.20	0.65	1.00	0.55	0.45	0.20	0.20		
22	0.25	0.45	0.65	0.45	2.09	1.20	0.65	1.20	0.50	0.45	0.20	0.20		
23	0.35	0.45	0.45	0.45	1.83	1.20	0.70	1.10	0.45	0.45	0.20	0.20		
24	0.35	0.45	0.45	0.40	1.50	1.20	2.22	1.10	0.50	0.45	0.20	0.20		
25	0.35	0.45	0.40	0.45	0.80	1.10	1.96	1.00	0.50	0.45	0.20	0.20		
26	0.35	0.45	0.45	0.45	0.70	0.90	1.70	0.65	0.50	0.45	0.20	0.40		
27	0.35	0.45	0.45	0.55	0.90	0.70	1.70	0.65	0.50	0.40	0.20	0.45		
28	0.35	0.45	0.45	1.20	2.09	0.70	1.60	0.65	0.50	0.40	0.30	0.45		
29	0.35	0.45	0.45	0.90	1.50	0.90	1.30	0.65	0.50	0.40		0.40		
30	0.35	0.45	0.45	0.80	1.30	1.20	1.30	0.60	0.50	0.40		0.20		
31		0.45		0.70	1.30		1.30		0.50	0.40		0.20		
Total	9.45	13.65	14.75	17.43	53.43	56.94	33.43	36.70	16.45	14.60	8.45	6.52	281.80	CMSDAY
Mean	0.32	0.44	0.49	0.56	1.72	1.90	1.08	1.22	0.53	0.47	0.30	0.21	0.77	CMS
Max	0.35	0.65	0.70	1.20	10.40	7.16	2.22	1.70	0.60	0.65	0.40	0.45	10.40	CMS
Min	0.20	0.30	0.30	0.18	0.60	0.70	0.65	0.60	0.45	0.40	0.20	0.02	0.02	CMS
Runoff	0.82	1.18	1.27	1.51	4.62	4.92	2.89	3.17	1.42	1.26	0.73	0.56	24.35	MCM

Momentary Peak 30.00 CMS. at 456.60 m. (MSL.) at 04.00 Hours , on Aug 20 , 2014

Runoff Yield 5.99 Liters/Second/Square KM. Momentary Peak Yield 232.558 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

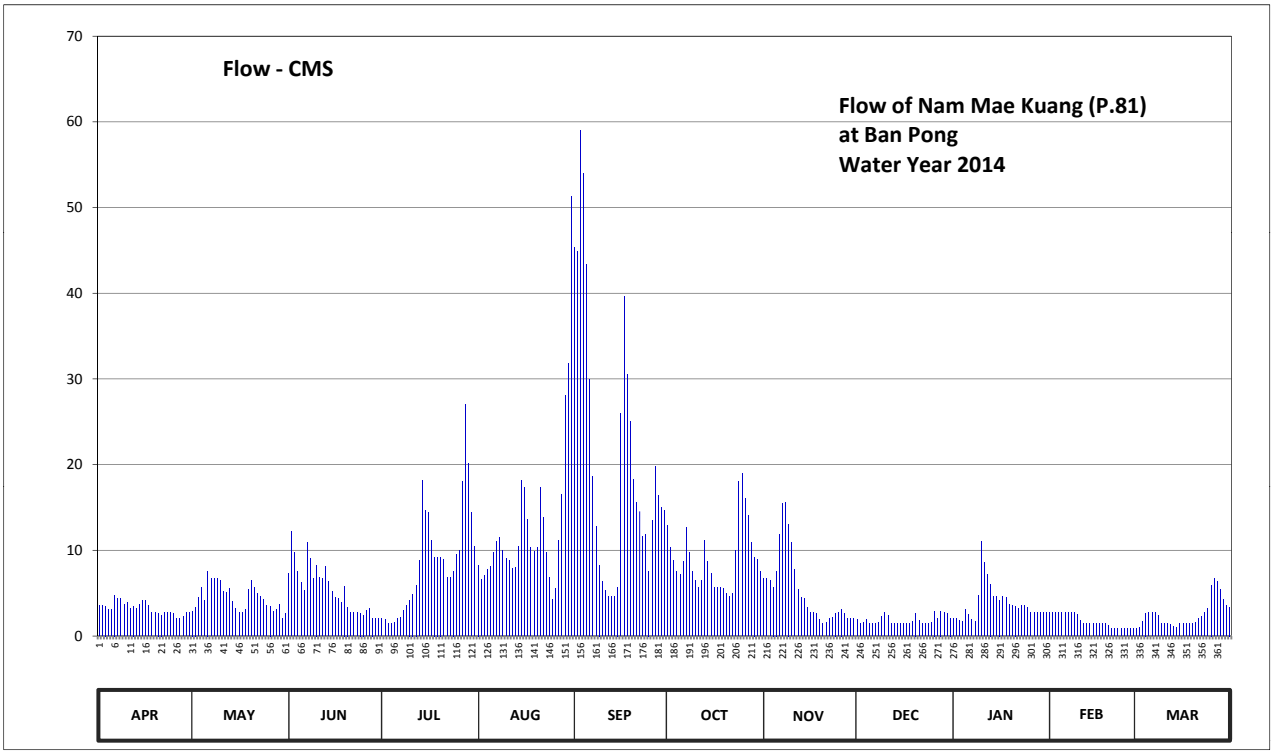
Location : on right bank at Ban Pong.

	Ban Pong	**Amphoe** San Kamphaeng	**Changwat** Chiang Mai
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 right bank at the abutment 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 Flot	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.02	290.94	291.37	290.82	291.45	293.45	291.78	291.32	290.80	290.82	290.92	290.62	
2	291.02	291.00	291.73	290.80	291.31	293.43	291.60	291.32	290.73	290.82	290.92	290.64	
3	291.01	291.11	291.56	290.73	291.35	294.03	291.49	291.30	290.74	290.78	290.92	290.76	
4	290.96	291.22	291.39	290.72	291.41	293.82	291.39	291.23	290.80	290.76	290.92	290.91	
5	290.96	291.07	291.28	290.74	291.44	293.36	291.36	291.40	290.73	290.96	290.92	290.92	
6	291.14	291.40	291.19	290.82	291.56	292.74	291.48	291.71	290.72	290.89	290.92	290.92	
7	291.10	291.32	291.64	290.84	291.65	292.15	291.76	291.95	290.72	290.80	290.92	290.92	
8	291.10	291.32	291.51	290.95	291.68	291.77	291.56	291.96	290.74	290.76	290.92	290.87	
9	291.03	291.32	291.32	291.02	291.58	291.45	291.39	291.79	290.85	291.13	290.92	290.73	
10	291.05	291.30	291.45	291.08	291.51	291.29	291.30	291.64	290.92	291.65	290.89	290.72	
11	290.98	291.18	291.33	291.15	291.49	291.19	291.22	291.41	290.87	291.47	290.79	290.72	
12	291.01	291.17	291.32	291.25	291.42	291.12	291.30	291.20	290.73	291.36	290.72	290.71	
13	290.98	291.21	291.44	291.49	291.43	291.12	291.66	291.11	290.72	291.26	290.72	290.66	
14	291.03	291.06	291.29	292.12	291.61	291.12	291.48	291.10	290.72	291.12	290.72	290.65	
15	291.07	290.98	291.18	291.90	292.12	291.23	291.37	290.99	290.72	291.12	290.72	290.72	
16	291.07	290.92	291.11	291.88	292.07	292.55	291.22	290.92	290.72	291.08	290.72	290.72	
17	291.02	290.92	291.10	291.66	291.83	293.19	291.22	290.92	290.72	291.12	290.72	290.72	
18	290.92	290.96	291.05	291.52	291.60	292.77	291.22	290.90	290.72	291.11	290.72	290.72	
19	290.92	291.20	291.24	291.52	291.57	292.50	291.21	290.80	290.77	291.03	290.72	290.72	
20	290.91	291.30	291.00	291.52	291.60	292.13	291.16	290.72	290.91	291.02	290.68	290.74	
21	290.88	291.22	290.92	291.50	292.07	291.96	291.12	290.75	290.79	291.01	290.62	290.82	
22	290.92	291.16	290.92	291.33	291.84	291.89	291.16	290.82	290.72	290.98	290.62	290.86	
23	290.92	291.12	290.92	291.33	291.56	291.69	291.58	290.84	290.72	291.02	290.62	290.92	
24	290.92	291.09	290.91	291.40	291.33	291.71	292.11	290.91	290.72	291.02	290.62	290.98	
25	290.90	291.02	290.88	291.54	291.09	291.40	292.17	290.92	290.75	290.99	290.62	291.25	
26	290.82	291.01	290.95	291.58	291.21	291.82	291.99	290.97	290.94	290.92	290.62	291.32	
27	290.82	290.93	290.98	292.11	291.66	292.22	291.86	290.90	290.82	290.92	290.62	291.29	
28	290.85	290.96	290.83	292.60	292.02	292.01	291.64	290.82	290.94	290.92	290.62	291.20	
29	290.92	291.03	290.82	292.24	292.65	291.92	291.52	290.82	290.92	290.92		291.09	
30	290.92	290.82	290.82	291.88	292.83	291.90	291.50	290.82	290.90	290.92		291.02	
31		290.90		291.61	293.71		291.39		290.83	290.92		291.00	
Mean	290.97	291.10	291.18	291.41	291.73	292.16	291.49	291.14	290.79	291.02	290.76	290.87	
Max	291.14	291.40	291.73	292.60	293.71	294.03	292.17	291.96	290.94	291.65	290.92	291.32	294.03
Min	290.82	290.82	290.82	290.72	291.09	291.12	291.12	290.72	290.72	290.76	290.62	290.62	290.62

Annual Max Momentary Gage Height	294.20	m. (MSL.) ,	at 19.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	289.92	m. (MSL.) ,	River Bed	289.09	m. (MSL.)
Left Bank Elevation	296.86	m. (MSL.) ,			
Right Bank Elevation	296.87	m. (MSL.) ,	Drainage Area	1190	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	2.92	7.27	2.04	8.28	45.33	12.91	6.72	1.90	2.04	2.76	0.90		
2	3.60	3.40	12.19	1.90	6.61	44.87	10.30	6.72	1.48	2.04	2.76	1.00		
3	3.50	4.50	9.76	1.48	7.05	59.03	8.81	6.50	1.54	1.78	2.76	1.66		
4	3.08	5.62	7.49	1.42	7.74	53.98	7.49	5.73	1.90	1.66	2.76	2.68		
5	3.08	4.10	6.28	1.54	8.14	43.32	7.16	7.60	1.48	3.08	2.76	2.76		
6	4.80	7.60	5.30	2.04	9.76	29.94	8.68	11.89	1.42	2.53	2.76	2.76		
7	4.40	6.72	10.88	2.18	11.02	18.67	12.62	15.45	1.42	1.90	2.76	2.76		
8	4.40	6.72	9.09	3.00	11.46	12.76	9.76	15.60	1.54	1.66	2.76	2.39		
9	3.70	6.72	6.72	3.60	10.03	8.28	7.49	13.06	2.25	4.70	2.76	1.48		
10	3.90	6.50	8.28	4.20	9.09	6.39	6.50	10.88	2.76	11.02	2.53	1.42		
11	3.24	5.20	6.83	4.90	8.81	5.30	5.62	7.74	2.39	8.55	1.84	1.42		
12	3.50	5.10	6.72	5.95	7.87	4.60	6.50	5.40	1.48	7.16	1.42	1.36		
13	3.24	5.51	8.14	8.81	8.00	4.60	11.17	4.50	1.42	6.06	1.42	1.10		
14	3.70	4.00	6.39	18.18	10.44	4.60	8.68	4.40	1.42	4.60	1.42	1.05		
15	4.10	3.24	5.20	14.70	18.18	5.73	7.27	3.32	1.42	4.60	1.42	1.42		
16	4.10	2.76	4.50	14.40	17.36	26.00	5.62	2.76	1.42	4.20	1.42	1.42		
17	3.60	2.76	4.40	11.17	13.65	39.58	5.62	2.76	1.42	4.60	1.42	1.42		
18	2.76	3.08	3.90	9.22	10.30	30.57	5.62	2.60	1.42	4.50	1.42	1.42		
19	2.76	5.40	5.84	9.22	9.90	25.00	5.51	1.90	1.72	3.70	1.42	1.42		
20	2.68	6.50	3.40	9.22	10.30	18.34	5.00	1.42	2.68	3.60	1.20	1.54		
21	2.46	5.62	2.76	8.95	17.36	15.60	4.60	1.60	1.84	3.50	0.90	2.04		
22	2.76	5.00	2.76	6.83	13.80	14.55	5.00	2.04	1.42	3.24	0.90	2.32		
23	2.76	4.60	2.76	6.83	9.76	11.61	10.03	2.18	1.42	3.60	0.90	2.76		
24	2.76	4.30	2.68	7.60	6.83	11.89	18.01	2.68	1.42	3.60	0.90	3.24		
25	2.60	3.60	2.46	9.49	4.30	7.60	19.01	2.76	1.60	3.32	0.90	5.95		
26	2.04	3.50	3.00	10.03	5.51	13.50	16.05	3.16	2.92	2.76	0.90	6.72		
27	2.04	2.84	3.24	18.01	11.17	19.85	14.10	2.60	2.04	2.76	0.90	6.39		
28	2.25	3.08	2.11	27.00	16.53	16.37	10.88	2.04	2.92	2.76	0.90	5.40		
29	2.76	3.70	2.04	20.20	28.05	15.00	9.22	2.04	2.76	2.76		4.30		
30	2.76	2.04	2.04	14.40	31.83	14.70	8.95	2.04	2.60	2.76		3.60		
31		2.60		10.44	51.34		7.49		2.11	2.76		3.40		
Total	96.93	139.23	164.43	268.95	400.47	627.56	281.67	160.09	57.53	117.80	48.97	79.50	2443.13	CMSDAY
Mean	3.23	4.49	5.48	8.68	12.92	20.92	9.09	5.34	1.86	3.80	1.75	2.56	6.69	CMS
Max	4.80	7.60	12.19	27.00	51.34	59.03	19.01	15.60	2.92	11.02	2.76	6.72	59.03	CMS
Min	2.04	2.04	2.04	1.42	4.30	4.60	4.60	1.42	1.42	1.66	0.90	0.90	0.90	CMS
Runoff	8.38	12.03	14.21	23.24	34.60	54.22	24.34	13.83	4.97	10.18	4.23	6.87	211.09	MCM

Momentary Peak 63.20 CMS. at 294.20 m. (MSL.) at 19.00 Hours , on Sep 3 , 2014

Runoff Yield 5.62 Liters/Second/Square KM. Momentary Peak Yield 53.109 Liters/Second/Square KM.

WATER YEAR : 2014

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	+400.196 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5.00 meters from the top staff gage.		**Elevation** +406.756 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Rather unstable by some scouring.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

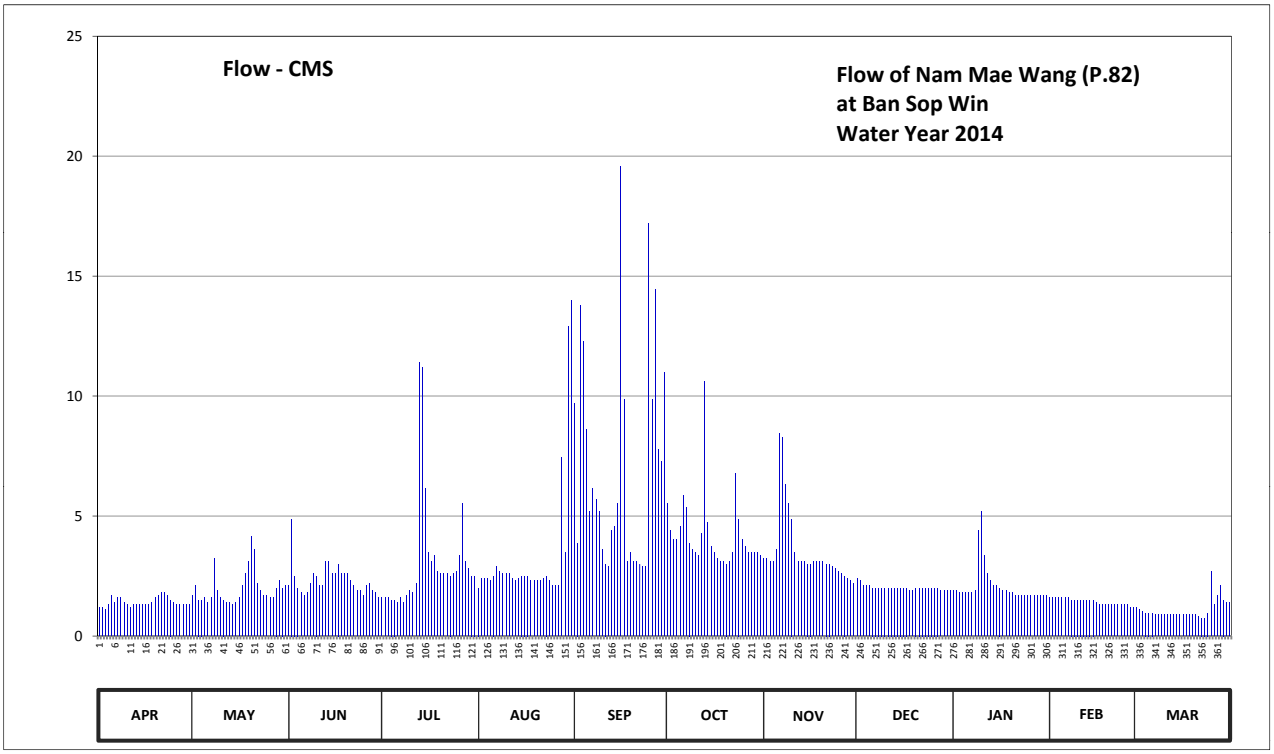
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	400.51	400.56	400.60	400.55	400.59	401.12	400.87	400.71	400.63	400.58	400.55	400.51	
2	400.51	400.60	400.83	400.55	400.63	400.76	400.80	400.71	400.62	400.58	400.55	400.50	
3	400.50	400.54	400.64	400.55	400.63	401.32	400.77	400.70	400.60	400.57	400.55	400.49	
4	400.52	400.54	400.59	400.54	400.63	401.25	400.77	400.70	400.60	400.57	400.55	400.48	
5	400.56	400.55	400.57	400.54	400.62	401.06	400.81	400.74	400.60	400.57	400.55	400.48	
6	400.53	400.53	400.56	400.53	400.64	400.85	400.89	401.05	400.59	400.57	400.55	400.48	
7	400.55	400.55	400.57	400.55	400.68	400.91	400.86	401.04	400.59	400.57	400.55	400.47	
8	400.55	400.71	400.61	400.53	400.66	400.88	400.76	400.92	400.59	400.58	400.54	400.47	
9	400.53	400.58	400.65	400.56	400.65	400.85	400.74	400.87	400.59	400.80	400.54	400.47	
10	400.52	400.55	400.64	400.58	400.65	400.74	400.73	400.83	400.59	400.85	400.54	400.47	
11	400.51	400.54	400.60	400.57	400.65	400.69	400.72	400.73	400.59	400.72	400.54	400.47	
12	400.52	400.53	400.60	400.61	400.63	400.68	400.79	400.70	400.59	400.65	400.54	400.47	
13	400.52	400.53	400.70	401.21	400.62	400.80	401.17	400.70	400.59	400.62	400.54	400.47	
14	400.52	400.52	400.70	401.20	400.63	400.81	400.82	400.70	400.59	400.60	400.54	400.47	
15	400.52	400.53	400.65	400.91	400.64	400.87	400.75	400.69	400.59	400.60	400.54	400.47	
16	400.52	400.55	400.65	400.73	400.64	401.57	400.73	400.69	400.59	400.59	400.53	400.47	
17	400.52	400.60	400.69	400.70	400.64	401.13	400.71	400.70	400.59	400.58	400.52	400.47	
18	400.53	400.65	400.65	400.72	400.62	400.70	400.70	400.70	400.58	400.58	400.52	400.47	
19	400.55	400.70	400.65	400.66	400.62	400.73	400.70	400.70	400.58	400.57	400.52	400.47	
20	400.56	400.78	400.65	400.65	400.62	400.70	400.69	400.70	400.59	400.57	400.52	400.47	
21	400.57	400.74	400.62	400.65	400.62	400.70	400.70	400.69	400.59	400.56	400.52	400.46	
22	400.57	400.61	400.60	400.65	400.63	400.69	400.73	400.69	400.59	400.56	400.52	400.45	
23	400.56	400.58	400.58	400.64	400.64	400.68	400.95	400.68	400.59	400.56	400.52	400.45	
24	400.54	400.56	400.58	400.65	400.62	400.68	400.83	400.67	400.59	400.56	400.52	400.48	
25	400.53	400.56	400.56	400.66	400.60	401.47	400.77	400.66	400.59	400.56	400.52	400.66	
26	400.52	400.55	400.60	400.72	400.60	401.13	400.75	400.65	400.59	400.56	400.52	400.52	
27	400.52	400.55	400.61	400.87	400.60	401.35	400.73	400.64	400.59	400.56	400.51	400.56	
28	400.52	400.59	400.58	400.70	400.99	401.01	400.73	400.63	400.58	400.56	400.51	400.60	
29	400.52	400.62	400.57	400.67	400.73	400.98	400.73	400.62	400.58	400.56		400.54	
30	400.52	400.59	400.55	400.64	401.28	401.19	400.73	400.61	400.58	400.56		400.53	
31		400.60		400.64	401.33		400.72		400.58	400.56		400.53	
Mean	400.53	400.59	400.62	400.68	400.69	400.94	400.78	400.73	400.59	400.60	400.53	400.49	
Max	400.57	400.78	400.83	401.21	401.33	401.57	401.17	401.05	400.63	400.85	400.55	400.66	401.57
Min	400.50	400.52	400.55	400.53	400.59	400.68	400.69	400.61	400.58	400.56	400.51	400.45	400.45

Annual Max Momentary Gage Height 402.08 m. (MSL.) , at 21.00 Hours , on Sep 16 , 2014

Zero Gage at Bottom Elevation 400.20 m. (MSL.) , River Bed 400.20 m. (MSL.)

Left Bank Elevation 405.98 m. (MSL.) ,

Right Bank Elevation 406.21 m. (MSL.) , Drainage Area 389 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	1.70	2.10	1.60	2.00	9.68	5.52	3.23	2.40	1.90	1.60	1.20		
2	1.20	2.10	4.88	1.60	2.40	3.88	4.40	3.23	2.30	1.90	1.60	1.10		
3	1.10	1.50	2.50	1.60	2.40	13.78	4.01	3.10	2.10	1.80	1.60	1.03		
4	1.30	1.50	2.00	1.50	2.40	12.27	4.01	3.10	2.10	1.80	1.60	0.96		
5	1.70	1.60	1.80	1.50	2.30	8.62	4.56	3.62	2.10	1.80	1.60	0.96		
6	1.40	1.40	1.70	1.40	2.50	5.20	5.84	8.45	2.00	1.80	1.60	0.96		
7	1.60	1.60	1.80	1.60	2.90	6.16	5.36	8.28	2.00	1.80	1.60	0.89		
8	1.60	3.23	2.20	1.40	2.70	5.68	3.88	6.32	2.00	1.90	1.50	0.89		
9	1.40	1.90	2.60	1.70	2.60	5.20	3.62	5.52	2.00	4.40	1.50	0.89		
10	1.30	1.60	2.50	1.90	2.60	3.62	3.49	4.88	2.00	5.20	1.50	0.89		
11	1.20	1.50	2.10	1.80	2.60	3.00	3.36	3.49	2.00	3.36	1.50	0.89		
12	1.30	1.40	2.10	2.20	2.40	2.90	4.27	3.10	2.00	2.60	1.50	0.89		
13	1.30	1.40	3.10	11.41	2.30	4.40	10.63	3.10	2.00	2.30	1.50	0.89		
14	1.30	1.30	3.10	11.20	2.40	4.56	4.72	3.10	2.00	2.10	1.50	0.89		
15	1.30	1.40	2.60	6.16	2.50	5.52	3.75	3.00	2.00	2.10	1.50	0.89		
16	1.30	1.60	2.60	3.49	2.50	19.58	3.49	3.00	2.00	2.00	1.40	0.89		
17	1.30	2.10	3.00	3.10	2.50	9.87	3.23	3.10	2.00	1.90	1.30	0.89		
18	1.40	2.60	2.60	3.36	2.30	3.10	3.10	3.10	1.90	1.90	1.30	0.89		
19	1.60	3.10	2.60	2.70	2.30	3.49	3.10	3.10	1.90	1.80	1.30	0.89		
20	1.70	4.14	2.60	2.60	2.30	3.10	3.00	3.10	2.00	1.80	1.30	0.89		
21	1.80	3.62	2.30	2.60	2.30	3.10	3.10	3.00	2.00	1.70	1.30	0.82		
22	1.80	2.20	2.10	2.60	2.40	3.00	3.49	3.00	2.00	1.70	1.30	0.75		
23	1.70	1.90	1.90	2.50	2.50	2.90	6.80	2.90	2.00	1.70	1.30	0.75		
24	1.50	1.70	1.90	2.60	2.30	2.90	4.88	2.80	2.00	1.70	1.30	0.96		
25	1.40	1.70	1.70	2.70	2.10	17.18	4.01	2.70	2.00	1.70	1.30	2.70		
26	1.30	1.60	2.10	3.36	2.10	9.87	3.75	2.60	2.00	1.70	1.30	1.30		
27	1.30	1.60	2.20	5.52	2.10	14.43	3.49	2.50	2.00	1.70	1.20	1.70		
28	1.30	2.00	1.90	3.10	7.44	7.77	3.49	2.40	1.90	1.70	1.20	2.10		
29	1.30	2.30	1.80	2.80	3.49	7.28	3.49	2.30	1.90	1.70		1.50		
30	1.30	2.00	1.60	2.50	12.92	11.01	3.49	2.20	1.90	1.70		1.40		
31		2.10		2.50	13.99		3.36		1.90	1.70		1.40		
Total	42.20	61.39	69.98	96.60	102.54	213.05	130.69	107.32	62.40	64.86	40.00	34.05	1025.08	CMSDAY
Mean	1.41	1.98	2.33	3.12	3.31	7.10	4.22	3.58	2.01	2.09	1.43	1.10	2.81	CMS
Max	1.80	4.14	4.88	11.41	13.99	19.58	10.63	8.45	2.40	5.20	1.60	2.70	19.58	CMS
Min	1.10	1.30	1.60	1.40	2.00	2.90	3.00	2.20	1.90	1.70	1.20	0.75	0.75	CMS
Runoff	3.65	5.30	6.05	8.35	8.86	18.41	11.29	9.27	5.39	5.60	3.46	2.94	88.57	MCM

Momentary Peak 34.16 CMS. at 402.08 m. (MSL.) at 21.00 Hours , on Sep 16 , 2014

Runoff Yield 7.22 Liters/Second/Square KM. Momentary Peak Yield 87.815 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 18 - 35 - 19 N Long 98 - 47 - 58 E

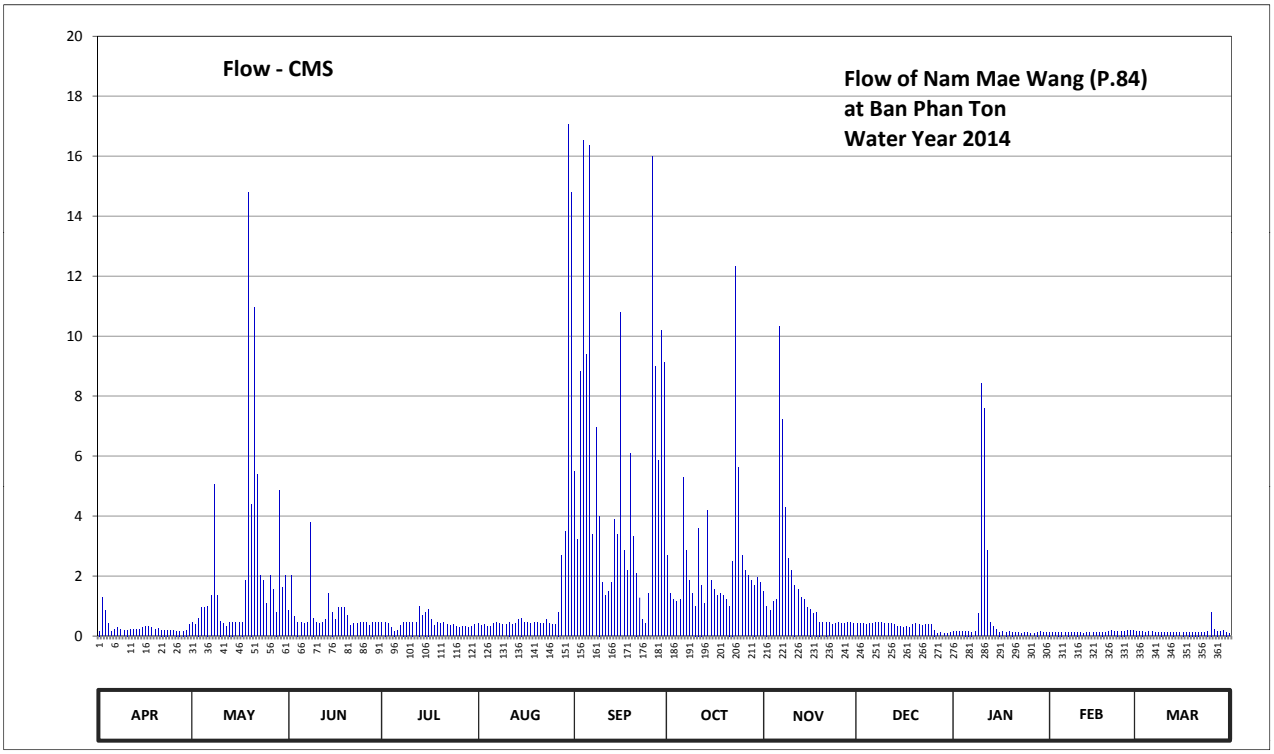
Location : on left bank at Ban Phan Ton.

	Ban Phan Ton	**Amphoe** Mae Wang	**Changwat** Chiang Mai
Drainge Area	491 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+303.244 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +309.244 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records Fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.38	303.48	303.57	303.48	303.47	304.10	303.82	303.67	303.47	303.36	303.35	303.38	
2	303.64	303.46	303.74	303.49	303.45	303.88	303.66	303.60	303.47	303.36	303.34	303.37	
3	303.57	303.52	303.53	303.47	303.46	304.36	303.63	303.57	303.47	303.36	303.34	303.38	
4	303.47	303.59	303.49	303.43	303.44	304.83	303.62	303.62	303.46	303.37	303.35	303.34	
5	303.37	303.59	303.48	303.38	303.44	304.40	303.63	303.63	303.47	303.38	303.35	303.36	
6	303.41	303.60	303.47	303.39	303.47	304.82	304.08	304.46	303.47	303.38	303.34	303.36	
7	303.43	303.65	303.48	303.45	303.48	303.90	303.84	304.24	303.48	303.35	303.35	303.34	
8	303.41	304.06	303.94	303.49	303.47	304.22	303.72	303.99	303.48	303.37	303.34	303.34	
9	303.39	303.65	303.52	303.49	303.46	303.96	303.66	303.81	303.48	303.55	303.34	303.35	
10	303.40	303.50	303.48	303.48	303.46	303.71	303.60	303.76	303.47	304.33	303.35	303.34	
11	303.41	303.47	303.47	303.49	303.49	303.65	303.92	303.70	303.47	304.27	303.34	303.34	
12	303.41	303.44	303.48	303.48	303.46	303.67	303.70	303.68	303.47	303.84	303.33	303.34	
13	303.41	303.49	303.51	303.60	303.47	303.71	303.61	303.64	303.46	303.48	303.34	303.35	
14	303.41	303.49	303.66	303.54	303.51	303.95	303.98	303.63	303.44	303.44	303.34	303.34	
15	303.43	303.48	303.56	303.56	303.52	303.90	303.72	303.59	303.44	303.41	303.34	303.34	
16	303.44	303.48	303.51	303.58	303.48	304.49	303.68	303.58	303.43	303.35	303.34	303.35	
17	303.44	303.49	303.59	303.51	303.48	303.84	303.65	303.55	303.44	303.36	303.34	303.34	
18	303.43	303.72	303.59	303.45	303.47	303.76	303.66	303.56	303.43	303.35	303.35	303.35	
19	303.41	304.73	303.59	303.48	303.48	304.15	303.65	303.49	303.46	303.36	303.34	303.35	
20	303.42	304.00	303.54	303.47	303.48	303.89	303.63	303.48	303.47	303.35	303.36	303.35	
21	303.40	304.50	303.45	303.48	303.47	303.75	303.60	303.49	303.46	303.34	303.39	303.35	
22	303.40	304.09	303.47	303.46	303.47	303.64	303.80	303.48	303.45	303.34	303.37	303.34	
23	303.40	303.74	303.47	303.45	303.51	303.51	304.59	303.46	303.46	303.33	303.38	303.34	
24	303.39	303.72	303.48	303.46	303.47	303.47	304.11	303.47	303.46	303.34	303.38	303.38	
25	303.39	303.61	303.48	303.44	303.46	303.66	303.82	303.48	303.46	303.34	303.38	303.56	
26	303.38	303.74	303.48	303.43	303.46	304.80	303.76	303.47	303.40	303.33	303.39	303.41	
27	303.38	303.68	303.45	303.44	303.56	304.37	303.74	303.47	303.33	303.32	303.39	303.38	
28	303.38	303.56	303.49	303.44	303.82	304.13	303.72	303.48	303.34	303.35	303.39	303.37	
29	303.40	304.04	303.48	303.43	303.91	304.45	303.70	303.48	303.33	303.36		303.39	
30	303.46	303.69	303.48	303.44	304.86	304.38	303.73	303.47	303.32	303.34		303.35	
31		303.74		303.46	304.73		303.71		303.34	303.34		303.33	
Mean	303.42	303.71	303.53	303.47	303.59	304.05	303.77	303.63	303.44	303.44	303.35	303.36	
Max	303.64	304.73	303.94	303.60	304.86	304.83	304.59	304.46	303.48	304.33	303.39	303.56	304.86
Min	303.37	303.44	303.45	303.38	303.44	303.47	303.60	303.46	303.32	303.32	303.33	303.33	303.32

Annual Max Momentary Gage Height	305.63	m. (MSL.) ,	at 19.00 Hours , on Aug 30 , 2014		
Zero Gage at Bottom Elevation	303.24	m. (MSL.) ,	River Bed	303.24	m. (MSL.)
Left Bank Elevation	309.05	m. (MSL.) ,			
Right Bank Elevation	309.05	m. (MSL.) ,	Drainage Area	491	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.44	0.85	0.44	0.41	5.50	2.68	1.49	0.41	0.14	0.13	0.17		
2	1.28	0.38	2.02	0.47	0.35	3.22	1.42	1.00	0.41	0.14	0.11	0.16		
3	0.85	0.60	0.65	0.41	0.38	8.84	1.21	0.85	0.41	0.14	0.11	0.17		
4	0.41	0.95	0.47	0.29	0.32	16.52	1.14	1.14	0.38	0.16	0.13	0.11		
5	0.16	0.95	0.44	0.17	0.32	9.40	1.21	1.21	0.41	0.17	0.13	0.14		
6	0.23	1.00	0.41	0.19	0.41	16.35	5.28	10.33	0.41	0.17	0.11	0.14		
7	0.29	1.35	0.44	0.35	0.44	3.40	2.86	7.22	0.44	0.13	0.13	0.11		
8	0.23	5.06	3.80	0.47	0.41	6.96	1.86	4.30	0.44	0.16	0.11	0.11		
9	0.19	1.35	0.60	0.47	0.38	4.00	1.42	2.59	0.44	0.75	0.11	0.13		
10	0.20	0.50	0.44	0.44	0.38	1.78	1.00	2.18	0.41	8.42	0.13	0.11		
11	0.23	0.41	0.41	0.47	0.47	1.35	3.60	1.70	0.41	7.61	0.11	0.11		
12	0.23	0.32	0.44	0.44	0.38	1.49	1.70	1.56	0.41	2.86	0.09	0.11		
13	0.23	0.47	0.55	1.00	0.41	1.78	1.07	1.28	0.38	0.44	0.11	0.13		
14	0.23	0.47	1.42	0.70	0.55	3.90	4.20	1.21	0.32	0.32	0.11	0.11		
15	0.29	0.44	0.80	0.80	0.60	3.40	1.86	0.95	0.32	0.23	0.11	0.11		
16	0.32	0.44	0.55	0.90	0.44	10.79	1.56	0.90	0.29	0.13	0.11	0.13		
17	0.32	0.47	0.95	0.55	0.44	2.86	1.35	0.75	0.32	0.14	0.11	0.11		
18	0.29	1.86	0.95	0.35	0.41	2.18	1.42	0.80	0.29	0.13	0.13	0.13		
19	0.23	14.78	0.95	0.44	0.44	6.10	1.35	0.47	0.38	0.14	0.11	0.13		
20	0.26	4.40	0.70	0.41	0.44	3.31	1.21	0.44	0.41	0.13	0.14	0.13		
21	0.20	10.95	0.35	0.44	0.41	2.10	1.00	0.47	0.38	0.11	0.19	0.13		
22	0.20	5.39	0.41	0.38	0.41	1.28	2.50	0.44	0.35	0.11	0.16	0.11		
23	0.20	2.02	0.41	0.35	0.55	0.55	12.34	0.38	0.38	0.09	0.17	0.11		
24	0.19	1.86	0.44	0.38	0.41	0.41	5.62	0.41	0.38	0.11	0.17	0.17		
25	0.19	1.07	0.44	0.32	0.38	1.42	2.68	0.44	0.38	0.11	0.17	0.80		
26	0.17	2.02	0.44	0.29	0.38	16.00	2.18	0.41	0.20	0.09	0.19	0.23		
27	0.17	1.56	0.35	0.32	0.80	8.98	2.02	0.41	0.09	0.08	0.19	0.17		
28	0.17	0.80	0.47	0.32	2.68	5.86	1.86	0.44	0.11	0.13	0.19	0.16		
29	0.20	4.84	0.44	0.29	3.50	10.18	1.70	0.44	0.09	0.14		0.19		
30	0.38	1.63	0.44	0.32	17.05	9.12	1.94	0.41	0.08	0.11		0.13		
31		2.02		0.38	14.78		1.78		0.11	0.11		0.09		
Total	8.71	70.80	22.03	13.55	49.73	169.03	75.02	46.62	10.24	23.70	3.76	4.84	498.03	CMSDAY
Mean	0.29	2.28	0.73	0.44	1.60	5.63	2.42	1.55	0.33	0.76	0.13	0.16	1.36	CMS
Max	1.28	14.78	3.80	1.00	17.05	16.52	12.34	10.33	0.44	8.42	0.19	0.80	17.05	CMS
Min	0.16	0.32	0.35	0.17	0.32	0.41	1.00	0.38	0.08	0.08	0.09	0.09	0.08	CMS
Runoff	0.75	6.12	1.90	1.17	4.30	14.60	6.48	4.03	0.89	2.05	0.33	0.42	43.03	MCM

Momentary Peak 33.25 CMS. at 305.63 m. (MSL.) at 19.00 Hours , on Aug 30 , 2014

Runoff Yield 2.78 Liters/Second/Square KM. Momentary Peak Yield 67.719 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

Lat 18 - 21 - 49 N Long 98 - 46 - 31 E

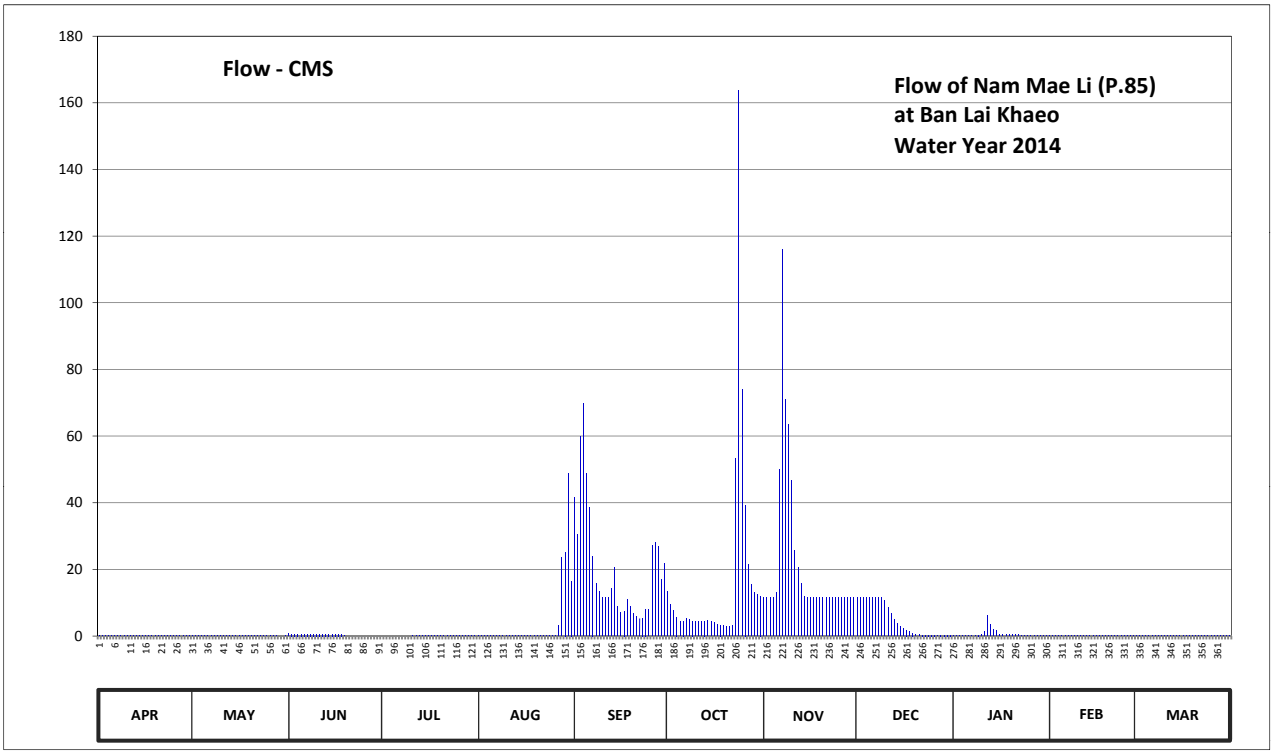
Location : on right bank at Ban Lai Khaeo.

	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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable because of back water effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.89	288.89	289.39	288.71	288.80	290.22	289.44	289.37	289.37	288.49	288.43	288.33	
2	288.89	288.95	289.37	288.71	288.80	289.96	289.27	289.37	289.37	288.48	288.43	288.33	
3	288.89	288.89	289.37	288.71	288.80	290.55	289.19	289.37	289.37	288.47	288.43	288.33	
4	288.89	288.89	289.37	288.71	288.80	290.70	289.08	289.37	289.37	288.47	288.42	288.33	
5	288.89	288.89	289.37	288.71	288.80	290.36	288.99	289.43	289.37	288.47	288.42	288.33	
6	288.89	288.89	289.37	288.71	288.80	290.15	289.00	290.38	289.37	288.47	288.42	288.33	
7	288.89	288.89	289.37	288.71	288.80	289.80	289.05	291.27	289.37	288.47	288.42	288.33	
8	288.89	288.89	289.37	288.71	288.80	289.53	289.04	290.72	289.37	288.47	288.42	288.33	
9	288.89	288.89	289.37	288.71	288.80	289.44	289.00	290.61	289.37	288.51	288.42	288.33	
10	288.89	288.89	289.37	288.71	288.87	289.37	288.99	290.32	289.33	288.61	288.42	288.33	
11	288.89	288.89	289.37	288.75	288.80	289.37	288.99	289.84	289.23	288.73	288.42	288.33	
12	288.89	288.89	289.37	288.80	288.80	289.37	288.99	289.69	289.14	289.11	288.42	288.33	
13	288.89	288.89	289.37	288.80	288.80	289.48	289.00	289.53	289.04	288.92	288.41	288.33	
14	288.89	288.89	289.37	288.80	288.80	289.69	289.01	289.38	288.93	288.78	288.40	288.33	
15	288.89	288.89	289.37	288.80	288.80	289.24	288.99	289.37	288.86	288.74	288.39	288.33	
16	288.89	288.89	289.37	288.80	288.80	289.16	288.96	289.37	288.81	288.60	288.38	288.33	
17	288.89	288.89	289.37	288.80	288.80	289.18	288.91	289.37	288.76	288.59	288.36	288.33	
18	288.89	288.89	289.37	288.80	288.80	289.34	288.90	289.37	288.71	288.59	288.35	288.33	
19	288.89	288.89	289.04	288.80	288.80	289.25	288.88	289.37	288.66	288.59	288.34	288.33	
20	288.89	288.89	288.71	288.80	288.80	289.14	288.87	289.37	288.61	288.58	288.34	288.33	
21	288.89	288.89	288.71	288.76	288.80	289.09	288.87	289.37	288.56	288.57	288.33	288.33	
22	288.89	288.89	288.71	288.80	288.80	289.05	288.89	289.37	288.52	288.55	288.33	288.35	
23	288.89	288.89	288.71	288.80	288.80	289.06	290.44	289.37	288.50	288.49	288.33	288.42	
24	288.89	288.89	288.71	288.80	288.80	289.21	291.75	289.37	288.52	288.45	288.33	288.43	
25	288.89	288.89	288.71	288.80	288.80	289.20	290.76	289.37	288.52	288.46	288.33	288.45	
26	288.89	288.89	288.71	288.80	288.80	289.88	290.17	289.37	288.50	288.46	288.33	288.45	
27	288.89	288.89	288.71	288.80	288.88	289.90	289.72	289.37	288.49	288.45	288.33	288.47	
28	288.89	288.82	288.71	288.80	289.79	289.87	289.52	289.37	288.52	288.46	288.33	288.48	
29	288.89	288.65	288.71	288.80	289.83	289.58	289.43	289.37	288.51	288.45		288.49	
30	288.89	288.65	288.71	288.80	290.36	289.73	289.41	289.37	288.52	288.44		288.49	
31		288.78		288.80	289.56		289.39		288.50	288.43		288.49	
Mean	288.89	288.87	289.12	288.77	288.94	289.60	289.32	289.62	288.91	288.56	288.38	288.37	
Max	288.89	288.95	289.39	288.80	290.36	290.70	291.75	291.27	289.37	289.11	288.43	288.49	291.75
Min	288.89	288.65	288.71	288.71	288.80	289.05	288.87	289.37	288.49	288.43	288.33	288.33	288.33

Annual Max Momentary Gage Height	292.07	m. (MSL.) ,	at 05.00 Hours , on Oct 24 , 2014		
Zero Gage at Bottom Elevation	290.37	m. (MSL.) ,	River Bed	288.20	m. (MSL.)
Left Bank Elevation	295.39	m. (MSL.) ,			
Right Bank Elevation	295.35	m. (MSL.) ,	Drainage Area	2037	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.03	0.67	0.01	0.02	41.64	13.28	11.55	11.55	0.29	0.23	0.13		
2	0.03	0.03	0.61	0.01	0.02	30.40	9.40	11.55	11.55	0.28	0.23	0.13		
3	0.03	0.03	0.61	0.01	0.02	60.00	7.71	11.55	11.55	0.27	0.23	0.13		
4	0.03	0.03	0.61	0.01	0.02	69.80	5.70	11.55	11.55	0.27	0.22	0.13		
5	0.03	0.03	0.61	0.01	0.02	48.92	4.38	13.01	11.55	0.27	0.22	0.13		
6	0.03	0.03	0.61	0.01	0.02	38.45	4.50	49.96	11.55	0.27	0.22	0.13		
7	0.03	0.03	0.61	0.01	0.02	24.00	5.25	115.97	11.55	0.27	0.22	0.13		
8	0.03	0.03	0.61	0.01	0.02	15.71	5.10	71.16	11.55	0.27	0.22	0.13		
9	0.03	0.03	0.61	0.01	0.02	13.28	4.50	63.68	11.55	0.32	0.22	0.13		
10	0.03	0.03	0.61	0.01	0.03	11.55	4.38	46.84	10.69	0.57	0.22	0.13		
11	0.03	0.03	0.61	0.02	0.02	11.55	4.38	25.60	8.55	1.50	0.22	0.13		
12	0.03	0.03	0.61	0.02	0.02	11.55	4.38	20.48	6.76	6.19	0.22	0.13		
13	0.03	0.03	0.61	0.02	0.02	14.36	4.50	15.71	5.10	3.54	0.21	0.13		
14	0.03	0.03	0.61	0.02	0.02	20.48	4.65	11.77	3.66	2.00	0.20	0.13		
15	0.03	0.03	0.61	0.02	0.02	8.76	4.38	11.55	2.86	1.60	0.19	0.13		
16	0.03	0.03	0.61	0.02	0.02	7.14	4.02	11.55	2.31	0.50	0.18	0.13		
17	0.03	0.03	0.61	0.02	0.02	7.52	3.42	11.55	1.80	0.48	0.16	0.13		
18	0.03	0.03	0.61	0.02	0.02	10.91	3.30	11.55	1.30	0.48	0.15	0.13		
19	0.03	0.03	0.04	0.02	0.02	8.97	3.08	11.55	0.92	0.48	0.14	0.13		
20	0.03	0.03	0.01	0.02	0.02	6.76	2.97	11.55	0.57	0.46	0.14	0.13		
21	0.03	0.03	0.01	0.02	0.02	5.85	2.97	11.55	0.42	0.44	0.13	0.13		
22	0.03	0.03	0.01	0.02	0.02	5.25	3.19	11.55	0.34	0.40	0.13	0.15		
23	0.03	0.03	0.01	0.02	0.02	5.40	53.40	11.55	0.30	0.29	0.13	0.22		
24	0.03	0.03	0.01	0.02	0.02	8.11	163.75	11.55	0.34	0.25	0.13	0.23		
25	0.03	0.03	0.01	0.02	0.02	7.90	73.88	11.55	0.34	0.26	0.13	0.25		
26	0.03	0.03	0.01	0.02	0.02	27.20	39.31	11.55	0.30	0.26	0.13	0.25		
27	0.03	0.03	0.01	0.02	3.08	28.00	21.44	11.55	0.29	0.25	0.13	0.27		
28	0.03	0.02	0.01	0.02	23.68	26.80	15.44	11.55	0.34	0.26	0.13	0.28		
29	0.03	0.00	0.01	0.02	25.20	17.06	13.01	11.55	0.32	0.25		0.29		
30	0.03	0.00	0.01	0.02	48.92	21.76	12.47	11.55	0.34	0.24		0.29		
31		0.02		0.02	16.52		11.99		0.30	0.23		0.29		
Total	0.90	0.85	11.19	0.52	117.93	615.08	514.13	665.18	152.10	23.44	5.08	5.25	2111.65	CMSDAY
Mean	0.03	0.03	0.37	0.02	3.80	20.50	16.58	22.17	4.91	0.76	0.18	0.17	5.79	CMS
Max	0.03	0.03	0.67	0.02	48.92	69.80	163.75	115.97	11.55	6.19	0.23	0.29	163.75	CMS
Min	0.03	0.00	0.01	0.01	0.02	5.25	2.97	11.55	0.29	0.23	0.13	0.13	0.00	CMS
Runoff	0.08	0.07	0.97	0.05	10.19	53.14	44.42	57.47	13.14	2.03	0.44	0.45	182.45	MCM

Momentary Peak 199.05 CMS. at 292.07 m. (MSL.) at 05.00 Hours , on Oct 24 , 2014

Runoff Yield 2.84 Liters/Second/Square KM. Momentary Peak Yield 97.717 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

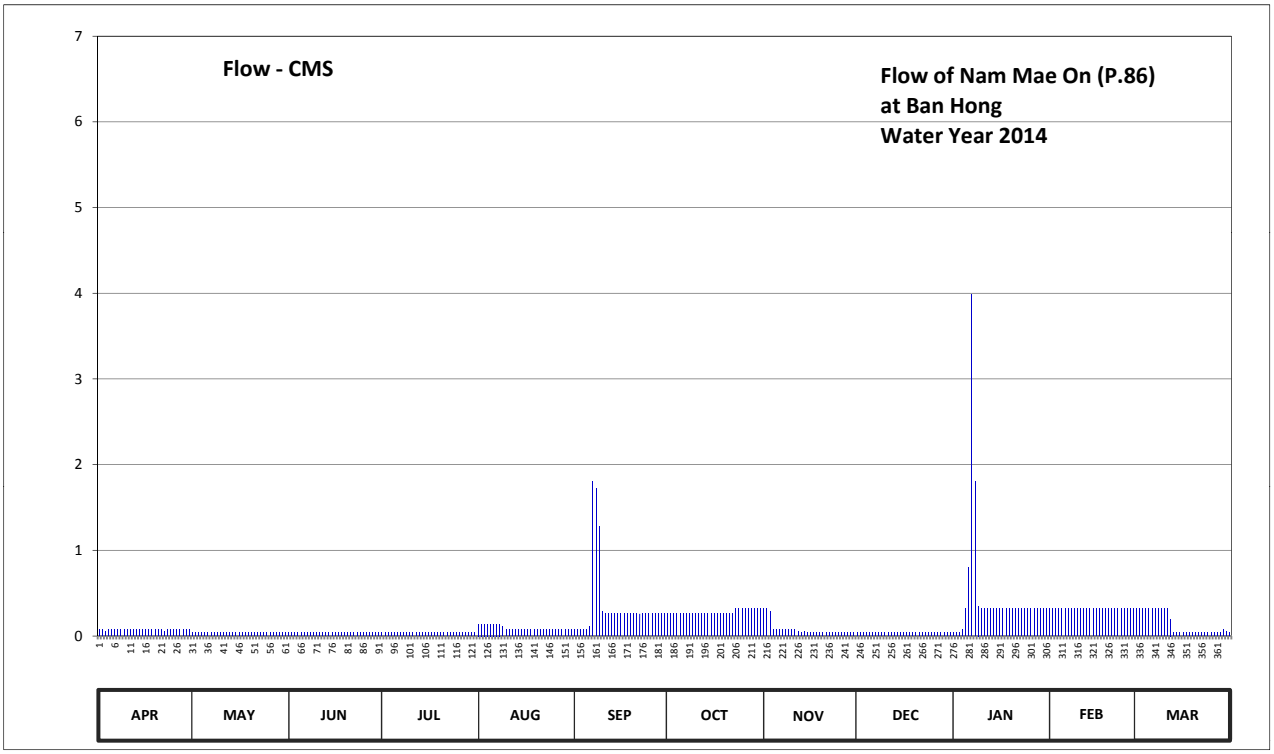
Location : on left bank at Ban Hong.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	341.01	340.99	340.99	340.98	341.03	341.01	341.07	341.09	340.98	340.98	341.09	341.09	
2	341.01	340.99	340.99	340.98	341.03	341.01	341.07	341.09	340.98	340.98	341.09	341.09	
3	341.00	340.99	340.98	340.98	341.03	341.01	341.07	341.08	340.98	340.98	341.09	341.09	
4	341.01	340.99	340.98	340.98	341.03	341.01	341.07	341.01	340.98	341.01	341.09	341.09	
5	341.01	340.99	340.98	340.98	341.03	341.01	341.07	341.01	340.98	341.09	341.09	341.09	
6	341.01	340.99	340.98	340.98	341.03	341.02	341.07	341.01	340.98	341.20	341.09	341.09	
7	341.01	340.99	340.98	340.98	341.03	341.35	341.07	341.01	340.98	341.61	341.09	341.09	
8	341.01	340.99	340.98	340.98	341.03	341.34	341.07	341.01	340.98	341.35	341.09	341.09	
9	341.01	340.99	340.98	340.98	341.02	341.28	341.07	341.01	340.98	341.10	341.09	341.09	
10	341.01	340.99	340.98	340.98	341.01	341.08	341.07	341.01	340.98	341.09	341.09	341.09	
11	341.01	340.99	340.98	340.98	341.01	341.07	341.07	341.01	340.98	341.09	341.09	341.09	
12	341.01	340.99	340.98	340.98	341.01	341.07	341.07	341.00	340.98	341.09	341.09	341.05	
13	341.01	340.99	340.98	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
14	341.01	340.99	340.98	340.98	341.01	341.07	341.07	341.00	340.98	341.09	341.09	340.97	
15	341.01	340.99	340.98	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
16	341.01	340.99	340.97	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
17	341.01	340.99	340.97	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
18	341.01	340.99	340.97	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
19	341.01	340.99	340.97	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
20	341.01	340.99	340.98	340.98	341.01	341.07	341.07	340.99	340.98	341.09	341.09	340.97	
21	341.01	340.99	340.98	340.98	341.01	341.07	341.07	340.98	340.98	341.09	341.09	340.97	
22	341.00	340.99	340.98	340.98	341.01	341.07	341.07	340.98	340.98	341.09	341.09	340.97	
23	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.97	
24	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.97	
25	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.97	
26	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.97	
27	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.97	
28	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09	341.09	340.98	
29	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09		341.01	
30	341.01	340.99	340.98	340.98	341.01	341.07	341.09	340.98	340.98	341.09		341.00	
31		340.99		340.98	341.01		341.09		340.98	341.09		340.97	
Mean	341.01	340.99	340.98	340.98	341.02	341.08	341.08	341.00	340.98	341.11	341.09	341.02	
Max	341.01	340.99	340.99	340.98	341.03	341.35	341.09	341.09	340.98	341.61	341.09	341.09	341.61
Min	341.00	340.99	340.97	340.98	341.01	341.01	341.07	340.98	340.98	340.98	341.09	340.97	340.97

Annual Max Momentary Gage Height	342.06	m. (MSL.) ,	at 23.00 Hours , on Sep 7 , 2014		
Zero Gage at Bottom Elevation	341.20	m. (MSL.) ,	River Bed	340.63	m. (MSL.)
Left Bank Elevation	345.43	m. (MSL.) ,			
Right Bank Elevation	345.35	m. (MSL.) ,	Drainage Area	97	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.04	0.04	0.04	0.14	0.08	0.26	0.32	0.04	0.04	0.32	0.32		
2	0.08	0.04	0.04	0.04	0.14	0.08	0.26	0.32	0.04	0.04	0.32	0.32		
3	0.05	0.04	0.04	0.04	0.14	0.08	0.26	0.29	0.04	0.04	0.32	0.32		
4	0.08	0.04	0.04	0.04	0.14	0.08	0.26	0.08	0.04	0.08	0.32	0.32		
5	0.08	0.04	0.04	0.04	0.14	0.08	0.26	0.08	0.04	0.32	0.32	0.32		
6	0.08	0.04	0.04	0.04	0.14	0.11	0.26	0.08	0.04	0.80	0.32	0.32		
7	0.08	0.04	0.04	0.04	0.14	1.80	0.26	0.08	0.04	3.99	0.32	0.32		
8	0.08	0.04	0.04	0.04	0.14	1.72	0.26	0.08	0.04	1.80	0.32	0.32		
9	0.08	0.04	0.04	0.04	0.11	1.28	0.26	0.08	0.04	0.35	0.32	0.32		
10	0.08	0.04	0.04	0.04	0.08	0.29	0.26	0.08	0.04	0.32	0.32	0.32		
11	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.08	0.04	0.32	0.32	0.32		
12	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.05	0.04	0.32	0.32	0.20		
13	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
14	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.05	0.04	0.32	0.32	0.04		
15	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
16	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
17	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
18	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
19	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
20	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
21	0.08	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
22	0.05	0.04	0.04	0.04	0.08	0.26	0.26	0.04	0.04	0.32	0.32	0.04		
23	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
24	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
25	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
26	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
27	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
28	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32	0.32	0.04		
29	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32		0.08		
30	0.08	0.04	0.04	0.04	0.08	0.26	0.32	0.04	0.04	0.32		0.05		
31		0.04		0.04	0.08		0.32		0.04	0.32		0.04		
Total	2.34	1.24	1.20	1.24	2.99	10.80	8.60	2.35	1.24	14.50	8.96	4.53	59.99	CMSDAY
Mean	0.08	0.04	0.04	0.04	0.10	0.36	0.28	0.08	0.04	0.47	0.32	0.15	0.16	CMS
Max	0.08	0.04	0.04	0.04	0.14	1.80	0.32	0.32	0.04	3.99	0.32	0.32	3.99	CMS
Min	0.05	0.04	0.04	0.04	0.08	0.08	0.26	0.04	0.04	0.04	0.32	0.04	0.04	CMS
Runoff	0.20	0.11	0.10	0.11	0.26	0.93	0.74	0.20	0.11	1.25	0.77	0.39	5.18	MCM

Momentary Peak 8.85 CMS. at 342.06 m. (MSL.) at 23.00 Hours , on Sep 7 , 2014

Runoff Yield 1.69 Liters/Second/Square KM. Momentary Peak Yield 91.237 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

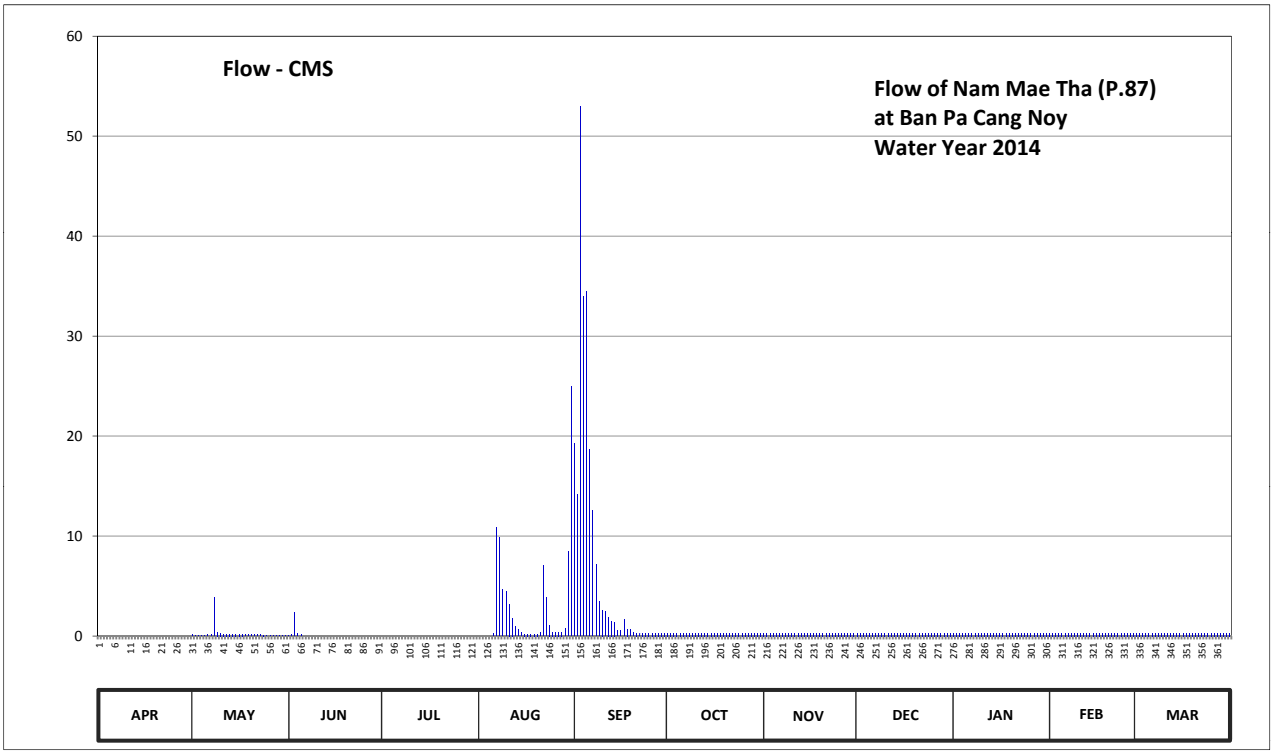
Location : on left bank at Ban Pa Cang Noy.

	Ban Pa Cang Noy	**Amphoe** Pa Cang	**Changwat** Lamphun
Drainge Area	934 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+288.954 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +293.954 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.89	288.89	288.77	288.79	288.90	290.19	288.95	288.95	288.95	288.95	288.95	288.95	
2	288.89	288.77	288.82	288.79	288.90	289.94	288.95	288.95	288.95	288.95	288.95	288.95	
3	288.89	288.75	289.23	288.79	288.89	291.42	288.95	288.95	288.95	288.95	288.95	288.95	
4	288.89	288.75	288.92	288.79	288.86	290.79	288.95	288.95	288.95	288.95	288.95	288.95	
5	288.89	288.75	288.88	288.79	288.85	290.81	288.95	288.95	288.95	288.95	288.95	288.95	
6	288.89	288.85	288.81	288.79	288.93	290.16	288.95	288.95	288.95	288.95	288.95	288.95	
7	288.89	288.85	288.85	288.79	289.77	289.86	288.95	288.95	288.95	288.95	288.95	288.95	
8	288.89	289.35	288.84	288.79	289.72	289.57	288.95	288.95	288.95	288.95	288.95	288.95	
9	288.89	289.00	288.81	288.79	289.41	289.32	288.95	288.95	288.95	288.95	288.95	288.95	
10	288.89	288.95	288.79	288.79	289.40	289.25	288.95	288.95	288.95	288.95	288.95	288.95	
11	288.89	288.90	288.77	288.79	289.30	289.24	288.95	288.95	288.95	288.95	288.95	288.95	
12	288.89	288.90	288.77	288.80	289.18	289.19	288.95	288.95	288.95	288.95	288.95	288.95	
13	288.89	288.90	288.77	288.80	289.09	289.15	288.95	288.95	288.95	288.95	288.95	288.95	
14	288.89	288.90	288.77	288.80	289.04	289.14	288.95	288.95	288.95	288.95	288.95	288.95	
15	288.89	288.90	288.77	288.80	288.97	289.02	288.95	288.95	288.95	288.95	288.95	288.95	
16	288.89	288.90	288.78	288.80	288.90	289.02	288.95	288.95	288.95	288.95	288.95	288.95	
17	288.89	288.90	288.80	288.80	288.90	289.17	288.95	288.95	288.95	288.95	288.95	288.95	
18	288.89	288.88	288.80	288.80	288.90	289.05	288.95	288.95	288.95	288.95	288.95	288.95	
19	288.89	288.85	288.80	288.80	288.90	289.04	288.95	288.95	288.95	288.95	288.95	288.95	
20	288.89	288.85	288.79	288.80	288.90	288.99	288.95	288.95	288.95	288.95	288.95	288.95	
21	288.89	288.85	288.80	288.80	288.98	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
22	288.89	288.84	288.80	288.80	289.56	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
23	288.89	288.82	288.80	288.80	289.35	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
24	288.85	288.80	288.80	288.81	289.11	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
25	288.73	288.79	288.80	288.85	289.00	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
26	288.73	288.77	288.80	288.85	289.00	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
27	288.73	288.77	288.80	288.85	289.00	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
28	288.73	288.77	288.79	288.86	289.00	288.95	288.95	288.95	288.95	288.95	288.95	288.95	
29	288.73	288.77	288.79	288.90	289.06	288.95	288.95	288.95	288.95	288.95		288.95	
30	288.73	288.77	288.79	288.90	289.64	288.95	288.95	288.95	288.95	288.95		288.95	
31		288.77		288.90	290.44		288.95		288.95	288.95		288.95	
Mean	288.86	288.86	288.82	288.81	289.16	289.39	288.95	288.95	288.95	288.95	288.95	288.95	
Max	288.89	289.35	289.23	288.90	290.44	291.42	288.95	288.95	288.95	288.95	288.95	288.95	291.42
Min	288.73	288.75	288.77	288.79	288.85	288.95	288.95	288.95	288.95	288.95	288.95	288.95	288.73

Annual Max Momentary Gage Height	292.56	m. (MSL.) ,	at 11.00 Hours , on Sep 3 , 2014			
Zero Gage at Bottom Elevation	288.95	m. (MSL.) ,	River Bed	288.19	m. (MSL.)	
Left Bank Elevation	293.97	m. (MSL.) ,				
Right Bank Elevation	293.70	m. (MSL.) ,	Drainage Area	934	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.19	0.07	0.00	0.00	19.29	0.30	0.30	0.30	0.30	0.30	0.30		
2	0.00	0.07	0.12	0.00	0.00	14.13	0.30	0.30	0.30	0.30	0.30	0.30		
3	0.00	0.05	2.36	0.00	0.00	52.97	0.30	0.30	0.30	0.30	0.30	0.30		
4	0.00	0.05	0.24	0.00	0.00	33.94	0.30	0.30	0.30	0.30	0.30	0.30		
5	0.00	0.05	0.18	0.00	0.00	34.49	0.30	0.30	0.30	0.30	0.30	0.30		
6	0.00	0.15	0.00	0.00	0.26	18.66	0.30	0.30	0.30	0.30	0.30	0.30		
7	0.00	0.15	0.00	0.00	10.83	12.57	0.30	0.30	0.30	0.30	0.30	0.30		
8	0.00	3.85	0.00	0.00	9.88	7.19	0.30	0.30	0.30	0.30	0.30	0.30		
9	0.00	0.40	0.00	0.00	4.65	3.46	0.30	0.30	0.30	0.30	0.30	0.30		
10	0.00	0.30	0.00	0.00	4.50	2.60	0.30	0.30	0.30	0.30	0.30	0.30		
11	0.00	0.20	0.00	0.00	3.20	2.48	0.30	0.30	0.30	0.30	0.30	0.30		
12	0.00	0.20	0.00	0.00	1.80	1.90	0.30	0.30	0.30	0.30	0.30	0.30		
13	0.00	0.20	0.00	0.00	0.94	1.50	0.30	0.30	0.30	0.30	0.30	0.30		
14	0.00	0.20	0.00	0.00	0.64	1.40	0.30	0.30	0.30	0.30	0.30	0.30		
15	0.00	0.20	0.00	0.00	0.34	0.52	0.30	0.30	0.30	0.30	0.30	0.30		
16	0.00	0.20	0.00	0.00	0.20	0.52	0.30	0.30	0.30	0.30	0.30	0.30		
17	0.00	0.20	0.00	0.00	0.20	1.70	0.30	0.30	0.30	0.30	0.30	0.30		
18	0.00	0.18	0.00	0.00	0.20	0.70	0.30	0.30	0.30	0.30	0.30	0.30		
19	0.00	0.15	0.00	0.00	0.20	0.64	0.30	0.30	0.30	0.30	0.30	0.30		
20	0.00	0.15	0.00	0.00	0.20	0.38	0.30	0.30	0.30	0.30	0.30	0.30		
21	0.00	0.15	0.00	0.00	0.36	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
22	0.00	0.14	0.00	0.00	7.02	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
23	0.00	0.12	0.00	0.00	3.85	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
24	0.00	0.10	0.00	0.00	1.10	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
25	0.00	0.09	0.00	0.00	0.40	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
26	0.00	0.07	0.00	0.00	0.40	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
27	0.00	0.07	0.00	0.00	0.40	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
28	0.00	0.07	0.00	0.00	0.40	0.30	0.30	0.30	0.30	0.30	0.30	0.30		
29	0.00	0.07	0.00	0.00	0.76	0.30	0.30	0.30	0.30	0.30		0.30		
30	0.00	0.07	0.00	0.00	8.42	0.30	0.30	0.30	0.30	0.30		0.30		
31		0.07		0.00	25.00		0.30		0.30	0.30		0.30		
Total	0.00	8.16	2.97	0.00	86.15	214.04	9.30	9.00	9.30	9.30	8.40	9.30	365.92	CMSDAY
Mean	0.00	0.26	0.10	0.00	2.78	7.13	0.30	0.30	0.30	0.30	0.30	0.30	1.00	CMS
Max	0.00	3.85	2.36	0.00	25.00	52.97	0.30	0.30	0.30	0.30	0.30	0.30	52.97	CMS
Min	0.00	0.05	0.00	0.00	0.00	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.00	CMS
Runoff	0.00	0.71	0.26	0.00	7.44	18.49	0.80	0.78	0.80	0.80	0.73	0.80	31.62	MCM

Momentary Peak 93.50 CMS. at 292.56 m. (MSL.) at 11.00 Hours , on Sep 3 , 2014

Runoff Yield 1.07 Liters/Second/Square KM. Momentary Peak Yield 100.107 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

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

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

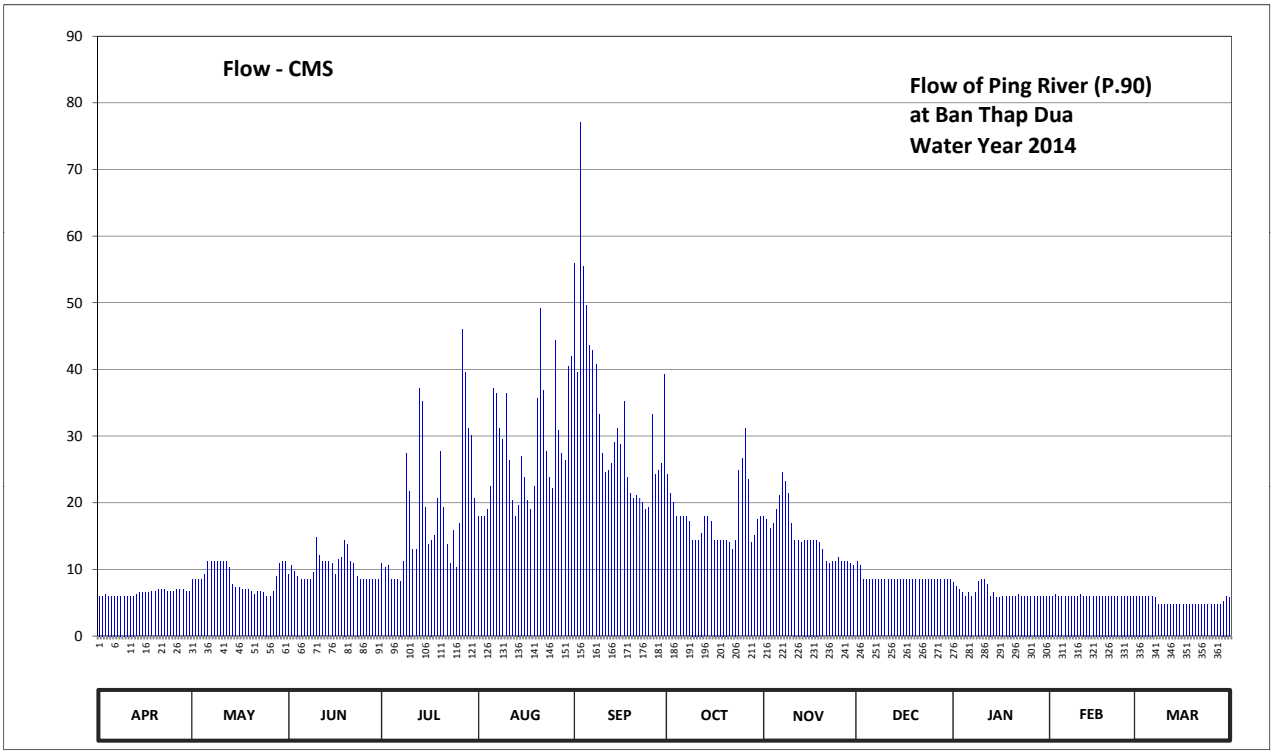
Location : on right bank at Ban Thap Dua.

	Ban Thap Dua	**Amphoe** Mae Taeng	**Changwat** Chiang Mai
Drainge Area	1,661 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+343.338 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +348.850 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	343.44	343.54	343.57	343.63	343.84	344.82	344.02	343.84	343.64	343.52	343.44	343.44	
2	343.44	343.54	343.62	343.61	343.84	344.44	343.94	343.83	343.62	343.50	343.44	343.44	
3	343.45	343.54	343.59	343.62	343.84	345.28	343.90	343.79	343.54	343.48	343.45	343.44	
4	343.44	343.54	343.56	343.54	343.87	344.81	343.84	343.81	343.54	343.46	343.44	343.44	
5	343.44	343.57	343.54	343.54	343.97	344.68	343.84	343.87	343.54	343.44	343.44	343.44	
6	343.44	343.64	343.54	343.54	344.38	344.54	343.84	343.93	343.54	343.46	343.44	343.44	
7	343.44	343.64	343.54	343.53	344.36	344.52	343.84	344.03	343.54	343.44	343.44	343.43	
8	343.44	343.64	343.54	343.64	344.22	344.47	343.82	343.99	343.54	343.46	343.44	343.39	
9	343.44	343.64	343.58	344.11	344.17	344.28	343.74	343.94	343.54	343.53	343.44	343.39	
10	343.44	343.64	343.75	343.95	344.36	344.11	343.74	343.81	343.54	343.54	343.44	343.39	
11	343.44	343.64	343.67	343.70	344.08	344.03	343.74	343.74	343.54	343.54	343.45	343.39	
12	343.44	343.64	343.64	343.70	343.91	344.04	343.77	343.74	343.54	343.51	343.44	343.39	
13	343.45	343.61	343.64	344.38	343.84	344.07	343.84	343.73	343.54	343.44	343.44	343.39	
14	343.46	343.51	343.64	344.33	343.89	344.16	343.84	343.74	343.54	343.46	343.44	343.39	
15	343.46	343.49	343.63	343.88	344.10	344.22	343.82	343.74	343.54	343.43	343.44	343.39	
16	343.46	343.49	343.57	343.72	344.01	344.15	343.74	343.74	343.54	343.43	343.44	343.39	
17	343.46	343.48	343.65	343.74	343.91	344.33	343.74	343.74	343.54	343.44	343.44	343.39	
18	343.47	343.48	343.66	343.76	343.87	344.01	343.74	343.74	343.54	343.44	343.44	343.39	
19	343.47	343.48	343.74	343.92	343.97	343.94	343.74	343.73	343.54	343.44	343.44	343.39	
20	343.48	343.47	343.72	344.12	344.34	343.92	343.74	343.70	343.54	343.44	343.44	343.39	
21	343.48	343.45	343.64	343.88	344.67	343.93	343.73	343.64	343.54	343.44	343.44	343.39	
22	343.48	343.47	343.63	343.72	344.37	343.92	343.70	343.63	343.54	343.45	343.44	343.39	
23	343.47	343.47	343.56	343.63	344.12	343.90	343.74	343.64	343.54	343.44	343.44	343.39	
24	343.47	343.46	343.54	343.78	344.01	343.87	344.04	343.64	343.54	343.44	343.44	343.39	
25	343.47	343.44	343.54	343.61	343.96	343.88	344.09	343.66	343.54	343.44	343.44	343.39	
26	343.48	343.44	343.54	343.81	344.56	344.28	344.22	343.64	343.54	343.44	343.44	343.39	
27	343.48	343.47	343.54	344.60	344.21	344.02	344.00	343.64	343.54	343.44	343.44	343.39	
28	343.48	343.56	343.54	344.44	344.11	344.04	343.73	343.64	343.54	343.44	343.44	343.39	
29	343.47	343.63	343.54	344.22	344.08	344.07	343.76	343.63	343.54	343.44		343.41	
30	343.47	343.64	343.54	344.19	344.46	344.43	343.83	343.62	343.54	343.44		343.44	
31		343.64		343.92	344.50		343.84		343.54	343.44		343.43	
Mean	343.46	343.54	343.60	343.86	344.12	344.24	343.84	343.75	343.55	343.46	343.44	343.40	
Max	343.48	343.64	343.75	344.60	344.67	345.28	344.22	344.03	343.64	343.54	343.45	343.44	345.28
Min	343.44	343.44	343.54	343.53	343.84	343.87	343.70	343.62	343.54	343.43	343.44	343.39	343.39

Annual Max Momentary Gage Height	345.53	m. (MSL.) ,	at 13.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	343.34	m. (MSL.) ,	River Bed	343.20	m. (MSL.)
Left Bank Elevation	347.66	m. (MSL.) ,			
Right Bank Elevation	346.40	m. (MSL.) ,	Drainage Area	1661	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.00	8.50	9.25	10.90	17.90	55.90	24.20	17.90	11.20	8.00	6.00	6.00		
2	6.00	8.50	10.60	10.30	17.90	39.60	21.40	17.55	10.60	7.50	6.00	6.00		
3	6.25	8.50	9.75	10.60	17.90	77.10	20.00	16.15	8.50	7.00	6.25	6.00		
4	6.00	8.50	9.00	8.50	18.95	55.45	17.90	16.85	8.50	6.50	6.00	6.00		
5	6.00	9.25	8.50	8.50	22.45	49.60	17.90	18.95	8.50	6.00	6.00	6.00		
6	6.00	11.20	8.50	8.50	37.20	43.60	17.90	21.05	8.50	6.50	6.00	6.00		
7	6.00	11.20	8.50	8.25	36.40	42.80	17.90	24.55	8.50	6.00	6.00	5.75		
8	6.00	11.20	8.50	11.20	31.20	40.80	17.20	23.15	8.50	6.50	6.00	4.75		
9	6.00	11.20	9.50	27.35	29.45	33.30	14.40	21.40	8.50	8.25	6.00	4.75		
10	6.00	11.20	14.75	21.75	36.40	27.35	14.40	16.85	8.50	8.50	6.00	4.75		
11	6.00	11.20	12.10	13.00	26.30	24.55	14.40	14.40	8.50	8.50	6.25	4.75		
12	6.00	11.20	11.20	13.00	20.35	24.90	15.45	14.40	8.50	7.75	6.00	4.75		
13	6.25	10.30	11.20	37.20	17.90	25.95	17.90	14.05	8.50	6.00	6.00	4.75		
14	6.50	7.75	11.20	35.20	19.65	29.10	17.90	14.40	8.50	6.50	6.00	4.75		
15	6.50	7.25	10.90	19.30	27.00	31.20	17.20	14.40	8.50	5.75	6.00	4.75		
16	6.50	7.25	9.25	13.70	23.85	28.75	14.40	14.40	8.50	5.75	6.00	4.75		
17	6.50	7.00	11.50	14.40	20.35	35.20	14.40	14.40	8.50	6.00	6.00	4.75		
18	6.75	7.00	11.80	15.10	18.95	23.85	14.40	14.40	8.50	6.00	6.00	4.75		
19	6.75	7.00	14.40	20.70	22.45	21.40	14.40	14.05	8.50	6.00	6.00	4.75		
20	7.00	6.75	13.70	27.70	35.60	20.70	14.40	13.00	8.50	6.00	6.00	4.75		
21	7.00	6.25	11.20	19.30	49.15	21.05	14.05	11.20	8.50	6.00	6.00	4.75		
22	7.00	6.75	10.90	13.70	36.80	20.70	13.00	10.90	8.50	6.25	6.00	4.75		
23	6.75	6.75	9.00	10.90	27.70	20.00	14.40	11.20	8.50	6.00	6.00	4.75		
24	6.75	6.50	8.50	15.80	23.85	18.95	24.90	11.20	8.50	6.00	6.00	4.75		
25	6.75	6.00	8.50	10.30	22.10	19.30	26.65	11.80	8.50	6.00	6.00	4.75		
26	7.00	6.00	8.50	16.85	44.40	33.30	31.20	11.20	8.50	6.00	6.00	4.75		
27	7.00	6.75	8.50	46.00	30.85	24.20	23.50	11.20	8.50	6.00	6.00	4.75		
28	7.00	9.00	8.50	39.60	27.35	24.90	14.05	11.20	8.50	6.00	6.00	4.75		
29	6.75	10.90	8.50	31.20	26.30	25.95	15.10	10.90	8.50	6.00		5.25		
30	6.75	11.20	8.50	30.15	40.40	39.20	17.55	10.60	8.50	6.00		6.00		
31		11.20		20.70	42.00		17.90		8.50	6.00		5.75		
Total	193.75	269.25	304.70	589.65	869.05	978.65	550.35	447.70	268.30	201.25	168.50	158.50	4999.65	CMSDAY
Mean	6.46	8.69	10.16	19.02	28.03	32.62	17.75	14.92	8.65	6.49	6.02	5.11	13.70	CMS
Max	7.00	11.20	14.75	46.00	49.15	77.10	31.20	24.55	11.20	8.50	6.25	6.00	77.10	CMS
Min	6.00	6.00	8.50	8.25	17.90	18.95	13.00	10.60	8.50	5.75	6.00	4.75	4.75	CMS
Runoff	16.74	23.26	26.33	50.95	75.09	84.56	47.55	38.68	23.18	17.39	14.56	13.69	431.97	MCM

Momentary Peak 89.50 CMS. at 345.53 m. (MSL.) at 13.00 Hours , on Sep 3 , 2014

Runoff Yield 8.25 Liters/Second/Square KM. Momentary Peak Yield 53.883 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Khod at Ban San Pu Loei, Chiang Mai (P.91)

Lat 19 - 05 - 42 N Long 99 - 10 - 44 E

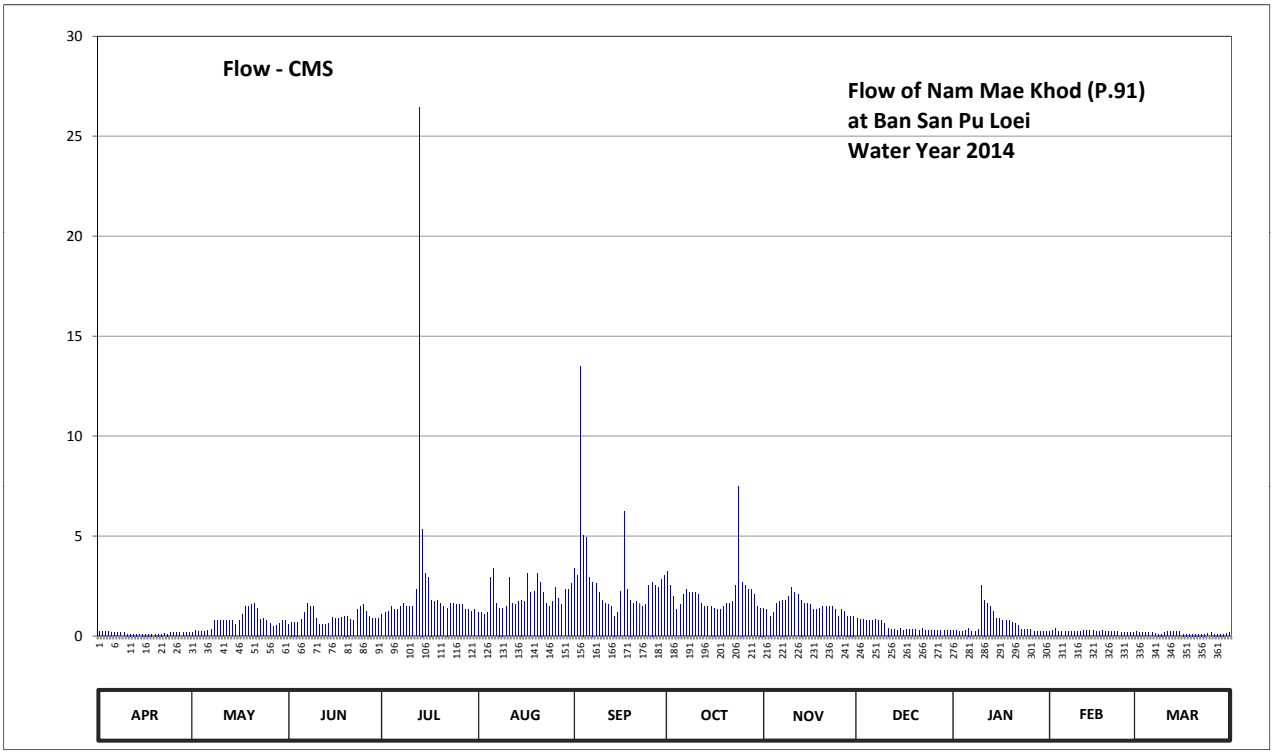
Location : on right bank at Ban San Pu Loei.

	Ban San Pu Loei	**Amphoe** Phrao	**Changwat** Chiang Mai
Drainge Area	130 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+413.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.		**Elevation** +419.380 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	413.44	413.43	413.53	413.61	413.62	413.86	413.85	413.65	413.58	413.46	413.45	413.44	
2	413.44	413.46	413.55	413.62	413.62	413.83	413.78	413.64	413.57	413.46	413.46	413.42	
3	413.44	413.44	413.55	413.63	413.61	414.40	413.72	413.60	413.57	413.45	413.49	413.42	
4	413.45	413.44	413.55	413.66	413.62	413.99	413.64	413.62	413.56	413.45	413.44	413.42	
5	413.43	413.45	413.57	413.64	413.82	413.98	413.67	413.68	413.56	413.46	413.44	413.42	
6	413.43	413.46	413.62	413.64	413.86	413.82	413.73	413.69	413.56	413.50	413.44	413.42	
7	413.43	413.47	413.68	413.66	413.68	413.80	413.76	413.70	413.57	413.44	413.44	413.41	
8	413.43	413.56	413.66	413.68	413.65	413.79	413.74	413.70	413.56	413.45	413.44	413.40	
9	413.42	413.56	413.66	413.66	413.65	413.74	413.74	413.72	413.56	413.48	413.44	413.40	
10	413.40	413.56	413.58	413.66	413.66	413.70	413.74	413.77	413.54	413.78	413.44	413.42	
11	413.40	413.56	413.53	413.66	413.82	413.68	413.73	413.74	413.50	413.70	413.44	413.45	
12	413.40	413.56	413.53	413.76	413.68	413.67	413.68	413.73	413.48	413.68	413.46	413.45	
13	413.40	413.56	413.53	414.81	413.67	413.66	413.66	413.70	413.47	413.66	413.46	413.45	
14	413.39	413.56	413.54	414.01	413.69	413.60	413.66	413.68	413.46	413.63	413.46	413.45	
15	413.40	413.53	413.59	413.84	413.70	413.62	413.66	413.68	413.49	413.58	413.46	413.44	
16	413.40	413.56	413.58	413.82	413.69	413.75	413.65	413.67	413.46	413.58	413.45	413.40	
17	413.40	413.61	413.58	413.70	413.84	414.07	413.64	413.64	413.47	413.56	413.45	413.40	
18	413.40	413.66	413.59	413.69	413.74	413.76	413.64	413.64	413.48	413.56	413.46	413.40	
19	413.40	413.66	413.60	413.70	413.75	413.70	413.66	413.65	413.48	413.56	413.45	413.40	
20	413.40	413.67	413.60	413.68	413.84	413.68	413.68	413.66	413.47	413.55	413.44	413.40	
21	413.40	413.68	413.57	413.66	413.80	413.69	413.68	413.66	413.46	413.54	413.44	413.40	
22	413.41	413.65	413.56	413.65	413.74	413.68	413.69	413.66	413.49	413.52	413.44	413.40	
23	413.40	413.57	413.64	413.68	413.68	413.66	413.78	413.66	413.46	413.48	413.44	413.40	
24	413.42	413.58	413.66	413.68	413.66	413.67	414.14	413.64	413.46	413.48	413.43	413.41	
25	413.42	413.56	413.67	413.67	413.69	413.78	413.80	413.60	413.46	413.48	413.43	413.42	
26	413.42	413.54	413.63	413.67	413.77	413.80	413.78	413.64	413.46	413.48	413.42	413.40	
27	413.42	413.51	413.60	413.67	413.71	413.78	413.76	413.63	413.46	413.45	413.42	413.40	
28	413.42	413.52	413.58	413.64	413.67	413.77	413.76	413.60	413.46	413.45	413.43	413.40	
29	413.42	413.54	413.58	413.64	413.76	413.81	413.73	413.60	413.46	413.45		413.40	
30	413.42	413.56	413.58	413.63	413.76	413.83	413.66	413.60	413.46	413.45		413.41	
31		413.56		413.64	413.79		413.65		413.46	413.45		413.42	
Mean	413.42	413.55	413.59	413.72	413.72	413.79	413.72	413.66	413.50	413.52	413.45	413.42	
Max	413.45	413.68	413.68	414.81	413.86	414.40	414.14	413.77	413.58	413.78	413.49	413.45	414.81
Min	413.39	413.43	413.53	413.61	413.61	413.60	413.64	413.60	413.46	413.44	413.42	413.40	413.39

Annual Max Momentary Gage Height	415.06	m. (MSL.) ,	at 12.00 Hours , on Jul 13 , 2014		
Zero Gage at Bottom Elevation	413.10	m. (MSL.) ,	River Bed	412.23	m. (MSL.)
Left Bank Elevation	418.78	m. (MSL.) ,			
Right Bank Elevation	418.84	m. (MSL.) ,	Drainage Area	130	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.22	0.19	0.58	1.08	1.16	3.36	3.25	1.40	0.88	0.28	0.25	0.22		
2	0.22	0.28	0.70	1.16	1.16	3.03	2.52	1.32	0.82	0.28	0.28	0.16		
3	0.22	0.22	0.70	1.24	1.08	13.50	1.98	1.00	0.82	0.25	0.37	0.16		
4	0.25	0.22	0.70	1.48	1.16	5.06	1.32	1.16	0.76	0.25	0.22	0.16		
5	0.19	0.25	0.82	1.32	2.92	4.92	1.56	1.64	0.76	0.28	0.22	0.16		
6	0.19	0.28	1.16	1.32	3.36	2.92	2.07	1.72	0.76	0.40	0.22	0.16		
7	0.19	0.31	1.64	1.48	1.64	2.70	2.34	1.80	0.82	0.22	0.22	0.13		
8	0.19	0.76	1.48	1.64	1.40	2.61	2.16	1.80	0.76	0.25	0.22	0.10		
9	0.16	0.76	1.48	1.48	1.40	2.16	2.16	1.98	0.76	0.34	0.22	0.10		
10	0.10	0.76	0.88	1.48	1.48	1.80	2.16	2.43	0.64	2.52	0.22	0.16		
11	0.10	0.76	0.58	1.48	2.92	1.64	2.07	2.16	0.40	1.80	0.22	0.25		
12	0.10	0.76	0.58	2.34	1.64	1.56	1.64	2.07	0.34	1.64	0.28	0.25		
13	0.10	0.76	0.58	26.43	1.56	1.48	1.48	1.80	0.31	1.48	0.28	0.25		
14	0.09	0.76	0.64	5.35	1.72	1.00	1.48	1.64	0.28	1.24	0.28	0.25		
15	0.10	0.58	0.94	3.14	1.80	1.16	1.48	1.64	0.37	0.88	0.28	0.22		
16	0.10	0.76	0.88	2.92	1.72	2.25	1.40	1.56	0.28	0.88	0.25	0.10		
17	0.10	1.08	0.88	1.80	3.14	6.25	1.32	1.32	0.31	0.76	0.25	0.10		
18	0.10	1.48	0.94	1.72	2.16	2.34	1.32	1.32	0.34	0.76	0.28	0.10		
19	0.10	1.48	1.00	1.80	2.25	1.80	1.48	1.40	0.34	0.76	0.25	0.10		
20	0.10	1.56	1.00	1.64	3.14	1.64	1.64	1.48	0.31	0.70	0.22	0.10		
21	0.10	1.64	0.82	1.48	2.70	1.72	1.64	1.48	0.28	0.64	0.22	0.10		
22	0.13	1.40	0.76	1.40	2.16	1.64	1.72	1.48	0.37	0.52	0.22	0.10		
23	0.10	0.82	1.32	1.64	1.64	1.48	2.52	1.48	0.28	0.34	0.22	0.10		
24	0.16	0.88	1.48	1.64	1.48	1.56	7.50	1.32	0.28	0.34	0.19	0.13		
25	0.16	0.76	1.56	1.56	1.72	2.52	2.70	1.00	0.28	0.34	0.19	0.16		
26	0.16	0.64	1.24	1.56	2.43	2.70	2.52	1.32	0.28	0.34	0.16	0.10		
27	0.16	0.46	1.00	1.56	1.89	2.52	2.34	1.24	0.28	0.25	0.16	0.10		
28	0.16	0.52	0.88	1.32	1.56	2.43	2.34	1.00	0.28	0.25	0.19	0.10		
29	0.16	0.64	0.88	1.32	2.34	2.81	2.07	1.00	0.28	0.25		0.10		
30	0.16	0.76	0.88	1.24	2.34	3.03	1.48	1.00	0.28	0.25		0.13		
31		0.76		1.32	2.61		1.40		0.28	0.25		0.16		
Total	4.37	23.29	28.98	78.34	61.68	85.59	65.06	44.96	14.23	19.74	6.58	4.51	437.33	CMSDAY
Mean	0.15	0.75	0.97	2.53	1.99	2.85	2.10	1.50	0.46	0.64	0.23	0.15	1.20	CMS
Max	0.25	1.64	1.64	26.43	3.36	13.50	7.50	2.43	0.88	2.52	0.37	0.25	26.43	CMS
Min	0.09	0.19	0.58	1.08	1.08	1.00	1.32	1.00	0.28	0.22	0.16	0.10	0.09	CMS
Runoff	0.38	2.01	2.50	6.77	5.33	7.40	5.62	3.89	1.23	1.71	0.57	0.39	37.79	MCM

Momentary Peak 37.24 CMS. at 415.06 m. (MSL.) at 12.00 Hours , on Jul 13 , 2014

Runoff Yield 9.22 Liters/Second/Square KM. Momentary Peak Yield 286.462 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Mueang Kud.

	Ban Mueang Kud	**Amphoe** Mae Taeng	**Changwat** Chiang Mai
Drainge Area	1,653 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+440.645 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +447.535 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

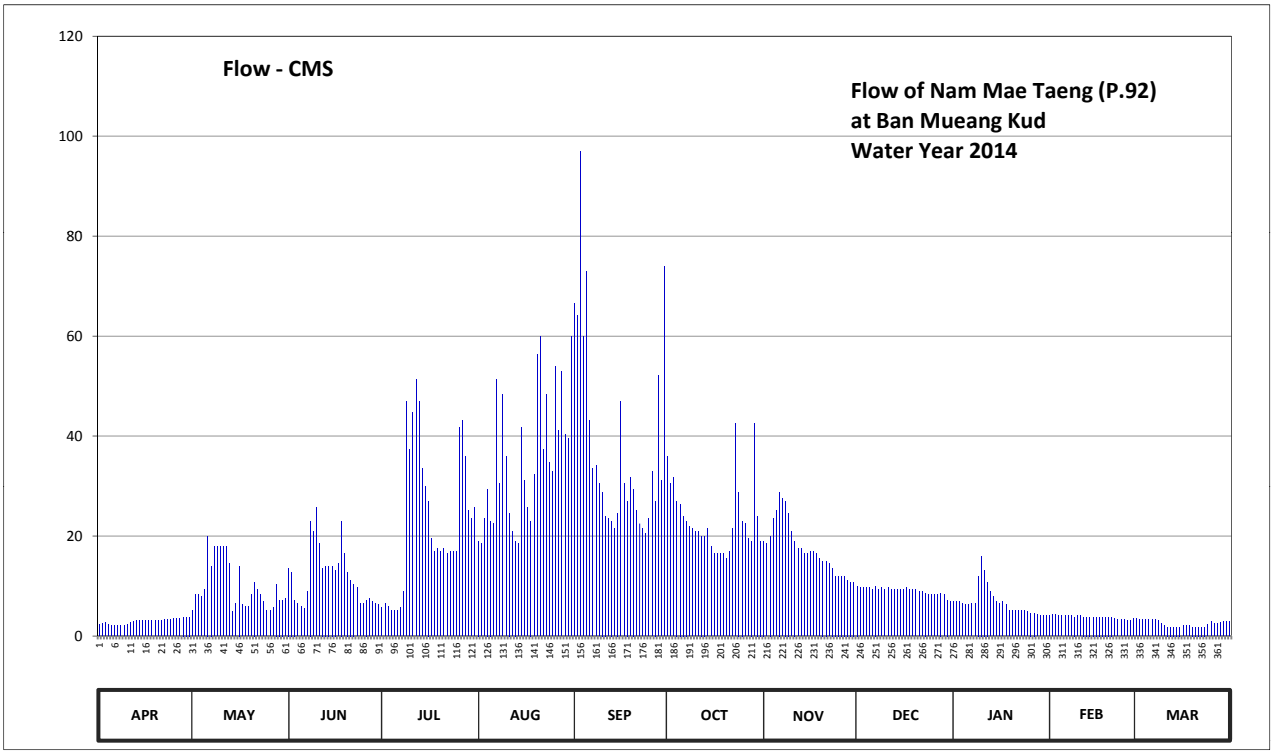
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	440.63	440.75	440.99	440.77	441.10	441.79	441.40	441.10	440.90	440.81	440.71	440.69	
2	440.64	440.85	440.97	440.80	441.09	441.76	441.31	441.09	440.89	440.81	440.72	440.68	
3	440.65	440.85	440.82	440.78	441.19	442.10	441.33	441.12	440.89	440.81	440.72	440.68	
4	440.63	440.84	440.80	440.75	441.29	441.71	441.25	441.19	440.89	440.80	440.71	440.68	
5	440.62	440.88	440.78	440.75	441.18	441.86	441.24	441.22	440.89	440.79	440.71	440.68	
6	440.62	441.12	440.76	440.75	441.17	441.50	441.20	441.28	440.88	440.79	440.71	440.68	
7	440.62	441.00	440.87	440.77	441.61	441.36	441.18	441.26	440.90	440.80	440.71	440.68	
8	440.62	441.08	441.18	440.87	441.31	441.37	441.16	441.25	440.88	440.80	440.71	440.67	
9	440.62	441.08	441.14	441.55	441.57	441.31	441.15	441.21	440.89	440.95	440.70	440.64	
10	440.63	441.08	441.23	441.42	441.40	441.28	441.14	441.14	440.88	441.04	440.71	440.62	
11	440.65	441.08	441.09	441.52	441.21	441.20	441.14	441.10	440.89	440.98	440.71	440.61	
12	440.66	441.08	440.99	441.61	441.14	441.19	441.12	441.07	440.88	440.92	440.70	440.61	
13	440.67	441.01	441.00	441.55	441.10	441.18	441.12	441.07	440.88	440.87	440.70	440.61	
14	440.67	440.74	441.00	441.36	441.09	441.15	441.15	441.05	440.88	440.84	440.70	440.61	
15	440.67	440.80	441.00	441.30	441.48	441.21	441.08	441.05	440.88	440.81	440.70	440.61	
16	440.67	441.00	440.98	441.25	441.32	441.55	441.05	441.06	440.88	440.80	440.70	440.62	
17	440.67	440.79	441.01	441.11	441.23	441.31	441.05	441.06	440.89	440.81	440.70	440.62	
18	440.67	440.78	441.18	441.06	441.18	441.25	441.05	441.05	440.88	440.79	440.70	440.62	
19	440.67	440.78	441.05	441.07	441.34	441.33	441.05	441.03	440.88	440.75	440.70	440.61	
20	440.67	440.85	440.97	441.06	441.67	441.29	441.03	441.02	440.88	440.75	440.70	440.61	
21	440.67	440.92	440.93	441.07	441.71	441.22	441.06	441.02	440.87	440.75	440.70	440.61	
22	440.68	440.88	440.91	441.05	441.42	441.17	441.15	441.01	440.87	440.75	440.69	440.61	
23	440.68	440.85	440.89	441.06	441.57	441.15	441.49	440.99	440.86	440.75	440.68	440.61	
24	440.68	440.81	440.80	441.06	441.38	441.13	441.28	440.95	440.85	440.75	440.68	440.63	
25	440.69	440.75	440.80	441.06	441.35	441.19	441.18	440.95	440.85	440.74	440.68	440.66	
26	440.69	440.75	440.82	441.48	441.64	441.35	441.17	440.95	440.85	440.73	440.67	440.64	
27	440.69	440.77	440.83	441.50	441.47	441.25	441.11	440.95	440.85	440.73	440.67	440.64	
28	440.70	440.91	440.81	441.40	441.63	441.62	441.10	440.93	440.86	440.72	440.69	440.65	
29	440.70	440.82	440.80	441.22	441.46	441.32	441.49	440.92	440.85	440.71		440.66	
30	440.70	440.82	440.79	441.19	441.45	441.87	441.20	440.92	440.82	440.71		440.66	
31		440.83		441.23	441.71		441.10		440.81	440.71		440.66	
Mean	440.66	440.89	440.94	441.14	441.37	441.40	441.18	441.07	440.87	440.80	440.70	440.64	
Max	440.70	441.12	441.23	441.61	441.71	442.10	441.49	441.28	440.90	441.04	440.72	440.69	442.10
Min	440.62	440.74	440.76	440.75	441.09	441.13	441.03	440.92	440.81	440.71	440.67	440.61	440.61

Annual Max Momentary Gage Height 442.30 m. (MSL.) , at 17.00 Hours , on Sep 3 , 2014

Zero Gage at Bottom Elevation 440.64 m. (MSL.) , River Bed 439.89 m. (MSL.)

Left Bank Elevation 447.41 m. (MSL.) ,

Right Bank Elevation 447.31 m. (MSL.) , Drainage Area 1653 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.26	5.15	13.60	5.69	19.00	66.65	36.00	19.00	10.00	6.85	4.07	3.58		
2	2.48	8.25	12.80	6.50	18.50	64.10	30.60	18.50	9.65	6.85	4.34	3.36		
3	2.70	8.25	7.20	5.96	23.50	97.00	31.80	20.00	9.65	6.85	4.34	3.36		
4	2.26	7.90	6.50	5.15	29.40	59.85	27.00	23.50	9.65	6.50	4.07	3.36		
5	2.04	9.30	5.96	5.15	23.00	73.05	26.40	25.20	9.65	6.23	4.07	3.36		
6	2.04	20.00	5.42	5.15	22.50	43.25	24.00	28.80	9.30	6.23	4.07	3.36		
7	2.04	14.00	8.95	5.69	51.35	33.60	23.00	27.60	10.00	6.50	4.07	3.36		
8	2.04	18.00	23.00	8.95	30.60	34.20	22.00	27.00	9.30	6.50	4.07	3.14		
9	2.04	18.00	21.00	46.87	48.33	30.60	21.50	24.60	9.65	12.00	3.80	2.48		
10	2.26	18.00	25.80	37.45	36.00	28.80	21.00	21.00	9.30	16.00	4.07	2.04		
11	2.70	18.00	18.50	44.70	24.60	24.00	21.00	19.00	9.65	13.20	4.07	1.82		
12	2.92	18.00	13.60	51.35	21.00	23.50	20.00	17.50	9.30	10.80	3.80	1.82		
13	3.14	14.50	14.00	46.87	19.00	23.00	20.00	17.50	9.30	8.95	3.80	1.82		
14	3.14	4.88	14.00	33.60	18.50	21.50	21.50	16.50	9.30	7.90	3.80	1.82		
15	3.14	6.50	14.00	30.00	41.80	24.60	18.00	16.50	9.30	6.85	3.80	1.82		
16	3.14	14.00	13.20	27.00	31.20	46.87	16.50	17.00	9.30	6.50	3.80	2.04		
17	3.14	6.23	14.50	19.50	25.80	30.60	16.50	17.00	9.65	6.85	3.80	2.04		
18	3.14	5.96	23.00	17.00	23.00	27.00	16.50	16.50	9.30	6.23	3.80	2.04		
19	3.14	5.96	16.50	17.50	32.40	31.80	16.50	15.50	9.30	5.15	3.80	1.82		
20	3.14	8.25	12.80	17.00	56.45	29.40	15.50	15.00	9.30	5.15	3.80	1.82		
21	3.14	10.80	11.20	17.50	59.85	25.20	17.00	15.00	8.95	5.15	3.80	1.82		
22	3.36	9.30	10.40	16.50	37.45	22.50	21.50	14.50	8.95	5.15	3.58	1.82		
23	3.36	8.25	9.65	17.00	48.33	21.50	42.52	13.60	8.60	5.15	3.36	1.82		
24	3.36	6.85	6.50	17.00	34.80	20.50	28.80	12.00	8.25	5.15	3.36	2.26		
25	3.58	5.15	6.50	17.00	33.00	23.50	23.00	12.00	8.25	4.88	3.36	2.92		
26	3.58	5.15	7.20	41.80	53.90	33.00	22.50	12.00	8.25	4.61	3.14	2.48		
27	3.58	5.69	7.55	43.25	41.08	27.00	19.50	12.00	8.25	4.61	3.14	2.48		
28	3.80	10.40	6.85	36.00	53.05	52.20	19.00	11.20	8.60	4.34	3.58	2.70		
29	3.80	7.20	6.50	25.20	40.35	31.20	42.52	10.80	8.25	4.07		2.92		
30	3.80	7.20	6.23	23.50	39.63	73.98	24.00	10.80	7.20	4.07		2.92		
31		7.55		25.80	59.85		19.00		6.85	4.07		2.92		
Total	88.26	312.67	362.91	717.63	1097.22	1143.95	724.64	527.10	280.25	209.34	106.56	77.32	5647.85	CMSDAY
Mean	2.94	10.09	12.10	23.15	35.39	38.13	23.38	17.57	9.04	6.75	3.81	2.49	15.47	CMS
Max	3.80	20.00	25.80	51.35	59.85	97.00	42.52	28.80	10.00	16.00	4.34	3.58	97.00	CMS
Min	2.04	4.88	5.42	5.15	18.50	20.50	15.50	10.80	6.85	4.07	3.14	1.82	1.82	CMS
Runoff	7.63	27.02	31.36	62.00	94.80	98.84	62.61	45.54	24.21	18.09	9.21	6.68	487.97	MCM

Momentary Peak 123.00 CMS. at 442.30 m. (MSL.) at 17.00 Hours , on Sep 3 , 2014

Runoff Yield 9.36 Liters/Second/Square KM. Momentary Peak Yield 74.410 Liters/Second/Square KM.

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Rim at Ban Saluang Nok, Chiang Mai (P.93)

Lat 19 - 00 - 54 N Long 98 - 52 - 50 E

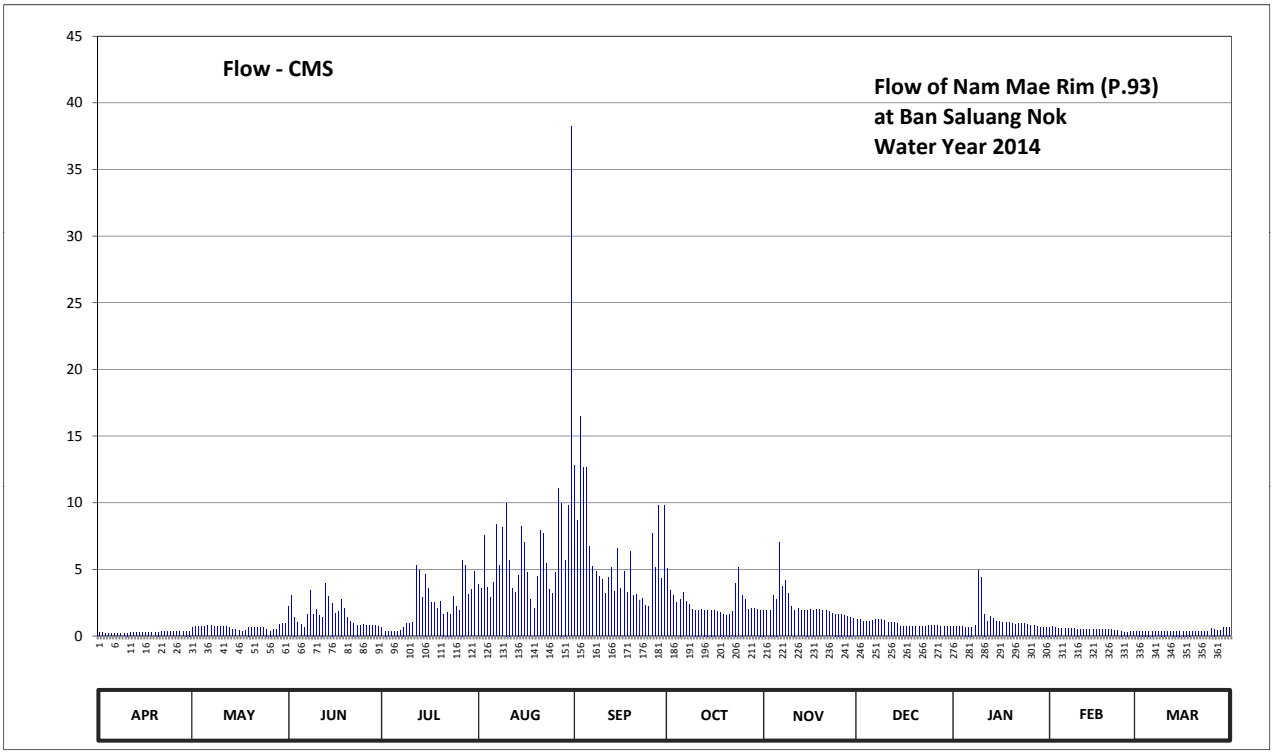
Location : on left bank at Ban Saluang Nok.

	Ban	Saluang Nok	**Amphoe**	Mae Rim	**Changwat** Chiang Mai
Drainge Area	411	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+340.588 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the gage site.				**Elevation** +344.720 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2011 to date				
Rating Operation					
Period of Rating	2011 to date				
Rated by Flot	-				
Rated by Current Meter	2011 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.49	340.64	341.04	340.64	341.30	342.20	341.47	340.99	340.84	340.67	340.66	340.52	
2	340.47	340.68	341.17	340.54	341.26	341.87	341.23	340.98	340.83	340.67	340.67	340.54	
3	340.45	340.68	340.88	340.51	341.76	342.46	341.17	340.99	340.79	340.67	340.66	340.54	
4	340.44	340.68	340.78	340.52	341.27	342.19	341.09	341.18	340.79	340.67	340.62	340.54	
5	340.45	340.68	340.73	340.53	341.15	342.19	341.13	341.13	340.79	340.66	340.62	340.54	
6	340.45	340.69	340.64	340.54	341.33	341.67	341.21	341.70	340.81	340.66	340.62	340.54	
7	340.44	340.69	340.93	340.55	341.84	341.49	341.10	341.28	340.83	340.66	340.62	340.53	
8	340.44	340.67	341.23	340.66	341.50	341.44	341.06	341.35	340.83	340.69	340.62	340.51	
9	340.45	340.67	340.93	340.74	341.82	341.39	341.00	341.20	340.83	341.45	340.62	340.54	
10	340.46	340.67	341.00	340.74	341.99	341.36	340.99	341.04	340.82	341.38	340.61	340.54	
11	340.47	340.67	340.91	340.78	341.55	341.20	340.99	340.99	340.78	340.93	340.60	340.53	
12	340.47	340.67	340.88	341.50	341.26	341.38	341.00	341.01	340.78	340.80	340.59	340.53	
13	340.48	340.64	341.31	341.45	341.21	341.48	340.99	340.98	340.78	340.89	340.59	340.54	
14	340.48	340.58	341.16	341.15	341.41	341.22	340.99	340.98	340.74	340.85	340.59	340.54	
15	340.48	340.58	341.08	341.42	341.83	341.65	340.99	340.99	340.67	340.79	340.59	340.54	
16	340.48	340.55	340.94	341.26	341.70	341.26	340.99	341.00	340.68	340.79	340.59	340.54	
17	340.49	340.51	340.97	341.09	341.43	341.44	340.97	340.99	340.67	340.78	340.59	340.54	
18	340.49	340.55	341.13	341.09	341.12	341.21	340.96	341.00	340.67	340.78	340.59	340.54	
19	340.49	340.66	341.01	341.01	341.01	341.63	340.93	341.00	340.68	340.78	340.59	340.52	
20	340.50	340.65	340.87	341.10	341.39	341.17	340.91	340.98	340.68	340.76	340.58	340.51	
21	340.51	340.65	340.79	340.93	341.80	341.19	340.93	340.98	340.68	340.73	340.58	340.52	
22	340.51	340.65	340.76	340.96	341.78	341.12	340.97	340.97	340.68	340.74	340.57	340.52	
23	340.52	340.65	340.71	340.93	341.52	341.14	341.32	340.94	340.68	340.74	340.56	340.52	
24	340.52	340.65	340.69	341.16	341.25	341.05	341.48	340.93	340.69	340.74	340.54	340.53	
25	340.52	340.61	340.73	341.04	341.20	341.04	341.18	340.93	340.69	340.73	340.49	340.62	
26	340.53	340.54	340.69	340.98	341.43	341.78	341.12	340.93	340.69	340.70	340.50	340.61	
27	340.53	340.58	340.69	341.55	342.07	341.48	341.00	340.91	340.69	340.70	340.51	340.55	
28	340.53	340.61	340.69	341.50	341.99	341.97	341.01	340.90	340.68	340.68	340.51	340.57	
29	340.54	340.73	340.69	341.19	341.55	341.37	341.01	340.88	340.68	340.66		340.64	
30	340.54	340.74	340.67	341.25	341.97	341.97	341.00	340.85	340.67	340.66		340.64	
31		340.74		341.44	343.53		340.99		340.67	340.66		340.65	
Mean	340.49	340.64	340.89	340.99	341.59	341.53	341.07	341.03	340.74	340.78	340.59	340.55	
Max	340.54	340.74	341.31	341.55	343.53	342.46	341.48	341.70	340.84	341.45	340.67	340.65	343.53
Min	340.44	340.51	340.64	340.51	341.01	341.04	340.91	340.85	340.67	340.66	340.49	340.51	340.44

Annual Max Momentary Gage Height	343.84	m. (MSL.) ,	at 12.00 Hours , on Aug 31 , 2014			
Zero Gage at Bottom Elevation	340.59	m. (MSL.) ,	River Bed	340.21	m. (MSL.)	
Left Bank Elevation	344.27	m. (MSL.) ,				
Right Bank Elevation	344.08	m. (MSL.) ,	Drainage Area	411	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.28	0.62	2.24	0.62	3.85	12.80	5.06	1.95	1.26	0.71	0.68	0.34		
2	0.24	0.74	3.02	0.38	3.59	8.67	3.40	1.90	1.22	0.71	0.71	0.38		
3	0.20	0.74	1.42	0.32	7.54	16.46	3.02	1.95	1.07	0.71	0.68	0.38		
4	0.18	0.74	1.04	0.34	3.65	12.67	2.54	3.08	1.07	0.71	0.56	0.38		
5	0.20	0.74	0.89	0.36	2.90	12.67	2.78	2.78	1.07	0.68	0.56	0.38		
6	0.20	0.77	0.62	0.38	4.04	6.73	3.26	7.00	1.14	0.68	0.56	0.38		
7	0.18	0.77	1.65	0.40	8.34	5.22	2.60	3.72	1.22	0.68	0.56	0.36		
8	0.18	0.71	3.40	0.68	5.30	4.82	2.36	4.18	1.22	0.77	0.56	0.32		
9	0.20	0.71	1.65	0.92	8.12	4.44	2.00	3.20	1.22	4.90	0.56	0.38		
10	0.22	0.71	2.00	0.92	9.99	4.24	1.95	2.24	1.18	4.37	0.53	0.38		
11	0.24	0.71	1.55	1.04	5.70	3.20	1.95	1.95	1.04	1.65	0.50	0.36		
12	0.24	0.71	1.42	5.30	3.59	4.37	2.00	2.06	1.04	1.10	0.48	0.36		
13	0.26	0.62	3.91	4.90	3.26	5.14	1.95	1.90	1.04	1.46	0.48	0.38		
14	0.26	0.46	2.96	2.90	4.58	3.33	1.95	1.90	0.92	1.30	0.48	0.38		
15	0.26	0.46	2.48	4.66	8.23	6.55	1.95	1.95	0.71	1.07	0.48	0.38		
16	0.26	0.40	1.70	3.59	7.00	3.59	1.95	2.00	0.74	1.07	0.48	0.38		
17	0.28	0.32	1.85	2.54	4.74	4.82	1.85	1.95	0.71	1.04	0.48	0.38		
18	0.28	0.40	2.78	2.54	2.72	3.26	1.80	2.00	0.71	1.04	0.48	0.38		
19	0.28	0.68	2.06	2.06	2.06	6.37	1.65	2.00	0.74	1.04	0.48	0.34		
20	0.30	0.65	1.38	2.60	4.44	3.02	1.55	1.90	0.74	0.98	0.46	0.32		
21	0.32	0.65	1.07	1.65	7.90	3.14	1.65	1.90	0.74	0.89	0.46	0.34		
22	0.32	0.65	0.98	1.80	7.72	2.72	1.85	1.85	0.74	0.92	0.44	0.34		
23	0.34	0.65	0.83	1.65	5.46	2.84	3.98	1.70	0.74	0.92	0.42	0.34		
24	0.34	0.65	0.77	2.96	3.52	2.30	5.14	1.65	0.77	0.92	0.38	0.36		
25	0.34	0.53	0.89	2.24	3.20	2.24	3.08	1.65	0.77	0.89	0.28	0.56		
26	0.36	0.38	0.77	1.90	4.74	7.72	2.72	1.65	0.77	0.80	0.30	0.53		
27	0.36	0.46	0.77	5.70	11.05	5.14	2.00	1.55	0.77	0.80	0.32	0.40		
28	0.36	0.53	0.77	5.30	9.99	9.77	2.06	1.50	0.74	0.74	0.32	0.44		
29	0.38	0.89	0.77	3.14	5.70	4.30	2.06	1.42	0.74	0.68		0.62		
30	0.38	0.92	0.71	3.52	9.77	9.77	2.00	1.30	0.71	0.68		0.62		
31		0.92		4.82	38.25		1.95		0.71	0.68		0.65		
Total	8.24	19.89	48.35	72.13	210.94	182.31	76.06	67.78	28.26	35.59	13.68	12.54	775.77	CMSDAY
Mean	0.27	0.64	1.61	2.33	6.80	6.08	2.45	2.26	0.91	1.15	0.49	0.40	2.13	CMS
Max	0.38	0.92	3.91	5.70	38.25	16.46	5.14	7.00	1.26	4.90	0.71	0.65	38.25	CMS
Min	0.18	0.32	0.62	0.32	2.06	2.24	1.55	1.30	0.71	0.68	0.28	0.32	0.18	CMS
Runoff	0.71	1.72	4.18	6.23	18.23	15.75	6.57	5.86	2.44	3.08	1.18	1.08	67.03	MCM

Momentary Peak 46.86 CMS. at 343.84 m. (MSL.) at 12.00 Hours , on Aug 31 , 2014

Runoff Yield 5.17 Liters/Second/Square KM. Momentary Peak Yield 114.015 Liters/Second/Square KM.

WATER YEAR : 2014

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 mean of 24 readings		
Period of Available Gage Records	1990 - 1998, 2006 to date		
Rating Operation			
Period of Rating	1990 - 1998, 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1990 - 1998, 2006 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 53 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

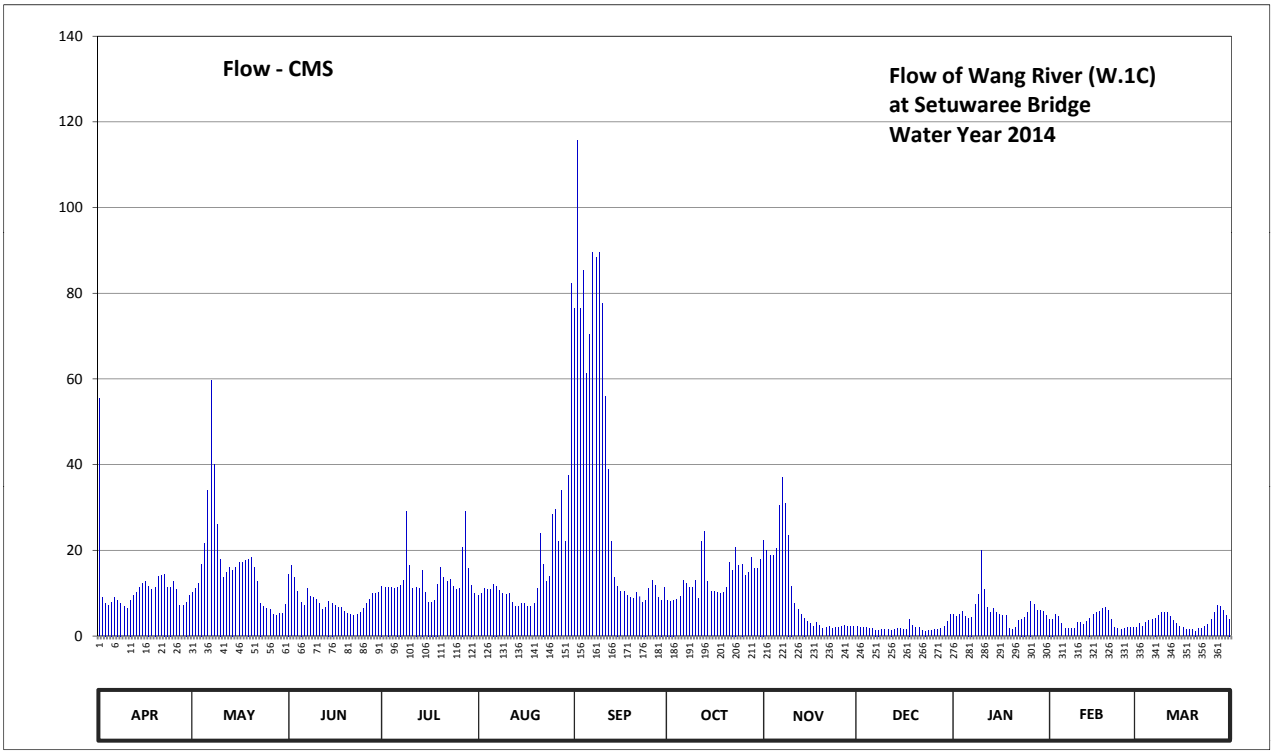
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.99	228.97	229.15	229.04	228.94	230.34	228.89	229.36	228.61	228.74	228.69	228.60	
2	228.92	229.01	229.21	229.02	228.96	230.98	228.88	229.30	228.60	228.72	228.69	228.64	
3	228.86	229.07	229.12	229.03	229.01	230.34	228.89	229.27	228.59	228.74	228.74	228.61	
4	228.83	229.22	228.98	229.02	229.00	230.49	228.90	229.27	228.59	228.77	228.72	228.65	
5	228.87	229.34	228.87	229.01	229.00	230.09	228.93	229.31	228.58	228.72	228.64	228.67	
6	228.92	229.60	228.83	229.03	229.06	230.24	229.10	229.53	228.57	228.70	228.58	228.68	
7	228.89	230.06	229.01	229.05	229.04	230.56	229.07	229.66	228.54	228.71	228.58	228.70	
8	228.86	229.72	228.93	229.10	228.99	230.54	229.02	229.54	228.54	228.84	228.58	228.73	
9	228.82	229.44	228.92	229.50	228.96	230.56	229.02	229.39	228.55	228.95	228.58	228.76	
10	228.80	229.25	228.90	229.21	228.95	230.36	229.10	229.04	228.55	229.30	228.65	228.76	
11	228.89	229.12	228.85	229.01	228.96	230.00	228.91	228.85	228.55	229.00	228.65	228.76	
12	228.94	229.16	228.79	229.03	228.87	229.70	229.35	228.79	228.54	228.81	228.63	228.72	
13	228.97	229.20	228.81	229.01	228.82	229.35	229.41	228.74	228.55	228.76	228.66	228.67	
14	229.02	229.18	228.88	229.18	228.82	229.12	229.09	228.70	228.57	228.80	228.70	228.64	
15	229.07	229.20	228.86	228.97	228.85	229.04	228.98	228.66	228.58	228.76	228.74	228.61	
16	229.09	229.23	228.83	228.87	228.85	228.98	228.98	228.64	228.55	228.74	228.76	228.60	
17	229.04	229.23	228.81	228.87	228.82	228.98	228.97	228.61	228.56	228.73	228.77	228.55	
18	229.00	229.24	228.81	228.89	228.82	228.94	228.96	228.65	228.69	228.73	228.80	228.56	
19	229.03	229.25	228.77	229.06	228.85	228.92	228.97	228.62	228.62	228.58	228.81	228.55	
20	229.13	229.26	228.75	229.20	229.01	228.91	229.02	228.58	228.60	228.55	228.78	228.52	
21	229.14	229.20	228.74	229.12	229.40	228.97	229.23	228.59	228.60	228.59	228.68	228.57	
22	229.15	229.09	228.73	229.09	229.22	228.93	229.18	228.61	228.53	228.67	228.60	228.57	
23	229.03	228.86	228.74	229.11	229.09	228.87	229.32	228.58	228.52	228.69	228.57	228.61	
24	229.03	228.82	228.76	229.04	229.13	228.89	229.21	228.60	228.53	228.71	228.56	228.63	
25	229.09	228.80	228.80	229.00	229.49	229.01	229.22	228.60	228.53	228.76	228.57	228.68	
26	229.00	228.79	228.85	229.01	229.51	229.10	229.14	228.61	228.55	228.88	228.60	228.76	
27	228.83	228.74	228.90	229.32	229.35	229.05	229.16	228.62	228.56	228.84	228.60	228.83	
28	228.83	228.73	228.96	229.50	229.60	228.92	229.26	228.61	228.57	228.78	228.59	228.82	
29	228.87	228.75	228.96	229.19	229.35	228.89	229.19	228.61	228.61	228.78		228.78	
30	228.94	228.75	228.97	229.05	229.67	229.02	229.19	228.61	228.66	228.77		228.73	
31		228.84		228.96	230.44		229.25		228.74	228.73		228.69	
Mean	228.99	229.13	228.88	229.08	229.12	229.54	229.09	228.88	228.58	228.77	228.66	228.67	
Max	229.99	230.06	229.21	229.50	230.44	230.98	229.41	229.66	228.74	229.30	228.81	228.83	230.98
Min	228.80	228.73	228.73	228.87	228.82	228.87	228.88	228.58	228.52	228.55	228.56	228.52	228.52

Annual Max Momentary Gage Height 231.41 m. (MSL.) , at 17.00 Hours , on Sep 2 , 2014

Zero Gage at Bottom Elevation 229.30 m. (MSL.) , River Bed 226.50 m. (MSL.)

Left Bank Elevation 234.69 m. (MSL.) ,

Right Bank Elevation 235.05 m. (MSL.) , Drainage Area 3478 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	55.40	10.14	14.50	11.68	9.48	76.40	8.38	22.40	2.22	5.08	3.98	2.00		
2	9.04	11.02	16.40	11.24	9.92	115.60	8.16	20.00	2.00	4.64	3.98	2.88		
3	7.72	12.34	13.60	11.46	11.02	76.40	8.38	18.80	1.90	5.08	5.08	2.22		
4	7.06	16.80	10.36	11.24	10.80	85.40	8.60	18.80	1.90	5.74	4.64	3.10		
5	7.94	21.60	7.94	11.02	10.80	61.40	9.26	20.40	1.80	4.64	2.88	3.54		
6	9.04	34.00	7.06	11.46	12.12	70.40	13.00	30.50	1.70	4.20	1.80	3.76		
7	8.38	59.60	11.02	11.90	11.68	89.60	12.34	37.00	1.40	4.42	1.80	4.20		
8	7.72	40.00	9.26	13.00	10.58	88.40	11.24	31.00	1.40	7.28	1.80	4.86		
9	6.84	26.00	9.04	29.00	9.92	89.60	11.24	23.60	1.50	9.70	1.80	5.52		
10	6.40	18.00	8.60	16.40	9.70	77.60	13.00	11.68	1.50	20.00	3.10	5.52		
11	8.38	13.60	7.50	11.02	9.92	56.00	8.82	7.50	1.50	10.80	3.10	5.52		
12	9.48	14.80	6.18	11.46	7.94	39.00	22.00	6.18	1.40	6.62	2.66	4.64		
13	10.14	16.00	6.62	11.02	6.84	22.00	24.50	5.08	1.50	5.52	3.32	3.54		
14	11.24	15.40	8.16	15.40	6.84	13.60	12.78	4.20	1.70	6.40	4.20	2.88		
15	12.34	16.00	7.72	10.14	7.50	11.68	10.36	3.32	1.80	5.52	5.08	2.22		
16	12.78	17.20	7.06	7.94	7.50	10.36	10.36	2.88	1.50	5.08	5.52	2.00		
17	11.68	17.20	6.62	7.94	6.84	10.36	10.14	2.22	1.60	4.86	5.74	1.50		
18	10.80	17.60	6.62	8.38	6.84	9.48	9.92	3.10	3.98	4.86	6.40	1.60		
19	11.46	18.00	5.74	12.12	7.50	9.04	10.14	2.44	2.44	1.80	6.62	1.50		
20	13.90	18.40	5.30	16.00	11.02	8.82	11.24	1.80	2.00	1.50	5.96	1.20		
21	14.20	16.00	5.08	13.60	24.00	10.14	17.20	1.90	2.00	1.90	3.76	1.70		
22	14.50	12.78	4.86	12.78	16.80	9.26	15.40	2.22	1.30	3.54	2.00	1.70		
23	11.46	7.72	5.08	13.30	12.78	7.94	20.80	1.80	1.20	3.98	1.70	2.22		
24	11.46	6.84	5.52	11.68	13.90	8.38	16.40	2.00	1.30	4.42	1.60	2.66		
25	12.78	6.40	6.40	10.80	28.50	11.02	16.80	2.00	1.30	5.52	1.70	3.76		
26	10.80	6.18	7.50	11.02	29.50	13.00	14.20	2.22	1.50	8.16	2.00	5.52		
27	7.06	5.08	8.60	20.80	22.00	11.90	14.80	2.44	1.60	7.28	2.00	7.06		
28	7.06	4.86	9.92	29.00	34.00	9.04	18.40	2.22	1.70	5.96	1.90	6.84		
29	7.94	5.30	9.92	15.70	22.00	8.38	15.70	2.22	2.22	5.96		5.96		
30	9.48	5.30	10.14	11.90	37.50	11.24	15.70	2.22	3.32	5.74		4.86		
31		7.28		9.92	82.40		18.00		5.08	4.86		3.98		
Total	344.48	497.44	248.32	410.32	508.14	1121.44	417.26	294.14	59.26	181.06	96.12	110.46	4288.44	CMSDAY
Mean	11.48	16.05	8.28	13.24	16.39	37.38	13.46	9.80	1.91	5.84	3.43	3.56	11.75	CMS
Max	55.40	59.60	16.40	29.00	82.40	115.60	24.50	37.00	5.08	20.00	6.62	7.06	115.60	CMS
Min	6.40	4.86	4.86	7.94	6.84	7.94	8.16	1.80	1.20	1.50	1.60	1.20	1.20	CMS
Runoff	29.76	42.98	21.46	35.45	43.90	96.89	36.05	25.41	5.12	15.64	8.31	9.54	370.52	MCM

Momentary Peak 150.00 CMS. at 231.41 m. (MSL.) at 17.00 Hours , on Sep 2 , 2014

Runoff Yield 3.38 Liters/Second/Square KM. Momentary Peak Yield 43.128 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

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

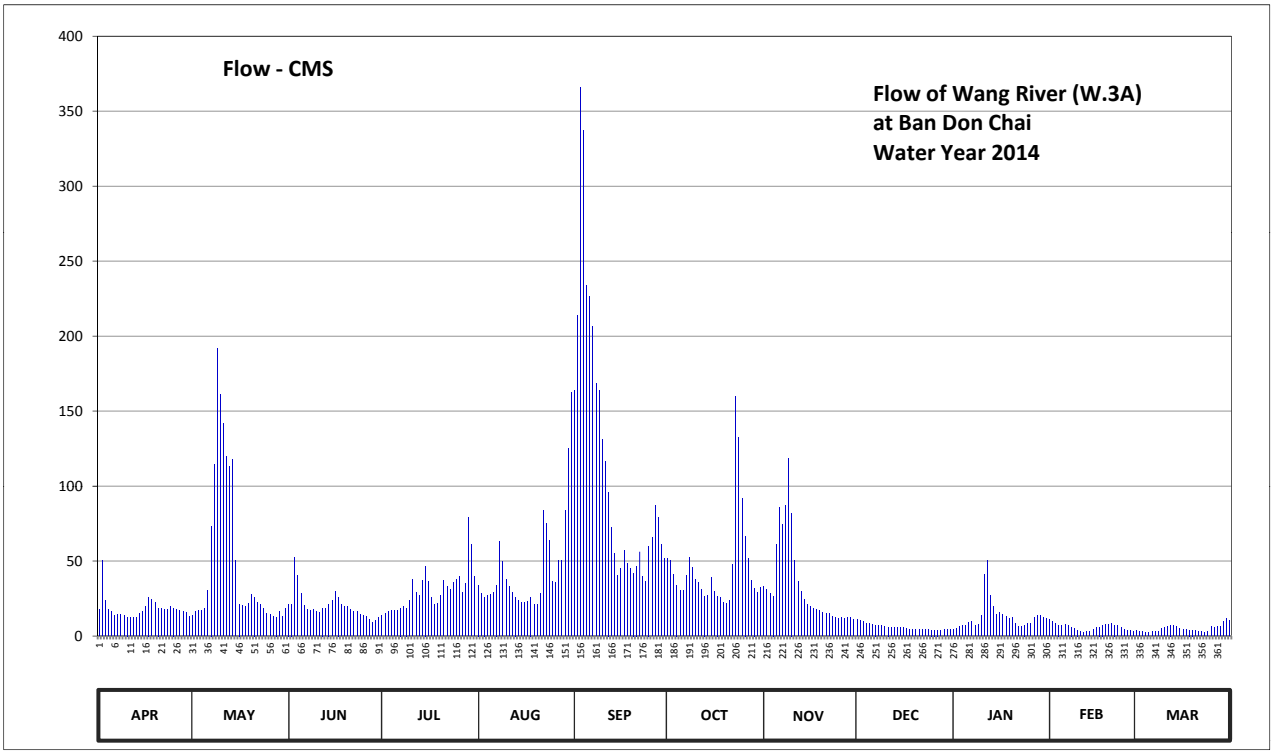
Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban Don Chai	**Amphoe** Thoen	**Changwat** Lampang
Drainge Area	8,924 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+161.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from automatic gage building	**Elevation**	+167.074 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 to date		
Rated by Flot	-		
Rated by Current Meter	1967 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The channel is fulled of the Mimosa pudica plants.		
	Stage-discharge relation defined by 48 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.03	160.95	161.10	160.95	161.30	162.55	161.50	161.29	160.89	160.71	160.90	160.68	
2	161.49	161.01	161.10	160.98	161.22	162.92	161.49	161.26	160.88	160.73	160.87	160.67	
3	161.14	161.02	161.51	161.01	161.18	163.91	161.39	161.22	160.86	160.78	160.83	160.66	
4	161.03	161.02	161.38	161.02	161.20	163.74	161.30	161.19	160.84	160.80	160.81	160.64	
5	161.01	161.04	161.22	161.02	161.21	163.06	161.25	161.60	160.84	160.80	160.80	160.64	
6	160.95	161.25	161.08	161.02	161.23	163.01	161.25	161.86	160.82	160.85	160.82	160.66	
7	160.96	161.73	161.03	161.05	161.30	162.87	161.38	161.74	160.81	160.86	160.80	160.65	
8	160.97	162.13	161.02	161.07	161.62	162.59	161.51	161.87	160.80	160.80	160.77	160.66	
9	160.95	162.76	161.03	161.05	161.48	162.55	161.44	162.17	160.80	160.82	160.74	160.73	
10	160.93	162.53	161.00	161.14	161.35	162.28	161.35	161.82	160.79	160.95	160.70	160.75	
11	160.92	162.37	160.99	161.35	161.29	162.15	161.32	161.49	160.77	161.39	160.66	160.78	
12	160.92	162.18	161.05	161.23	161.23	161.96	161.26	161.33	160.76	161.49	160.64	160.81	
13	160.92	162.12	161.04	161.20	161.18	161.72	161.19	161.24	160.76	161.20	160.65	160.80	
14	160.98	162.16	161.10	161.34	161.14	161.54	161.20	161.15	160.76	161.07	160.67	160.78	
15	161.00	161.49	161.14	161.45	161.12	161.38	161.36	161.09	160.75	160.97	160.71	160.74	
16	161.07	161.10	161.24	161.33	161.12	161.43	161.24	161.07	160.75	160.99	160.75	160.72	
17	161.18	161.08	161.18	161.17	161.13	161.56	161.19	161.04	160.73	160.96	160.77	160.71	
18	161.15	161.07	161.09	161.09	161.18	161.47	161.17	161.03	160.72	160.94	160.81	160.70	
19	161.12	161.11	161.07	161.11	161.09	161.43	161.12	161.02	160.72	160.91	160.82	160.70	
20	161.05	161.21	161.07	161.20	161.09	161.40	161.11	160.99	160.72	160.92	160.82	160.68	
21	161.04	161.18	161.03	161.34	161.22	161.45	161.14	160.98	160.72	160.83	160.84	160.65	
22	161.03	161.12	161.00	161.29	161.84	161.55	161.46	160.98	160.71	160.79	160.81	160.65	
23	161.03	161.09	161.01	161.26	161.75	161.37	162.52	160.94	160.71	160.78	160.80	160.62	
24	161.07	161.04	160.96	161.32	161.63	161.33	162.29	160.92	160.71	160.81	160.76	160.66	
25	161.05	160.98	160.95	161.35	161.33	161.59	161.92	160.91	160.70	160.83	160.71	160.78	
26	161.03	160.97	160.94	161.37	161.32	161.65	161.66	160.92	160.70	160.84	160.69	160.75	
27	161.02	160.94	160.89	161.23	161.49	161.87	161.50	160.91	160.70	160.92	160.69	160.79	
28	161.01	160.93	160.85	161.31	161.49	161.79	161.34	160.92	160.69	160.95	160.67	160.79	
29	160.99	161.01	160.88	161.79	161.84	161.60	161.27	160.92	160.71	160.95		160.87	
30	160.94	160.94	160.92	161.60	162.23	161.50	161.23	160.90	160.71	160.92		160.91	
31		161.04		161.37	162.54		161.28		160.71	160.91		160.88	
Mean	161.03	161.37	161.06	161.23	161.40	162.04	161.41	161.23	160.76	160.92	160.76	160.73	
Max	161.49	162.76	161.51	161.79	162.54	163.91	162.52	162.17	160.89	161.49	160.90	160.91	163.91
Min	160.92	160.93	160.85	160.95	161.09	161.33	161.11	160.90	160.69	160.71	160.64	160.62	160.62

Annual Max Momentary Gage Height	164.36	m. (MSL.) ,	at 17.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	161.00	m. (MSL.) ,	River Bed	159.08	m. (MSL.)
Left Bank Elevation	169.04	m. (MSL.) ,			
Right Bank Elevation	169.07	m. (MSL.) ,	Drainage Area	8924	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.66	13.65	21.30	13.65	34.00	163.75	51.50	33.32	10.77	4.29	11.20	3.52		
2	50.55	16.62	21.30	15.12	28.56	213.80	50.55	31.28	10.34	4.87	9.91	3.28		
3	23.66	17.14	52.45	16.62	26.02	365.70	41.20	28.56	9.48	6.32	8.19	3.04		
4	17.66	17.14	40.40	17.14	27.20	337.40	34.00	26.61	8.62	6.90	7.33	2.56		
5	16.62	18.18	28.56	17.14	27.88	233.70	30.60	61.00	8.62	6.90	6.90	2.56		
6	13.65	30.60	20.26	17.14	29.24	226.45	30.60	86.00	7.76	9.05	7.76	3.04		
7	14.14	73.35	17.66	18.70	34.00	206.80	40.40	74.30	7.33	9.48	6.90	2.80		
8	14.63	114.30	17.14	19.74	62.90	168.75	52.45	87.00	6.90	6.90	6.03	3.04		
9	13.65	191.60	17.66	18.70	49.60	163.75	45.80	118.70	6.90	7.76	5.16	4.87		
10	12.67	161.25	16.10	23.66	38.00	131.20	38.00	82.00	6.61	13.65	4.00	5.45		
11	12.18	141.55	15.61	38.00	33.32	116.50	35.60	50.55	6.03	41.20	3.04	6.32		
12	12.18	119.80	18.70	29.24	29.24	96.00	31.28	36.40	5.74	50.55	2.56	7.33		
13	12.18	113.20	18.18	27.20	26.02	72.40	26.61	29.92	5.74	27.20	2.80	6.90		
14	15.12	117.60	21.30	37.20	23.66	55.30	27.20	24.25	5.74	19.74	3.28	6.32		
15	16.10	50.55	23.66	46.75	22.48	40.40	38.80	20.78	5.45	14.63	4.29	5.16		
16	19.74	21.30	29.92	36.40	22.48	44.85	29.92	19.74	5.45	15.61	5.45	4.58		
17	26.02	20.26	26.02	25.43	23.07	57.20	26.61	18.18	4.87	14.14	6.03	4.29		
18	24.25	19.74	20.78	20.78	26.02	48.65	25.43	17.66	4.58	13.16	7.33	4.00		
19	22.48	21.89	19.74	21.89	20.78	44.85	22.48	17.14	4.58	11.69	7.76	4.00		
20	18.70	27.88	19.74	27.20	20.78	42.00	21.89	15.61	4.58	12.18	7.76	3.52		
21	18.18	26.02	17.66	37.20	28.56	46.75	23.66	15.12	4.58	8.19	8.62	2.80		
22	17.66	22.48	16.10	33.32	84.00	56.25	47.70	15.12	4.29	6.61	7.33	2.80		
23	17.66	20.78	16.62	31.28	75.25	39.60	160.00	13.16	4.29	6.32	6.90	2.08		
24	19.74	18.18	14.14	35.60	63.85	36.40	132.35	12.18	4.29	7.33	5.74	3.04		
25	18.70	15.12	13.65	38.00	36.40	60.05	92.00	11.69	4.00	8.19	4.29	6.32		
26	17.66	14.63	13.16	39.60	35.60	65.75	66.70	12.18	4.00	8.62	3.76	5.45		
27	17.14	13.16	10.77	29.24	50.55	87.00	51.50	11.69	4.00	12.18	3.76	6.61		
28	16.62	12.67	9.05	34.80	50.55	79.05	37.20	12.18	3.76	13.65	3.28	6.61		
29	15.61	16.62	10.34	79.05	84.00	61.00	31.96	12.18	4.29	13.65		9.91		
30	13.16	13.16	12.18	61.00	125.45	51.50	29.24	11.20	4.29	12.18		11.69		
31		18.18		39.60	162.50		32.64		4.29	11.69		10.34		
Total	545.97	1498.60	600.15	946.39	1401.96	3412.80	1405.87	1005.70	182.17	404.83	167.36	154.23	11726.03	CMSDAY
Mean	18.20	48.34	20.01	30.53	45.22	113.76	45.35	33.52	5.88	13.06	5.98	4.98	32.13	CMS
Max	50.55	191.60	52.45	79.05	162.50	365.70	160.00	118.70	10.77	50.55	11.20	11.69	365.70	CMS
Min	12.18	12.67	9.05	13.65	20.78	36.40	21.89	11.20	3.76	4.29	2.56	2.08	2.08	CMS
Runoff	47.17	129.48	51.85	81.77	121.13	294.87	121.47	86.89	15.74	34.98	14.46	13.33	1013.13	MCM

Momentary Peak 450.00 CMS. at 164.36 m. (MSL.) at 17.00 Hours , on Sep 3 , 2014

Runoff Yield 3.60 Liters/Second/Square KM. Momentary Peak Yield 50.426 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

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

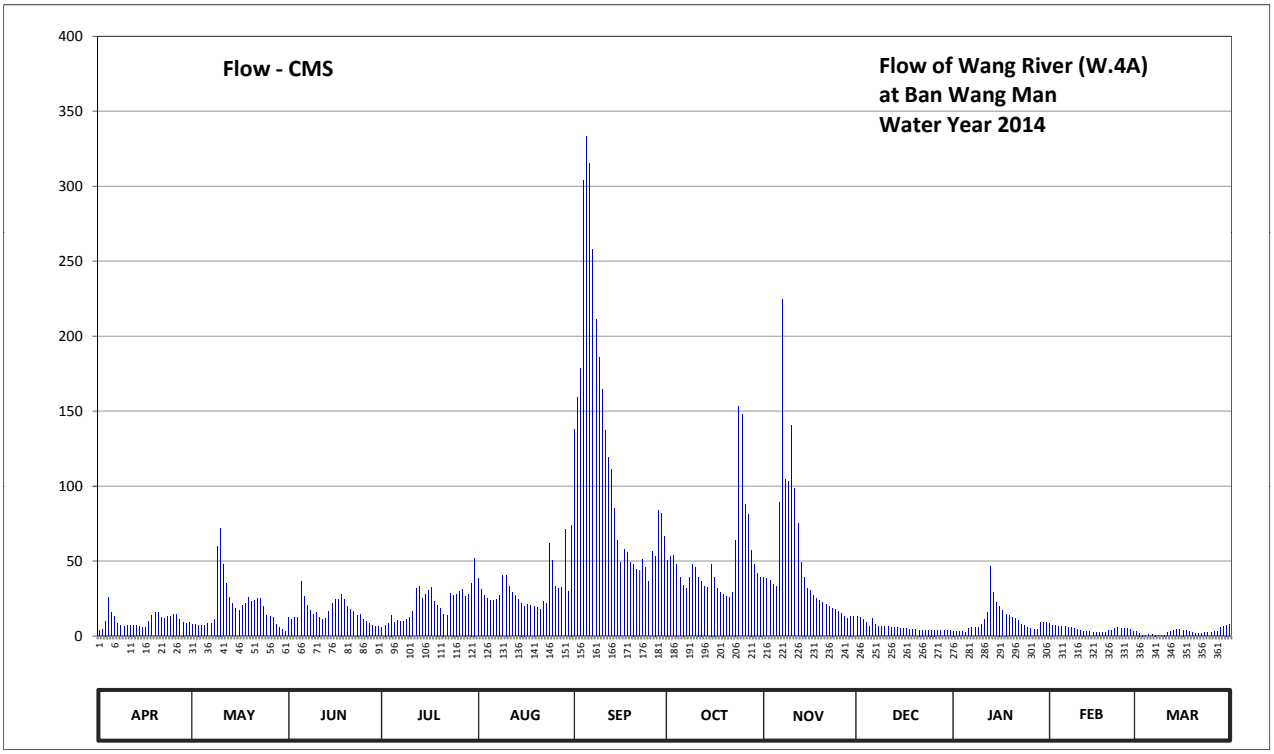
Location : on left bank about 200 meters upstream from the bridge on highway.

	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** +143.191 m. (MSL.)		
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	1968 to date				
Rating Operation					
Period of Rating	1971 to date				
Rated by Flot	-				
Rated by Current Meter	1971 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records very good.Stage-discharge relation defined by 25 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.44	130.63	130.78	130.55	131.50	133.35	131.77	131.51	130.80	130.42	130.64	130.40	
2	130.46	130.63	130.73	130.61	131.31	133.68	131.82	131.50	130.77	130.41	130.61	130.33	
3	130.70	130.61	130.78	130.65	131.20	133.95	131.84	131.47	130.74	130.40	130.60	130.25	
4	131.17	130.60	130.78	130.83	131.14	135.51	131.71	131.41	130.66	130.38	130.58	130.24	
5	130.87	130.60	131.45	130.67	131.11	135.75	131.51	131.38	130.58	130.37	130.57	130.27	
6	130.80	130.64	131.18	130.71	131.11	135.62	131.40	132.55	130.75	130.50	130.56	130.26	
7	130.64	130.64	131.01	130.69	131.13	134.97	131.33	134.56	130.62	130.52	130.55	130.25	
8	130.60	130.73	130.91	130.69	131.20	134.39	131.51	132.81	130.57	130.53	130.54	130.24	
9	130.58	131.98	130.85	130.74	131.54	134.05	131.70	132.78	130.56	130.54	130.50	130.24	
10	130.60	132.22	130.88	130.79	131.55	133.76	131.66	133.39	130.56	130.63	130.46	130.25	
11	130.61	131.70	130.79	130.90	131.37	133.34	131.52	132.71	130.56	130.73	130.43	130.35	
12	130.61	131.42	130.74	131.33	131.26	133.05	131.46	132.28	130.55	130.88	130.42	130.39	
13	130.60	131.16	130.76	131.38	131.20	132.92	131.38	131.74	130.53	131.67	130.41	130.43	
14	130.57	131.04	130.89	131.15	131.13	132.47	131.36	131.52	130.52	131.26	130.39	130.46	
15	130.53	130.95	131.04	131.22	131.06	132.05	131.71	131.34	130.51	131.07	130.37	130.47	
16	130.55	130.92	131.12	131.30	131.00	131.73	131.52	131.29	130.50	131.00	130.35	130.45	
17	130.69	131.01	131.13	131.35	131.03	131.93	131.34	131.21	130.49	130.92	130.34	130.44	
18	130.82	131.05	131.23	131.08	131.01	131.88	131.26	131.14	130.48	130.85	130.34	130.41	
19	130.87	131.16	131.13	131.02	131.00	131.73	131.23	131.11	130.47	130.82	130.34	130.35	
20	130.88	131.09	130.99	130.95	130.97	131.71	131.18	131.07	130.46	130.78	130.44	130.32	
21	130.77	131.11	130.94	130.85	130.94	131.63	131.17	131.03	130.45	130.75	130.44	130.30	
22	130.75	131.14	130.89	130.82	131.08	131.62	131.25	130.99	130.45	130.71	130.49	130.32	
23	130.80	131.15	130.83	131.24	131.05	131.78	132.06	130.96	130.44	130.62	130.52	130.34	
24	130.80	130.99	130.84	131.21	132.02	131.66	133.59	130.93	130.45	130.59	130.50	130.34	
25	130.85	130.82	130.74	131.23	131.76	131.45	133.51	130.89	130.45	130.54	130.50	130.37	
26	130.84	130.80	130.70	131.27	131.38	131.90	132.52	130.86	130.45	130.50	130.49	130.38	
27	130.73	130.78	130.65	131.32	131.34	131.83	132.40	130.80	130.44	130.48	130.48	130.39	
28	130.68	130.63	130.59	131.19	131.36	132.45	131.92	130.76	130.44	130.48	130.40	130.54	
29	130.65	130.52	130.57	131.22	132.20	132.41	131.71	130.81	130.44	130.66		130.57	
30	130.66	130.46	130.56	131.43	131.28	132.11	131.57	130.80	130.43	130.66		130.61	
31		130.41		131.80	132.26		131.52		130.43	130.67		130.63	
Mean	130.70	130.95	130.88	131.04	131.31	132.89	131.72	131.59	130.53	130.69	130.47	130.37	
Max	131.17	132.22	131.45	131.80	132.26	135.75	133.59	134.56	130.80	131.67	130.64	130.63	135.75
Min	130.44	130.41	130.56	130.55	130.94	131.45	131.17	130.76	130.43	130.37	130.34	130.24	130.24

Annual Max Momentary Gage Height	135.81	m. (MSL.) ,	at 18.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	130.00	m. (MSL.) ,	River Bed	129.56	m. (MSL.)
Left Bank Elevation	142.93	m. (MSL.) ,			
Right Bank Elevation	142.99	m. (MSL.) ,	Drainage Area	10439	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	7.90	12.40	6.00	38.50	137.75	50.65	38.95	13.00	3.40	8.20	3.00		
2	4.20	7.90	10.90	7.30	30.85	159.20	52.90	38.50	12.10	3.20	7.30	1.95		
3	10.00	7.30	12.40	8.50	27.00	178.25	53.80	37.15	11.20	3.00	7.00	0.75		
4	25.95	7.00	12.40	14.05	24.90	303.90	47.95	34.45	8.80	2.70	6.60	0.60		
5	15.45	7.00	36.25	9.10	23.85	333.00	38.95	33.30	6.60	2.55	6.40	1.05		
6	13.00	8.20	26.30	10.30	23.85	314.80	34.00	89.25	11.50	5.00	6.20	0.90		
7	8.20	8.20	20.35	9.70	24.55	257.60	31.55	224.80	7.60	5.40	6.00	0.75		
8	7.00	10.90	16.85	9.70	27.00	211.25	38.95	104.60	6.40	5.60	5.80	0.60		
9	6.60	60.10	14.75	11.20	40.30	185.75	47.50	102.80	6.20	5.80	5.00	0.60		
10	7.00	72.00	15.80	12.70	40.75	164.40	45.70	140.35	6.20	7.90	4.20	0.75		
11	7.30	47.50	12.70	16.50	32.95	137.10	39.40	98.60	6.20	10.90	3.60	2.25		
12	7.30	34.90	11.20	31.55	29.10	119.00	36.70	75.00	6.00	15.80	3.40	2.85		
13	7.00	25.60	11.80	33.30	27.00	111.20	33.30	49.30	5.60	46.15	3.20	3.60		
14	6.40	21.40	16.15	25.25	24.55	84.85	32.60	39.40	5.40	29.10	2.85	4.20		
15	5.60	18.25	21.40	27.70	22.10	63.50	47.95	31.90	5.20	22.45	2.55	4.40		
16	6.00	17.20	24.20	30.50	20.00	48.85	39.40	30.15	5.00	20.00	2.25	4.00		
17	9.70	20.35	24.55	32.25	21.05	57.85	31.90	27.35	4.80	17.20	2.10	3.80		
18	13.70	21.75	28.05	22.80	20.35	55.60	29.10	24.90	4.60	14.75	2.10	3.20		
19	15.45	25.60	24.55	20.70	20.00	48.85	28.05	23.85	4.40	13.70	2.10	2.25		
20	15.80	23.15	19.65	18.25	18.95	47.95	26.30	22.45	4.20	12.40	3.80	1.80		
21	12.10	23.85	17.90	14.75	17.90	44.35	25.95	21.05	4.00	11.50	3.80	1.50		
22	11.50	24.90	16.15	13.70	22.80	43.90	28.75	19.65	4.00	10.30	4.80	1.80		
23	13.00	25.25	14.05	28.40	21.75	51.10	64.00	18.60	3.80	7.60	5.40	2.10		
24	13.00	19.65	14.40	27.35	62.00	45.70	153.35	17.55	4.00	6.80	5.00	2.10		
25	14.75	13.70	11.20	28.05	50.20	36.25	148.15	16.15	4.00	5.80	5.00	2.55		
26	14.40	13.00	10.00	29.45	33.30	56.50	87.60	15.10	4.00	5.00	4.80	2.70		
27	10.90	12.40	8.50	31.20	31.90	53.35	81.00	13.00	3.80	4.60	4.60	2.85		
28	9.40	7.90	6.80	26.65	32.60	83.75	57.40	11.80	3.80	4.60	3.00	5.80		
29	8.50	5.40	6.40	27.70	71.00	81.55	47.95	13.35	3.80	8.80		6.40		
30	8.80	4.20	6.20	35.35	29.80	66.50	41.65	13.00	3.60	8.80		7.30		
31		3.20		52.00	74.00		39.40		3.60	9.10		7.90		
Total	311.80	605.65	484.25	671.95	984.85	3583.60	1561.85	1426.30	183.40	329.90	127.05	86.30	10356.90	CMSDAY
Mean	10.39	19.54	16.14	21.68	31.77	119.45	50.38	47.54	5.92	10.64	4.54	2.78	28.38	CMS
Max	25.95	72.00	36.25	52.00	74.00	333.00	153.35	224.80	13.00	46.15	8.20	7.90	333.00	CMS
Min	3.80	3.20	6.20	6.00	17.90	36.25	25.95	11.80	3.60	2.55	2.10	0.60	0.60	CMS
Runoff	26.94	52.33	41.84	58.06	85.09	309.62	134.94	123.23	15.85	28.50	10.98	7.46	894.84	MCM

Momentary Peak 342.30 CMS. at 135.81 m. (MSL.) at 18.00 Hours , on Sep 4 , 2014

Runoff Yield 2.72 Liters/Second/Square KM. Momentary Peak Yield 32.790 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

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

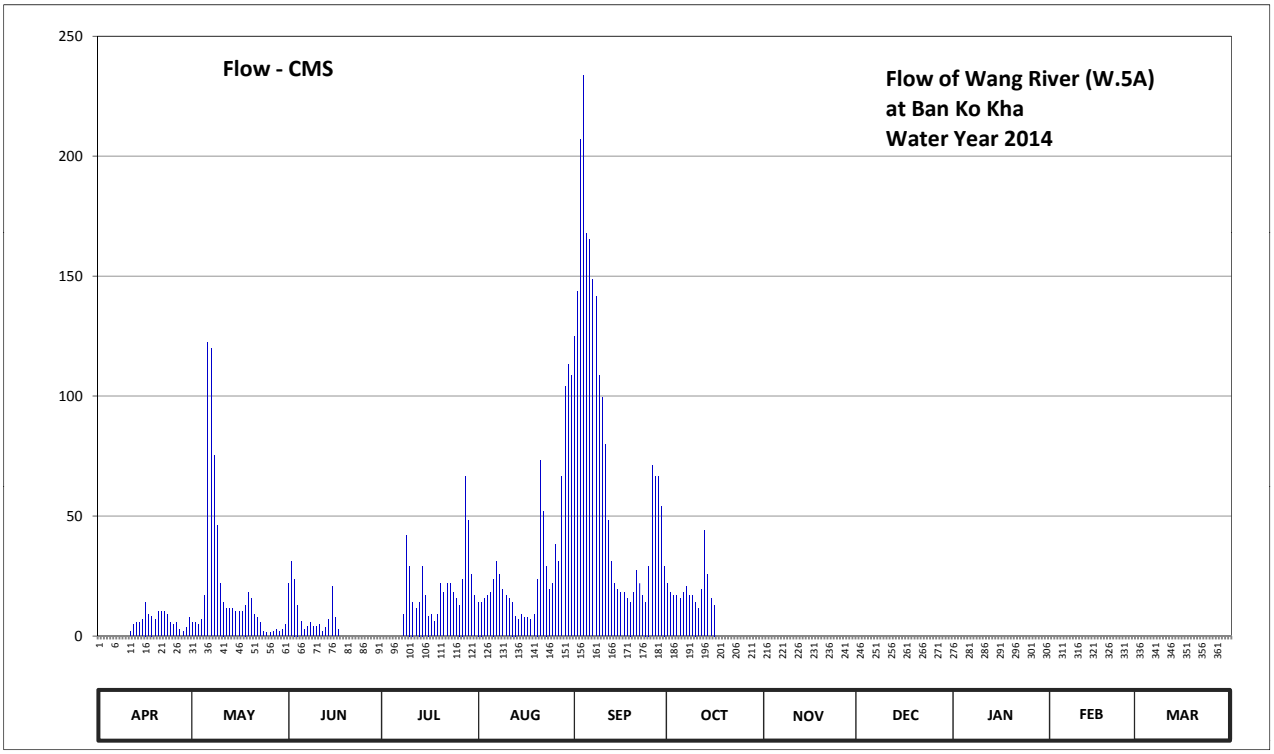
Location : on right bank upstream from Siriyong Bridge.

	Ban Ko Kha	**Amphoe** Ko Kha	**Changwat** Lampang
Drainge Area	5,278 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+216.855 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near automatic gage building	**Elevation**	+219.743 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 39 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	217.36	217.05	217.20	217.06	217.14	217.69	217.20	217.11	216.96	217.00	217.03	216.94	
2	217.08	217.05	217.25	217.06	217.14	217.77	217.17	217.13	216.96	217.00	216.99	216.94	
3	217.03	217.04	217.21	217.06	217.15	218.03	217.16	217.12	216.96	217.00	216.98	216.94	
4	217.01	217.07	217.13	217.07	217.16	218.13	217.16	217.12	216.96	217.01	216.99	216.96	
5	217.00	217.16	217.06	217.08	217.17	217.87	217.15	217.11	216.95	217.01	216.98	216.98	
6	217.03	217.68	217.01	217.06	217.21	217.86	217.17	217.21	216.94	216.99	216.98	216.99	
7	217.02	217.67	217.03	217.03	217.25	217.79	217.19	217.36	216.94	216.98	216.95	216.99	
8	217.01	217.47	217.05	217.10	217.22	217.76	217.16	217.39	216.94	216.97	216.95	216.99	
9	217.00	217.33	217.03	217.31	217.18	217.62	217.16	217.28	216.93	217.03	216.94	217.01	
10	216.99	217.20	217.03	217.24	217.16	217.58	217.14	217.19	216.94	217.03	216.94	217.01	
11	217.00	217.14	217.04	217.14	217.15	217.49	217.12	217.13	216.94	217.08	216.96	217.01	
12	217.04	217.12	216.99	217.12	217.14	217.34	217.18	217.09	216.94	217.14	216.96	217.00	
13	217.05	217.12	217.02	217.14	217.09	217.25	217.32	217.06	216.93	217.10	216.96	216.99	
14	217.05	217.12	217.07	217.24	217.07	217.20	217.22	217.05	216.94	217.06	216.98	216.96	
15	217.07	217.11	217.19	217.16	217.10	217.18	217.15	217.04	216.94	217.05	216.97	216.95	
16	217.14	217.11	217.08	217.09	217.08	217.17	217.13	217.02	216.93	217.04	217.00	216.96	
17	217.10	217.11	217.01	217.10	217.08	217.17	217.12	217.01	216.93	217.06	216.96	216.95	
18	217.09	217.13	217.01	217.06	217.07	217.15	217.12	217.01	216.94	217.01	216.96	216.94	
19	217.07	217.17	216.99	217.10	217.10	217.14	217.11	217.00	216.96	216.99	216.96	216.94	
20	217.11	217.15	216.97	217.20	217.21	217.17	217.11	216.99	216.94	216.96	216.97	216.93	
21	217.11	217.10	216.98	217.17	217.46	217.23	217.10	217.01	216.94	216.97	216.99	216.94	
22	217.11	217.08	216.95	217.20	217.36	217.20	217.15	217.01	216.93	216.98	216.96	216.96	
23	217.10	217.05	216.93	217.20	217.24	217.16	217.27	216.96	216.93	217.00	216.95	216.94	
24	217.05	217.00	216.91	217.17	217.18	217.14	217.33	216.94	216.93	217.03	216.94	216.96	
25	217.04	216.98	216.93	217.15	217.20	217.24	217.27	216.95	216.93	217.04	216.94	216.98	
26	217.05	216.98	216.99	217.13	217.29	217.45	217.19	216.98	216.93	217.06	216.94	217.00	
27	217.01	216.99	217.00	217.21	217.25	217.43	217.16	216.98	216.93	217.06	216.95	217.05	
28	216.99	217.01	217.02	217.43	217.43	217.43	217.14	216.97	216.94	217.07	216.94	217.05	
29	217.02	217.00	217.03	217.34	217.60	217.37	217.12	216.96	216.94	217.05		217.03	
30	217.08	217.01	217.04	217.22	217.64	217.24	217.11	216.97	216.94	217.05		217.01	
31		217.04		217.16	217.62		217.09		216.98	217.04		217.00	
Mean	217.06	217.14	217.04	217.15	217.23	217.44	217.17	217.07	216.94	217.03	216.97	216.98	
Max	217.36	217.68	217.25	217.43	217.64	218.13	217.33	217.39	216.98	217.14	217.03	217.05	218.13
Min	216.99	216.98	216.91	217.03	217.07	217.14	217.09	216.94	216.93	216.96	216.94	216.93	216.91

Annual Max Momentary Gage Height	218.23	m. (MSL.) ,	at 05.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	216.86	m. (MSL.) ,	River Bed	213.09	m. (MSL.)
Left Bank Elevation	221.25	m. (MSL.) ,			
Right Bank Elevation	221.10	m. (MSL.) ,	Drainage Area	5278	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	5.50	22.00	0.00	14.20	124.70	22.00	0.00	0.00	0.00	0.00	0.00		
2	0.00	5.50	31.00	0.00	14.20	143.80	18.10	0.00	0.00	0.00	0.00	0.00		
3	0.00	4.80	23.80	0.00	15.50	206.80	16.80	0.00	0.00	0.00	0.00	0.00		
4	0.00	6.90	12.90	0.00	16.80	233.70	16.80	0.00	0.00	0.00	0.00	0.00		
5	0.00	16.80	6.20	0.00	18.10	167.80	15.50	0.00	0.00	0.00	0.00	0.00		
6	0.00	122.40	2.70	0.00	23.80	165.40	18.10	0.00	0.00	0.00	0.00	0.00		
7	0.00	120.10	4.10	0.00	31.00	148.60	20.70	0.00	0.00	0.00	0.00	0.00		
8	0.00	75.40	5.50	9.00	25.60	141.40	16.80	0.00	0.00	0.00	0.00	0.00		
9	0.00	46.00	4.10	42.00	19.40	108.60	16.80	0.00	0.00	0.00	0.00	0.00		
10	0.00	22.00	4.10	29.20	16.80	99.60	14.20	0.00	0.00	0.00	0.00	0.00		
11	2.00	14.20	4.80	14.20	15.50	79.80	11.60	0.00	0.00	0.00	0.00	0.00		
12	4.80	11.60	1.80	11.60	14.20	48.00	19.40	0.00	0.00	0.00	0.00	0.00		
13	5.50	11.60	3.40	14.20	8.30	31.00	44.00	0.00	0.00	0.00	0.00	0.00		
14	5.50	11.60	6.90	29.20	6.90	22.00	25.60	0.00	0.00	0.00	0.00	0.00		
15	6.90	10.30	20.70	16.80	9.00	19.40	15.50	0.00	0.00	0.00	0.00	0.00		
16	14.20	10.30	7.60	8.30	7.60	18.10	12.90	0.00	0.00	0.00	0.00	0.00		
17	9.00	10.30	2.70	9.00	7.60	18.10	0.00	0.00	0.00	0.00	0.00	0.00		
18	8.30	12.90	0.00	6.20	6.90	15.50	0.00	0.00	0.00	0.00	0.00	0.00		
19	6.90	18.10	0.00	9.00	9.00	14.20	0.00	0.00	0.00	0.00	0.00	0.00		
20	10.30	15.50	0.00	22.00	23.80	18.10	0.00	0.00	0.00	0.00	0.00	0.00		
21	10.30	9.00	0.00	18.10	73.20	27.40	0.00	0.00	0.00	0.00	0.00	0.00		
22	10.30	7.60	0.00	22.00	52.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00		
23	9.00	5.50	0.00	22.00	29.20	16.80	0.00	0.00	0.00	0.00	0.00	0.00		
24	5.50	2.00	0.00	18.10	19.40	14.20	0.00	0.00	0.00	0.00	0.00	0.00		
25	4.80	1.60	0.00	15.50	22.00	29.20	0.00	0.00	0.00	0.00	0.00	0.00		
26	5.50	1.60	0.00	12.90	38.20	71.00	0.00	0.00	0.00	0.00	0.00	0.00		
27	2.70	1.80	0.00	23.80	31.00	66.60	0.00	0.00	0.00	0.00	0.00	0.00		
28	1.80	2.70	0.00	66.60	66.60	66.60	0.00	0.00	0.00	0.00	0.00	0.00		
29	3.40	2.00	0.00	48.00	104.00	54.00	0.00	0.00	0.00	0.00		0.00		
30	7.60	2.70	0.00	25.60	113.20	29.20	0.00	0.00	0.00	0.00		0.00		
31		4.80		16.80	108.60		0.00		0.00	0.00		0.00		
Total	134.30	593.10	164.30	510.10	961.60	2221.60	304.80	0.00	0.00	0.00	0.00	0.00	4889.80	CMSDAY
Mean	4.48	19.13	5.48	16.45	31.02	74.05	9.83	0.00	0.00	0.00	0.00	0.00	13.40	CMS
Max	14.20	122.40	31.00	66.60	113.20	233.70	44.00	0.00	0.00	0.00	0.00	0.00	233.70	CMS
Min	0.00	1.60	0.00	0.00	6.90	14.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	11.60	51.24	14.20	44.07	83.08	191.95	26.34	0.00	0.00	0.00	0.00	0.00	422.48	MCM

Momentary Peak 263.30 CMS. at 218.23 m. (MSL.) at 05.00 Hours , on Sep 4 , 2014

Runoff Yield 2.54 Liters/Second/Square KM. Momentary Peak Yield 49.886 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

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

Location : on left bank at Ban Sop Prap.

	Ban Sop Prap	**Amphoe** Sop Prap	**Changwat** Lampang
Drainge Area	8,150 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+184.050 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +187.165 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

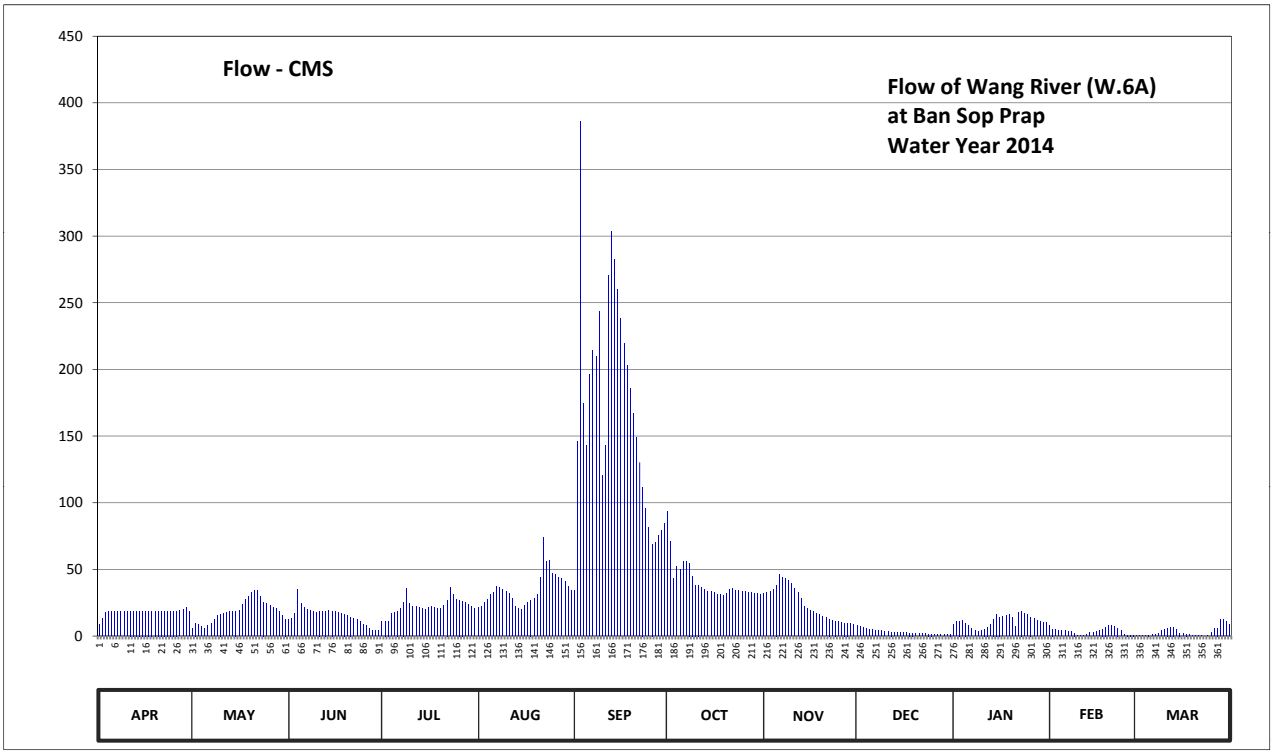
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.78	184.71	184.86	184.83	185.02	185.20	185.82	185.17	184.77	184.79	184.77	184.45	
2	184.88	184.81	184.88	184.84	185.03	186.25	185.61	185.18	184.75	184.83	184.70	184.45	
3	184.96	184.79	184.95	184.84	185.07	187.60	185.31	185.19	184.73	184.84	184.68	184.44	
4	184.97	184.75	185.21	184.95	185.11	186.45	185.41	185.21	184.71	184.85	184.67	184.45	
5	184.97	184.71	185.06	184.96	185.16	186.23	185.39	185.25	184.69	184.81	184.65	184.47	
6	184.97	184.76	185.02	184.98	185.18	186.59	185.45	185.34	184.68	184.76	184.65	184.49	
7	184.97	184.80	185.00	185.01	185.24	186.70	185.45	185.32	184.67	184.71	184.63	184.49	
8	184.97	184.86	184.99	185.08	185.23	186.67	185.44	185.31	184.65	184.66	184.63	184.53	
9	184.97	184.92	184.97	185.22	185.21	186.87	185.33	185.29	184.66	184.63	184.57	184.65	
10	184.97	184.94	184.96	185.06	185.19	186.05	185.25	185.26	184.63	184.66	184.46	184.69	
11	184.98	184.95	184.98	185.03	185.17	186.23	185.25	185.22	184.62	184.70	184.45	184.72	
12	184.98	184.96	184.97	185.03	185.12	187.02	185.23	185.18	184.61	184.74	184.46	184.74	
13	184.98	184.97	184.98	185.02	185.03	187.19	185.21	185.12	184.60	184.78	184.51	184.74	
14	184.98	184.97	184.99	185.01	185.01	187.08	185.19	185.03	184.59	184.87	184.58	184.69	
15	184.98	184.98	184.98	185.00	185.00	186.96	185.19	185.01	184.59	184.94	184.59	184.57	
16	184.98	184.99	184.97	185.02	185.04	186.84	185.18	184.99	184.58	184.90	184.63	184.54	
17	184.98	185.05	184.96	185.03	185.07	186.73	185.16	184.97	184.58	184.91	184.66	184.52	
18	184.98	185.11	184.95	185.02	185.10	186.63	185.16	184.95	184.57	184.92	184.70	184.49	
19	184.98	185.14	184.94	185.01	185.12	186.52	185.15	184.93	184.57	184.93	184.74	184.46	
20	184.98	185.18	184.92	185.01	185.16	186.40	185.17	184.91	184.56	184.89	184.77	184.45	
21	184.98	185.20	184.90	185.04	185.32	186.27	185.21	184.89	184.55	184.75	184.76	184.43	
22	184.98	185.20	184.88	185.10	185.64	186.13	185.22	184.87	184.54	184.96	184.75	184.41	
23	184.98	185.14	184.86	185.23	185.45	185.98	185.20	184.85	184.53	184.98	184.72	184.40	
24	184.98	185.08	184.83	185.16	185.46	185.84	185.20	184.84	184.52	184.95	184.65	184.41	
25	184.98	185.06	184.79	185.11	185.35	185.71	185.19	184.83	184.52	184.93	184.51	184.58	
26	184.98	185.04	184.77	185.10	185.34	185.59	185.19	184.82	184.51	184.90	184.47	184.71	
27	184.99	185.02	184.71	185.09	185.32	185.60	185.18	184.81	184.51	184.88	184.47	184.72	
28	185.00	185.01	184.67	185.07	185.31	185.65	185.18	184.81	184.51	184.85	184.47	184.86	
29	185.02	184.97	184.66	185.05	185.28	185.69	185.17	184.80	184.50	184.83		184.86	
30	184.97	184.92	184.65	185.03	185.24	185.74	185.17	184.79	184.50	184.82		184.83	
31		184.87		185.01	185.20		185.16		184.52	184.82		184.78	
Mean	184.97	184.96	184.91	185.03	185.20	186.35	185.27	185.04	184.60	184.83	184.62	184.58	
Max	185.02	185.20	185.21	185.23	185.64	187.60	185.82	185.34	184.77	184.98	184.77	184.86	187.60
Min	184.78	184.71	184.65	184.83	185.00	185.20	185.15	184.79	184.50	184.63	184.45	184.40	184.40

Annual Max Momentary Gage Height 187.83 m. (MSL.) , at 08.00 Hours , on Sep 3 , 2014

Zero Gage at Bottom Elevation 184.05 m. (MSL.) , River Bed 181.89 m. (MSL.)

Left Bank Elevation 189.86 m. (MSL.) ,

Right Bank Elevation 189.79 m. (MSL.) , Drainage Area 8150 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.48	5.61	12.30	10.80	21.40	34.00	93.30	31.90	8.07	8.89	8.07	0.60		
2	13.30	9.80	13.30	11.30	22.10	146.00	71.05	32.60	7.25	10.80	5.20	0.60		
3	17.72	8.89	17.15	11.30	24.90	386.00	43.35	33.30	6.43	11.30	4.70	0.48		
4	18.29	7.25	34.85	17.15	27.70	174.75	51.95	34.85	5.61	11.80	4.45	0.60		
5	18.29	5.61	24.20	17.72	31.20	143.20	50.15	38.25	4.95	9.80	3.95	0.84		
6	18.29	7.66	21.40	18.86	32.60	196.45	55.75	45.90	4.70	7.66	3.95	1.08		
7	18.29	9.30	20.00	20.70	37.40	214.50	55.75	44.20	4.45	5.61	3.45	1.08		
8	18.29	12.30	19.43	25.60	36.55	209.55	54.80	43.35	3.95	4.20	3.45	1.65		
9	18.29	15.44	18.29	35.70	34.85	243.60	45.05	41.65	4.20	3.45	2.25	3.95		
10	18.29	16.58	17.72	24.20	33.30	120.25	38.25	39.10	3.45	4.20	0.72	4.95		
11	18.86	17.15	18.86	22.10	31.90	143.20	38.25	35.70	3.20	5.20	0.60	6.02		
12	18.86	17.72	18.29	22.10	28.40	270.80	36.55	32.60	2.95	6.84	0.72	6.84		
13	18.86	18.29	18.86	21.40	22.10	303.10	34.85	28.40	2.70	8.48	1.35	6.84		
14	18.86	18.29	19.43	20.70	20.70	282.20	33.30	22.10	2.55	12.80	2.40	4.95		
15	18.86	18.86	18.86	20.00	20.00	259.80	33.30	20.70	2.55	16.58	2.55	2.25		
16	18.86	19.43	18.29	21.40	22.80	238.20	32.60	19.43	2.40	14.30	3.45	1.80		
17	18.86	23.50	17.72	22.10	24.90	219.45	31.20	18.29	2.40	14.87	4.20	1.50		
18	18.86	27.70	17.15	21.40	27.00	202.95	31.20	17.15	2.25	15.44	5.20	1.08		
19	18.86	29.80	16.58	20.70	28.40	185.60	30.50	16.01	2.25	16.01	6.84	0.72		
20	18.86	32.60	15.44	20.70	31.20	167.00	31.90	14.87	2.10	13.80	8.07	0.60		
21	18.86	34.00	14.30	22.80	44.20	148.80	34.85	13.80	1.95	7.25	7.66	0.36		
22	18.86	34.00	13.30	27.00	74.20	130.25	35.70	12.80	1.80	17.72	7.25	0.12		
23	18.86	29.80	12.30	36.55	55.75	111.70	34.00	11.80	1.65	18.86	6.02	0.00		
24	18.86	25.60	10.80	31.20	56.70	95.60	34.00	11.30	1.50	17.15	3.95	0.12		
25	18.86	24.20	8.89	27.70	46.75	81.55	33.30	10.80	1.50	16.01	1.35	2.40		
26	18.86	22.80	8.07	27.00	45.90	69.05	33.30	10.30	1.35	14.30	0.84	5.61		
27	19.43	21.40	5.61	26.30	44.20	70.00	32.60	9.80	1.35	13.30	0.84	6.02		
28	20.00	20.70	4.45	24.90	43.35	75.25	32.60	9.80	1.35	11.80	0.84	12.30		
29	21.40	18.29	4.20	23.50	40.80	79.45	31.90	9.30	1.20	10.80		12.30		
30	18.29	15.44	3.95	22.10	37.40	84.70	31.90	8.89	1.20	10.30		10.80		
31		12.80		20.70	34.00		31.20		1.50	10.30		8.48		
Total	548.41	580.81	463.99	695.68	1082.65	5086.95	1258.40	718.94	94.76	349.82	104.32	106.94	11091.67	CMSDAY
Mean	18.28	18.74	15.47	22.44	34.92	169.57	40.59	23.96	3.06	11.28	3.73	3.45	30.39	CMS
Max	21.40	34.00	34.85	36.55	74.20	386.00	93.30	45.90	8.07	18.86	8.07	12.30	386.00	CMS
Min	8.48	5.61	3.95	10.80	20.00	34.00	30.50	8.89	1.20	3.45	0.60	0.00	0.00	CMS
Runoff	47.38	50.18	40.09	60.11	93.54	439.51	108.73	62.12	8.19	30.22	9.01	9.24	958.32	MCM

Momentary Peak 434.60 CMS. at 187.83 m. (MSL.) at 08.00 Hours , on Sep 3 , 2014

Runoff Yield 3.73 Liters/Second/Square KM. Momentary Peak Yield 53.325 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Don Mun , Lampang (W.10A)

Lat 18 - 31 - 16 N Long 99 - 37 - 52 E

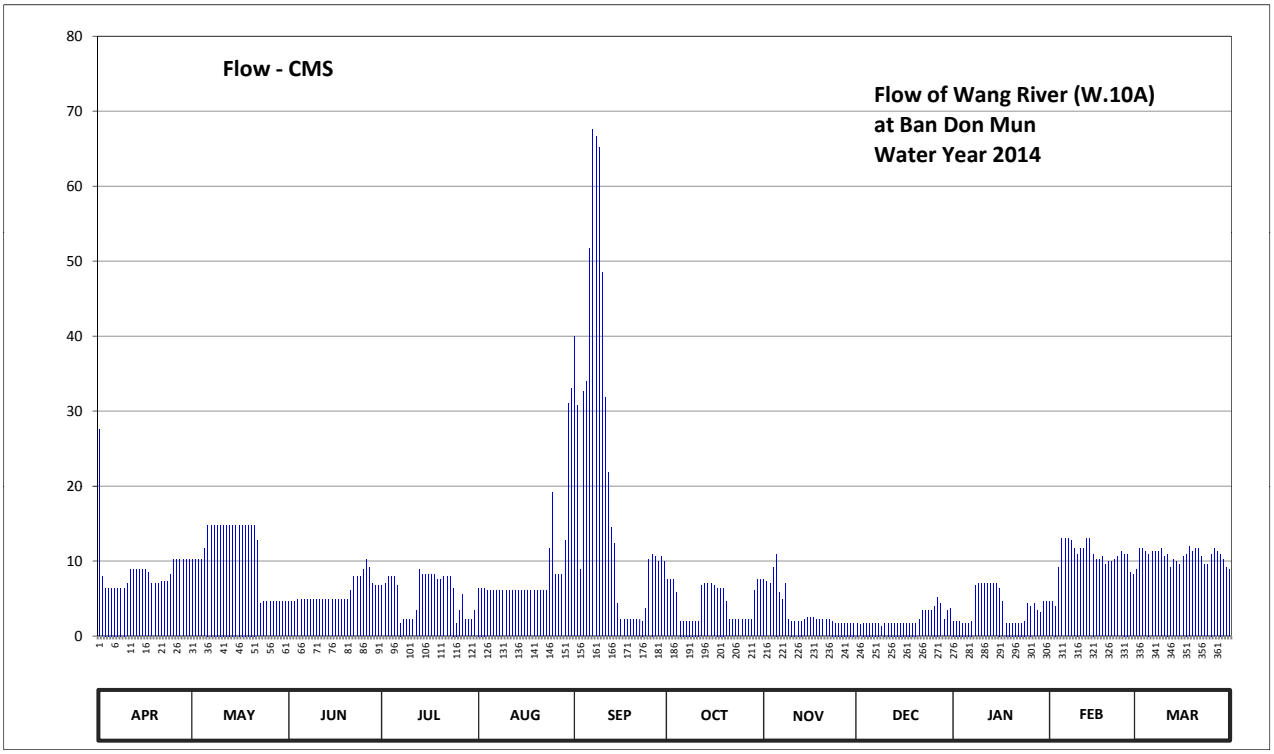
Location : on left bank at Ban Don Mun

	Ban Don Mun	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	2,798 sq.km.		
Type of Gage	Water - stage recorder.		
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	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 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 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.60	259.15	258.97	259.04	259.03	259.91	259.07	259.07	258.87	258.88	258.97	259.11	
2	259.08	259.15	258.97	259.05	259.03	259.68	259.07	259.06	258.86	258.88	258.97	259.19	
3	259.03	259.15	258.97	259.08	259.03	259.11	259.07	259.05	258.87	258.88	258.95	259.19	
4	259.03	259.15	258.98	259.08	259.02	259.73	259.01	259.12	258.87	258.87	259.12	259.18	
5	259.03	259.19	258.98	259.08	259.02	259.76	258.88	259.17	258.87	258.87	259.23	259.17	
6	259.03	259.28	258.98	259.04	259.02	260.17	258.88	259.01	258.87	258.87	259.23	259.18	
7	259.03	259.28	258.98	258.87	259.02	260.50	258.88	258.98	258.87	258.88	259.23	259.18	
8	259.03	259.28	258.98	258.89	259.02	260.48	258.88	259.05	258.87	259.04	259.22	259.18	
9	259.03	259.28	258.98	258.89	259.02	260.45	258.88	258.89	258.85	259.05	259.19	259.19	
10	259.05	259.28	258.98	258.89	259.02	260.10	258.88	258.88	258.87	259.05	259.17	259.16	
11	259.11	259.28	258.98	258.89	259.02	259.71	258.88	258.88	258.87	259.05	259.19	259.17	
12	259.11	259.28	258.98	258.93	259.02	259.46	259.04	258.88	258.87	259.05	259.19	259.12	
13	259.11	259.28	258.98	259.11	259.02	259.27	259.05	258.88	258.87	259.05	259.23	259.15	
14	259.11	259.28	258.98	259.09	259.02	259.21	259.05	258.89	258.87	259.05	259.23	259.14	
15	259.11	259.28	258.98	259.09	259.02	258.96	259.05	258.90	258.87	259.05	259.17	259.13	
16	259.11	259.28	258.98	259.09	259.02	258.89	259.04	258.90	258.87	259.03	259.15	259.16	
17	259.10	259.28	258.98	259.09	259.02	258.89	259.03	258.90	258.87	258.97	259.15	259.17	
18	259.05	259.28	258.98	259.09	259.02	258.89	259.03	258.89	258.87	258.87	259.16	259.20	
19	259.05	259.28	258.98	259.07	259.02	258.89	259.03	258.89	258.87	258.87	259.13	259.18	
20	259.05	259.28	258.98	259.07	259.02	258.89	258.97	258.89	258.87	258.87	259.14	259.19	
21	259.06	259.28	259.02	259.08	259.02	258.89	258.89	258.89	258.89	258.87	259.14	259.19	
22	259.06	259.22	259.08	259.08	259.02	258.89	258.89	258.89	258.93	258.87	259.15	259.16	
23	259.06	258.96	259.08	259.08	259.02	258.88	258.89	258.88	258.93	258.87	259.16	259.13	
24	259.09	258.97	259.08	259.03	259.19	258.94	258.89	258.87	258.93	258.88	259.18	259.13	
25	259.15	258.97	259.11	258.87	259.39	259.15	258.89	258.87	258.93	258.96	259.17	259.17	
26	259.15	258.97	259.15	258.93	259.09	259.17	258.89	258.87	258.95	258.95	259.17	259.19	
27	259.15	258.97	259.12	259.00	259.09	259.16	258.89	258.87	258.99	258.96	259.10	259.18	
28	259.15	258.97	259.05	258.89	259.09	259.14	258.89	258.87	258.96	258.93	259.09	259.17	
29	259.15	258.97	259.04	258.89	259.22	259.16	259.02	258.87	258.89	258.92		259.15	
30	259.15	258.97	259.04	258.89	259.69	259.14	259.07	258.87	258.93	258.97		259.12	
31		258.97		258.93	259.74		259.07		258.94	258.97		259.11	
Mean	259.10	259.17	259.01	259.00	259.10	259.38	258.97	258.93	258.89	258.94	259.15	259.16	
Max	259.60	259.28	259.15	259.11	259.74	260.50	259.07	259.17	258.99	259.05	259.23	259.20	260.50
Min	259.03	258.96	258.97	258.87	259.02	258.88	258.88	258.87	258.85	258.87	258.95	259.11	258.85

Annual Max Momentary Gage Height	260.54	m. (MSL.) ,	at 01.00 Hours , on Sep 9 , 2014		
Zero Gage at Bottom Elevation	259.00	m. (MSL.) ,	River Bed	257.87	m. (MSL.)
Left Bank Elevation	270.17	m. (MSL.) ,			
Right Bank Elevation	269.86	m. (MSL.) ,	Drainage Area	2798	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	27.50	10.25	4.60	6.70	6.40	39.95	7.60	7.60	1.75	2.00	4.60	8.85		
2	7.90	10.25	4.60	7.00	6.40	30.70	7.60	7.30	1.50	2.00	4.60	11.65		
3	6.40	10.25	4.60	7.90	6.40	8.85	7.60	7.00	1.75	2.00	4.00	11.65		
4	6.40	10.25	4.90	7.90	6.10	32.70	5.80	9.20	1.75	1.75	9.20	11.30		
5	6.40	11.65	4.90	7.90	6.10	33.90	2.00	10.95	1.75	1.75	13.05	10.95		
6	6.40	14.80	4.90	6.70	6.10	51.65	2.00	5.80	1.75	1.75	13.05	11.30		
7	6.40	14.80	4.90	1.75	6.10	67.62	2.00	4.90	1.75	2.00	13.05	11.30		
8	6.40	14.80	4.90	2.25	6.10	66.65	2.00	7.00	1.75	6.70	12.70	11.30		
9	6.40	14.80	4.90	2.25	6.10	65.19	2.00	2.25	1.25	7.00	11.65	11.65		
10	7.00	14.80	4.90	2.25	6.10	48.50	2.00	2.00	1.75	7.00	10.95	10.60		
11	8.85	14.80	4.90	2.25	6.10	31.90	2.00	2.00	1.75	7.00	11.65	10.95		
12	8.85	14.80	4.90	3.40	6.10	21.90	6.70	2.00	1.75	7.00	11.65	9.20		
13	8.85	14.80	4.90	8.85	6.10	14.45	7.00	2.00	1.75	7.00	13.05	10.25		
14	8.85	14.80	4.90	8.20	6.10	12.35	7.00	2.25	1.75	7.00	13.05	9.90		
15	8.85	14.80	4.90	8.20	6.10	4.30	7.00	2.50	1.75	7.00	10.95	9.55		
16	8.85	14.80	4.90	8.20	6.10	2.25	6.70	2.50	1.75	6.40	10.25	10.60		
17	8.50	14.80	4.90	8.20	6.10	2.25	6.40	2.50	1.75	4.60	10.25	10.95		
18	7.00	14.80	4.90	8.20	6.10	2.25	6.40	2.25	1.75	1.75	10.60	12.00		
19	7.00	14.80	4.90	7.60	6.10	2.25	6.40	2.25	1.75	1.75	9.55	11.30		
20	7.00	14.80	4.90	7.60	6.10	2.25	4.60	2.25	1.75	1.75	9.90	11.65		
21	7.30	14.80	6.10	7.90	6.10	2.25	2.25	2.25	2.25	1.75	9.90	11.65		
22	7.30	12.70	7.90	7.90	6.10	2.25	2.25	2.25	3.40	1.75	10.25	10.60		
23	7.30	4.30	7.90	7.90	6.10	2.00	2.25	2.00	3.40	1.75	10.60	9.55		
24	8.20	4.60	7.90	6.40	11.65	3.70	2.25	1.75	3.40	2.00	11.30	9.55		
25	10.25	4.60	8.85	1.75	19.10	10.25	2.25	1.75	3.40	4.30	10.95	10.95		
26	10.25	4.60	10.25	3.40	8.20	10.95	2.25	1.75	4.00	4.00	10.95	11.65		
27	10.25	4.60	9.20	5.50	8.20	10.60	2.25	1.75	5.20	4.30	8.50	11.30		
28	10.25	4.60	7.00	2.25	8.20	9.90	2.25	1.75	4.30	3.40	8.20	10.95		
29	10.25	4.60	6.70	2.25	12.70	10.60	6.10	1.75	2.25	3.10		10.25		
30	10.25	4.60	6.70	2.25	31.10	9.90	7.60	1.75	3.40	4.60		9.20		
31		4.60		3.40	33.10		7.60		3.70	4.60		8.85		
Total	261.40	343.25	175.60	174.20	273.45	614.26	140.10	105.25	72.95	120.75	288.40	331.40	2901.01	CMSDAY
Mean	8.71	11.07	5.85	5.62	8.82	20.48	4.52	3.51	2.35	3.90	10.30	10.69	7.95	CMS
Max	27.50	14.80	10.25	8.85	33.10	67.62	7.60	10.95	5.20	7.00	13.05	12.00	67.62	CMS
Min	6.40	4.30	4.60	1.75	6.10	2.00	2.00	1.75	1.25	1.75	4.00	8.85	1.25	CMS
Runoff	22.59	29.66	15.17	15.05	23.63	53.07	12.11	9.09	6.30	10.43	24.92	28.63	250.65	MCM

Momentary Peak 69.58 CMS. at 260.54 m. (MSL.) at 01.00 Hours , on Sep 9 , 2014

Runoff Yield 2.84 Liters/Second/Square KM. Momentary Peak Yield 24.868 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

Lat 18 - 46 - 45 N Long 99 - 37 - 52 E

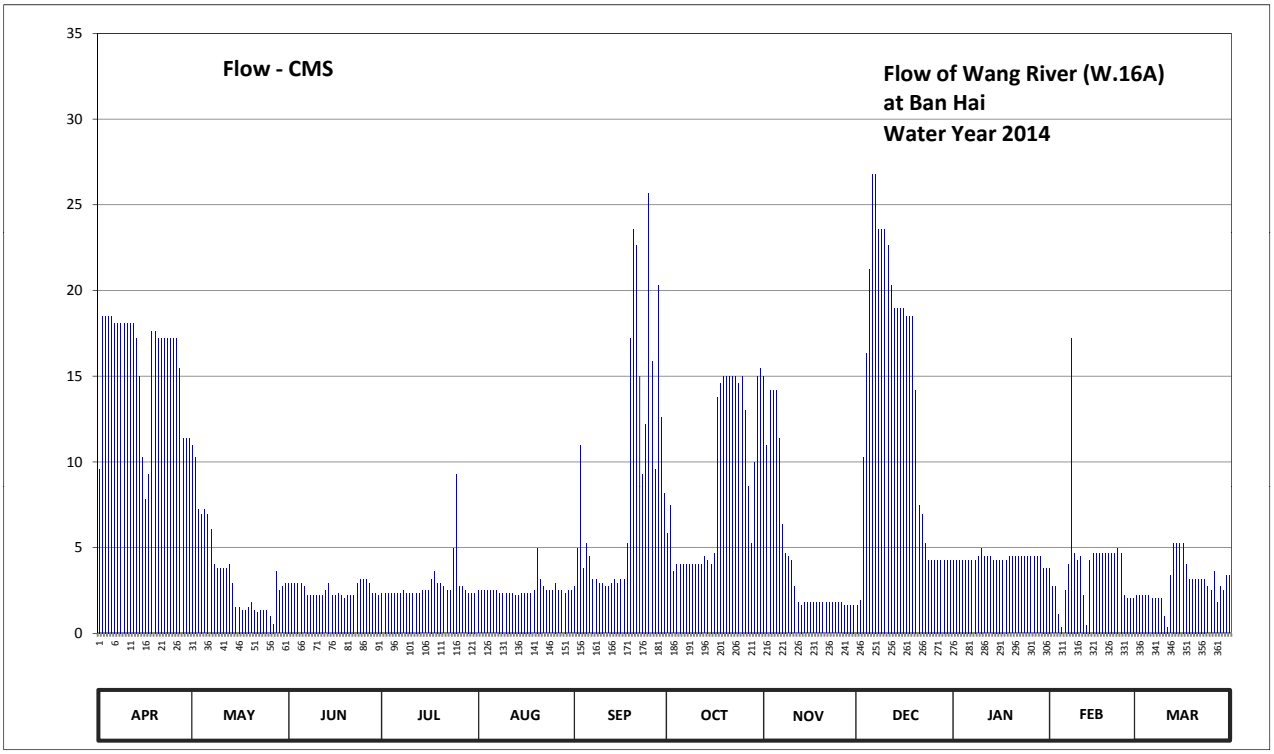
Location : on left bank at Ban Hai

	Ban Hai	**Amphoe** Chae Hom	**Changwat** Lampang
Drainge Area	1,392 sq.km.		
Type of Gage	Water - stage recorder.		
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	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 Flot	-		
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 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	305.16	305.20	304.92	304.89	304.90	304.91	305.04	305.30	304.84	304.98	304.96	304.88	
2	305.38	305.18	304.92	304.89	304.90	305.01	305.10	305.20	304.86	304.98	304.91	304.88	
3	305.38	305.09	304.92	304.89	304.90	305.20	304.95	305.28	305.18	304.98	304.91	304.88	
4	305.38	305.08	304.92	304.89	304.90	304.96	304.97	305.28	305.33	304.98	304.80	304.88	
5	305.38	305.09	304.92	304.89	304.90	305.02	304.97	305.28	305.44	304.98	304.71	304.88	
6	305.37	305.08	304.91	304.89	304.90	304.99	304.97	305.21	305.55	304.98	304.90	304.87	
7	305.37	305.05	304.88	304.89	304.90	304.93	304.97	305.06	305.55	304.98	304.97	304.87	
8	305.37	304.97	304.88	304.90	304.89	304.93	304.97	305.00	305.49	304.98	305.35	304.87	
9	305.37	304.96	304.88	304.89	304.89	304.92	304.97	304.99	305.49	304.99	305.00	304.87	
10	305.37	304.96	304.88	304.89	304.89	304.92	304.97	304.98	305.49	305.01	304.98	304.79	
11	305.37	304.96	304.88	304.89	304.89	304.91	304.97	304.91	305.47	304.99	304.99	304.71	
12	305.37	304.96	304.88	304.89	304.89	304.91	304.97	304.85	305.42	304.99	304.88	304.94	
13	305.35	304.97	304.90	304.89	304.88	304.92	304.99	304.84	305.39	304.99	304.72	305.02	
14	305.30	304.92	304.92	304.90	304.88	304.93	304.98	304.85	305.39	304.98	304.98	305.02	
15	305.18	304.83	304.88	304.90	304.89	304.92	304.97	304.85	305.39	304.98	305.00	305.02	
16	305.11	304.83	304.88	304.90	304.89	304.93	305.00	304.85	305.39	304.98	305.00	305.02	
17	305.15	304.82	304.89	304.93	304.89	304.93	305.27	304.85	305.38	304.98	305.00	304.97	
18	305.36	304.82	304.88	304.95	304.89	305.02	305.29	304.85	305.38	304.98	305.00	304.93	
19	305.36	304.83	304.87	304.92	304.90	305.35	305.30	304.85	305.38	304.99	305.00	304.93	
20	305.35	304.85	304.88	304.92	305.01	305.49	305.30	304.85	305.28	304.99	305.00	304.93	
21	305.35	304.82	304.88	304.91	304.93	305.47	305.30	304.85	305.10	304.99	305.00	304.93	
22	305.35	304.81	304.88	304.90	304.91	305.30	305.30	304.85	305.08	304.99	305.00	304.93	
23	305.35	304.82	304.92	304.90	304.90	305.15	305.30	304.85	305.02	304.99	305.01	304.93	
24	305.35	304.82	304.93	305.01	304.90	305.23	305.29	304.85	304.98	304.99	305.00	304.91	
25	305.35	304.82	304.93	305.15	304.90	305.53	305.30	304.85	304.98	304.99	304.88	304.90	
26	305.35	304.79	304.93	304.91	304.92	305.32	305.25	304.85	304.98	304.99	304.87	304.95	
27	305.31	304.73	304.92	304.91	304.90	305.16	305.13	304.84	304.98	304.99	304.87	304.85	
28	305.21	304.95	304.89	304.90	304.90	305.42	305.02	304.84	304.98	304.99	304.87	304.91	
29	305.21	304.90	304.89	304.89	304.89	305.24	305.17	304.84	304.98	304.99		304.90	
30	305.21	304.91	304.88	304.89	304.90	305.12	305.30	304.84	304.98	304.96		304.94	
31		304.92		304.89	304.90		305.31		304.98	304.96		304.94	
Mean	305.32	304.93	304.90	304.91	304.90	305.10	305.12	304.95	305.23	304.98	304.95	304.91	
Max	305.38	305.20	304.93	305.15	305.01	305.53	305.31	305.30	305.55	305.01	305.35	305.02	305.55
Min	305.11	304.73	304.87	304.89	304.88	304.91	304.95	304.84	304.84	304.96	304.71	304.71	304.71

Annual Max Momentary Gage Height	305.58	m. (MSL.) ,	at 17.00 Hours , on Sep 25 , 2014		
Zero Gage at Bottom Elevation	304.00	m. (MSL.) ,	River Bed	303.32	m. (MSL.)
Left Bank Elevation	310.12	m. (MSL.) ,			
Right Bank Elevation	310.10	m. (MSL.) ,	Drainage Area	1392	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.60	11.00	2.94	2.36	2.50	2.72	5.82	15.00	1.66	4.26	3.82	2.22		
2	18.52	10.30	2.94	2.36	2.50	4.98	7.50	11.00	1.94	4.26	2.72	2.22		
3	18.52	7.22	2.94	2.36	2.50	11.00	3.60	14.20	10.30	4.26	2.72	2.22		
4	18.52	6.94	2.94	2.36	2.50	3.82	4.04	14.20	16.32	4.26	1.10	2.22		
5	18.52	7.22	2.94	2.36	2.50	5.26	4.04	14.20	21.24	4.26	0.38	2.22		
6	18.08	6.94	2.72	2.36	2.50	4.48	4.04	11.40	26.75	4.26	2.50	2.08		
7	18.08	6.10	2.22	2.36	2.50	3.16	4.04	6.38	26.75	4.26	4.04	2.08		
8	18.08	4.04	2.22	2.50	2.36	3.16	4.04	4.70	23.54	4.26	17.20	2.08		
9	18.08	3.82	2.22	2.36	2.36	2.94	4.04	4.48	23.54	4.48	4.70	2.08		
10	18.08	3.82	2.22	2.36	2.36	2.94	4.04	4.26	23.54	4.98	4.26	1.02		
11	18.08	3.82	2.22	2.36	2.36	2.72	4.04	2.72	22.62	4.48	4.48	0.38		
12	18.08	3.82	2.22	2.36	2.36	2.72	4.04	1.80	20.32	4.48	2.22	3.38		
13	17.20	4.04	2.50	2.36	2.22	2.94	4.48	1.66	18.96	4.48	0.46	5.26		
14	15.00	2.94	2.94	2.50	2.22	3.16	4.26	1.80	18.96	4.26	4.26	5.26		
15	10.30	1.52	2.22	2.50	2.36	2.94	4.04	1.80	18.96	4.26	4.70	5.26		
16	7.85	1.52	2.22	2.50	2.36	3.16	4.70	1.80	18.96	4.26	4.70	5.26		
17	9.25	1.38	2.36	3.16	2.36	3.16	13.80	1.80	18.52	4.26	4.70	4.04		
18	17.64	1.38	2.22	3.60	2.36	5.26	14.60	1.80	18.52	4.26	4.70	3.16		
19	17.64	1.52	2.08	2.94	2.50	17.20	15.00	1.80	18.52	4.48	4.70	3.16		
20	17.20	1.80	2.22	2.94	4.98	23.54	15.00	1.80	14.20	4.48	4.70	3.16		
21	17.20	1.38	2.22	2.72	3.16	22.62	15.00	1.80	7.50	4.48	4.70	3.16		
22	17.20	1.24	2.22	2.50	2.72	15.00	15.00	1.80	6.94	4.48	4.70	3.16		
23	17.20	1.38	2.94	2.50	2.50	9.25	15.00	1.80	5.26	4.48	4.98	3.16		
24	17.20	1.38	3.16	4.98	2.50	12.20	14.60	1.80	4.26	4.48	4.70	2.72		
25	17.20	1.38	3.16	9.25	2.50	25.65	15.00	1.80	4.26	4.48	2.22	2.50		
26	17.20	1.02	3.16	2.72	2.94	15.88	13.00	1.80	4.26	4.48	2.08	3.60		
27	15.44	0.54	2.94	2.72	2.50	9.60	8.55	1.66	4.26	4.48	2.08	1.80		
28	11.40	3.60	2.36	2.50	2.50	20.32	5.26	1.66	4.26	4.48	2.08	2.72		
29	11.40	2.50	2.36	2.36	2.36	12.60	9.95	1.66	4.26	4.48		2.50		
30	11.40	2.72	2.22	2.36	2.50	8.20	15.00	1.66	4.26	3.82		3.38		
31		2.94		2.36	2.50		15.44		4.26	3.82		3.38		
Total	475.16	111.22	76.24	87.93	79.34	262.58	270.96	136.04	417.90	135.20	110.60	90.84	2254.01	CMSDAY
Mean	15.84	3.59	2.54	2.84	2.56	8.75	8.74	4.53	13.48	4.36	3.95	2.93	6.18	CMS
Max	18.52	11.00	3.16	9.25	4.98	25.65	15.44	15.00	26.75	4.98	17.20	5.26	26.75	CMS
Min	7.85	0.54	2.08	2.36	2.22	2.72	3.60	1.66	1.66	3.82	0.38	0.38	0.38	CMS
Runoff	41.05	9.61	6.59	7.60	6.86	22.69	23.41	11.75	36.11	11.68	9.56	7.85	194.75	MCM

Momentary Peak 28.40 CMS. at 305.58 m. (MSL.) at 17.00 Hours , on Sep 25 , 2014

Runoff Yield 4.44 Liters/Second/Square KM. Momentary Peak Yield 20.402 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

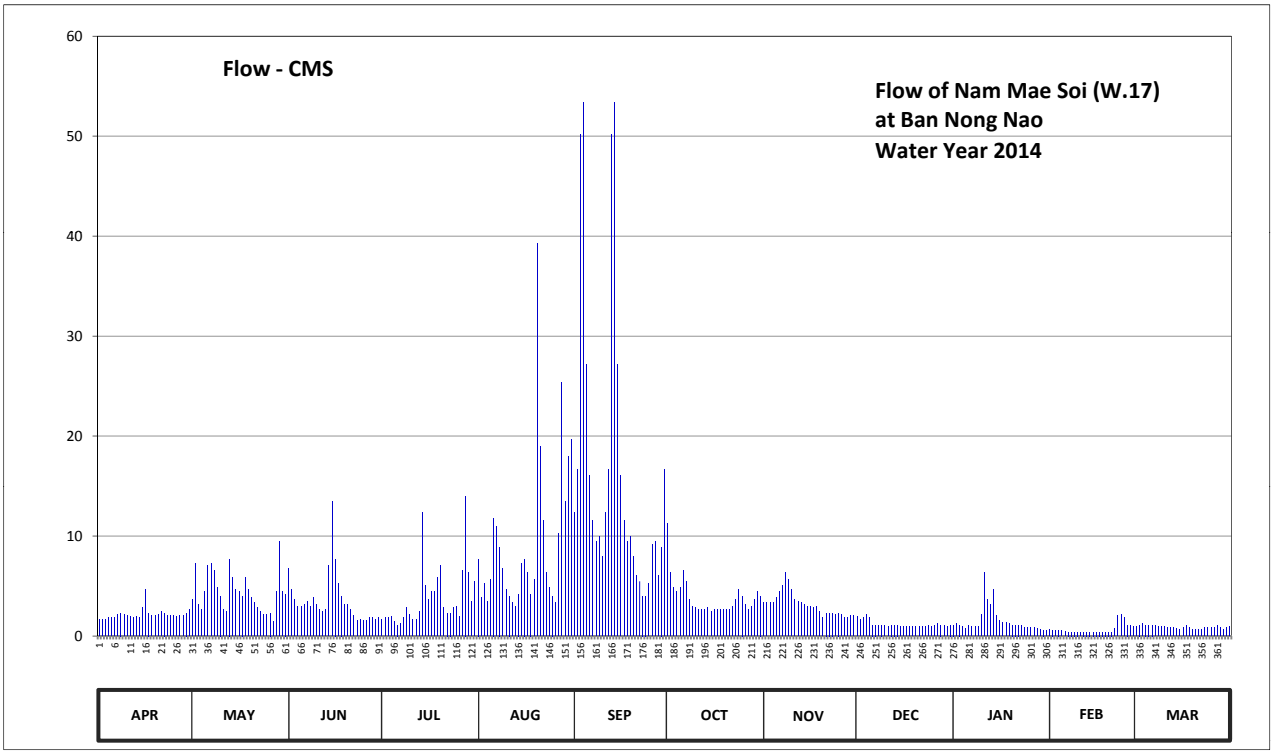
Location : on right at the bridge of Lampang - Wang Nua Road.

	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** +296.276 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 Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.45	291.58	291.73	291.45	291.77	291.95	291.91	291.56	291.47	291.40	291.34	291.38	
2	291.45	291.75	291.63	291.46	291.59	292.10	291.71	291.56	291.45	291.41	291.33	291.40	
3	291.45	291.55	291.58	291.46	291.66	292.91	291.64	291.56	291.46	291.40	291.32	291.41	
4	291.46	291.52	291.54	291.47	291.57	292.97	291.62	291.56	291.49	291.38	291.33	291.40	
5	291.46	291.62	291.54	291.43	291.68	292.40	291.64	291.59	291.46	291.35	291.32	291.40	
6	291.46	291.74	291.55	291.40	291.93	292.08	291.72	291.62	291.40	291.39	291.31	291.40	
7	291.49	291.75	291.57	291.41	291.90	291.92	291.67	291.65	291.40	291.38	291.30	291.39	
8	291.50	291.72	291.54	291.46	291.82	291.84	291.58	291.71	291.39	291.38	291.30	291.38	
9	291.49	291.64	291.59	291.53	291.73	291.86	291.54	291.68	291.40	291.38	291.30	291.38	
10	291.48	291.60	291.55	291.49	291.63	291.78	291.53	291.63	291.39	291.49	291.29	291.38	
11	291.47	291.52	291.52	291.45	291.60	291.95	291.52	291.58	291.38	291.71	291.28	291.37	
12	291.46	291.51	291.51	291.45	291.56	292.10	291.52	291.57	291.40	291.58	291.29	291.36	
13	291.47	291.77	291.52	291.51	291.54	292.91	291.52	291.56	291.40	291.55	291.30	291.36	
14	291.46	291.69	291.74	291.95	291.61	292.97	291.53	291.55	291.40	291.63	291.30	291.35	
15	291.53	291.63	291.99	291.65	291.75	292.40	291.51	291.54	291.38	291.48	291.30	291.34	
16	291.63	291.62	291.77	291.58	291.77	292.08	291.52	291.54	291.38	291.44	291.29	291.36	
17	291.50	291.60	291.66	291.62	291.71	291.92	291.52	291.53	291.38	291.42	291.29	291.39	
18	291.48	291.69	291.60	291.62	291.61	291.84	291.52	291.54	291.38	291.42	291.30	291.37	
19	291.48	291.63	291.55	291.69	291.68	291.86	291.52	291.51	291.38	291.41	291.30	291.34	
20	291.49	291.59	291.55	291.74	292.68	291.78	291.52	291.46	291.38	291.40	291.30	291.34	
21	291.51	291.56	291.52	291.53	292.17	291.70	291.52	291.50	291.38	291.40	291.29	291.34	
22	291.50	291.53	291.48	291.50	291.92	291.67	291.54	291.50	291.38	291.40	291.35	291.34	
23	291.48	291.51	291.44	291.50	291.71	291.60	291.58	291.50	291.38	291.39	291.48	291.36	
24	291.48	291.49	291.45	291.53	291.64	291.60	291.63	291.49	291.39	291.37	291.49	291.37	
25	291.48	291.49	291.44	291.54	291.60	291.66	291.60	291.50	291.38	291.36	291.46	291.36	
26	291.47	291.50	291.44	291.47	291.56	291.83	291.55	291.49	291.39	291.36	291.40	291.37	
27	291.48	291.43	291.46	291.72	291.87	291.84	291.52	291.46	291.41	291.36	291.39	291.39	
28	291.48	291.62	291.46	292.01	292.35	291.70	291.54	291.46	291.40	291.35	291.38	291.37	
29	291.50	291.84	291.45	291.71	291.99	291.82	291.58	291.48	291.39	291.34		291.34	
30	291.52	291.62	291.46	291.57	292.14	292.10	291.62	291.48	291.38	291.33		291.36	
31		291.61		291.67	292.19		291.60		291.40	291.32		291.38	
Mean	291.49	291.61	291.56	291.57	291.80	292.04	291.58	291.55	291.40	291.42	291.33	291.37	
Max	291.63	291.84	291.99	292.01	292.68	292.97	291.91	291.71	291.49	291.71	291.49	291.41	292.97
Min	291.45	291.43	291.44	291.40	291.54	291.60	291.51	291.46	291.38	291.32	291.28	291.34	291.28

Annual Max Momentary Gage Height	293.25	m. (MSL.) ,	at 01.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	292.00	m. (MSL.) ,	River Bed	290.62	m. (MSL.)
Left Bank Elevation	296.45	m. (MSL.) ,			
Right Bank Elevation	296.49	m. (MSL.) ,	Drainage Area	726	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	3.66	6.79	1.70	7.71	12.35	11.27	3.32	1.94	1.10	0.68	0.96		
2	1.70	7.25	4.63	1.82	3.83	16.70	6.33	3.32	1.70	1.22	0.61	1.10		
3	1.70	3.15	3.66	1.82	5.26	50.14	4.84	3.32	1.82	1.10	0.54	1.22		
4	1.82	2.64	2.98	1.94	3.49	53.38	4.42	3.32	2.18	0.96	0.61	1.10		
5	1.82	4.42	2.98	1.46	5.68	27.20	4.84	3.83	1.82	0.75	0.54	1.10		
6	1.82	7.02	3.15	1.10	11.81	16.10	6.56	4.42	1.10	1.03	0.47	1.10		
7	2.18	7.25	3.49	1.22	11.00	11.54	5.47	5.05	1.10	0.96	0.40	1.03		
8	2.30	6.56	2.98	1.82	8.92	9.44	3.66	6.33	1.03	0.96	0.40	0.96		
9	2.18	4.84	3.83	2.81	6.79	9.96	2.98	5.68	1.10	0.96	0.40	0.96		
10	2.06	4.00	3.15	2.18	4.63	7.94	2.81	4.63	1.03	2.18	0.39	0.96		
11	1.94	2.64	2.64	1.70	4.00	12.35	2.64	3.66	0.96	6.33	0.37	0.89		
12	1.82	2.47	2.47	1.70	3.32	16.70	2.64	3.49	1.10	3.66	0.39	0.82		
13	1.94	7.71	2.64	2.47	2.98	50.14	2.64	3.32	1.10	3.15	0.40	0.82		
14	1.82	5.89	7.02	12.35	4.21	53.38	2.81	3.15	1.10	4.63	0.40	0.75		
15	2.81	4.63	13.43	5.05	7.25	27.20	2.47	2.98	0.96	2.06	0.40	0.68		
16	4.63	4.42	7.71	3.66	7.71	16.10	2.64	2.98	0.96	1.58	0.39	0.82		
17	2.30	4.00	5.26	4.42	6.33	11.54	2.64	2.81	0.96	1.34	0.39	1.03		
18	2.06	5.89	4.00	4.42	4.21	9.44	2.64	2.98	0.96	1.34	0.40	0.89		
19	2.06	4.63	3.15	5.89	5.68	9.96	2.64	2.47	0.96	1.22	0.40	0.68		
20	2.18	3.83	3.15	7.02	39.28	7.94	2.64	1.82	0.96	1.10	0.40	0.68		
21	2.47	3.32	2.64	2.81	19.01	6.10	2.64	2.30	0.96	1.10	0.39	0.68		
22	2.30	2.81	2.06	2.30	11.54	5.47	2.98	2.30	0.96	1.10	0.75	0.68		
23	2.06	2.47	1.58	2.30	6.33	4.00	3.66	2.30	0.96	1.03	2.06	0.82		
24	2.06	2.18	1.70	2.81	4.84	4.00	4.63	2.18	1.03	0.89	2.18	0.89		
25	2.06	2.18	1.58	2.98	4.00	5.26	4.00	2.30	0.96	0.82	1.82	0.82		
26	1.94	2.30	1.58	1.94	3.32	9.18	3.15	2.18	1.03	0.82	1.10	0.89		
27	2.06	1.46	1.82	6.56	10.22	9.44	2.64	1.82	1.22	0.82	1.03	1.03		
28	2.06	4.42	1.82	14.00	25.40	6.10	2.98	1.82	1.10	0.75	0.96	0.89		
29	2.30	9.44	1.70	6.33	13.43	8.92	3.66	2.06	1.03	0.68		0.68		
30	2.64	4.42	1.82	3.49	18.02	16.70	4.42	2.06	0.96	0.61		0.82		
31		4.21		5.47	19.67		4.00		1.10	0.54		0.96		
Total	64.79	136.11	107.41	117.54	289.87	504.67	118.34	94.20	36.15	46.79	19.27	27.71	1562.85	CMSDAY
Mean	2.16	4.39	3.58	3.79	9.35	16.82	3.82	3.14	1.17	1.51	0.69	0.89	4.28	CMS
Max	4.63	9.44	13.43	14.00	39.28	53.38	11.27	6.33	2.18	6.33	2.18	1.22	53.38	CMS
Min	1.70	1.46	1.58	1.10	2.98	4.00	2.47	1.82	0.96	0.54	0.37	0.68	0.37	CMS
Runoff	5.60	11.76	9.28	10.16	25.05	43.60	10.23	8.14	3.12	4.04	1.67	2.39	135.03	MCM

Momentary Peak 69.00 CMS. at 293.25 m. (MSL.) at 01.00 Hours , on Sep 4 , 2014

Runoff Yield 5.90 Liters/Second/Square KM. Momentary Peak Yield 95.041 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Nam Mae Soi at Ban Thung Thong , Lampang (W.17A)

Lat 18 - 42 - 16 N Long 99 - 53 - 52 E

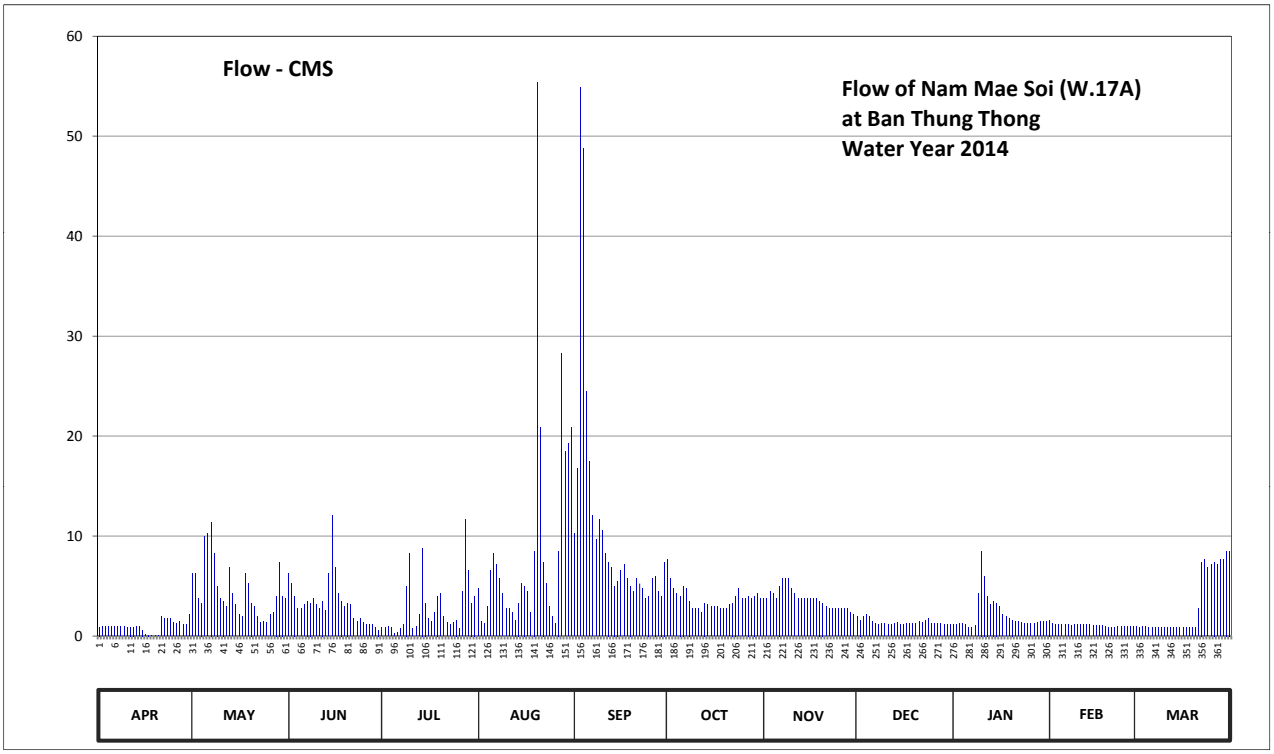
Location : on left bank at Ban Thung Thong.

	Ban Thung Thong	**Amphoe** Chae Hom	**Changwat** Lampang
Drainge Area	788 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+295.655 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 21 meters from the top staff gage.	**Elevation**	+300.250 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Rather unstable by some scouring.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 45 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	296.57	296.21	296.21	295.93	296.15	296.35	296.26	296.11	296.02	295.96	296.00	295.94	
2	296.58	296.21	296.17	295.93	295.99	296.55	296.19	296.11	296.00	295.96	295.97	295.93	
3	296.58	296.11	296.12	295.94	295.97	297.37	296.15	296.14	296.02	295.97	295.96	295.94	
4	296.58	296.09	296.06	295.93	296.07	297.26	296.13	296.13	296.03	295.97	295.96	295.94	
5	296.58	296.34	296.06	295.85	296.22	296.75	296.12	296.11	296.02	295.96	295.96	295.93	
6	296.58	296.35	296.08	295.87	296.28	296.57	296.16	296.16	295.99	295.93	295.96	295.93	
7	296.58	296.39	296.10	295.92	296.24	296.41	296.15	296.19	295.97	295.93	295.96	295.93	
8	296.59	296.28	296.09	295.96	296.19	296.33	296.10	296.19	295.96	295.95	295.95	295.93	
9	296.58	296.16	296.11	296.16	296.13	296.40	296.06	296.19	295.97	296.13	295.96	295.93	
10	296.56	296.11	296.08	296.28	296.06	296.36	296.06	296.15	295.97	296.29	295.96	295.93	
11	296.57	296.10	296.06	295.92	296.06	296.28	296.06	296.13	295.96	296.20	295.96	295.93	
12	296.57	296.07	296.10	295.94	296.04	296.25	296.04	296.11	295.96	296.12	295.96	295.93	
13	296.59	296.23	296.05	296.03	296.00	296.23	296.09	296.11	295.97	296.08	295.96	295.93	
14	296.58	296.13	296.21	296.30	296.09	296.16	296.08	296.11	295.98	296.10	295.96	295.93	
15	296.45	296.08	296.41	296.09	296.17	296.18	296.07	296.11	295.96	296.09	295.95	295.93	
16	296.09	296.03	296.23	296.01	296.16	296.22	296.07	296.11	295.96	296.07	295.95	295.93	
17	296.00	296.02	296.13	295.99	296.14	296.24	296.07	296.11	295.97	296.03	295.95	295.93	
18	295.95	296.21	296.10	296.04	296.04	296.19	296.06	296.11	295.97	296.02	295.95	295.93	
19	295.90	296.17	296.07	296.12	296.29	296.16	296.06	296.10	295.97	296.01	295.94	295.93	
20	295.89	296.09	296.09	296.13	297.38	296.14	296.06	296.09	295.97	296.00	295.93	295.93	
21	296.02	296.07	296.08	296.02	296.66	296.19	296.08	296.07	295.99	295.99	295.93	296.06	
22	296.01	296.02	296.01	295.98	296.25	296.17	296.09	296.06	295.98	295.99	295.93	296.25	
23	296.01	295.98	295.99	295.96	296.17	296.15	296.12	296.06	296.00	295.98	295.94	296.26	
24	296.01	295.99	296.01	295.98	296.07	296.11	296.15	296.06	296.01	295.97	295.94	296.23	
25	295.98	295.98	295.98	296.00	296.02	296.12	296.11	296.06	295.97	295.97	295.94	296.24	
26	295.97	296.03	295.96	295.92	295.97	296.19	296.11	296.06	295.97	295.97	295.94	296.25	
27	295.99	296.04	295.96	296.14	296.29	296.20	296.12	296.06	295.97	295.97	295.94	296.24	
28	295.96	296.12	295.96	296.40	296.84	296.14	296.11	296.06	295.97	295.98	295.94	296.26	
29	295.96	296.25	295.93	296.22	296.60	296.12	296.12	296.04	295.96	295.99		296.26	
30	296.03	296.12	295.91	296.09	296.62	296.25	296.13	296.03	295.96	295.99		296.29	
31		296.11		296.12	296.66		296.11		295.96	295.99		296.29	
Mean	296.28	296.13	296.08	296.04	296.25	296.33	296.11	296.10	295.98	296.02	295.95	296.04	
Max	296.59	296.39	296.41	296.40	297.38	297.37	296.26	296.19	296.03	296.29	296.00	296.29	297.38
Min	295.89	295.98	295.91	295.85	295.97	296.11	296.04	296.03	295.96	295.93	295.93	295.93	295.85

Annual Max Momentary Gage Height	297.65	m. (MSL.) ,	at 22.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	295.66	m. (MSL.) ,	River Bed	295.13	m. (MSL.)
Left Bank Elevation	300.10	m. (MSL.) ,			
Right Bank Elevation	300.20	m. (MSL.) ,	Drainage Area	788	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.91	6.28	6.28	0.83	4.75	10.25	7.68	3.75	1.98	1.16	1.60	0.94		
2	0.94	6.28	5.25	0.83	1.49	16.75	5.75	3.75	1.60	1.16	1.27	0.83		
3	0.94	3.75	4.00	0.94	1.27	54.85	4.75	4.50	1.98	1.27	1.16	0.94		
4	0.94	3.31	2.74	0.83	2.93	48.80	4.25	4.25	2.17	1.27	1.16	0.94		
5	0.94	9.96	2.74	0.25	6.56	24.50	4.00	3.75	1.98	1.16	1.16	0.83		
6	0.94	10.25	3.12	0.35	8.24	17.45	5.00	5.00	1.49	0.83	1.16	0.83		
7	0.94	11.41	3.50	0.72	7.12	12.03	4.75	5.75	1.27	0.83	1.16	0.83		
8	0.97	8.24	3.31	1.16	5.75	9.67	3.50	5.75	1.16	1.05	1.05	0.83		
9	0.94	5.00	3.75	5.00	4.25	11.70	2.74	5.75	1.27	4.25	1.16	0.83		
10	0.88	3.75	3.12	8.24	2.74	10.54	2.74	4.75	1.27	8.52	1.16	0.83		
11	0.91	3.50	2.74	0.72	2.74	8.24	2.74	4.25	1.16	6.00	1.16	0.83		
12	0.91	2.93	3.50	0.94	2.36	7.40	2.36	3.75	1.16	4.00	1.16	0.83		
13	0.97	6.84	2.55	2.17	1.60	6.84	3.31	3.75	1.27	3.12	1.16	0.83		
14	0.94	4.25	6.28	8.80	3.31	5.00	3.12	3.75	1.38	3.50	1.16	0.83		
15	0.60	3.12	12.03	3.31	5.25	5.50	2.93	3.75	1.16	3.31	1.05	0.83		
16	0.17	2.17	6.84	1.79	5.00	6.56	2.93	3.75	1.16	2.93	1.05	0.83		
17	0.11	1.98	4.25	1.49	4.50	7.12	2.93	3.75	1.27	2.17	1.05	0.83		
18	0.08	6.28	3.50	2.36	2.36	5.75	2.74	3.75	1.27	1.98	1.05	0.83		
19	0.05	5.25	2.93	4.00	8.52	5.00	2.74	3.50	1.27	1.79	0.94	0.83		
20	0.05	3.31	3.31	4.25	55.40	4.50	2.74	3.31	1.27	1.60	0.83	0.83		
21	1.98	2.93	3.12	1.98	20.90	5.75	3.12	2.93	1.49	1.49	0.83	2.74		
22	1.79	1.98	1.79	1.38	7.40	5.25	3.31	2.74	1.38	1.49	0.83	7.40		
23	1.79	1.38	1.49	1.16	5.25	4.75	4.00	2.74	1.60	1.38	0.94	7.68		
24	1.79	1.49	1.79	1.38	2.93	3.75	4.75	2.74	1.79	1.27	0.94	6.84		
25	1.38	1.38	1.38	1.60	1.98	4.00	3.75	2.74	1.27	1.27	0.94	7.12		
26	1.27	2.17	1.16	0.72	1.27	5.75	3.75	2.74	1.27	1.27	0.94	7.40		
27	1.49	2.36	1.16	4.50	8.52	6.00	4.00	2.74	1.27	1.27	0.94	7.12		
28	1.16	4.00	1.16	11.70	28.30	4.50	3.75	2.74	1.27	1.38	0.94	7.68		
29	1.16	7.40	0.83	6.56	18.50	4.00	4.00	2.36	1.16	1.49		7.68		
30	2.17	4.00	0.61	3.31	19.30	7.40	4.25	2.17	1.16	1.49		8.52		
31		3.75		4.00	20.90		3.75		1.16	1.49		8.52		
Total	30.11	140.70	100.23	87.27	271.39	329.60	116.13	110.95	43.36	67.19	29.95	95.63	1422.51	CMSDAY
Mean	1.00	4.54	3.34	2.82	8.75	10.99	3.75	3.70	1.40	2.17	1.07	3.08	3.90	CMS
Max	2.17	11.41	12.03	11.70	55.40	54.85	7.68	5.75	2.17	8.52	1.60	8.52	55.40	CMS
Min	0.05	1.38	0.61	0.25	1.27	3.75	2.36	2.17	1.16	0.83	0.83	0.83	0.05	CMS
Runoff	2.60	12.16	8.66	7.54	23.45	28.48	10.03	9.59	3.75	5.81	2.59	8.26	122.91	MCM

Momentary Peak 71.37 CMS. at 297.65 m. (MSL.) at 22.00 Hours , on Sep 3 , 2014

Runoff Yield 4.95 Liters/Second/Square KM. Momentary Peak Yield 90.571 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Nam Mae Tam at Ban Sop Tam , Lampang (W.18A)

Lat 18 - 02 - 38 N Long 99 - 14 - 14 E

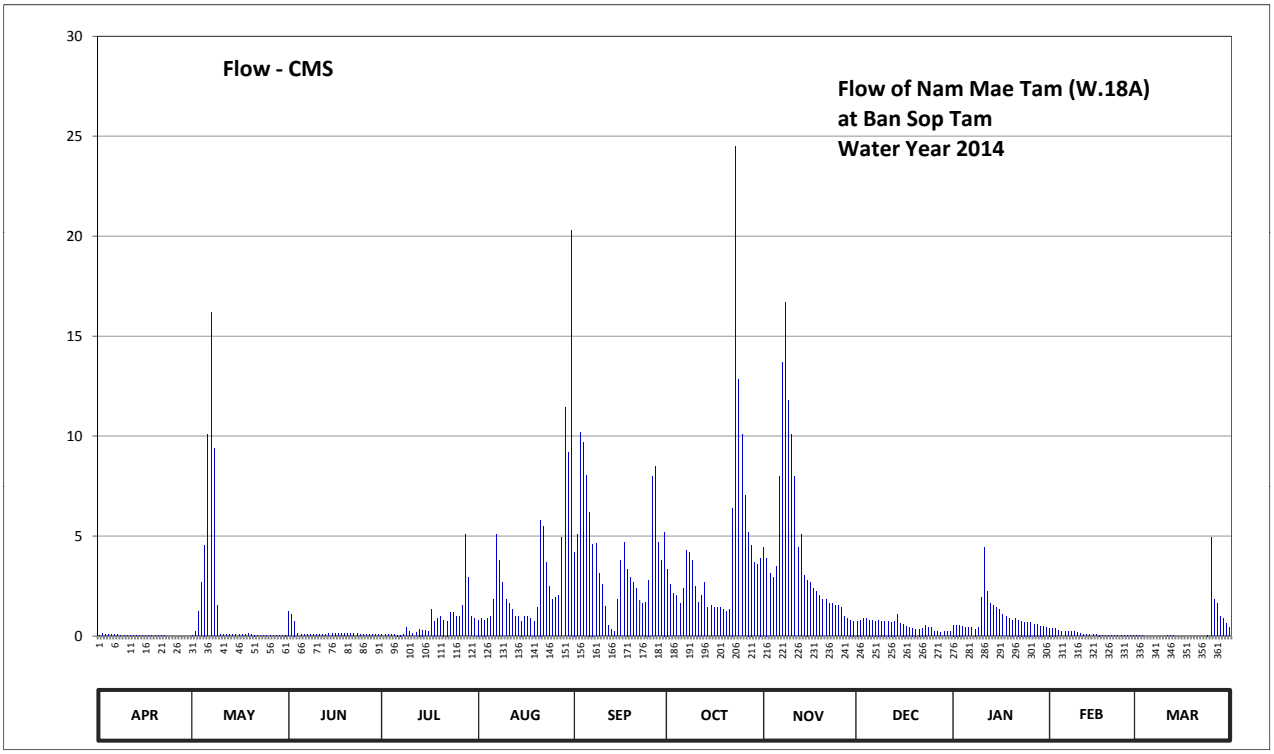
Location : on left bank at Ban Sop Tam.

	Ban Sop Tam	**Amphoe** Ko Kha	**Changwat** Lampang
Drainge Area	371 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+204.920 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 21 meters from the top staff gage.	**Elevation**	+213.703 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	204.72	204.67	205.05	204.77	205.00	206.45	205.25	205.34	204.99	204.95	204.92	204.65	
2	204.82	204.88	205.03	204.77	205.01	206.67	205.18	205.30	205.00	204.95	204.92	204.64	
3	204.80	205.05	204.99	204.77	205.00	207.84	205.14	205.23	205.01	204.95	204.92	204.64	
4	204.79	205.19	204.83	204.77	205.01	207.73	205.13	205.21	205.01	204.94	204.89	204.62	
5	204.80	205.35	204.81	204.77	205.02	207.37	205.09	205.26	205.00	204.93	204.88	204.62	
6	204.80	205.70	204.80	204.76	205.11	206.95	205.16	205.58	205.00	204.93	204.87	204.62	
7	204.78	206.00	204.81	204.76	205.39	206.55	205.33	205.88	204.99	204.93	204.86	204.61	
8	204.74	205.66	204.80	204.79	205.29	206.56	205.32	206.02	205.00	204.91	204.86	204.60	
9	204.73	205.08	204.80	204.93	205.19	206.18	205.29	205.79	204.99	204.93	204.86	204.60	
10	204.72	204.81	204.81	204.88	205.11	206.04	205.17	205.70	204.99	205.12	204.84	204.59	
11	204.71	204.79	204.78	204.83	205.09	205.72	205.10	205.58	204.99	205.34	204.83	204.65	
12	204.70	204.79	204.81	204.85	205.06	205.30	205.13	205.34	204.98	205.15	204.81	204.64	
13	204.69	204.78	204.80	204.91	205.02	205.20	205.19	205.39	204.99	205.09	204.81	204.64	
14	204.68	204.79	204.82	204.90	205.02	205.07	205.07	205.22	205.03	205.08	204.81	204.62	
15	204.67	204.81	204.83	204.89	204.99	205.11	205.08	205.20	204.97	205.07	204.80	204.62	
16	204.66	204.80	204.82	204.87	205.02	205.29	205.07	205.19	204.96	205.06	204.78	204.62	
17	204.65	204.78	204.82	205.06	205.02	205.36	205.07	205.16	204.94	205.03	204.76	204.61	
18	204.65	204.80	204.83	204.99	205.01	205.25	205.07	205.15	204.93	205.02	204.73	204.60	
19	204.65	204.83	204.83	205.01	204.99	205.21	205.06	205.13	204.92	205.01	204.72	204.60	
20	204.65	204.81	204.82	205.02	205.07	205.19	205.05	205.11	204.91	205.00	204.70	204.59	
21	204.64	204.75	204.82	205.00	205.44	205.16	205.06	205.11	204.91	205.01	204.69	204.53	
22	204.64	204.74	204.82	204.99	205.42	205.11	205.48	205.09	204.92	205.00	204.71	204.52	
23	204.62	204.73	204.82	205.04	205.28	205.09	206.34	205.09	204.95	204.99	204.71	204.51	
24	204.62	204.72	204.81	205.04	205.17	205.10	205.84	205.08	204.93	204.98	204.70	204.76	
25	204.62	204.73	204.81	205.02	205.11	205.20	205.70	205.08	204.93	204.98	204.67	205.38	
26	204.62	204.72	204.80	205.02	205.12	205.58	205.52	205.07	204.86	204.98	204.67	205.11	
27	204.62	204.72	204.80	205.08	205.13	205.61	205.40	205.02	204.86	204.96	204.66	205.09	
28	204.62	204.71	204.79	205.39	205.38	205.36	205.35	205.01	204.85	204.96	204.65	205.02	
29	204.62	204.64	204.78	205.21	205.77	205.29	205.28	205.00	204.86	204.94		205.01	
30	204.62	204.73	204.78	205.02	205.65	205.40	205.27	204.99	204.87	204.94		204.97	
31		204.76		205.01	206.17		205.30		204.87	204.93		204.93	
Mean	204.69	204.91	204.83	204.94	205.20	205.80	205.27	205.28	204.95	205.00	204.79	204.72	
Max	204.82	206.00	205.05	205.39	206.17	207.84	206.34	206.02	205.03	205.34	204.92	205.38	207.84
Min	204.62	204.64	204.78	204.76	204.99	205.07	205.05	204.99	204.85	204.91	204.65	204.51	204.51

Annual Max Momentary Gage Height	208.02	m. (MSL.) ,	at 06.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	204.92	m. (MSL.) ,	River Bed	204.64	m. (MSL.)
Left Bank Elevation	213.03	m. (MSL.) ,			
Right Bank Elevation	213.08	m. (MSL.) ,	Drainage Area	371	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.01	1.25	0.06	0.80	4.20	3.35	4.42	0.75	0.55	0.40	0.01		
2	0.12	0.25	1.07	0.06	0.89	5.08	2.58	3.90	0.80	0.55	0.40	0.01		
3	0.07	1.25	0.75	0.06	0.80	10.18	2.14	3.13	0.89	0.55	0.40	0.01		
4	0.06	2.69	0.14	0.06	0.89	9.68	2.03	2.91	0.89	0.50	0.28	0.00		
5	0.07	4.55	0.09	0.06	0.98	8.06	1.61	3.46	0.80	0.45	0.25	0.00		
6	0.07	10.10	0.07	0.05	1.81	6.20	2.36	7.98	0.80	0.45	0.23	0.00		
7	0.06	16.20	0.09	0.05	5.07	4.60	4.29	13.68	0.75	0.45	0.21	0.00		
8	0.04	9.38	0.07	0.06	3.79	4.64	4.16	16.68	0.80	0.35	0.21	0.00		
9	0.03	1.52	0.07	0.45	2.69	3.12	3.79	11.81	0.75	0.45	0.21	0.00		
10	0.03	0.09	0.09	0.25	1.81	2.56	2.47	10.10	0.75	1.92	0.16	0.00		
11	0.03	0.06	0.06	0.14	1.61	1.48	1.70	7.98	0.75	4.42	0.14	0.01		
12	0.02	0.06	0.09	0.19	1.34	0.52	2.03	4.42	0.70	2.25	0.09	0.01		
13	0.02	0.06	0.07	0.35	0.98	0.34	2.69	5.07	0.75	1.61	0.09	0.01		
14	0.02	0.06	0.12	0.30	0.98	0.21	1.43	3.02	1.07	1.52	0.09	0.00		
15	0.01	0.09	0.14	0.28	0.75	1.81	1.52	2.80	0.65	1.43	0.07	0.00		
16	0.01	0.07	0.12	0.23	0.98	3.79	1.43	2.69	0.60	1.34	0.06	0.00		
17	0.01	0.06	0.12	1.34	0.98	4.68	1.43	2.36	0.50	1.07	0.05	0.00		
18	0.01	0.07	0.14	0.75	0.89	3.35	1.43	2.25	0.45	0.98	0.03	0.00		
19	0.01	0.14	0.14	0.89	0.75	2.91	1.34	2.03	0.40	0.89	0.03	0.00		
20	0.01	0.09	0.12	0.98	1.43	2.69	1.25	1.81	0.35	0.80	0.02	0.00		
21	0.01	0.05	0.12	0.80	5.80	2.36	1.34	1.81	0.35	0.89	0.02	0.00		
22	0.01	0.04	0.12	0.75	5.50	1.81	6.40	1.61	0.40	0.80	0.03	0.00		
23	0.00	0.03	0.12	1.16	3.68	1.61	24.50	1.61	0.55	0.75	0.03	0.00		
24	0.00	0.03	0.09	1.16	2.47	1.70	12.84	1.52	0.45	0.70	0.02	0.05		
25	0.00	0.03	0.09	0.98	1.81	2.80	10.10	1.52	0.45	0.70	0.01	4.94		
26	0.00	0.03	0.07	0.98	1.92	7.98	7.02	1.43	0.21	0.70	0.01	1.81		
27	0.00	0.03	0.07	1.52	2.03	8.48	5.20	0.98	0.21	0.60	0.01	1.61		
28	0.00	0.03	0.06	5.07	4.94	4.68	4.55	0.89	0.19	0.60	0.01	0.98		
29	0.00	0.01	0.06	2.91	11.43	3.79	3.68	0.80	0.21	0.50		0.89		
30	0.00	0.03	0.06	0.98	9.20	5.20	3.57	0.75	0.23	0.50		0.65		
31		0.05		0.89	20.28		3.90		0.23	0.45		0.45		
Total	0.75	47.16	5.67	23.81	99.28	120.51	128.13	125.42	17.68	29.72	3.56	11.44	613.13	CMSDAY
Mean	0.02	1.52	0.19	0.77	3.20	4.02	4.13	4.18	0.57	0.96	0.13	0.37	1.68	CMS
Max	0.12	16.20	1.25	5.07	20.28	10.18	24.50	16.68	1.07	4.42	0.40	4.94	24.50	CMS
Min	0.00	0.01	0.06	0.05	0.75	0.21	1.25	0.75	0.19	0.35	0.01	0.00	0.00	CMS
Runoff	0.07	4.08	0.49	2.06	8.58	10.41	11.07	10.84	1.53	2.57	0.31	0.99	52.97	MCM

Momentary Peak 11.00 CMS. at 208.02 m. (MSL.) at 06.00 Hours , on Sep 3 , 2014

Runoff Yield 4.53 Liters/Second/Square KM. Momentary Peak Yield 29.650 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

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

Lat 18 - 18 - 34 N Long 99 - 27 - 40 E

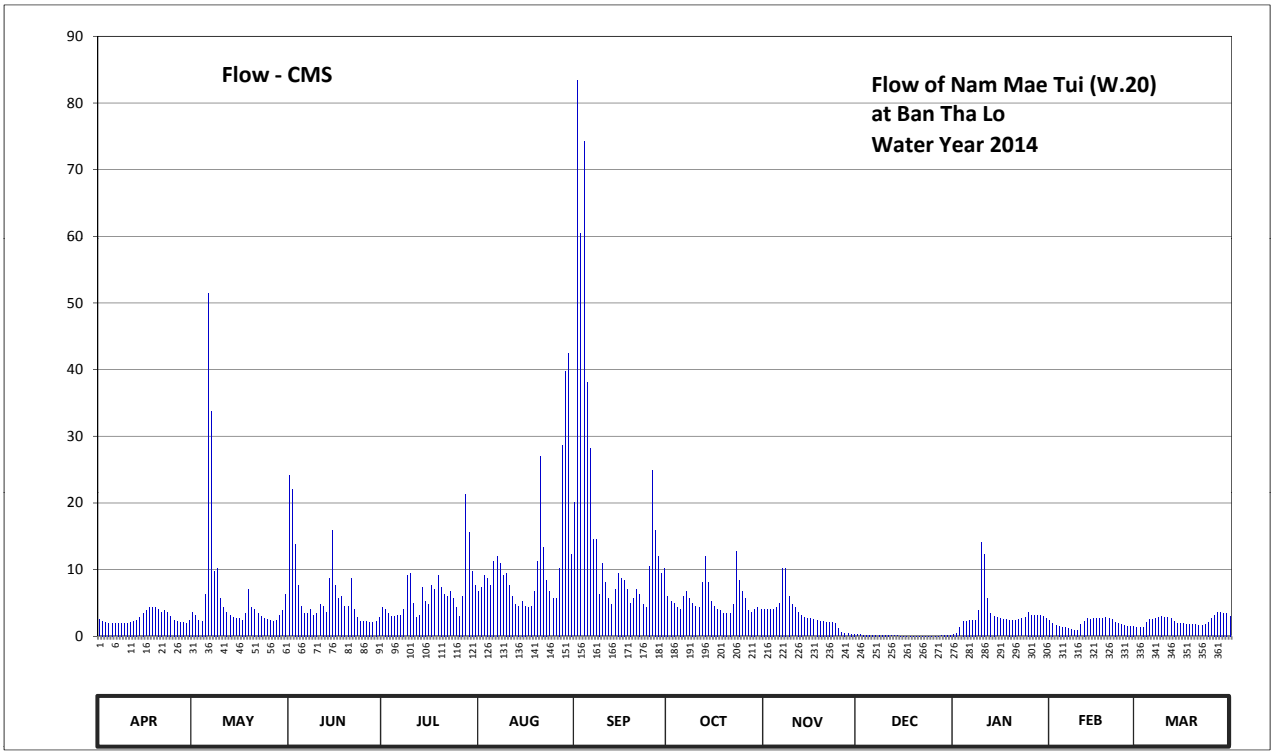
Location : on left bank at the bridge of Lampang - Hang Chat Highway.

	Ban Tha Lo	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	941 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+230.420 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.		**Elevation** +237.644 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Flot	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 48 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.68	230.74	231.32	230.77	230.85	231.22	230.83	230.76	230.17	230.20	230.67	230.58	
2	230.66	230.72	231.27	230.76	230.87	232.60	230.81	230.76	230.16	230.35	230.64	230.58	
3	230.65	230.67	231.05	230.73	230.92	232.14	230.80	230.76	230.15	230.58	230.61	230.59	
4	230.64	230.66	230.88	230.71	230.91	232.42	230.77	230.76	230.13	230.66	230.60	230.65	
5	230.64	230.84	230.78	230.71	230.88	231.65	230.76	230.77	230.12	230.66	230.59	230.68	
6	230.63	231.95	230.73	230.72	230.98	231.42	230.83	230.80	230.11	230.67	230.59	230.68	
7	230.64	231.55	230.73	230.72	231.00	231.07	230.85	230.95	230.11	230.67	230.57	230.69	
8	230.64	230.94	230.76	230.76	230.97	231.07	230.82	230.95	230.10	230.67	230.54	230.70	
9	230.63	230.95	230.72	230.92	230.92	230.84	230.80	230.83	230.10	230.75	230.52	230.71	
10	230.64	230.82	230.73	230.93	230.93	230.97	230.78	230.79	230.10	231.06	230.53	230.70	
11	230.65	230.77	230.79	230.80	230.88	230.89	230.77	230.77	230.08	231.01	230.62	230.70	
12	230.66	230.74	230.78	230.70	230.83	230.82	230.89	230.74	230.05	230.82	230.66	230.69	
13	230.67	230.72	230.74	230.72	230.79	230.79	231.00	230.72	230.05	230.73	230.69	230.66	
14	230.70	230.70	230.91	230.87	230.78	230.86	230.89	230.70	230.02	230.71	230.68	230.63	
15	230.73	230.69	231.11	230.81	230.81	230.93	230.81	230.69	229.95	230.70	230.69	230.63	
16	230.75	230.69	230.88	230.79	230.78	230.91	230.78	230.69	229.96	230.69	230.69	230.63	
17	230.77	230.67	230.82	230.88	230.77	230.90	230.76	230.68	229.96	230.68	230.69	230.62	
18	230.77	230.73	230.83	230.86	230.78	230.86	230.75	230.67	229.96	230.68	230.69	230.62	
19	230.77	230.86	230.78	230.92	230.85	230.80	230.73	230.66	229.96	230.67	230.70	230.62	
20	230.76	230.77	230.78	230.87	230.98	230.82	230.73	230.66	229.95	230.67	230.69	230.62	
21	230.74	230.76	230.91	230.84	231.39	230.86	230.73	230.65	229.95	230.67	230.68	230.61	
22	230.75	230.73	230.76	230.83	231.04	230.84	230.79	230.65	229.95	230.68	230.65	230.61	
23	230.74	230.71	230.70	230.85	230.90	230.79	231.02	230.65	229.95	230.69	230.63	230.62	
24	230.71	230.69	230.66	230.82	230.85	230.77	230.90	230.63	229.96	230.70	230.62	230.65	
25	230.67	230.68	230.66	230.77	230.82	230.96	230.85	230.56	229.96	230.74	230.61	230.69	
26	230.66	230.67	230.66	230.71	230.82	231.34	230.82	230.44	229.96	230.72	230.60	230.72	
27	230.65	230.66	230.65	230.83	230.95	231.11	230.75	230.36	229.95	230.72	230.60	230.74	
28	230.65	230.67	230.65	231.25	231.43	231.00	230.74	230.30	229.99	230.72	230.60	230.74	
29	230.63	230.72	230.66	231.10	231.69	230.93	230.76	230.26	230.09	230.72		230.73	
30	230.67	230.75	230.70	230.94	231.75	230.95	230.77	230.20	230.12	230.71		230.73	
31		230.84		230.88	231.01		230.76		230.15	230.69		230.71	
Mean	230.68	230.81	230.81	230.83	230.97	231.12	230.81	230.66	230.04	230.69	230.63	230.66	
Max	230.77	231.95	231.32	231.25	231.75	232.60	231.02	230.95	230.17	231.06	230.70	230.74	232.60
Min	230.63	230.66	230.65	230.70	230.77	230.77	230.73	230.20	229.95	230.20	230.52	230.58	229.95

Annual Max Momentary Gage Height	233.35	m. (MSL.) ,	at 12.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	230.42	m. (MSL.) ,	River Bed	229.29	m. (MSL.)
Left Bank Elevation	238.02	m. (MSL.) ,			
Right Bank Elevation	238.07	m. (MSL.) ,	Drainage Area	941	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.54	3.68	24.12	4.34	6.70	20.10	6.02	4.12	0.27	0.30	2.41	1.34		
2	2.28	3.24	22.10	4.12	7.38	83.30	5.34	4.12	0.26	0.45	2.02	1.34		
3	2.15	2.41	13.80	3.46	9.12	60.49	5.00	4.12	0.25	1.34	1.63	1.42		
4	2.02	2.28	7.72	3.02	8.76	74.21	4.34	4.12	0.23	2.28	1.50	2.15		
5	2.02	6.36	4.56	3.02	7.72	38.02	4.12	4.34	0.22	2.28	1.42	2.54		
6	1.89	51.45	3.46	3.24	11.28	28.24	6.02	5.00	0.21	2.41	1.42	2.54		
7	2.02	33.70	3.46	3.24	12.00	14.52	6.70	10.20	0.21	2.41	1.26	2.67		
8	2.02	9.84	4.12	4.12	10.92	14.52	5.68	10.20	0.20	2.41	1.02	2.80		
9	1.89	10.20	3.24	9.12	9.12	6.36	5.00	6.02	0.20	3.90	0.86	3.02		
10	2.02	5.68	3.46	9.48	9.48	10.92	4.56	4.78	0.20	14.16	0.94	2.80		
11	2.15	4.34	4.78	5.00	7.72	8.06	4.34	4.34	0.18	12.36	1.76	2.80		
12	2.28	3.68	4.56	2.80	6.02	5.68	8.06	3.68	0.15	5.68	2.28	2.67		
13	2.41	3.24	3.68	3.24	4.78	4.78	12.00	3.24	0.15	3.46	2.67	2.28		
14	2.80	2.80	8.76	7.38	4.56	7.04	8.06	2.80	0.12	3.02	2.54	1.89		
15	3.46	2.67	15.97	5.34	5.34	9.48	5.34	2.67	0.07	2.80	2.67	1.89		
16	3.90	2.67	7.72	4.78	4.56	8.76	4.56	2.67	0.08	2.67	2.67	1.89		
17	4.34	2.41	5.68	7.72	4.34	8.40	4.12	2.54	0.08	2.54	2.67	1.76		
18	4.34	3.46	6.02	7.04	4.56	7.04	3.90	2.41	0.08	2.54	2.67	1.76		
19	4.34	7.04	4.56	9.12	6.70	5.00	3.46	2.28	0.08	2.41	2.80	1.76		
20	4.12	4.34	4.56	7.38	11.28	5.68	3.46	2.28	0.07	2.41	2.67	1.76		
21	3.68	4.12	8.76	6.36	26.99	7.04	3.46	2.15	0.07	2.41	2.54	1.63		
22	3.90	3.46	4.12	6.02	13.44	6.36	4.78	2.15	0.07	2.54	2.15	1.63		
23	3.68	3.02	2.80	6.70	8.40	4.78	12.72	2.15	0.07	2.67	1.89	1.76		
24	3.02	2.67	2.28	5.68	6.70	4.34	8.40	1.89	0.08	2.80	1.76	2.15		
25	2.41	2.54	2.28	4.34	5.68	10.56	6.70	1.18	0.08	3.68	1.63	2.67		
26	2.28	2.41	2.28	3.02	5.68	24.94	5.68	0.58	0.08	3.24	1.50	3.24		
27	2.15	2.28	2.15	6.02	10.20	15.97	3.90	0.46	0.07	3.24	1.50	3.68		
28	2.15	2.41	2.15	21.30	28.66	12.00	3.68	0.40	0.10	3.24	1.50	3.68		
29	1.89	3.24	2.28	15.60	39.80	9.48	4.12	0.36	0.19	3.24		3.46		
30	2.41	3.90	2.80	9.84	42.47	10.20	4.34	0.30	0.22	3.02		3.46		
31		6.36		7.72	12.36		4.12		0.25	2.67		3.02		
Total	82.56	201.90	188.23	199.56	352.72	526.27	171.98	97.55	4.59	104.58	54.35	73.46	2057.75	CMSDAY
Mean	2.75	6.51	6.27	6.44	11.38	17.54	5.55	3.25	0.15	3.37	1.94	2.37	5.64	CMS
Max	4.34	51.45	24.12	21.30	42.47	83.30	12.72	10.20	0.27	14.16	2.80	3.68	83.30	CMS
Min	1.89	2.28	2.15	2.80	4.34	4.34	3.46	0.30	0.07	0.30	0.86	1.34	0.07	CMS
Runoff	7.13	17.44	16.26	17.24	30.48	45.47	14.86	8.43	0.40	9.04	4.70	6.35	177.79	MCM

Momentary Peak 122.58 CMS. at 233.35 m. (MSL.) at 12.00 Hours , on Sep 2 , 2014

Runoff Yield 5.99 Liters/Second/Square KM. Momentary Peak Yield 130.266 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Tha Dua , Lampang (W.21)

Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

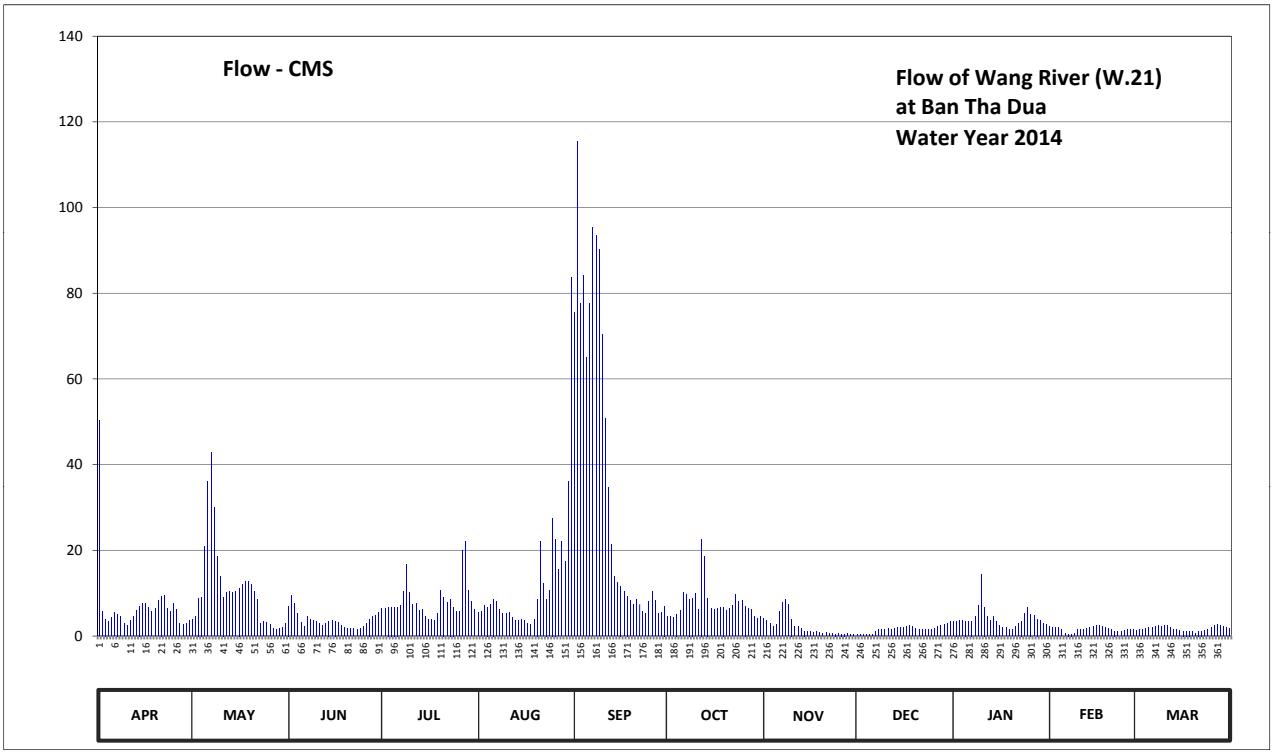
Location : on left bank at the bridge on highway.

	Ban Tha Dua	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	3,367 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+232.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5 meters from the top staff gage.		**Elevation** +236.495 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 49 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	233.25	231.77	231.95	231.92	231.87	233.79	231.81	231.79	231.40	231.74	231.66	231.57	
2	231.89	231.81	232.07	231.92	231.89	234.49	231.81	231.76	231.40	231.75	231.64	231.58	
3	231.78	232.04	231.98	231.94	231.96	233.83	231.80	231.71	231.40	231.76	231.63	231.59	
4	231.74	232.05	231.86	231.94	231.94	233.95	231.85	231.66	231.40	231.76	231.63	231.61	
5	231.80	232.48	231.73	231.94	231.97	233.58	231.90	231.69	231.41	231.75	231.59	231.64	
6	231.87	232.90	231.66	231.94	232.03	233.83	232.10	231.88	231.40	231.74	231.47	231.64	
7	231.85	233.07	231.81	231.96	232.00	234.15	232.08	231.99	231.52	231.75	231.42	231.65	
8	231.81	232.74	231.77	232.11	231.91	234.12	232.03	232.02	231.60	231.82	231.42	231.67	
9	231.71	232.41	231.76	232.34	231.86	234.06	232.04	231.97	231.60	231.96	231.43	231.66	
10	231.68	232.24	231.75	232.10	231.86	233.69	232.09	231.78	231.60	232.26	231.60	231.68	
11	231.76	232.05	231.71	231.97	231.87	233.26	231.91	231.66	231.61	231.94	231.60	231.68	
12	231.81	232.10	231.67	231.98	231.80	232.86	232.53	231.65	231.60	231.82	231.59	231.63	
13	231.90	232.11	231.71	231.90	231.76	232.49	232.41	231.61	231.62	231.76	231.62	231.59	
14	231.95	232.10	231.75	231.91	231.76	232.24	232.04	231.55	231.63	231.82	231.64	231.58	
15	231.98	232.11	231.76	231.82	231.77	232.19	231.92	231.54	231.64	231.75	231.66	231.56	
16	231.98	232.14	231.75	231.77	231.76	232.16	231.91	231.53	231.63	231.67	231.67	231.55	
17	231.93	232.17	231.73	231.77	231.72	232.11	231.92	231.48	231.65	231.64	231.67	231.55	
18	231.89	232.20	231.67	231.76	231.70	232.06	231.93	231.54	231.67	231.64	231.66	231.55	
19	231.92	232.20	231.63	231.86	231.77	232.01	231.94	231.51	231.65	231.60	231.64	231.54	
20	232.01	232.17	231.62	232.12	232.03	231.97	231.90	231.46	231.62	231.60	231.62	231.43	
21	232.06	232.11	231.61	232.05	232.51	232.02	231.92	231.48	231.60	231.65	231.60	231.55	
22	232.07	232.02	231.62	231.99	232.18	231.97	231.96	231.47	231.60	231.72	231.55	231.55	
23	231.92	231.72	231.60	232.03	232.03	231.89	232.08	231.44	231.60	231.75	231.53	231.57	
24	231.88	231.74	231.62	231.94	232.12	231.86	232.00	231.42	231.60	231.86	231.53	231.60	
25	231.98	231.73	231.65	231.89	232.67	232.00	232.01	231.43	231.60	231.93	231.57	231.64	
26	231.91	231.70	231.71	231.89	232.53	232.11	231.95	231.42	231.62	231.85	231.58	231.68	
27	231.71	231.62	231.78	232.45	232.30	232.01	231.92	231.42	231.65	231.83	231.59	231.69	
28	231.69	231.60	231.81	232.51	232.51	231.86	231.91	231.43	231.67	231.78	231.59	231.68	
29	231.71	231.62	231.83	232.12	232.37	231.87	231.82	231.40	231.69	231.76		231.66	
30	231.76	231.63	231.87	232.00	232.90	231.95	231.79	231.41	231.71	231.72		231.64	
31		231.71		231.91	233.94		231.81		231.74	231.69		231.62	
Mean	231.91	232.07	231.75	231.99	232.11	232.75	231.97	231.60	231.58	231.78	231.59	231.61	
Max	233.25	233.07	232.07	232.51	233.94	234.49	232.53	232.02	231.74	232.26	231.67	231.69	234.49
Min	231.68	231.60	231.60	231.76	231.70	231.86	231.79	231.40	231.40	231.60	231.42	231.43	231.40

Annual Max Momentary Gage Height	235.14	m. (MSL.) ,	at 16.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	232.00	m. (MSL.) ,	River Bed	231.02	m. (MSL.)
Left Bank Elevation	239.84	m. (MSL.) ,			
Right Bank Elevation	240.72	m. (MSL.) ,	Drainage Area	3367	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	50.25	3.82	7.00	6.40	5.49	75.50	4.47	4.14	0.40	3.34	2.26	1.36		
2	5.83	4.47	9.54	6.40	5.83	115.40	4.47	3.66	0.40	3.50	2.04	1.44		
3	3.98	8.88	7.60	6.80	7.20	77.65	4.30	2.86	0.40	3.66	1.93	1.52		
4	3.34	9.10	5.32	6.80	6.80	84.25	5.15	2.26	0.40	3.66	1.93	1.71		
5	4.30	20.98	3.18	6.80	7.40	65.10	6.00	2.59	0.44	3.50	1.52	2.04		
6	5.49	36.15	2.26	6.80	8.66	77.65	10.20	5.66	0.40	3.34	0.68	2.04		
7	5.15	42.80	4.47	7.20	8.00	95.25	9.76	7.80	0.96	3.50	0.48	2.15		
8	4.47	30.11	3.82	10.45	6.20	93.60	8.66	8.44	1.60	4.64	0.48	2.37		
9	2.86	18.64	3.66	16.62	5.32	90.30	8.88	7.40	1.60	7.20	0.52	2.26		
10	2.48	13.82	3.50	10.20	5.32	70.50	9.98	3.98	1.60	14.38	1.60	2.48		
11	3.66	9.10	2.86	7.40	5.49	50.70	6.20	2.26	1.71	6.80	1.60	2.48		
12	4.47	10.20	2.37	7.60	4.30	34.61	22.65	2.15	1.60	4.64	1.52	1.93		
13	6.00	10.45	2.86	6.00	3.66	21.32	18.64	1.71	1.82	3.66	1.82	1.52		
14	7.00	10.20	3.50	6.20	3.66	13.82	8.88	1.20	1.93	4.64	2.04	1.44		
15	7.60	10.45	3.66	4.64	3.82	12.45	6.40	1.12	2.04	3.50	2.26	1.28		
16	7.60	11.20	3.50	3.82	3.66	11.70	6.20	1.04	1.93	2.37	2.37	1.20		
17	6.60	11.95	3.18	3.82	3.02	10.45	6.40	0.72	2.15	2.04	2.37	1.20		
18	5.83	12.70	2.37	3.66	2.70	9.32	6.60	1.12	2.37	2.04	2.26	1.20		
19	6.40	12.70	1.93	5.32	3.82	8.22	6.80	0.88	2.15	1.60	2.04	1.12		
20	8.22	11.95	1.82	10.70	8.66	7.40	6.00	0.64	1.82	1.60	1.82	0.52		
21	9.32	10.45	1.71	9.10	21.98	8.44	6.40	0.72	1.60	2.15	1.60	1.20		
22	9.54	8.44	1.82	7.80	12.20	7.40	7.20	0.68	1.60	3.02	1.20	1.20		
23	6.40	3.02	1.60	8.66	8.66	5.83	9.76	0.56	1.60	3.50	1.04	1.36		
24	5.66	3.34	1.82	6.80	10.70	5.32	8.00	0.48	1.60	5.32	1.04	1.60		
25	7.60	3.18	2.15	5.83	27.55	8.00	8.22	0.52	1.60	6.60	1.36	2.04		
26	6.20	2.70	2.86	5.83	22.65	10.45	7.00	0.48	1.82	5.15	1.44	2.48		
27	2.86	1.82	3.98	19.97	15.50	8.22	6.40	0.48	2.15	4.81	1.52	2.59		
28	2.59	1.60	4.47	21.98	21.98	5.32	6.20	0.52	2.37	3.98	1.52	2.48		
29	2.86	1.82	4.81	10.70	17.46	5.49	4.64	0.40	2.59	3.66		2.26		
30	3.66	1.93	5.49	8.00	36.15	7.00	4.14	0.44	2.86	3.02		2.04		
31		2.86		6.20	83.70		4.47		3.34	2.59		1.82		
Total	208.22	340.83	109.11	254.50	387.54	1096.66	239.07	66.91	50.85	127.41	44.26	54.33	2979.69	CMSDAY
Mean	6.94	10.99	3.64	8.21	12.50	36.56	7.71	2.23	1.64	4.11	1.58	1.75	8.16	CMS
Max	50.25	42.80	9.54	21.98	83.70	115.40	22.65	8.44	3.34	14.38	2.37	2.59	115.40	CMS
Min	2.48	1.60	1.60	3.66	2.70	5.32	4.14	0.40	0.40	1.60	0.48	0.52	0.40	CMS
Runoff	17.99	29.45	9.43	21.99	33.48	94.75	20.66	5.78	4.39	11.01	3.82	4.69	257.45	MCM

Momentary Peak 157.80 CMS. at 235.14 m. (MSL.) at 16.00 Hours , on Sep 2 , 2014

Runoff Yield 2.42 Liters/Second/Square KM. Momentary Peak Yield 46.867 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

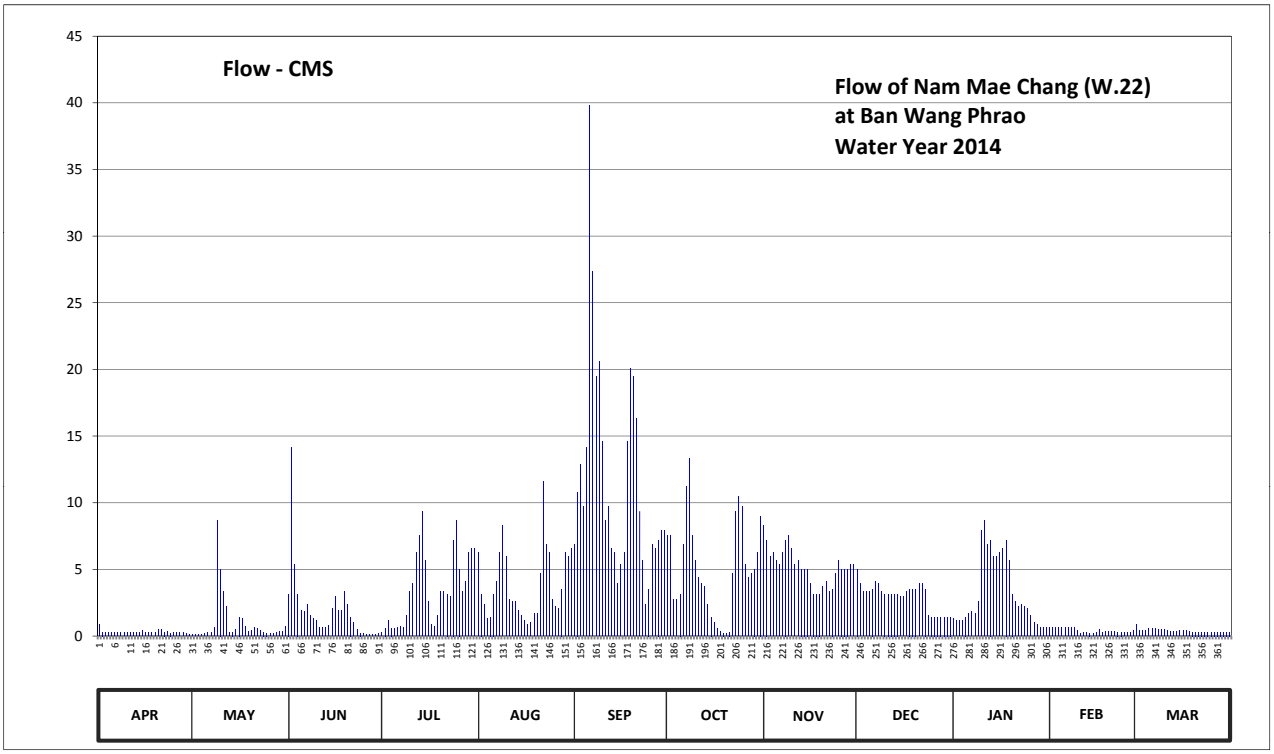
Location : on right bank at the bridge.

	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** +221.137 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 Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 43 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	214.99	214.81	215.15	214.89	215.27	215.29	215.31	215.33	215.23	215.03	214.96	214.99	
2	214.90	214.81	215.48	214.95	215.15	215.40	215.31	215.30	215.19	215.02	214.96	214.92	
3	214.89	214.81	215.24	215.02	215.11	215.45	215.13	215.26	215.16	215.02	214.96	214.92	
4	214.89	214.81	215.15	214.95	215.03	215.37	215.13	215.27	215.16	215.02	214.96	214.92	
5	214.89	214.83	215.08	214.94	215.04	215.48	215.15	215.25	215.16	215.04	214.96	214.94	
6	214.89	214.89	215.07	214.96	215.15	215.94	215.29	215.24	215.17	215.06	214.96	214.94	
7	214.88	214.89	215.11	214.97	215.20	215.74	215.41	215.27	215.20	215.07	214.96	214.94	
8	214.88	214.96	215.05	214.96	215.27	215.60	215.46	215.30	215.19	215.06	214.96	214.93	
9	214.88	215.34	215.03	215.05	215.33	215.62	215.31	215.31	215.16	215.12	214.96	214.93	
10	214.88	215.23	215.02	215.16	215.26	215.49	215.25	215.28	215.15	215.32	214.92	214.93	
11	214.88	215.16	214.96	215.19	215.13	215.34	215.21	215.24	215.15	215.34	214.85	214.92	
12	214.88	215.10	214.96	215.27	215.12	215.37	215.19	215.25	215.15	215.29	214.87	214.91	
13	214.88	214.87	214.96	215.31	215.12	215.28	215.18	215.23	215.15	215.30	214.88	214.91	
14	214.89	214.90	214.98	215.36	215.08	215.27	215.11	215.23	215.15	215.26	214.86	214.91	
15	214.92	214.93	215.09	215.25	215.05	215.19	215.04	215.23	215.14	215.26	214.83	214.92	
16	214.89	215.04	215.14	215.12	215.02	215.24	215.01	215.19	215.14	215.27	214.89	214.92	
17	214.89	215.03	215.08	214.99	214.99	215.27	214.94	215.15	215.16	215.28	214.93	214.92	
18	214.88	214.97	215.08	214.97	215.01	215.49	214.91	215.15	215.17	215.30	214.88	214.91	
19	214.89	214.91	215.16	215.05	215.06	215.61	214.86	215.15	215.17	215.25	214.91	214.90	
20	214.93	214.92	215.11	215.16	215.06	215.60	214.84	215.18	215.17	215.15	214.91	214.90	
21	214.93	214.96	215.04	215.16	215.22	215.53	214.90	215.20	215.19	215.12	214.91	214.90	
22	214.90	214.94	215.01	215.15	215.42	215.36	215.22	215.16	215.19	215.10	214.91	214.90	
23	214.91	214.92	214.93	215.14	215.29	215.25	215.36	215.17	215.17	215.11	214.90	214.90	
24	214.86	214.90	214.86	215.30	215.27	215.11	215.39	215.22	215.05	215.10	214.90	214.90	
25	214.87	214.86	214.85	215.34	215.13	215.17	215.37	215.25	215.04	215.09	214.89	214.90	
26	214.89	214.85	214.81	215.23	215.10	215.29	215.24	215.23	215.04	215.05	214.88	214.90	
27	214.88	214.85	214.80	215.16	215.09	215.28	215.21	215.23	215.04	215.01	214.88	214.90	
28	214.87	214.87	214.80	215.20	215.17	215.30	215.22	215.23	215.04	214.99	214.92	214.90	
29	214.85	214.91	214.81	215.27	215.27	215.32	215.23	215.24	215.04	214.96		214.90	
30	214.82	214.91	214.83	215.28	215.26	215.32	215.27	215.24	215.04	214.96		214.90	
31		214.97		215.28	215.28		215.35		215.04	214.96		214.90	
Mean	214.89	214.94	215.02	215.13	215.16	215.40	215.19	215.23	215.14	215.13	214.91	214.92	
Max	214.99	215.34	215.48	215.36	215.42	215.94	215.46	215.33	215.23	215.34	214.96	214.99	215.94
Min	214.82	214.81	214.80	214.89	214.99	215.11	214.84	215.15	215.04	214.96	214.83	214.90	214.80

Annual Max Momentary Gage Height	216.01	m. (MSL.) ,	at 08.00 Hours , on Sep 6 , 2014		
Zero Gage at Bottom Elevation	215.16	m. (MSL.) ,	River Bed	213.68	m. (MSL.)
Left Bank Elevation	221.11	m. (MSL.) ,			
Right Bank Elevation	221.22	m. (MSL.) ,	Drainage Area	1549	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.84	0.12	3.15	0.28	6.27	6.89	7.56	8.28	5.03	1.29	0.66	0.84		
2	0.30	0.12	14.16	0.60	3.15	10.80	7.56	7.20	3.91	1.16	0.66	0.42		
3	0.28	0.12	5.34	1.16	2.39	12.90	2.77	5.96	3.34	1.16	0.66	0.42		
4	0.28	0.12	3.15	0.60	1.29	9.72	2.77	6.27	3.34	1.16	0.66	0.42		
5	0.28	0.16	1.94	0.54	1.42	14.16	3.15	5.65	3.34	1.42	0.66	0.54		
6	0.28	0.28	1.81	0.66	3.15	39.80	6.89	5.34	3.53	1.68	0.66	0.54		
7	0.26	0.28	2.39	0.72	4.10	27.40	11.22	6.27	4.10	1.81	0.66	0.54		
8	0.26	0.66	1.55	0.66	6.27	19.50	13.32	7.20	3.91	1.68	0.66	0.48		
9	0.26	8.64	1.29	1.55	8.28	20.60	7.56	7.56	3.34	2.58	0.66	0.48		
10	0.26	5.03	1.16	3.34	5.96	14.58	5.65	6.58	3.15	7.92	0.42	0.48		
11	0.26	3.34	0.66	3.91	2.77	8.64	4.41	5.34	3.15	8.64	0.20	0.42		
12	0.26	2.20	0.66	6.27	2.58	9.72	3.91	5.65	3.15	6.89	0.24	0.36		
13	0.26	0.24	0.66	7.56	2.58	6.58	3.72	5.03	3.15	7.20	0.26	0.36		
14	0.28	0.30	0.78	9.36	1.94	6.27	2.39	5.03	3.15	5.96	0.22	0.36		
15	0.42	0.48	2.07	5.65	1.55	3.91	1.42	5.03	2.96	5.96	0.16	0.42		
16	0.28	1.42	2.96	2.58	1.16	5.34	1.03	3.91	2.96	6.27	0.28	0.42		
17	0.28	1.29	1.94	0.84	0.84	6.27	0.54	3.15	3.34	6.58	0.48	0.42		
18	0.26	0.72	1.94	0.72	1.03	14.58	0.36	3.15	3.53	7.20	0.26	0.36		
19	0.28	0.36	3.34	1.55	1.68	20.05	0.22	3.15	3.53	5.65	0.36	0.30		
20	0.48	0.42	2.39	3.34	1.68	19.50	0.18	3.72	3.53	3.15	0.36	0.30		
21	0.48	0.66	1.42	3.34	4.72	16.35	0.30	4.10	3.91	2.58	0.36	0.30		
22	0.30	0.54	1.03	3.15	11.64	9.36	4.72	3.34	3.91	2.20	0.36	0.30		
23	0.36	0.42	0.48	2.96	6.89	5.65	9.36	3.53	3.53	2.39	0.30	0.30		
24	0.22	0.30	0.22	7.20	6.27	2.39	10.44	4.72	1.55	2.20	0.30	0.30		
25	0.24	0.22	0.20	8.64	2.77	3.53	9.72	5.65	1.42	2.07	0.28	0.30		
26	0.28	0.20	0.12	5.03	2.20	6.89	5.34	5.03	1.42	1.55	0.26	0.30		
27	0.26	0.20	0.10	3.34	2.07	6.58	4.41	5.03	1.42	1.03	0.26	0.30		
28	0.24	0.24	0.10	4.10	3.53	7.20	4.72	5.03	1.42	0.84	0.42	0.30		
29	0.20	0.36	0.12	6.27	6.27	7.92	5.03	5.34	1.42	0.66		0.30		
30	0.14	0.36	0.16	6.58	5.96	7.92	6.27	5.34	1.42	0.66		0.30		
31		0.72		6.58	6.58		9.00		1.42	0.66		0.30		
Total	9.08	30.52	57.29	109.08	118.99	351.00	155.94	156.58	92.28	102.20	11.72	12.18	1206.86	CMSDAY
Mean	0.30	0.98	1.91	3.52	3.84	11.70	5.03	5.22	2.98	3.30	0.42	0.39	3.31	CMS
Max	0.84	8.64	14.16	9.36	11.64	39.80	13.32	8.28	5.03	8.64	0.66	0.84	39.80	CMS
Min	0.14	0.12	0.10	0.28	0.84	2.39	0.18	3.15	1.42	0.66	0.16	0.30	0.10	CMS
Runoff	0.79	2.64	4.95	9.43	10.28	30.33	13.47	13.53	7.97	8.83	1.01	1.05	104.27	MCM

Momentary Peak 44.80 CMS. at 216.01 m. (MSL.) at 08.00 Hours , on Sep 6 , 2014

Runoff Yield 2.13 Liters/Second/Square KM. Momentary Peak Yield 28.922 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

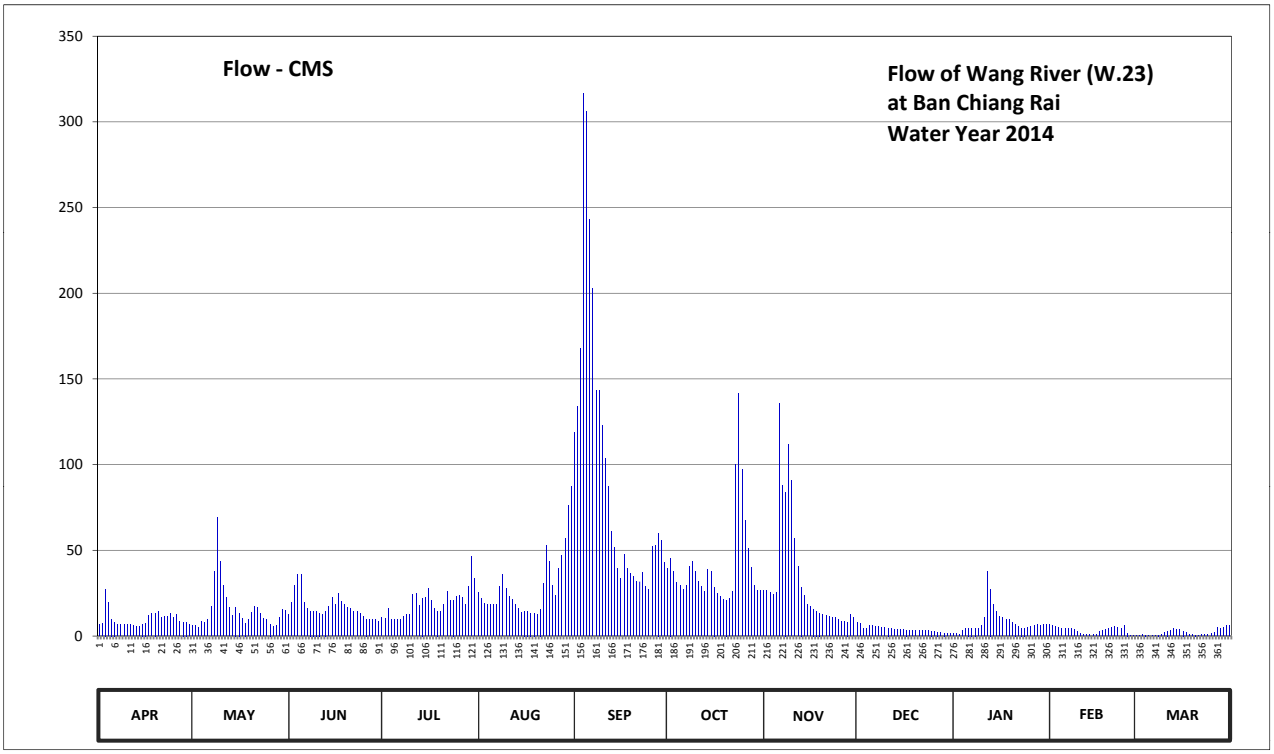
Location : on left bank at Amphoe Sam Ngao.

	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** +148.844 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good.Stage-discharge relation defined by 30 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.18	142.14	142.39	142.33	142.71	144.17	142.99	142.74	142.23	141.82	142.18	141.69	
2	142.21	142.15	142.57	142.31	142.62	144.37	143.10	142.74	142.21	141.82	142.13	141.69	
3	142.76	142.06	142.81	142.48	142.55	144.79	142.96	142.71	142.02	141.79	142.11	141.74	
4	142.56	142.25	142.93	142.29	142.53	146.34	142.84	142.68	142.01	141.94	142.07	141.73	
5	142.30	142.23	142.93	142.29	142.54	146.24	142.81	142.71	142.13	142.01	142.01	141.68	
6	142.24	142.29	142.57	142.29	142.53	145.61	142.75	144.40	142.14	142.04	142.01	141.67	
7	142.19	142.51	142.48	142.29	142.54	145.19	142.81	143.76	142.11	142.04	142.03	141.67	
8	142.19	142.96	142.44	142.35	142.80	144.49	143.01	143.70	142.09	142.04	142.01	141.72	
9	142.19	143.48	142.44	142.39	142.93	144.49	143.06	144.08	142.08	142.03	141.98	141.80	
10	142.18	143.06	142.44	142.38	142.77	144.23	142.96	143.80	142.07	142.14	141.90	141.87	
11	142.17	142.81	142.41	142.68	142.65	143.97	142.85	143.29	142.04	142.33	141.84	141.93	
12	142.14	142.64	142.39	142.69	142.61	143.75	142.80	143.01	142.03	142.96	141.80	141.95	
13	142.09	142.49	142.44	142.52	142.54	143.35	142.73	142.79	141.99	142.76	141.79	142.01	
14	142.09	142.37	142.51	142.63	142.48	143.21	142.98	142.67	141.99	142.54	141.79	142.00	
15	142.20	142.50	142.64	142.64	142.42	142.99	142.96	142.54	141.99	142.43	141.79	141.98	
16	142.22	142.41	142.54	142.77	142.44	142.88	142.79	142.51	141.99	142.34	141.77	141.93	
17	142.37	142.31	142.69	142.59	142.44	143.14	142.69	142.47	141.97	142.33	141.90	141.86	
18	142.40	142.22	142.58	142.48	142.41	142.99	142.65	142.44	141.95	142.29	141.95	141.77	
19	142.41	142.28	142.53	142.44	142.41	142.94	142.61	142.41	141.94	142.28	142.00	141.77	
20	142.43	142.42	142.49	142.43	142.39	142.90	142.60	142.39	141.94	142.23	142.03	141.72	
21	142.33	142.51	142.48	142.53	142.47	142.85	142.62	142.36	141.94	142.20	142.05	141.71	
22	142.35	142.49	142.43	142.72	142.83	142.85	142.73	142.35	141.94	142.10	142.09	141.78	
23	142.35	142.40	142.43	142.59	143.23	142.95	143.92	142.33	141.94	142.04	142.06	141.74	
24	142.40	142.31	142.40	142.60	143.06	142.80	144.47	142.32	141.94	142.04	142.02	141.74	
25	142.33	142.28	142.34	142.65	142.81	142.75	143.88	142.28	141.93	142.05	142.15	141.83	
26	142.39	142.20	142.30	142.67	142.67	143.22	143.45	142.25	141.91	142.09	141.85	141.86	
27	142.25	142.12	142.29	142.64	142.99	143.23	143.20	142.25	141.89	142.14	141.69	142.05	
28	142.24	142.14	142.29	142.54	143.13	143.34	143.00	142.24	141.87	142.17	141.69	142.03	
29	142.24	142.32	142.28	142.80	143.29	143.27	142.81	142.38	141.85	142.14		142.07	
30	142.18	142.46	142.25	143.12	143.59	143.05	142.74	142.32	141.84	142.19		142.14	
31		142.45		142.88	143.75		142.74		141.83	142.18		142.14	
Mean	142.29	142.43	142.49	142.55	142.75	143.74	142.98	142.76	141.99	142.18	141.95	141.85	
Max	142.76	143.48	142.93	143.12	143.75	146.34	144.47	144.40	142.23	142.96	142.18	142.14	146.34
Min	142.09	142.06	142.25	142.29	142.39	142.75	142.60	142.24	141.83	141.79	141.69	141.67	141.67

Annual Max Momentary Gage Height	146.46	m. (MSL.) ,	at 12.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	141.29	m. (MSL.) ,	River Bed	140.20	m. (MSL.)
Left Bank Elevation	148.95	m. (MSL.) ,			
Right Bank Elevation	149.26	m. (MSL.) ,	Drainage Area	9930	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.70	6.10	12.70	10.90	25.40	118.75	39.45	26.60	7.90	1.30	6.70	0.45		
2	7.30	6.25	19.80	10.30	21.80	133.75	45.50	26.60	7.30	1.30	5.95	0.45		
3	27.40	4.90	29.55	16.20	19.00	168.15	37.80	25.40	4.30	0.95	5.65	0.70		
4	19.40	8.50	36.15	9.70	18.20	316.70	31.20	24.20	4.15	3.10	5.05	0.65		
5	10.00	7.90	36.15	9.70	18.60	306.20	29.55	25.40	5.95	4.15	4.15	0.40		
6	8.20	9.70	19.80	9.70	18.20	242.95	27.00	136.00	6.10	4.60	4.15	0.35		
7	6.85	17.40	16.20	9.70	18.60	203.10	29.55	88.20	5.65	4.60	4.45	0.35		
8	6.85	37.80	14.60	11.50	29.00	143.20	40.55	84.00	5.35	4.60	4.15	0.60		
9	6.85	69.20	14.60	12.70	36.15	143.20	43.30	112.00	5.20	4.45	3.70	1.00		
10	6.70	43.30	14.60	12.40	27.80	123.25	37.80	91.00	5.05	6.10	2.50	2.05		
11	6.55	29.55	13.40	24.20	23.00	103.75	31.75	56.85	4.60	10.90	1.60	2.95		
12	6.10	22.60	12.70	24.60	21.40	87.50	29.00	40.55	4.45	37.80	1.00	3.25		
13	5.35	16.60	14.60	17.80	18.60	60.75	26.20	28.60	3.85	27.40	0.95	4.15		
14	5.35	12.10	17.40	22.20	16.20	51.65	38.90	23.80	3.85	18.60	0.95	4.00		
15	7.00	17.00	22.60	22.60	13.80	39.45	37.80	18.60	3.85	14.20	0.95	3.70		
16	7.60	13.40	18.60	27.80	14.60	33.40	28.60	17.40	3.85	11.20	0.85	2.95		
17	12.10	10.30	24.60	20.60	14.60	47.70	24.60	15.80	3.55	10.90	2.50	1.90		
18	13.00	7.60	20.20	16.20	13.40	39.45	23.00	14.60	3.25	9.70	3.25	0.85		
19	13.40	9.40	18.20	14.60	13.40	36.70	21.40	13.40	3.10	9.40	4.00	0.85		
20	14.20	13.80	16.60	14.20	12.70	34.50	21.00	12.70	3.10	7.90	4.45	0.60		
21	10.90	17.40	16.20	18.20	15.80	31.75	21.80	11.80	3.10	7.00	4.75	0.55		
22	11.50	16.60	14.20	25.80	30.65	31.75	26.20	11.50	3.10	5.50	5.35	0.90		
23	11.50	13.00	14.20	20.60	52.95	37.25	100.00	10.90	3.10	4.60	4.90	0.70		
24	13.00	10.30	13.00	21.00	43.30	29.00	141.60	10.60	3.10	4.60	4.30	0.70		
25	10.90	9.40	11.20	23.00	29.55	27.00	97.00	9.40	2.95	4.75	6.25	1.45		
26	12.70	7.00	10.00	23.80	23.80	52.30	67.25	8.50	2.65	5.35	1.75	1.90		
27	8.50	5.80	9.70	22.60	39.45	52.95	51.00	8.50	2.35	6.10	0.45	4.75		
28	8.20	6.10	9.70	18.60	47.15	60.10	40.00	8.20	2.05	6.55	0.45	4.45		
29	8.20	10.60	9.40	29.00	56.85	55.55	29.55	12.40	1.75	6.10		5.05		
30	6.70	15.40	8.50	46.60	76.35	42.75	26.60	10.60	1.60	6.85		6.10		
31		15.00		33.40	87.50		26.60		1.45	6.70		6.10		
Total	299.00	490.00	509.15	600.20	897.80	2854.50	1271.55	984.10	121.60	257.25	95.15	64.85	8445.15	CMSDAY
Mean	9.97	15.81	16.97	19.36	28.96	95.15	41.02	32.80	3.92	8.30	3.40	2.09	23.14	CMS
Max	27.40	69.20	36.15	46.60	87.50	316.70	141.60	136.00	7.90	37.80	6.70	6.10	316.70	CMS
Min	5.35	4.90	8.50	9.70	12.70	27.00	21.00	8.20	1.45	0.95	0.45	0.35	0.35	CMS
Runoff	25.83	42.34	43.99	51.86	77.57	246.63	109.86	85.03	10.51	22.23	8.22	5.60	729.66	MCM

Momentary Peak 329.30 CMS. at 146.46 m. (MSL.) at 12.00 Hours , on Sep 4 , 2014

Runoff Yield 2.33 Liters/Second/Square KM. Momentary Peak Yield 33.162 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Tha Phai , Tak (W.24)

Lat 17 - 19 - 11 N Long 99 - 04 - 51 E

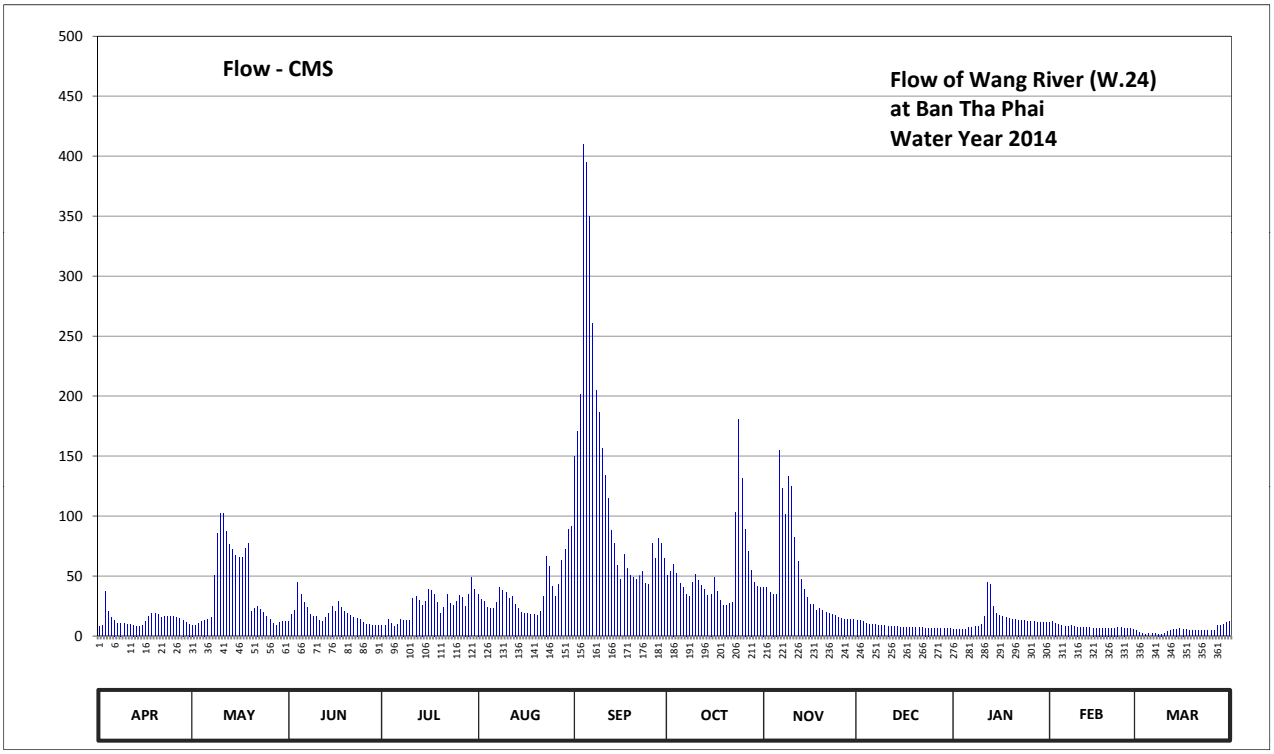
Location : on left bank at Ban Tha Phai

	Ban Tha Phai	**Amphoe** Sam Ngao	**Changwat** Tak
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+135.430 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+146.049 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.		
Period of Available Gage Records	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.09	137.16	137.28	137.16	137.89	139.73	138.22	138.02	137.31	136.98	137.24	136.92	
2	137.13	137.15	137.45	137.16	137.78	139.98	138.29	138.01	137.29	136.97	137.28	136.85	
3	137.93	137.21	137.56	137.33	137.74	140.35	138.40	137.92	137.26	136.96	137.23	136.78	
4	137.53	137.27	138.10	137.23	137.61	142.37	138.26	137.89	137.22	136.96	137.18	136.76	
5	137.38	137.31	137.88	137.10	137.60	142.24	138.09	137.89	137.19	136.96	137.15	136.81	
6	137.31	137.32	137.73	137.18	137.60	141.83	138.01	139.80	137.18	137.06	137.11	136.79	
7	137.22	137.39	137.61	137.32	137.72	140.99	137.89	139.37	137.17	137.08	137.12	136.78	
8	137.23	138.22	137.45	137.31	138.01	140.39	137.84	139.06	137.16	137.09	137.14	136.77	
9	137.22	138.82	137.40	137.29	137.96	140.17	138.10	139.51	137.15	137.11	137.11	136.77	
10	137.19	139.07	137.40	137.29	137.91	139.82	138.24	139.39	137.13	137.19	137.08	136.79	
11	137.17	139.07	137.30	137.81	137.80	139.52	138.14	138.77	137.12	137.40	137.06	136.89	
12	137.16	138.85	137.28	137.85	137.84	139.25	138.04	138.43	137.11	138.11	137.06	136.93	
13	137.12	138.67	137.38	137.76	137.69	138.86	137.97	138.16	137.10	138.07	137.05	136.96	
14	137.10	138.60	137.48	137.67	137.59	138.68	137.87	137.98	137.09	137.65	137.04	136.99	
15	137.13	138.52	137.65	137.74	137.50	138.38	137.89	137.83	137.08	137.48	137.03	137.00	
16	137.27	138.49	137.52	137.97	137.48	138.16	138.19	137.69	137.07	137.43	137.03	136.99	
17	137.41	138.49	137.74	137.96	137.47	138.53	137.94	137.68	137.06	137.41	137.03	136.96	
18	137.47	138.62	137.63	137.89	137.46	138.33	137.77	137.56	137.06	137.38	137.03	136.94	
19	137.47	138.68	137.53	137.73	137.45	138.23	137.66	137.60	137.05	137.36	137.03	136.94	
20	137.45	137.52	137.48	137.47	137.44	138.20	137.67	137.55	137.05	137.33	137.03	136.94	
21	137.39	137.60	137.43	137.62	137.52	138.16	137.71	137.51	137.04	137.32	137.03	136.94	
22	137.40	137.65	137.38	137.88	137.84	138.23	137.72	137.47	137.04	137.31	137.03	136.94	
23	137.41	137.58	137.37	137.71	138.51	138.28	139.09	137.45	137.03	137.30	137.08	136.94	
24	137.41	137.51	137.33	137.67	138.36	138.08	140.10	137.44	137.03	137.29	137.05	136.94	
25	137.40	137.41	137.25	137.75	138.03	138.07	139.49	137.39	137.02	137.28	137.03	136.93	
26	137.39	137.33	137.17	137.86	137.84	138.68	138.88	137.35	137.02	137.27	137.02	136.93	
27	137.36	137.23	137.17	137.82	138.06	138.48	138.57	137.34	137.01	137.26	137.00	137.13	
28	137.31	137.13	137.16	137.65	138.45	138.76	138.31	137.33	137.01	137.25	136.98	137.13	
29	137.25	137.24	137.14	137.89	138.60	138.68	138.11	137.33	137.00	137.25		137.17	
30	137.20	137.28	137.13	138.19	138.87	138.48	138.03	137.33	137.00	137.24		137.25	
31		137.28		137.97	138.91		138.01		137.00	137.24		137.27	
Mean	137.32	137.86	137.45	137.62	137.89	139.26	138.21	138.00	137.10	137.29	137.08	136.94	
Max	137.93	139.07	138.10	138.19	138.91	142.37	140.10	139.80	137.31	138.11	137.28	137.27	142.37
Min	137.09	137.13	137.13	137.10	137.44	138.07	137.66	137.33	137.00	136.96	136.98	136.76	136.76

Annual Max Momentary Gage Height	142.49	m. (MSL.) ,	at 18.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	135.43	m. (MSL.) ,	River Bed	137.56	m. (MSL.)
Left Bank Elevation	146.14	m. (MSL.) ,			
Right Bank Elevation	146.14	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.80	9.20	12.40	9.20	35.05	149.75	50.10	40.90	13.30	5.60	11.20	4.40		
2	8.60	9.00	17.75	9.20	30.20	170.30	53.95	40.45	12.70	5.40	12.40	3.00		
3	36.85	10.30	21.60	13.90	28.60	201.75	60.00	36.40	11.80	5.20	10.90	1.80		
4	20.55	12.10	44.50	10.90	23.40	409.55	52.30	35.05	10.60	5.20	9.60	1.60		
5	15.40	13.30	34.60	8.00	23.00	394.60	44.05	35.05	9.80	5.20	9.00	2.20		
6	13.30	13.60	28.20	9.60	23.00	349.30	40.45	155.00	9.60	7.20	8.20	1.90		
7	10.60	15.70	23.40	13.60	27.80	261.00	35.05	122.90	9.40	7.60	8.40	1.80		
8	10.90	50.10	17.75	13.30	40.45	205.15	32.80	101.20	9.20	7.80	8.80	1.70		
9	10.60	85.30	16.00	12.70	38.20	186.45	44.50	133.25	9.00	8.20	8.20	1.70		
10	9.80	101.90	16.00	12.70	35.95	156.70	51.20	124.30	8.60	9.80	7.60	1.90		
11	9.40	101.90	13.00	31.45	31.00	134.00	46.30	82.20	8.40	16.00	7.20	3.80		
12	9.20	87.25	12.40	33.25	32.80	114.50	41.80	61.80	8.20	44.95	7.20	4.60		
13	8.40	76.20	15.40	29.40	26.60	87.90	38.65	47.20	8.00	43.15	7.00	5.20		
14	8.00	72.00	18.80	25.80	22.65	76.80	34.15	39.10	7.80	25.00	6.80	5.80		
15	8.60	67.20	25.00	28.60	19.50	58.90	35.05	32.35	7.60	18.80	6.60	6.00		
16	12.10	65.40	20.20	38.65	18.80	47.20	48.55	26.60	7.40	17.05	6.60	5.80		
17	16.35	65.40	28.60	38.20	18.45	67.80	37.30	26.20	7.20	16.35	6.60	5.20		
18	18.45	73.20	24.20	35.05	18.10	56.15	29.80	21.60	7.20	15.40	6.60	4.80		
19	18.45	76.80	20.55	28.20	17.75	50.65	25.40	23.00	7.00	14.80	6.60	4.80		
20	17.75	20.20	18.80	18.45	17.40	49.00	25.80	21.25	7.00	13.90	6.60	4.80		
21	15.70	23.00	17.05	23.80	20.20	47.20	27.40	19.85	6.80	13.60	6.60	4.80		
22	16.00	25.00	15.40	34.60	32.80	50.65	27.80	18.45	6.80	13.30	6.60	4.80		
23	16.35	22.30	15.10	27.40	66.60	53.40	103.30	17.75	6.60	13.00	7.60	4.80		
24	16.35	19.85	13.90	25.80	57.80	43.60	180.50	17.40	6.60	12.70	7.00	4.80		
25	16.00	16.35	11.50	29.00	41.35	43.15	131.75	15.70	6.40	12.40	6.60	4.60		
26	15.70	13.90	9.40	33.70	32.80	76.80	89.20	14.50	6.40	12.10	6.40	4.60		
27	14.80	10.90	9.40	31.90	42.70	64.80	70.20	14.20	6.20	11.80	6.00	8.60		
28	13.30	8.60	9.20	25.00	63.00	81.60	55.05	13.90	6.20	11.50	5.60	8.60		
29	11.50	11.20	8.80	35.05	72.00	76.80	44.95	13.90	6.00	11.50		9.40		
30	10.00	12.40	8.60	48.55	88.55	64.80	41.35	13.90	6.00	11.20		11.50		
31		12.40		38.65	91.15		40.45		6.00	11.20		12.10		
Total	416.80	1201.95	547.50	773.60	1137.65	3830.25	1639.15	1365.35	249.80	426.90	214.50	151.40	11954.85	CMSDAY
Mean	13.89	38.77	18.25	24.95	36.70	127.67	52.88	45.51	8.06	13.77	7.66	4.88	32.75	CMS
Max	36.85	101.90	44.50	48.55	91.15	409.55	180.50	155.00	13.30	44.95	12.40	12.10	409.55	CMS
Min	7.80	8.60	8.60	8.00	17.40	43.15	25.40	13.90	6.00	5.20	5.60	1.60	1.60	CMS
Runoff	36.01	103.85	47.30	66.84	98.29	330.93	141.62	117.97	21.58	36.88	18.53	13.08	1032.90	MCM

Momentary Peak 423.35 CMS. at 142.49 m. (MSL.) at 18.00 Hours , on Sep 4 , 2014

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

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

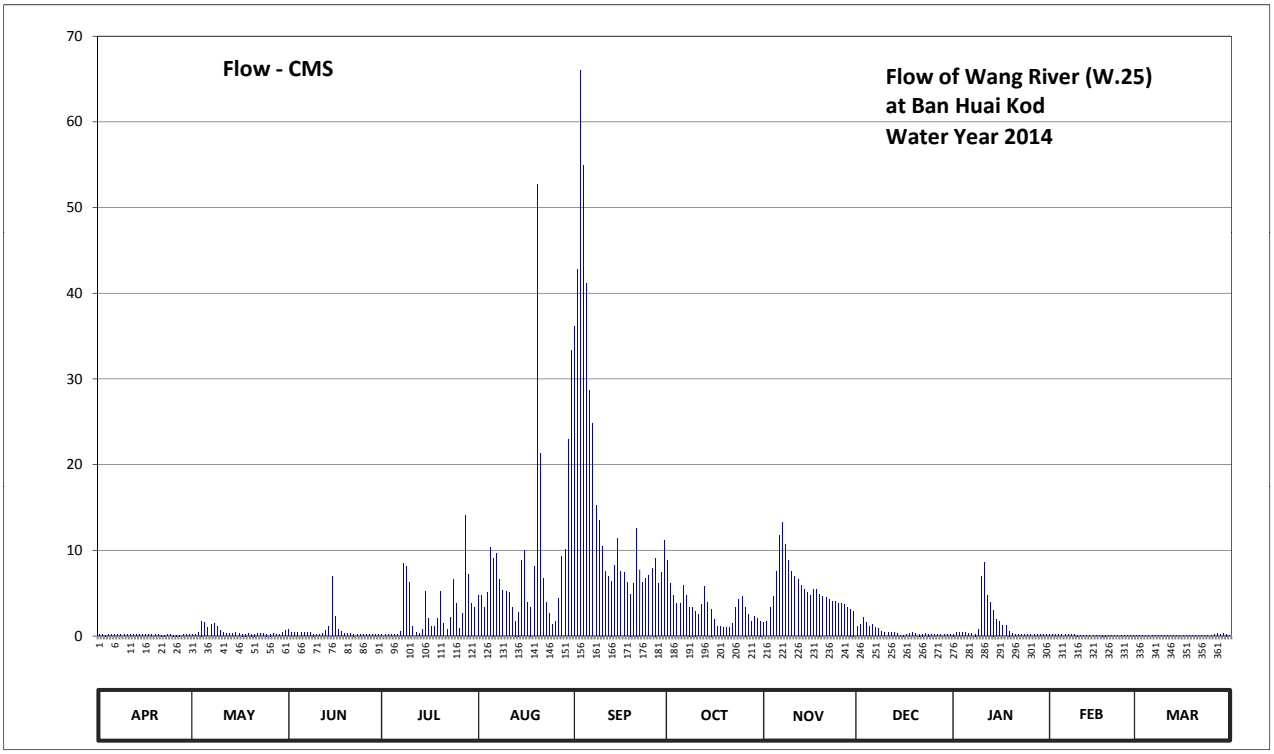
Location : on left bank at Ban Huai Kod.

	Ban Huai Kod	**Amphoe** Wang Nua	**Changwat** Lampang
Drainge Area	762 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+381.903 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.		**Elevation** +387.093 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 45 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	381.42	381.45	381.63	381.44	382.06	383.40	382.31	381.78	381.70	381.47	381.43	381.38	
2	381.42	381.46	381.55	381.44	382.06	383.60	382.15	381.79	381.73	381.55	381.43	381.38	
3	381.41	381.53	381.55	381.44	381.94	384.21	382.06	381.94	381.84	381.54	381.43	381.37	
4	381.43	381.80	381.52	381.44	382.08	383.93	381.98	382.05	381.77	381.52	381.42	381.37	
5	381.43	381.77	381.52	381.45	382.40	383.55	381.98	382.24	381.71	381.52	381.42	381.36	
6	381.43	381.68	381.53	381.45	382.33	383.15	382.14	382.47	381.74	381.50	381.42	381.36	
7	381.44	381.73	381.52	381.58	382.36	383.01	382.06	382.54	381.69	381.48	381.42	381.36	
8	381.43	381.75	381.54	382.29	382.18	382.63	381.95	382.42	381.65	381.47	381.42	381.36	
9	381.44	381.71	381.47	382.27	382.10	382.55	381.95	382.31	381.56	381.63	381.42	381.36	
10	381.43	381.61	381.45	382.16	382.09	382.41	381.91	382.24	381.54	382.20	381.41	381.36	
11	381.43	381.55	381.45	381.70	382.08	382.24	381.87	382.20	381.55	382.30	381.40	381.37	
12	381.43	381.50	381.50	381.55	381.94	382.20	381.97	382.18	381.55	382.06	381.40	381.37	
13	381.43	381.48	381.61	381.50	381.80	382.17	382.13	382.14	381.54	381.99	381.40	381.36	
14	381.43	381.50	381.70	381.63	381.90	382.28	381.99	382.11	381.48	381.92	381.40	381.36	
15	381.43	381.53	382.20	382.09	382.31	382.45	381.93	382.08	381.40	381.82	381.40	381.36	
16	381.43	381.49	381.85	381.83	382.38	382.24	381.82	382.06	381.41	381.79	381.39	381.36	
17	381.43	381.47	381.63	381.70	381.99	382.23	381.70	382.11	381.44	381.72	381.40	381.37	
18	381.43	381.47	381.58	381.70	381.95	382.16	381.70	382.11	381.50	381.72	381.41	381.37	
19	381.43	381.49	381.50	381.83	382.27	382.07	381.68	382.07	381.53	381.60	381.41	381.38	
20	381.43	381.47	381.48	382.09	383.87	382.15	381.69	382.05	381.51	381.49	381.39	381.38	
21	381.41	381.47	381.48	381.75	382.88	382.51	381.68	382.04	381.47	381.45	381.36	381.37	
22	381.41	381.49	381.47	381.63	382.19	382.25	381.75	382.02	381.47	381.44	381.37	381.37	
23	381.42	381.49	381.46	381.84	381.99	382.16	381.94	382.00	381.50	381.43	381.37	381.37	
24	381.42	381.48	381.45	382.18	381.88	382.19	382.02	382.00	381.47	381.43	381.38	381.39	
25	381.41	381.47	381.45	381.98	381.74	382.21	382.05	381.98	381.45	381.43	381.37	381.38	
26	381.41	381.47	381.45	381.65	381.79	382.26	381.95	381.98	381.44	381.43	381.37	381.43	
27	381.41	381.48	381.45	381.88	382.03	382.33	381.87	381.97	381.43	381.42	381.38	381.50	
28	381.43	381.45	381.45	382.58	382.34	382.15	381.79	381.94	381.42	381.43	381.38	381.46	
29	381.42	381.46	381.45	382.22	382.39	382.23	381.85	381.93	381.42	381.43		381.50	
30	381.44	381.54	381.45	381.98	382.94	382.44	381.83	381.91	381.42	381.43		381.47	
31		381.61		381.94	383.31		381.80		381.42	381.43		381.40	
Mean	381.43	381.54	381.54	381.81	382.24	382.58	381.92	382.09	381.54	381.61	381.40	381.39	
Max	381.44	381.80	382.20	382.58	383.87	384.21	382.31	382.54	381.84	382.30	381.43	381.50	384.21
Min	381.41	381.45	381.45	381.44	381.74	382.07	381.68	381.78	381.40	381.42	381.36	381.36	381.36

Annual Max Momentary Gage Height	384.30	m. (MSL.) ,	at 06.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	381.90	m. (MSL.) ,	River Bed	379.94	m. (MSL.)
Left Bank Elevation	387.24	m. (MSL.) ,			
Right Bank Elevation	387.32	m. (MSL.) ,	Drainage Area	762	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.20	0.75	0.18	4.78	36.10	8.77	1.62	1.10	0.24	0.16	0.08		
2	0.14	0.22	0.45	0.18	4.78	42.80	6.10	1.69	1.30	0.45	0.16	0.08		
3	0.12	0.39	0.45	0.18	3.28	66.00	4.78	3.28	2.17	0.42	0.16	0.07		
4	0.16	1.75	0.36	0.18	5.04	54.94	3.76	4.65	1.55	0.36	0.14	0.07		
5	0.16	1.55	0.36	0.20	10.30	41.12	3.76	7.58	1.16	0.36	0.14	0.06		
6	0.16	1.00	0.39	0.20	9.11	28.62	5.94	11.77	1.36	0.30	0.14	0.06		
7	0.18	1.30	0.36	0.54	9.62	24.78	4.78	13.24	1.05	0.26	0.14	0.06		
8	0.16	1.43	0.42	8.43	6.58	15.22	3.40	10.72	0.85	0.24	0.14	0.06		
9	0.18	1.16	0.24	8.09	5.30	13.45	3.40	8.77	0.48	0.75	0.14	0.06		
10	0.16	0.65	0.20	6.26	5.17	10.51	2.92	7.58	0.42	6.90	0.12	0.06		
11	0.16	0.45	0.20	1.10	5.04	7.58	2.49	6.90	0.45	8.60	0.10	0.07		
12	0.16	0.30	0.30	0.45	3.28	6.90	3.64	6.58	0.45	4.78	0.10	0.07		
13	0.16	0.26	0.65	0.30	1.75	6.42	5.78	5.94	0.42	3.88	0.10	0.06		
14	0.16	0.30	1.10	0.75	2.80	8.26	3.88	5.46	0.26	3.04	0.10	0.06		
15	0.16	0.39	6.90	5.17	8.77	11.35	3.16	5.04	0.10	1.96	0.10	0.06		
16	0.16	0.28	2.28	2.06	9.96	7.58	1.96	4.78	0.12	1.69	0.09	0.06		
17	0.16	0.24	0.75	1.10	3.88	7.41	1.10	5.46	0.18	1.23	0.10	0.07		
18	0.16	0.24	0.54	1.10	3.40	6.26	1.10	5.46	0.30	1.23	0.12	0.07		
19	0.16	0.28	0.30	2.06	8.09	4.91	1.00	4.91	0.39	0.60	0.12	0.08		
20	0.16	0.24	0.26	5.17	52.66	6.10	1.05	4.65	0.33	0.28	0.09	0.08		
21	0.12	0.24	0.26	1.43	21.38	12.61	1.00	4.52	0.24	0.20	0.06	0.07		
22	0.12	0.28	0.24	0.75	6.74	7.75	1.43	4.26	0.24	0.18	0.07	0.07		
23	0.14	0.28	0.22	2.17	3.88	6.26	3.28	4.00	0.30	0.16	0.07	0.07		
24	0.14	0.26	0.20	6.58	2.59	6.74	4.26	4.00	0.24	0.16	0.08	0.09		
25	0.12	0.24	0.20	3.76	1.36	7.07	4.65	3.76	0.20	0.16	0.07	0.08		
26	0.12	0.24	0.20	0.85	1.69	7.92	3.40	3.76	0.18	0.16	0.07	0.16		
27	0.12	0.26	0.20	2.59	4.39	9.11	2.49	3.64	0.16	0.14	0.08	0.30		
28	0.16	0.20	0.20	14.08	9.28	6.10	1.69	3.28	0.14	0.16	0.08	0.22		
29	0.14	0.22	0.20	7.24	10.13	7.41	2.28	3.16	0.14	0.16		0.30		
30	0.18	0.42	0.20	3.76	22.94	11.14	2.06	2.92	0.14	0.16		0.24		
31		0.65		3.28	33.35		1.75		0.14	0.16		0.10		
Total	4.52	15.92	19.38	90.19	281.32	488.42	101.06	163.38	16.56	39.37	3.04	3.04	1226.20	CMSDAY
Mean	0.15	0.51	0.65	2.91	9.07	16.28	3.26	5.45	0.53	1.27	0.11	0.10	3.36	CMS
Max	0.18	1.75	6.90	14.08	52.66	66.00	8.77	13.24	2.17	8.60	0.16	0.30	66.00	CMS
Min	0.12	0.20	0.20	0.18	1.36	4.91	1.00	1.62	0.10	0.14	0.06	0.06	0.06	CMS
Runoff	0.39	1.38	1.67	7.79	24.31	42.20	8.73	14.12	1.43	3.40	0.26	0.26	105.94	MCM

Momentary Peak 69.65 CMS. at 384.30 m. (MSL.) at 06.00 Hours , on Sep 3 , 2014

Runoff Yield 4.41 Liters/Second/Square KM. Momentary Peak Yield 91.404 Liters/Second/Square KM.

WATER YEAR : 2014

WANG RIVER BASIN

Nam Mae Ta at Ban Huai Mae Ta , Lampang (W.26)

Lat 18 - 36 - 26 N Long 99 - 37 - 44 E

Location : on left bank at Ban Huai Mae Ta.

	Ban Huai Mae Ta	**Amphoe** Chae Hom	**Changwat** Lampang
Drainge Area	150 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+286.470 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the approach of the bridge.		**Elevation** +290.173 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.Stage-discharge relation defined by 40 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

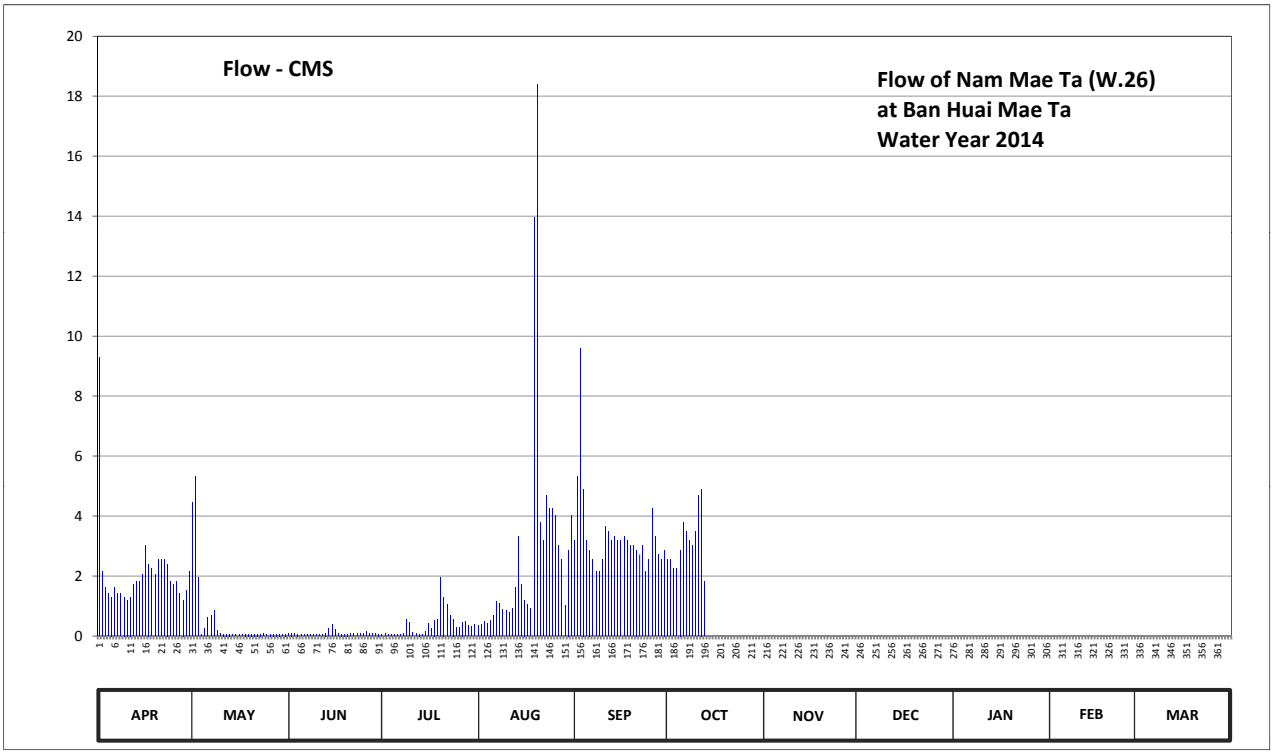
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	287.01	286.83	286.08	286.03	286.23	286.76	286.72	286.68	286.55	286.53	286.75	286.78	
2	286.69	286.87	286.10	286.06	286.24	286.87	286.72	286.81	286.55	286.54	286.79	286.78	
3	286.64	286.67	286.06	286.03	286.30	287.02	286.70	286.80	286.55	286.53	286.83	286.79	
4	286.62	285.97	286.04	286.01	286.26	286.85	286.70	286.80	286.55	286.53	286.83	286.78	
5	286.61	286.18	286.03	286.00	286.32	286.76	286.74	286.80	286.55	286.55	286.82	286.78	
6	286.64	286.37	286.03	286.01	286.41	286.74	286.80	286.81	286.57	286.67	286.83	286.78	
7	286.62	286.40	286.02	286.00	286.58	286.72	286.78	286.79	286.55	286.80	286.83	286.77	
8	286.62	286.49	286.02	286.09	286.56	286.69	286.76	286.79	286.54	286.80	286.81	286.77	
9	286.61	286.14	286.01	286.33	286.50	286.69	286.75	286.77	286.52	286.84	286.81	286.77	
10	286.60	286.07	286.02	286.28	286.49	286.72	286.78	286.75	286.54	286.88	286.80	286.77	
11	286.61	286.04	286.02	286.11	286.45	286.79	286.84	286.72	286.54	286.86	286.81	286.77	
12	286.65	286.04	286.03	286.06	286.51	286.78	286.85	286.74	286.53	286.82	286.81	286.77	
13	286.66	286.04	286.10	286.04	286.64	286.76	286.66	286.73	286.52	286.80	286.81	286.78	
14	286.66	286.03	286.18	286.03	286.77	286.77	286.68	286.72	286.53	286.78	286.79	286.78	
15	286.68	286.03	286.25	286.12	286.65	286.76	286.77	286.71	286.53	286.79	286.76	286.77	
16	286.75	286.02	286.16	286.26	286.60	286.76	286.76	286.66	286.51	286.77	286.69	286.77	
17	286.71	286.03	286.09	286.18	286.55	286.77	286.75	286.67	286.51	286.77	286.68	286.76	
18	286.70	286.04	286.05	286.32	286.51	286.76	286.74	286.59	286.50	286.77	286.67	286.76	
19	286.68	286.04	286.05	286.33	287.16	286.75	286.77	286.57	286.51	286.76	286.69	286.77	
20	286.72	286.04	286.05	286.67	287.29	286.75	286.77	286.58	286.51	286.76	286.75	286.77	
21	286.72	286.04	286.07	286.61	286.80	286.74	286.77	286.58	286.51	286.77	286.75	286.77	
22	286.72	286.04	286.09	286.55	286.76	286.73	286.77	286.59	286.49	286.76	286.74	286.77	
23	286.71	286.05	286.08	286.41	286.84	286.75	286.75	286.58	286.47	286.76	286.74	286.76	
24	286.66	286.07	286.09	286.34	286.82	286.69	286.71	286.57	286.45	286.73	286.75	286.75	
25	286.65	286.03	286.09	286.20	286.82	286.72	286.66	286.56	286.45	286.68	286.76	286.74	
26	286.66	286.04	286.12	286.20	286.81	286.82	286.64	286.56	286.46	286.72	286.77	286.73	
27	286.62	286.04	286.09	286.29	286.75	286.77	286.64	286.56	286.49	286.75	286.78	286.74	
28	286.60	286.04	286.08	286.30	286.72	286.73	286.63	286.56	286.51	286.70	286.79	286.75	
29	286.63	286.04	286.08	286.23	286.54	286.72	286.64	286.56	286.54	286.69		286.76	
30	286.69	286.03	286.04	286.22	286.74	286.74	286.63	286.55	286.55	286.68		286.76	
31		286.04		286.24	286.81		286.61		286.53	286.68		286.73	
Mean	286.67	286.15	286.07	286.21	286.63	286.76	286.73	286.67	286.52	286.72	286.77	286.77	
Max	287.01	286.87	286.25	286.67	287.29	287.02	286.85	286.81	286.57	286.88	286.83	286.79	287.29
Min	286.60	285.97	286.01	286.00	286.23	286.69	286.61	286.55	286.45	286.53	286.67	286.73	285.97

Annual Max Momentary Gage Height 287.75 m. (MSL.) , at 05.00 Hours , on Aug 20 , 2014

Zero Gage at Bottom Elevation 286.47 m. (MSL.) , River Bed 285.59 m. (MSL.)

Left Bank Elevation 291.22 m. (MSL.) ,

Right Bank Elevation 292.26 m. (MSL.) , Drainage Area 150 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.30	4.46	0.09	0.06	0.35	3.18	2.56	0.00	0.00	0.00	0.00	0.00		
2	2.14	5.34	0.10	0.08	0.37	5.34	2.56	0.00	0.00	0.00	0.00	0.00		
3	1.62	1.94	0.08	0.06	0.49	9.60	2.25	0.00	0.00	0.00	0.00	0.00		
4	1.41	0.04	0.07	0.06	0.41	4.90	2.25	0.00	0.00	0.00	0.00	0.00		
5	1.30	0.26	0.06	0.05	0.53	3.18	2.87	0.00	0.00	0.00	0.00	0.00		
6	1.62	0.63	0.06	0.06	0.70	2.87	3.80	0.00	0.00	0.00	0.00	0.00		
7	1.41	0.68	0.06	0.05	1.14	2.56	3.49	0.00	0.00	0.00	0.00	0.00		
8	1.41	0.86	0.06	0.09	1.07	2.14	3.18	0.00	0.00	0.00	0.00	0.00		
9	1.30	0.18	0.06	0.55	0.88	2.14	3.03	0.00	0.00	0.00	0.00	0.00		
10	1.20	0.09	0.06	0.45	0.86	2.56	3.49	0.00	0.00	0.00	0.00	0.00		
11	1.30	0.07	0.06	0.12	0.78	3.65	4.68	0.00	0.00	0.00	0.00	0.00		
12	1.72	0.07	0.06	0.08	0.91	3.49	4.90	0.00	0.00	0.00	0.00	0.00		
13	1.83	0.07	0.10	0.07	1.62	3.18	1.83	0.00	0.00	0.00	0.00	0.00		
14	1.83	0.06	0.26	0.06	3.33	3.33	0.00	0.00	0.00	0.00	0.00	0.00		
15	2.04	0.06	0.39	0.14	1.72	3.18	0.00	0.00	0.00	0.00	0.00	0.00		
16	3.03	0.06	0.22	0.41	1.20	3.18	0.00	0.00	0.00	0.00	0.00	0.00		
17	2.40	0.06	0.09	0.26	1.04	3.33	0.00	0.00	0.00	0.00	0.00	0.00		
18	2.25	0.07	0.07	0.53	0.91	3.18	0.00	0.00	0.00	0.00	0.00	0.00		
19	2.04	0.07	0.07	0.55	13.95	3.03	0.00	0.00	0.00	0.00	0.00	0.00		
20	2.56	0.07	0.07	1.94	18.40	3.03	0.00	0.00	0.00	0.00	0.00	0.00		
21	2.56	0.07	0.09	1.30	3.80	2.87	0.00	0.00	0.00	0.00	0.00	0.00		
22	2.56	0.07	0.09	1.04	3.18	2.72	0.00	0.00	0.00	0.00	0.00	0.00		
23	2.40	0.07	0.09	0.70	4.68	3.03	0.00	0.00	0.00	0.00	0.00	0.00		
24	1.83	0.09	0.09	0.57	4.24	2.14	0.00	0.00	0.00	0.00	0.00	0.00		
25	1.72	0.06	0.09	0.30	4.24	2.56	0.00	0.00	0.00	0.00	0.00	0.00		
26	1.83	0.07	0.14	0.30	4.02	4.24	0.00	0.00	0.00	0.00	0.00	0.00		
27	1.41	0.07	0.09	0.47	3.03	3.33	0.00	0.00	0.00	0.00	0.00	0.00		
28	1.20	0.07	0.09	0.49	2.56	2.72	0.00	0.00	0.00	0.00	0.00	0.00		
29	1.51	0.07	0.09	0.35	1.01	2.56	0.00	0.00	0.00	0.00		0.00		
30	2.14	0.06	0.07	0.33	2.87	2.87	0.00	0.00	0.00	0.00		0.00		
31		0.07		0.37	4.02		0.00		0.00	0.00		0.00		
Total	62.87	15.91	3.02	11.89	88.31	100.09	40.89	0.00	0.00	0.00	0.00	0.00	322.98	CMSDAY
Mean	2.10	0.51	0.10	0.38	2.85	3.34	1.32	0.00	0.00	0.00	0.00	0.00	0.88	CMS
Max	9.30	5.34	0.39	1.94	18.40	9.60	4.90	0.00	0.00	0.00	0.00	0.00	18.40	CMS
Min	1.20	0.04	0.06	0.05	0.35	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	5.43	1.38	0.26	1.03	7.63	8.65	3.53	0.00	0.00	0.00	0.00	0.00	27.91	MCM

Momentary Peak 38.12 CMS. at 287.75 m. (MSL.) at 05.00 Hours , on Aug 20 , 2014

Runoff Yield 5.90 Liters/Second/Square KM. Momentary Peak Yield 254.133 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

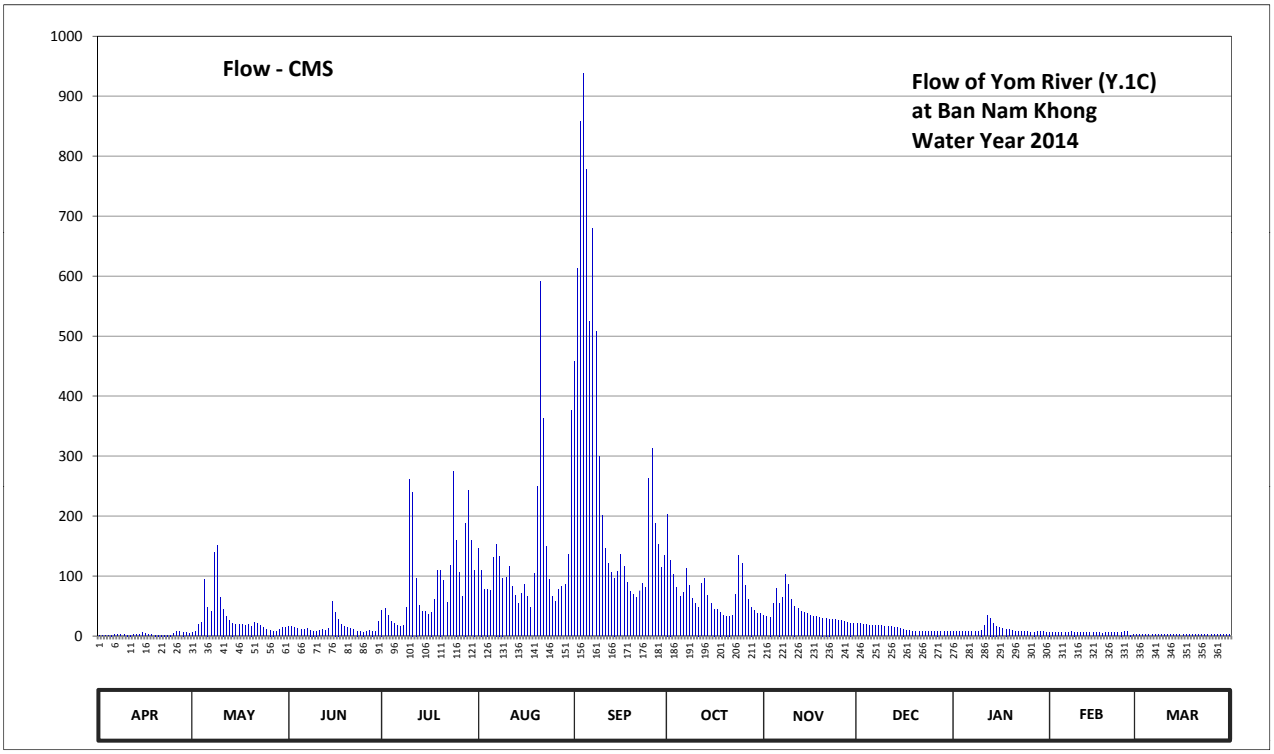
Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	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 Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	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 53 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.95	144.12	144.33	144.68	145.84	148.48	146.40	144.58	144.39	144.18	144.15	144.31	
2	143.95	144.17	144.33	144.71	145.45	149.55	145.63	144.55	144.39	144.19	144.14	144.25	
3	143.94	144.37	144.31	144.57	145.08	151.14	145.37	144.54	144.38	144.18	144.14	144.27	
4	143.96	144.42	144.28	144.44	145.09	151.62	145.11	144.81	144.38	144.17	144.14	144.28	
5	143.98	145.27	144.24	144.39	145.07	150.63	144.94	145.10	144.35	144.17	144.13	144.29	
6	144.01	144.74	144.25	144.35	145.67	148.96	145.02	144.82	144.35	144.17	144.14	144.28	
7	144.01	144.66	144.27	144.33	145.91	150.00	145.48	144.92	144.36	144.16	144.14	144.28	
8	144.00	145.77	144.23	144.35	145.70	148.84	145.15	145.37	144.35	144.16	144.19	144.27	
9	144.00	145.89	144.20	144.73	145.30	147.26	144.90	145.17	144.35	144.17	144.15	144.26	
10	143.99	144.92	144.20	146.93	145.31	146.38	144.80	144.88	144.32	144.23	144.14	144.24	
11	143.98	144.70	144.22	146.74	145.52	145.84	144.74	144.76	144.32	144.35	144.14	144.25	
12	144.00	144.55	144.24	145.30	145.14	145.56	145.20	144.71	144.32	144.58	144.13	144.25	
13	144.00	144.47	144.22	144.77	144.96	145.41	145.29	144.66	144.30	144.52	144.12	144.25	
14	144.02	144.41	144.28	144.65	144.81	145.30	144.96	144.63	144.29	144.41	144.12	144.25	
15	144.12	144.37	144.84	144.65	145.01	145.42	144.80	144.61	144.28	144.34	144.12	144.24	
16	144.06	144.37	144.64	144.60	145.18	145.73	144.70	144.58	144.26	144.31	144.12	144.25	
17	144.02	144.37	144.50	144.64	144.95	145.51	144.69	144.55	144.22	144.27	144.11	144.25	
18	144.02	144.35	144.37	144.89	144.73	145.22	144.64	144.55	144.21	144.26	144.10	144.25	
19	143.99	144.37	144.32	145.44	145.39	145.04	144.58	144.53	144.19	144.25	144.12	144.26	
20	143.99	144.34	144.30	145.45	146.82	144.99	144.56	144.52	144.19	144.21	144.12	144.29	
21	143.99	144.42	144.27	145.25	149.41	144.93	144.56	144.52	144.18	144.19	144.11	144.28	
22	143.99	144.39	144.24	144.83	147.79	145.06	144.57	144.50	144.17	144.18	144.12	144.29	
23	143.99	144.35	144.20	145.53	145.87	145.19	144.99	144.49	144.17	144.18	144.13	144.30	
24	143.99	144.30	144.17	147.05	145.27	145.11	145.71	144.49	144.18	144.16	144.15	144.31	
25	144.07	144.25	144.15	145.98	144.94	146.95	145.57	144.47	144.17	144.18	144.16	144.32	
26	144.17	144.23	144.17	145.40	144.84	147.37	145.15	144.46	144.18	144.14	144.16	144.32	
27	144.19	144.20	144.22	144.94	145.08	146.25	144.89	144.44	144.20	144.15	144.22	144.33	
28	144.15	144.19	144.20	146.26	145.14	145.90	144.74	144.42	144.18	144.17	144.37	144.33	
29	144.13	144.25	144.19	146.76	145.18	145.49	144.67	144.41	144.19	144.20		144.32	
30	144.09	144.29	144.45	145.97	145.73	145.71	144.61	144.40	144.18	144.17		144.37	
31		144.29		145.45	147.90		144.61		144.19	144.13		144.35	
Mean	144.02	144.51	144.29	145.23	145.62	146.83	145.00	144.65	144.26	144.23	144.15	144.28	
Max	144.19	145.89	144.84	147.05	149.41	151.62	146.40	145.37	144.39	144.58	144.37	144.37	151.62
Min	143.94	144.12	144.15	144.33	144.73	144.93	144.56	144.40	144.17	144.13	144.10	144.24	143.94

Annual Max Momentary Gage Height	151.77	m. (MSL.) ,	at 06.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	143.50	m. (MSL.) ,	River Bed	143.07	m. (MSL.)
Left Bank Elevation	154.00	m. (MSL.) ,			
Right Bank Elevation	154.03	m. (MSL.) ,	Drainage Area	7749	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.45	5.54	16.10	43.30	146.40	457.20	203.50	34.90	20.30	7.76	6.65	2.59		
2	1.45	7.39	16.10	45.85	110.13	612.50	126.78	32.50	20.30	8.13	6.28	2.10		
3	1.34	18.90	14.70	34.10	77.50	858.10	102.88	31.70	19.60	7.76	6.28	2.26		
4	1.56	22.50	12.90	24.00	78.37	937.30	80.13	54.35	19.60	7.39	6.28	2.34		
5	1.78	94.13	10.70	20.30	76.63	777.65	65.40	79.25	17.50	7.39	5.91	2.42		
6	2.28	48.40	11.25	17.50	130.47	524.40	72.25	55.20	17.50	7.39	6.28	2.34		
7	2.28	41.60	12.35	16.10	153.23	680.00	112.90	63.70	18.20	7.02	6.28	2.34		
8	2.00	139.73	10.15	17.50	133.25	507.60	83.62	102.88	17.50	7.02	8.13	2.26		
9	2.00	151.27	8.50	47.55	96.75	299.20	62.00	85.38	17.50	7.39	6.65	2.18		
10	1.89	63.70	8.50	260.47	97.63	201.35	53.50	60.30	15.40	10.15	6.28	2.02		
11	1.78	45.00	9.60	240.05	116.60	146.40	48.40	50.10	15.40	17.50	6.28	2.10		
12	2.00	32.50	10.70	96.75	82.75	120.30	88.00	45.85	15.40	34.90	5.91	2.10		
13	2.00	26.25	9.60	50.95	67.10	106.43	95.87	41.60	14.00	30.10	5.54	2.10		
14	2.56	21.75	12.90	40.75	54.35	96.75	67.10	39.05	13.45	21.75	5.54	2.10		
15	5.54	18.90	56.90	40.75	71.37	107.35	53.50	37.35	12.90	16.80	5.54	2.02		
16	3.68	18.90	39.90	36.50	86.25	136.02	45.00	34.90	11.80	14.70	5.54	2.10		
17	2.56	18.90	28.50	39.90	66.25	115.67	44.15	32.50	9.60	12.35	5.17	2.10		
18	2.56	17.50	18.90	61.15	47.55	89.75	39.90	32.50	9.05	11.80	4.80	2.10		
19	1.89	18.90	15.40	109.20	104.63	74.00	34.90	30.90	8.13	11.25	5.54	2.18		
20	1.89	16.80	14.00	110.13	248.65	69.65	33.30	30.10	8.13	9.05	5.54	2.42		
21	1.89	22.50	12.35	92.38	591.50	64.55	33.30	30.10	7.76	8.13	5.17	2.34		
22	1.89	20.30	10.70	56.05	362.80	75.75	34.10	28.50	7.39	7.76	5.54	2.42		
23	1.89	17.50	8.50	117.53	149.32	87.13	69.65	27.75	7.39	7.76	5.91	2.50		
24	1.89	14.00	7.39	274.00	94.13	80.13	134.18	27.75	7.76	7.02	6.65	2.59		
25	3.96	11.25	6.65	160.05	65.40	262.62	121.23	26.25	7.39	7.76	7.02	2.68		
26	7.39	10.15	7.39	105.50	56.90	312.40	83.62	25.50	7.76	6.28	7.02	2.68		
27	8.13	8.50	9.60	65.40	77.50	187.38	61.15	24.00	8.50	6.65	1.86	2.77		
28	6.65	8.13	8.50	188.45	82.75	152.25	48.40	22.50	7.76	7.39	3.13	2.77		
29	5.91	11.25	8.13	242.20	86.25	113.83	42.45	21.75	8.13	8.50		2.68		
30	4.52	13.45	24.75	159.08	136.02	134.18	37.35	21.00	7.76	7.39		3.13		
31		13.45		110.13	377.00		37.35		8.13	5.91		2.95		
Total	88.61	979.04	441.61	2923.57	4125.43	8387.84	2215.86	1230.11	386.99	338.15	162.72	73.68	21353.61	CMSDAY
Mean	2.95	31.58	14.72	94.31	133.08	279.59	71.48	41.00	12.48	10.91	5.81	2.38	58.50	CMS
Max	8.13	151.27	56.90	274.00	591.50	937.30	203.50	102.88	20.30	34.90	8.13	3.13	937.30	CMS
Min	1.34	5.54	6.65	16.10	47.55	64.55	33.30	21.00	7.39	5.91	1.86	2.02	1.34	CMS
Runoff	7.66	84.59	38.16	252.60	356.44	724.71	191.45	106.28	33.44	29.22	14.06	6.37	1844.95	MCM

Momentary Peak 962.05 CMS. at 151.77 m. (MSL.) at 06.00 Hours , on Sep 4 , 2014

Runoff Yield 7.55 Liters/Second/Square KM. Momentary Peak Yield 124.152 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)

Lat 17 - 18 - 28 N Long 99 - 49 - 44 E

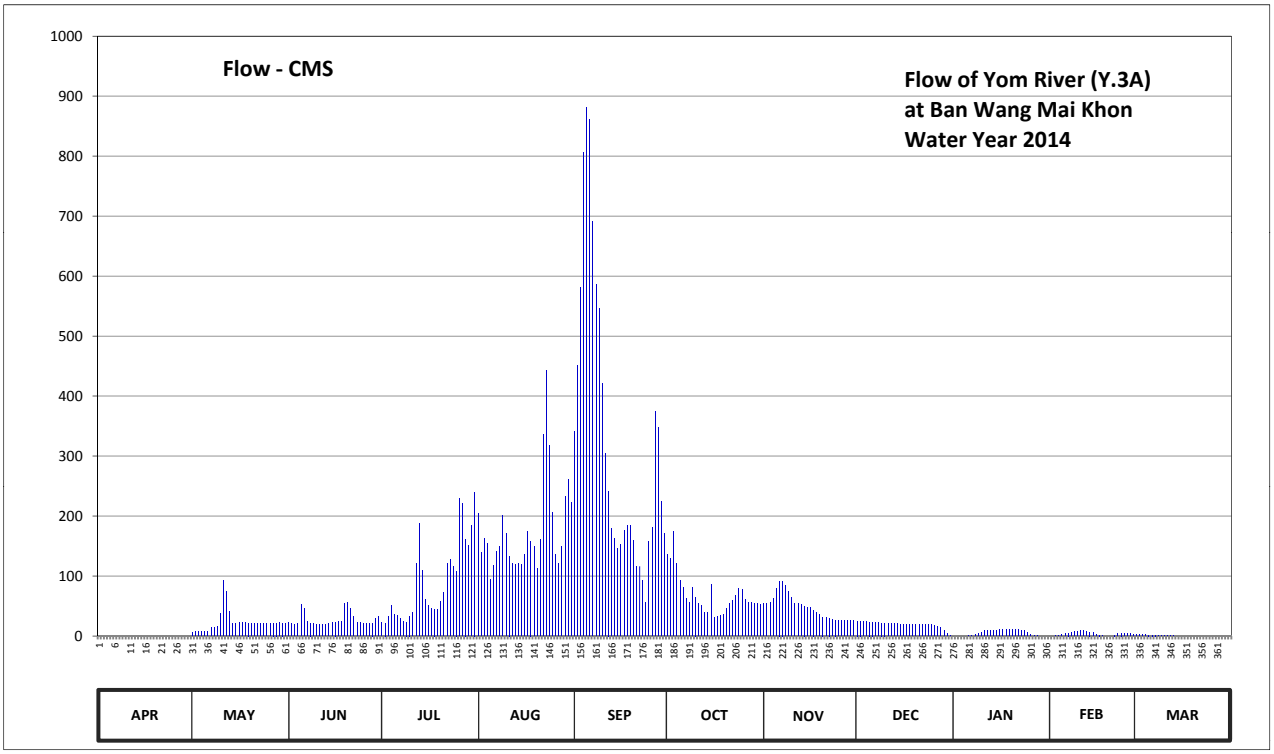
Location : on right bank about 100 meters downstream from the bridge on highway.

	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 Flot	-		
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 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.24	50.69	51.13	51.13	54.15	55.75	53.21	51.85	51.20	50.50	50.50	50.60	
2	50.24	50.73	51.09	51.12	53.25	56.89	53.11	51.87	51.20	50.50	50.50	50.60	
3	50.24	50.77	51.06	51.39	53.60	58.14	53.75	51.90	51.18	50.50	50.52	50.58	
4	50.24	50.77	51.11	51.79	53.47	60.19	52.99	52.02	51.18	50.50	50.55	50.58	
5	50.24	50.77	51.83	51.46	52.60	60.85	52.58	52.35	51.16	50.50	50.58	50.56	
6	50.24	50.77	51.70	51.43	52.95	60.67	52.39	52.56	51.16	50.55	50.62	50.56	
7	50.24	50.95	51.19	51.32	53.28	59.16	52.03	52.56	51.14	50.55	50.67	50.56	
8	50.24	50.95	51.12	51.18	53.40	58.19	51.91	52.43	51.14	50.60	50.71	50.54	
9	50.24	50.98	51.08	51.16	54.11	57.82	52.38	52.27	51.12	50.65	50.74	50.54	
10	50.24	51.53	51.05	51.41	53.72	56.58	52.08	52.06	51.12	50.70	50.75	50.54	
11	50.24	52.57	51.07	51.54	53.17	55.33	51.85	51.88	51.10	50.80	50.80	50.52	
12	50.24	52.25	51.05	52.99	53.00	54.62	51.81	51.87	51.10	50.80	50.80	50.52	
13	50.24	51.59	51.05	53.95	52.97	53.84	51.54	51.83	51.08	50.80	50.75	50.52	
14	50.24	51.10	51.11	52.82	53.00	53.59	51.56	51.78	51.08	50.82	50.72	50.50	
15	50.24	51.10	51.14	51.99	52.96	53.35	52.47	51.74	51.07	50.82	50.68	50.50	
16	50.24	51.13	51.16	51.81	53.21	53.44	51.36	51.72	51.07	50.84	50.60	50.48	
17	50.24	51.14	51.17	51.70	53.76	53.78	51.38	51.65	51.06	50.84	50.56	50.48	
18	50.24	51.13	51.18	51.68	53.53	53.90	51.42	51.56	51.06	50.86	50.52	50.48	
19	50.24	51.12	51.86	51.67	53.39	53.91	51.48	51.46	51.06	50.86	50.48	50.47	
20	50.24	51.11	51.90	51.94	52.86	53.55	51.70	51.37	51.05	50.86	50.44	50.47	
21	50.24	51.10	51.70	52.23	53.56	52.91	51.86	51.36	51.05	50.84	50.49	50.47	
22	50.24	51.08	51.40	53.00	55.69	52.92	51.95	51.33	51.05	50.84	50.56	50.47	
23	50.24	51.09	51.14	53.08	56.80	52.58	52.12	51.27	51.05	50.82	50.64	50.47	
24	50.24	51.10	51.13	52.91	55.49	51.90	52.36	51.24	51.05	50.80	50.67	50.48	
25	50.24	51.11	51.10	52.81	54.17	53.51	52.33	51.22	51.04	50.70	50.64	50.48	
26	50.24	51.11	51.09	54.47	53.21	53.86	52.01	51.22	51.02	50.60	50.62	50.48	
27	50.24	51.12	51.09	54.37	52.99	56.12	51.90	51.22	50.98	50.55	50.62	50.48	
28	50.24	51.12	51.12	53.58	53.39	55.82	51.89	51.21	50.92	50.55	50.60	50.48	
29	50.24	51.13	51.32	53.42	54.51	54.41	51.87	51.21	50.81	50.50		50.49	
30	50.24	51.12	51.40	53.91	54.85	53.71	51.86	51.21	50.65	50.50		50.49	
31		51.10		54.60	54.38		51.83		50.52	50.50		50.49	
Mean	50.24	51.14	51.25	52.38	53.72	55.38	52.10	51.71	51.05	50.68	50.62	50.51	
Max	50.24	52.57	51.90	54.60	56.80	60.85	53.75	52.56	51.20	50.86	50.80	50.60	60.85
Min	50.24	50.69	51.05	51.12	52.60	51.90	51.36	51.21	50.52	50.50	50.44	50.47	50.24

Annual Max Momentary Gage Height	61.03	m. (MSL.) ,	at 21.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	51.00	m. (MSL.) ,	River Bed	48.31	m. (MSL.)
Left Bank Elevation	61.23	m. (MSL.) ,			
Right Bank Elevation	61.81	m. (MSL.) ,	Drainage Area	13331	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	5.70	22.20	22.20	204.00	341.50	136.23	53.50	25.00	0.00	0.00	3.00		
2	0.00	6.90	20.60	21.80	139.00	452.00	129.31	54.50	25.00	0.00	0.00	3.00		
3	0.00	8.10	19.40	32.60	163.23	580.70	173.62	56.00	24.20	0.00	0.60	2.40		
4	0.00	8.10	21.40	50.50	154.23	805.85	121.00	62.00	24.20	0.00	1.50	2.40		
5	0.00	8.10	52.50	35.40	94.00	881.75	92.80	79.25	23.40	0.00	2.40	1.80		
6	0.00	8.10	46.00	34.20	118.23	861.05	81.45	91.60	23.40	1.50	3.60	1.80		
7	0.00	15.00	24.60	29.80	141.08	690.60	62.50	91.60	22.60	1.50	5.10	1.80		
8	0.00	15.00	21.80	24.20	149.38	585.95	56.50	83.80	22.60	3.00	6.30	1.20		
9	0.00	16.20	20.20	23.40	200.80	547.10	80.90	74.85	21.80	4.50	7.20	1.20		
10	0.00	38.20	19.00	33.40	171.54	421.00	65.00	64.00	21.80	6.00	7.50	1.20		
11	0.00	92.20	19.80	38.60	133.46	303.70	53.50	55.00	21.00	9.00	9.00	0.60		
12	0.00	73.75	19.00	121.00	121.69	241.60	51.50	54.50	21.00	9.00	9.00	0.60		
13	0.00	40.60	19.00	188.00	119.62	179.85	38.60	52.50	20.20	9.00	7.50	0.60		
14	0.00	21.00	21.40	109.23	121.69	162.54	39.40	50.00	20.20	9.80	6.60	0.00		
15	0.00	21.00	22.60	60.50	118.92	145.92	86.20	48.00	19.80	9.80	5.40	0.00		
16	0.00	22.20	23.40	51.50	136.23	152.15	31.40	47.00	19.80	10.60	3.00	0.00		
17	0.00	22.60	23.80	46.00	174.31	175.69	32.20	43.50	19.40	10.60	1.80	0.00		
18	0.00	22.20	24.20	45.00	158.38	184.00	33.80	39.40	19.40	11.40	0.60	0.00		
19	0.00	21.80	54.00	44.50	148.69	184.80	36.20	35.40	19.40	11.40	0.00	0.00		
20	0.00	21.40	56.00	58.00	112.00	159.77	46.00	31.80	19.00	11.40	0.00	0.00		
21	0.00	21.00	46.00	72.65	160.46	115.46	54.00	31.40	19.00	10.60	0.00	0.00		
22	0.00	20.20	33.00	121.69	336.10	116.15	58.50	30.20	19.00	10.60	1.80	0.00		
23	0.00	20.60	22.60	127.23	443.00	92.80	67.00	27.80	19.00	9.80	4.20	0.00		
24	0.00	21.00	22.20	115.46	318.10	56.00	79.80	26.60	19.00	9.00	5.10	0.00		
25	0.00	21.40	21.00	108.54	205.60	157.00	78.15	25.80	18.60	6.00	4.20	0.00		
26	0.00	21.40	20.60	229.60	136.23	181.23	61.50	25.80	17.80	3.00	3.60	0.00		
27	0.00	21.80	20.60	221.60	121.00	375.40	56.00	25.80	16.20	1.50	3.60	0.00		
28	0.00	21.80	21.80	161.85	148.69	347.80	55.50	25.40	13.80	1.50	3.00	0.00		
29	0.00	22.20	29.80	150.77	232.80	224.80	54.50	25.40	9.40	0.00		0.00		
30	0.00	21.80	33.00	184.80	260.75	170.85	54.00	25.40	4.50	0.00		0.00		
31		21.00		240.00	222.40		52.50		0.60	0.00		0.00		
Total	0.00	722.35	821.50	2804.02	5465.61	9895.01	2119.56	1437.80	590.10	170.50	102.60	21.60	24150.65	CMSDAY
Mean	0.00	23.30	27.38	90.45	176.31	329.83	68.37	47.93	19.04	5.50	3.66	0.70	66.17	CMS
Max	0.00	92.20	56.00	240.00	443.00	881.75	173.62	91.60	25.00	11.40	9.00	3.00	881.75	CMS
Min	0.00	5.70	19.00	21.80	94.00	56.00	31.40	25.40	0.60	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	62.41	70.98	242.27	472.23	854.93	183.13	124.23	50.99	14.73	8.87	1.87	2086.62	MCM

Momentary Peak 902.45 CMS. at 61.03 m. (MSL.) at 21.00 Hours , on Sep 5 , 2014

Runoff Yield 4.96 Liters/Second/Square KM. Momentary Peak Yield 67.696 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

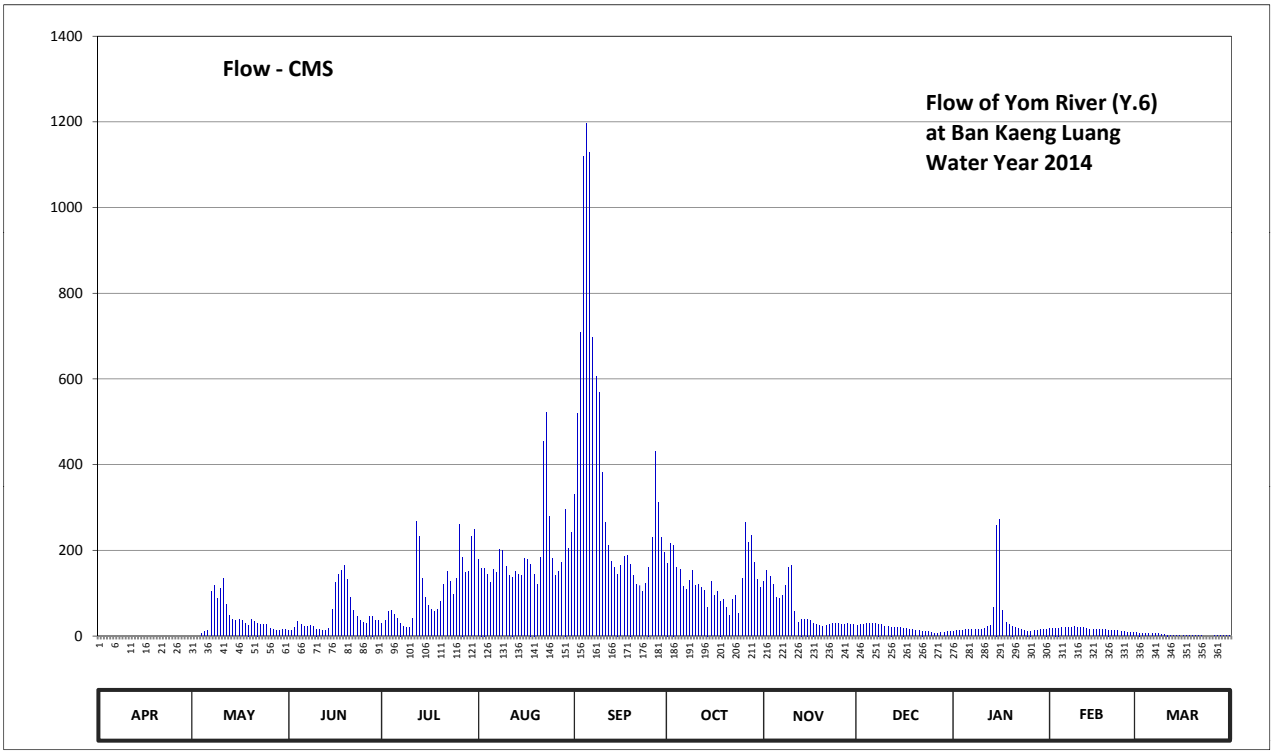
Location : on left bank about 150 meters upstream from Kaeng Luang.

	Ban Kaeng Luang	**Amphoe** Si Satchanalai	**Changwat** Sukhothai
Drainge Area	12,769 sq.km.		
Type of Gage	Staff gage		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1952 to date		
Rating Operation			
Period of Rating	1952 to date		
Rated by Flot	-		
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 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	58.76	58.63	59.80	60.22	61.89	62.86	61.84	62.27	61.57	60.55	61.10	60.14	
2	58.76	58.63	59.77	60.35	61.75	63.74	62.17	62.34	61.65	60.61	61.14	60.10	
3	58.76	58.63	59.99	60.72	61.75	64.52	62.14	62.30	61.68	60.68	61.18	60.05	
4	58.76	59.55	60.30	60.78	61.63	65.90	61.76	62.25	61.72	60.76	61.17	60.04	
5	58.76	59.75	60.15	60.62	61.48	66.14	61.72	62.15	61.74	60.83	61.22	59.99	
6	58.75	59.79	60.08	60.45	61.73	65.93	61.39	62.14	61.75	60.88	61.25	59.95	
7	58.74	61.29	60.05	60.23	61.67	64.47	61.33	62.17	61.73	60.94	61.27	59.95	
8	58.73	61.42	60.10	60.04	62.07	64.11	61.52	62.24	61.70	61.01	61.32	59.93	
9	58.72	61.12	60.06	60.00	62.05	63.95	61.71	62.36	61.64	61.00	61.37	59.78	
10	58.70	61.36	59.90	59.97	61.78	63.11	61.42	62.37	61.45	60.94	61.32	59.68	
11	58.70	61.56	59.84	60.44	61.62	62.49	61.44	62.01	61.40	61.10	61.28	59.61	
12	58.70	60.95	59.80	62.50	61.58	62.13	61.37	61.80	61.35	61.37	61.21	59.53	
13	58.70	60.57	59.81	62.28	61.68	61.87	61.31	61.88	61.32	61.61	61.05	59.38	
14	58.70	60.38	59.93	61.56	61.63	61.76	62.06	61.86	61.29	62.05	60.91	59.24	
15	58.70	60.35	60.79	61.14	61.61	61.64	62.27	61.88	61.25	62.56	60.90	59.12	
16	58.70	60.39	61.48	60.91	61.92	61.80	62.17	61.85	61.18	62.58	60.89	59.07	
17	58.70	60.33	61.63	60.81	61.89	61.95	62.20	61.76	61.08	62.02	60.87	59.06	
18	58.69	60.19	61.71	60.73	61.82	61.97	62.12	61.63	60.97	61.79	60.86	59.05	
19	58.68	60.13	61.79	60.79	61.64	61.82	62.13	61.51	60.87	61.66	60.85	59.05	
20	58.68	60.39	61.54	61.04	61.44	61.61	62.05	61.39	60.78	61.50	60.82	59.05	
21	58.68	60.31	61.14	61.44	61.93	61.44	61.94	61.53	60.71	61.32	60.76	59.04	
22	58.67	60.23	60.77	61.69	63.45	61.42	62.13	61.65	60.60	61.12	60.70	59.04	
23	58.66	60.15	60.53	61.49	63.75	61.30	62.17	61.73	60.48	60.90	60.63	59.03	
24	58.65	60.15	60.36	61.22	62.58	61.46	61.98	61.74	60.35	60.72	60.52	59.02	
25	58.64	60.16	60.25	61.56	61.91	61.77	62.29	61.71	60.20	60.59	60.40	59.01	
26	58.64	59.95	60.23	62.46	61.62	62.26	62.57	61.67	60.05	60.57	60.30	59.04	
27	58.64	59.88	60.52	61.94	61.68	63.35	62.49	61.69	59.97	60.63	60.27	59.16	
28	58.63	59.82	60.55	61.67	61.85	62.76	62.52	61.71	60.14	60.76	60.19	59.20	
29	58.63	59.78	60.35	61.69	62.68	62.26	62.39	61.69	60.28	60.86		59.27	
30	58.63	59.85	60.33	62.27	62.08	62.02	62.28	61.63	60.39	60.95		59.33	
31		59.85		62.38	62.34		62.23		60.48	61.02		59.34	
Mean	58.70	60.18	60.45	61.14	61.95	62.79	61.97	61.90	61.02	61.16	60.92	59.43	
Max	58.76	61.56	61.79	62.50	63.75	66.14	62.57	62.37	61.75	62.58	61.37	60.14	66.14
Min	58.63	58.63	59.77	59.97	61.44	61.30	61.31	61.39	59.97	60.55	60.19	59.01	58.63

Annual Max Momentary Gage Height	66.28	m. (MSL.) ,	at 21.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	59.00	m. (MSL.) ,	River Bed	56.94	m. (MSL.)
Left Bank Elevation	69.14	m. (MSL.) ,			
Right Bank Elevation	68.97	m. (MSL.) ,	Drainage Area	12769	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	13.00	30.00	177.60	331.00	170.60	127.80	24.55	11.50	17.50	7.40		
2	0.00	0.00	12.10	36.50	158.50	519.20	216.80	152.80	26.50	12.10	18.10	7.00		
3	0.00	0.00	19.65	56.40	158.50	709.40	212.60	138.00	27.40	12.80	18.70	6.50		
4	0.00	6.00	34.00	60.60	143.60	1119.00	159.80	121.00	28.80	13.60	18.55	6.40		
5	0.00	11.50	26.50	50.20	125.60	1195.80	154.60	90.00	29.60	14.30	19.30	5.90		
6	0.00	12.70	23.20	41.50	155.90	1128.60	114.90	87.20	30.00	14.80	19.75	5.50		
7	0.00	104.00	22.00	30.50	148.40	696.20	108.30	95.60	29.20	15.40	20.05	5.50		
8	0.00	118.40	24.00	21.60	202.80	606.40	130.40	117.60	28.00	16.15	20.80	5.30		
9	0.00	87.80	22.40	20.00	200.00	568.00	153.30	160.20	26.20	16.00	21.55	3.80		
10	0.00	111.60	16.50	18.95	162.40	381.10	118.40	163.90	22.75	15.40	20.80	2.90		
11	0.00	135.20	14.40	41.00	142.40	265.40	120.80	58.00	22.00	17.50	20.20	2.55		
12	0.00	74.00	13.00	267.00	137.60	211.20	112.70	32.00	21.25	21.55	19.15	2.15		
13	0.00	47.50	13.35	233.00	149.60	174.80	106.10	40.00	20.80	25.30	16.75	1.40		
14	0.00	38.00	17.55	135.20	143.60	159.80	68.00	38.00	20.35	66.00	15.10	0.70		
15	0.00	36.50	61.30	89.60	141.20	144.80	127.80	40.00	19.75	259.00	15.00	0.30		
16	0.00	38.50	125.60	70.80	181.80	165.00	95.60	37.00	18.70	271.00	14.90	0.17		
17	0.00	35.50	143.60	62.80	177.60	186.00	104.00	30.40	17.20	60.00	14.70	0.15		
18	0.00	28.50	153.30	57.10	167.80	188.80	81.60	25.90	15.70	31.60	14.60	0.12		
19	0.00	25.50	163.70	61.30	144.80	167.80	84.40	23.65	14.70	26.80	14.50	0.12		
20	0.00	38.50	132.80	81.20	120.80	141.20	66.00	21.85	13.80	23.50	14.20	0.12		
21	0.00	34.50	89.60	120.80	183.20	120.80	47.60	23.95	13.10	20.80	13.60	0.10		
22	0.00	30.50	59.90	150.80	454.00	118.40	84.40	26.50	12.00	17.80	13.00	0.10		
23	0.00	26.50	45.50	126.80	521.50	105.00	95.60	29.20	10.80	15.00	12.30	0.07		
24	0.00	26.50	37.00	97.00	279.80	123.20	53.20	29.60	9.50	13.20	11.20	0.05		
25	0.00	27.00	31.50	135.20	180.40	161.10	134.60	28.40	8.00	11.90	10.00	0.02		
26	0.00	18.25	30.50	260.60	142.40	230.00	265.00	27.10	6.50	11.70	9.00	0.10		
27	0.00	15.80	45.00	184.60	149.60	432.00	218.20	27.70	5.70	12.30	8.70	0.40		
28	0.00	13.70	46.50	148.40	172.00	311.40	235.00	28.40	7.40	13.60	7.90	0.50		
29	0.00	12.40	36.50	150.80	296.60	230.00	171.30	27.70	8.80	14.60		0.85		
30	0.00	14.75	35.50	231.50	204.20	195.80	131.20	25.90	9.90	15.50		1.15		
31		14.75		248.00	242.00		114.20		10.80	16.30		1.20		
Total	0.00	1184.35	1509.45	3319.75	5966.20	11087.20	4057.00	1875.35	559.75	1107.00	439.90	68.52	31174.47	CMSDAY
Mean	0.00	38.20	50.32	107.09	192.46	369.57	130.87	62.51	18.06	35.71	15.71	2.21	85.41	CMS
Max	0.00	135.20	163.70	267.00	521.50	1195.80	265.00	163.90	30.00	271.00	21.55	7.40	1195.80	CMS
Min	0.00	0.00	12.10	18.95	120.80	105.00	47.60	21.85	5.70	11.50	7.90	0.02	0.00	CMS
Runoff	0.00	102.33	130.42	286.83	515.48	957.93	350.53	162.03	48.36	95.65	38.01	5.92	2693.48	MCM

Momentary Peak 1240.60 CMS. at 66.28 m. (MSL.) at 21.00 Hours , on Sep 5 , 2014

Runoff Yield 6.69 Liters/Second/Square KM. Momentary Peak Yield 97.157 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

Lat 18 - 45 - 32 N Long 99 - 58 - 33 E

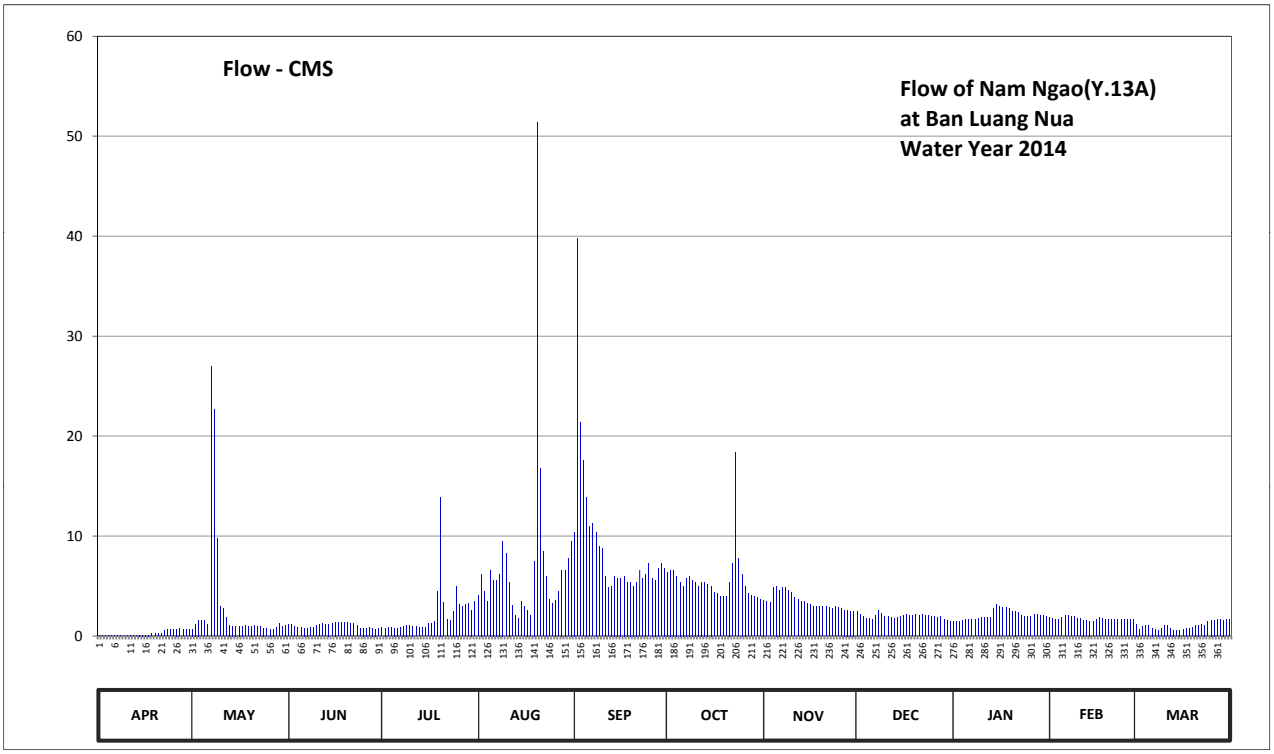
Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

	Ban Luang Nua	**Amphoe** Ngao	**Changwat** Lampang
Drainge Area	381 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+268.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 10 meters from the top staff gage.		**Elevation** +272.644 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1988 - 1995, 2001 to date		
Rating Operation			
Period of Rating	1988 - 1995, 2001 to date		
Rated by Flot	-		
Rated by Current Meter	1988 - 1995, 2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.45	268.90	268.99	268.93	269.33	269.63	269.47	269.29	269.18	269.06	269.12	269.00	
2	268.44	269.00	268.99	268.92	269.46	270.28	269.48	269.28	269.15	269.05	269.11	268.89	
3	268.43	269.08	268.95	268.93	269.36	269.93	269.48	269.27	269.13	269.05	269.10	268.95	
4	268.42	269.07	268.94	268.94	269.28	269.84	269.45	269.39	269.11	269.08	269.09	268.97	
5	268.43	269.07	268.93	268.92	269.48	269.74	269.42	269.40	269.11	269.10	269.12	268.97	
6	268.44	268.99	268.92	268.92	269.43	269.65	269.40	269.37	269.10	269.09	269.14	268.92	
7	268.45	270.05	268.92	268.93	269.43	269.66	269.44	269.39	269.14	269.10	269.14	268.86	
8	268.44	269.96	268.93	268.96	269.46	269.63	269.45	269.39	269.20	269.09	269.13	268.85	
9	268.43	269.61	268.94	268.98	269.60	269.58	269.43	269.37	269.16	269.11	269.13	268.91	
10	268.43	269.23	268.97	268.97	269.55	269.57	269.42	269.35	269.13	269.12	269.11	268.98	
11	268.44	269.21	268.99	268.96	269.42	269.45	269.40	269.31	269.13	269.12	269.11	268.97	
12	268.46	269.12	269.01	268.95	269.24	269.39	269.42	269.30	269.12	269.12	269.08	268.92	
13	268.48	268.98	268.99	268.94	269.14	269.40	269.42	269.28	269.11	269.12	269.07	268.85	
14	268.50	268.96	269.00	268.94	269.11	269.45	269.41	269.28	269.12	269.21	269.06	268.84	
15	268.50	268.96	269.02	268.93	269.28	269.44	269.40	269.26	269.13	269.25	269.05	268.85	
16	268.50	268.96	269.04	269.02	269.23	269.44	269.35	269.25	269.14	269.23	269.09	268.87	
17	268.51	268.96	269.03	269.01	269.20	269.45	269.34	269.23	269.15	269.22	269.12	268.92	
18	268.62	268.97	269.03	269.06	269.14	269.42	269.32	269.23	269.14	269.22	269.11	268.91	
19	268.68	268.95	269.03	269.36	269.52	269.42	269.32	269.23	269.14	269.21	269.10	268.94	
20	268.67	268.96	269.03	269.74	270.44	269.40	269.32	269.23	269.15	269.18	269.09	268.98	
21	268.69	268.97	269.01	269.27	269.82	269.42	269.42	269.23	269.14	269.19	269.09	268.98	
22	268.83	268.95	269.01	269.10	269.56	269.48	269.51	269.22	269.15	269.17	269.09	268.99	
23	268.89	268.95	268.97	269.07	269.45	269.44	269.86	269.21	269.14	269.14	269.09	268.98	
24	268.89	268.92	268.91	269.19	269.30	269.46	269.53	269.23	269.14	269.13	269.10	269.05	
25	268.89	268.91	268.92	269.40	269.26	269.51	269.46	269.22	269.13	269.13	269.10	269.08	
26	268.90	268.90	268.92	269.25	269.29	269.44	269.40	269.21	269.13	269.13	269.09	269.08	
27	268.91	268.90	268.93	269.23	269.36	269.43	269.34	269.20	269.12	269.15	269.10	269.09	
28	268.87	268.93	268.92	269.25	269.48	269.49	269.33	269.20	269.13	269.15	269.10	269.09	
29	268.86	269.02	268.90	269.26	269.48	269.51	269.32	269.19	269.10	269.14		269.08	
30	268.87	268.95	268.91	269.20	269.53	269.49	269.31	269.19	269.07	269.14		269.10	
31		268.98		269.28	269.60		269.30		269.06	269.13		269.09	
Mean	268.61	269.08	268.97	269.09	269.43	269.55	269.42	269.27	269.13	269.14	269.10	268.97	
Max	268.91	270.05	269.04	269.74	270.44	270.28	269.86	269.40	269.20	269.25	269.14	269.10	270.44
Min	268.42	268.90	268.90	268.92	269.11	269.39	269.30	269.19	269.06	269.05	269.05	268.84	268.42

Annual Max Momentary Gage Height	270.85	m. (MSL.) ,	at 05.00 Hours , on Aug 20 , 2014		
Zero Gage at Bottom Elevation	268.30	m. (MSL.) ,	River Bed	268.32	m. (MSL.)
Left Bank Elevation	274.81	m. (MSL.) ,			
Right Bank Elevation	274.81	m. (MSL.) ,	Drainage Area	381	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	0.70	1.15	0.85	4.09	10.40	6.40	3.59	2.42	1.50	1.88	1.20		
2	0.04	1.20	1.15	0.80	6.20	39.80	6.60	3.48	2.15	1.45	1.79	0.68		
3	0.03	1.60	0.95	0.85	4.48	21.35	6.60	3.37	1.97	1.45	1.70	0.95		
4	0.02	1.55	0.90	0.90	3.48	17.60	6.00	4.87	1.79	1.60	1.65	1.05		
5	0.03	1.55	0.85	0.80	6.60	13.90	5.40	5.00	1.79	1.70	1.88	1.05		
6	0.04	1.15	0.80	0.80	5.60	11.00	5.00	4.61	1.70	1.65	2.06	0.80		
7	0.05	27.00	0.80	0.85	5.60	11.30	5.80	4.87	2.06	1.70	2.06	0.62		
8	0.04	22.70	0.85	1.00	6.20	10.40	6.00	4.87	2.60	1.65	1.97	0.60		
9	0.03	9.80	0.90	1.10	9.50	9.00	5.60	4.61	2.24	1.79	1.97	0.75		
10	0.03	2.93	1.05	1.05	8.25	8.75	5.40	4.35	1.97	1.88	1.79	1.10		
11	0.04	2.71	1.15	1.00	5.40	6.00	5.00	3.83	1.97	1.88	1.79	1.05		
12	0.06	1.88	1.25	0.95	3.04	4.87	5.40	3.70	1.88	1.88	1.60	0.80		
13	0.08	1.10	1.15	0.90	2.06	5.00	5.40	3.48	1.79	1.88	1.55	0.60		
14	0.10	1.00	1.20	0.90	1.79	6.00	5.20	3.48	1.88	2.71	1.50	0.58		
15	0.10	1.00	1.30	0.85	3.48	5.80	5.00	3.26	1.97	3.15	1.45	0.60		
16	0.10	1.00	1.40	1.30	2.93	5.80	4.35	3.15	2.06	2.93	1.65	0.64		
17	0.11	1.00	1.35	1.25	2.60	6.00	4.22	2.93	2.15	2.82	1.88	0.80		
18	0.22	1.05	1.35	1.50	2.06	5.40	3.96	2.93	2.06	2.82	1.79	0.75		
19	0.28	0.95	1.35	4.48	7.50	5.40	3.96	2.93	2.06	2.71	1.70	0.90		
20	0.27	1.00	1.35	13.90	51.40	5.00	3.96	2.93	2.15	2.42	1.65	1.10		
21	0.29	1.05	1.25	3.37	16.80	5.40	5.40	2.93	2.06	2.51	1.65	1.10		
22	0.56	0.95	1.25	1.70	8.50	6.60	7.25	2.82	2.15	2.33	1.65	1.15		
23	0.68	0.95	1.05	1.55	6.00	5.80	18.40	2.71	2.06	2.06	1.65	1.10		
24	0.68	0.80	0.75	2.51	3.70	6.20	7.75	2.93	2.06	1.97	1.70	1.45		
25	0.68	0.75	0.80	5.00	3.26	7.25	6.20	2.82	1.97	1.97	1.70	1.60		
26	0.70	0.70	0.80	3.15	3.59	5.80	5.00	2.71	1.97	1.97	1.65	1.60		
27	0.75	0.70	0.85	2.93	4.48	5.60	4.22	2.60	1.88	2.15	1.70	1.65		
28	0.64	0.85	0.80	3.15	6.60	6.80	4.09	2.60	1.97	2.15	1.70	1.65		
29	0.62	1.30	0.70	3.26	6.60	7.25	3.96	2.51	1.70	2.06		1.60		
30	0.64	0.95	0.75	2.60	7.75	6.80	3.83	2.51	1.55	2.06		1.70		
31		1.10		3.48	9.50		3.70		1.50	1.97		1.65		
Total	7.96	92.97	31.25	68.73	219.04	272.27	175.05	103.38	61.53	64.77	48.71	32.87	1178.53	CMSDAY
Mean	0.27	3.00	1.04	2.22	7.07	9.08	5.65	3.45	1.98	2.09	1.74	1.06	3.23	CMS
Max	0.75	27.00	1.40	13.90	51.40	39.80	18.40	5.00	2.60	3.15	2.06	1.70	51.40	CMS
Min	0.02	0.70	0.70	0.80	1.79	4.87	3.70	2.51	1.50	1.45	1.45	0.58	0.02	CMS
Runoff	0.69	8.03	2.70	5.94	18.93	23.52	15.12	8.93	5.32	5.60	4.21	2.84	101.83	MCM

Momentary Peak 99.25 CMS. at 270.85 m. (MSL.) at 05.00 Hours , on Aug 20 , 2014

Runoff Yield 8.47 Liters/Second/Square KM. Momentary Peak Yield 260.499 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

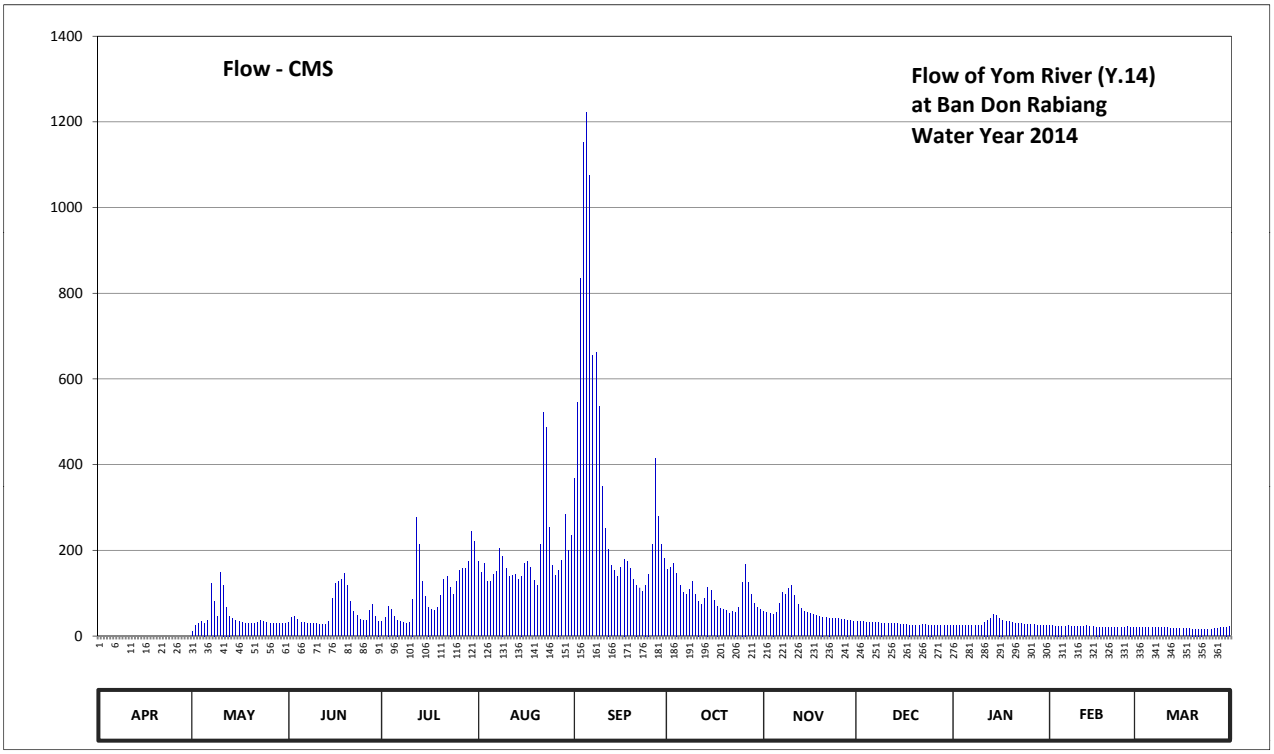
Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	Ban Don Rabiang	**Amphoe** Si Satchanalai	**Changwat** Sukhothai		
Drainge Area	12,100 sq.km.				
Type of Gage	Staff gage				
Zero Gage at Bottom	+65.100 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	In front of gage observer's house.		**Elevation** +78.363 m. (MSL.)		
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	1964 to date				
Rating Operation					
Period of Rating	1964 to date				
Rated by Flot	-				
Rated by Current Meter	1964 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.60	65.60	66.28	66.32	68.14	69.64	67.98	66.80	66.35	66.08	66.07	65.98	
2	64.60	66.09	66.53	66.55	67.91	70.66	68.01	66.77	66.33	66.08	66.07	65.98	
3	64.60	66.22	66.59	67.00	68.10	72.05	68.10	66.72	66.33	66.08	66.05	65.98	
4	64.60	66.34	66.45	66.87	67.70	73.39	67.89	66.71	66.31	66.11	66.05	65.96	
5	64.60	66.25	66.30	66.60	67.70	73.67	67.60	66.76	66.30	66.11	66.05	65.95	
6	64.60	66.38	66.27	66.42	67.85	73.08	67.40	67.07	66.30	66.11	66.05	65.95	
7	64.60	67.65	66.20	66.34	67.92	71.22	67.35	67.40	66.29	66.08	66.07	65.95	
8	64.60	67.16	66.20	66.29	68.42	71.25	67.49	67.35	66.27	66.08	66.04	65.95	
9	64.60	66.60	66.22	66.23	68.26	70.61	67.69	67.52	66.25	66.08	66.03	65.93	
10	64.60	67.91	66.19	66.27	68.00	69.51	67.36	67.61	66.23	66.11	66.03	65.93	
11	64.59	67.61	66.15	67.22	67.80	68.81	67.16	67.32	66.23	66.31	66.02	65.93	
12	64.58	66.97	66.14	69.00	67.83	68.41	67.05	67.04	66.22	66.42	66.04	65.90	
13	64.58	66.61	66.17	68.49	67.85	68.06	67.24	66.92	66.20	66.48	66.08	65.89	
14	64.57	66.49	66.32	67.70	67.75	67.95	67.56	66.82	66.19	66.68	66.04	65.89	
15	64.57	66.40	67.23	67.29	67.82	67.81	67.47	66.76	66.17	66.64	66.00	65.87	
16	64.56	66.34	67.65	66.97	68.11	68.02	67.17	66.72	66.16	66.52	65.99	65.86	
17	64.56	66.28	67.69	66.87	68.14	68.20	67.00	66.67	66.15	66.42	65.99	65.86	
18	64.56	66.23	67.74	66.84	68.02	68.15	66.91	66.64	66.12	66.35	65.97	65.86	
19	64.56	66.20	67.88	66.96	67.72	68.00	66.89	66.60	66.11	66.32	65.97	65.85	
20	64.56	66.20	67.59	67.33	67.60	67.74	66.83	66.57	66.10	66.30	65.97	65.85	
21	64.56	66.21	67.14	67.73	68.49	67.61	66.73	66.54	66.10	66.25	65.97	65.84	
22	64.56	66.29	66.79	67.80	70.54	67.54	66.79	66.52	66.14	66.22	65.97	65.84	
23	64.56	66.37	66.62	67.56	70.35	67.43	66.78	66.50	66.14	66.22	65.97	65.83	
24	64.56	66.34	66.47	67.35	68.83	67.61	66.94	66.48	66.12	66.18	65.97	65.82	
25	64.56	66.29	66.39	67.70	68.06	67.87	67.68	66.48	66.12	66.15	65.98	65.81	
26	64.56	66.24	66.42	67.95	67.84	68.50	68.09	66.45	66.11	66.13	66.00	65.88	
27	64.56	66.24	66.83	68.00	67.96	69.93	67.67	66.43	66.11	66.13	65.99	65.90	
28	64.56	66.24	67.05	68.00	68.16	69.01	67.35	66.42	66.11	66.11	65.98	65.94	
29	64.56	66.23	66.59	68.14	69.05	68.50	67.09	66.39	66.11	66.09		65.97	
30	64.56	66.19	66.36	68.75	68.38	68.21	66.94	66.35	66.11	66.09		65.99	
31		66.20		68.56	68.68		66.88		66.09	66.07		66.04	
Mean	64.58	66.46	66.68	67.33	68.23	69.28	67.33	66.78	66.19	66.23	66.01	65.91	
Max	64.60	67.91	67.88	69.00	70.54	73.67	68.10	67.61	66.35	66.68	66.08	66.04	73.67
Min	64.56	65.60	66.14	66.23	67.60	67.43	66.73	66.35	66.09	66.07	65.97	65.81	64.56

Annual Max Momentary Gage Height	73.80	m. (MSL.) ,	at 19.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	65.10	m. (MSL.) ,	River Bed	62.85	m. (MSL.)
Left Bank Elevation	76.44	m. (MSL.) ,			
Right Bank Elevation	76.24	m. (MSL.) ,	Drainage Area	12100	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	10.00	31.70	33.30	173.40	369.00	156.00	57.00	34.50	24.30	23.95	20.80		
2	0.00	24.65	42.50	43.50	149.00	545.40	159.10	55.20	33.70	24.30	23.95	20.80		
3	0.00	29.30	45.50	70.00	169.00	835.00	169.00	52.20	33.70	24.30	23.25	20.80		
4	0.00	34.10	38.75	61.20	128.00	1152.50	147.00	51.60	32.90	25.35	23.25	20.10		
5	0.00	30.50	32.50	46.00	128.00	1222.50	118.00	54.60	32.50	25.35	23.25	19.75		
6	0.00	35.70	31.30	37.40	143.00	1075.00	101.00	74.90	32.50	25.35	23.25	19.75		
7	0.00	123.00	28.50	34.10	150.00	655.20	97.00	101.00	32.10	24.30	23.95	19.75		
8	0.00	81.80	28.50	32.10	204.40	661.50	108.20	97.00	31.30	24.30	22.90	19.75		
9	0.00	46.00	29.30	29.70	186.60	535.90	127.00	110.80	30.50	24.30	22.55	19.05		
10	0.00	149.00	28.15	31.30	158.00	349.50	97.80	119.00	29.70	25.35	22.55	19.05		
11	0.00	119.00	26.75	86.60	138.00	251.30	81.80	94.60	29.70	32.90	22.20	19.05		
12	0.00	67.90	26.40	277.00	141.00	203.20	73.50	72.80	29.30	37.40	22.90	18.00		
13	0.00	46.50	27.45	212.80	143.00	164.60	88.20	64.40	28.50	40.10	24.30	17.70		
14	0.00	40.55	33.30	128.00	133.00	153.00	114.40	58.20	28.15	50.00	22.90	17.70		
15	0.00	36.50	87.40	92.20	140.00	139.00	106.60	54.60	27.45	48.00	21.50	17.10		
16	0.00	34.10	123.00	67.90	170.10	160.20	82.60	52.20	27.10	42.00	21.15	16.80		
17	0.00	31.70	127.00	61.20	173.40	180.00	70.00	49.50	26.75	37.40	21.15	16.80		
18	0.00	29.70	132.00	59.40	160.20	174.50	63.70	48.00	25.70	34.50	20.45	16.80		
19	0.00	28.50	146.00	67.20	130.00	158.00	62.40	46.00	25.35	33.30	20.45	16.50		
20	0.00	28.50	117.10	95.40	118.00	132.00	58.80	44.50	25.00	32.50	20.45	16.50		
21	0.00	28.90	80.20	131.00	212.80	119.00	52.80	43.00	25.00	30.50	20.45	16.20		
22	0.00	32.10	56.40	138.00	522.60	112.60	56.40	42.00	26.40	29.30	20.45	16.20		
23	0.00	35.30	47.00	114.40	487.00	103.40	55.80	41.00	26.40	29.30	20.45	15.90		
24	0.00	34.10	39.65	97.00	253.90	119.00	65.80	40.10	25.70	27.80	20.45	15.60		
25	0.00	32.10	36.10	128.00	164.60	145.00	126.00	40.10	25.70	26.75	20.80	15.30		
26	0.00	30.10	37.40	153.00	142.00	214.00	167.90	38.75	25.35	26.05	21.50	17.40		
27	0.00	30.10	58.80	158.00	154.00	414.80	125.00	37.85	25.35	26.05	21.15	18.00		
28	0.00	30.10	73.50	158.00	175.60	278.40	97.00	37.40	25.35	25.35	20.80	19.40		
29	0.00	29.70	45.50	173.40	284.00	214.00	76.30	36.10	25.35	24.65		20.45		
30	0.00	28.15	34.90	244.00	199.80	181.10	65.80	34.50	25.35	24.65		21.15		
31		28.50		221.20	235.60		61.80		24.65	23.95		22.90		
Total	0.00	1366.15	1692.55	3282.30	5868.00	11018.60	3032.70	1748.90	877.00	929.65	616.35	571.05	31003.25	CMSDAY
Mean	0.00	44.07	56.42	105.88	189.29	367.29	97.83	58.30	28.29	29.99	22.01	18.42	84.94	CMS
Max	0.00	149.00	146.00	277.00	522.60	1222.50	169.00	119.00	34.50	50.00	24.30	22.90	1222.50	CMS
Min	0.00	10.00	26.40	29.70	118.00	103.40	52.80	34.50	24.65	23.95	20.45	15.30	0.00	CMS
Runoff	0.00	118.04	146.24	283.59	507.00	952.01	262.03	151.11	75.77	80.32	53.25	49.34	2678.68	MCM

Momentary Peak 1256.00 CMS. at 73.80 m. (MSL.) at 19.00 Hours , on Sep 5 , 2014

Runoff Yield 7.02 Liters/Second/Square KM. Momentary Peak Yield 103.802 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

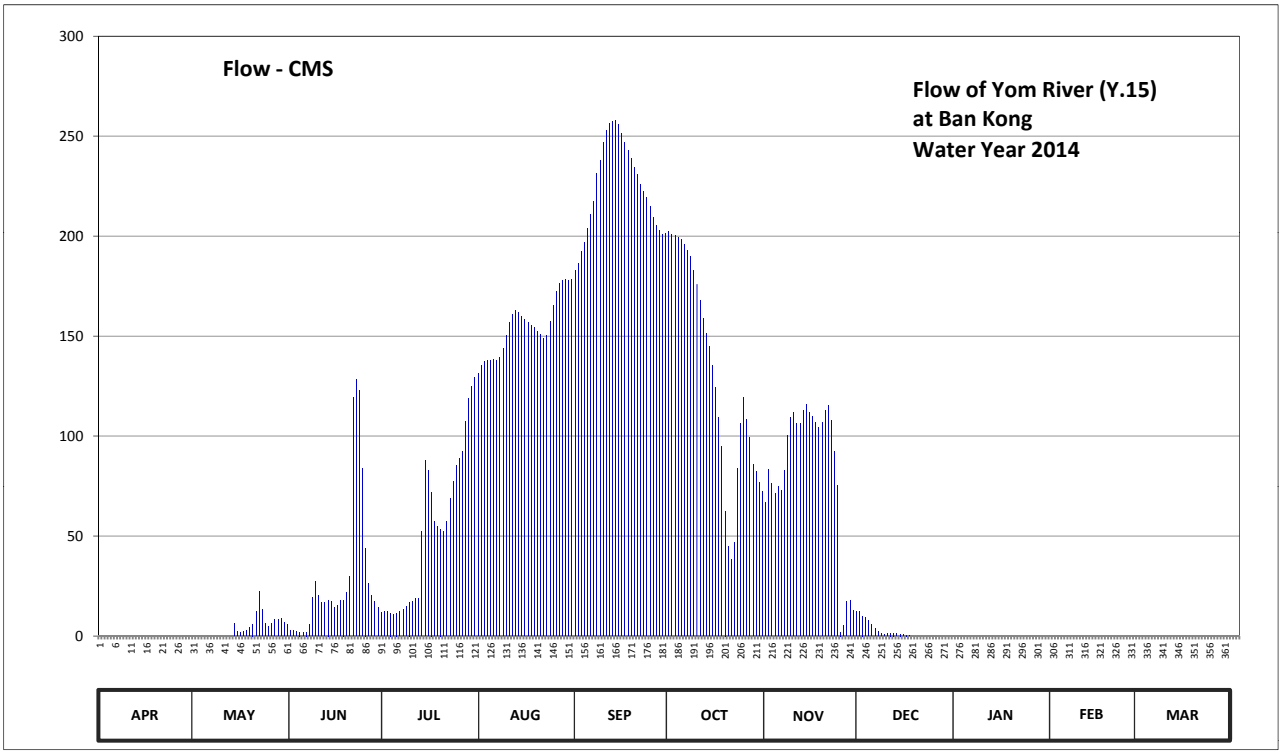
Location : on left bank at Ban Kong.

	Ban Kong	**Amphoe** Kong Krailat	**Changwat** Sukhothai
Drainge Area	19,936 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+35.320 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+42.320 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	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.23	35.35	40.81	37.97	42.21	43.23	43.49	40.95	41.16	39.63	39.51	38.37	
2	35.23	35.37	40.83	37.97	42.25	43.33	43.48	40.76	41.13	39.59	39.47	38.30	
3	35.24	35.47	40.78	37.92	42.26	43.42	43.46	40.61	41.07	39.53	39.44	38.26	
4	35.25	35.40	40.75	37.85	42.26	43.54	43.44	40.71	40.98	39.46	39.43	38.19	
5	35.26	35.36	40.74	37.92	42.28	43.67	43.40	40.65	40.88	39.39	39.41	38.11	
6	35.26	35.36	40.75	37.97	42.27	43.79	43.34	40.93	40.77	39.32	39.36	38.04	
7	35.27	35.35	40.99	38.04	42.30	44.04	43.29	41.39	40.68	39.23	39.33	37.97	
8	35.27	35.33	41.43	38.16	42.39	44.15	43.16	41.61	40.59	39.10	39.31	37.89	
9	35.28	35.35	41.59	38.30	42.52	44.31	43.03	41.67	40.63	39.04	39.28	37.79	
10	35.28	35.35	41.45	38.33	42.65	44.41	42.87	41.54	40.70	39.03	39.23	37.66	
11	35.29	35.35	41.37	38.42	42.73	44.47	42.69	41.53	40.70	39.10	39.18	37.54	
12	35.29	35.35	41.37	38.42	42.77	44.49	42.54	41.70	40.65	39.19	39.15	37.46	
13	35.34	36.55	41.40	40.01	42.75	44.50	42.41	41.77	40.61	39.23	39.13	37.39	
14	35.35	41.01	41.38	41.07	42.71	44.46	42.21	41.67	40.56	39.29	39.05	37.29	
15	35.35	40.79	41.31	40.93	42.68	44.39	41.96	41.62	40.51	39.33	38.95	37.24	
16	35.36	40.71	41.33	40.63	42.65	44.31	41.61	41.55	40.45	39.35	38.86	37.14	
17	35.36	40.80	41.39	40.18	42.62	44.24	41.25	41.48	40.37	39.39	38.79	37.06	
18	35.36	40.83	41.40	40.09	42.60	44.17	40.34	41.55	40.31	39.42	38.74	36.99	
19	35.36	40.92	41.48	40.05	42.56	44.09	39.74	41.70	40.25	39.45	38.70	36.90	
20	35.36	41.00	41.63	40.01	42.53	44.03	39.47	41.75	40.21	39.48	38.66	36.73	
21	35.37	41.25	41.85	40.17	42.49	43.94	39.82	41.57	40.16	39.53	38.59	36.65	
22	35.37	41.49	42.05	40.53	42.52	43.88	40.97	41.18	40.12	39.53	38.56	36.61	
23	35.37	41.27	41.93	40.78	42.66	43.82	41.54	40.73	40.08	39.56	38.55	36.57	
24	35.36	41.01	40.96	41.01	42.82	43.74	41.85	40.75	40.03	39.59	38.52	36.54	
25	35.35	40.94	39.70	41.09	42.96	43.64	41.59	40.97	39.99	39.59	38.49	36.51	
26	35.35	41.02	38.88	41.18	43.04	43.57	41.36	41.38	39.93	39.59	38.48	36.49	
27	35.34	41.10	38.51	41.56	43.07	43.52	41.02	41.39	39.87	39.57	38.44	36.45	
28	35.34	41.09	38.32	41.84	43.08	43.49	40.92	41.26	39.85	39.56	38.41	36.38	
29	35.35	41.11	38.12	41.98	43.07	43.50	40.77	41.25	39.81	39.54		36.24	
30	35.36	41.03	37.94	42.07	43.08	43.51	40.64	41.24	39.75	39.54		36.12	
31		40.99		42.12	43.16		40.47		39.68	39.54		36.07	
Mean	35.32	38.69	40.75	39.82	42.64	43.92	41.88	41.30	40.40	39.41	38.97	37.19	
Max	35.37	41.49	42.05	42.12	43.16	44.50	43.49	41.77	41.16	39.63	39.51	38.37	44.50
Min	35.23	35.33	37.94	37.85	42.21	43.23	39.47	40.61	39.68	39.03	38.41	36.07	35.23

Annual Max Momentary Gage Height	44.50	m. (MSL.) ,	at 15.00 Hours , on Sep 12 , 2014		
Zero Gage at Bottom Elevation	35.32	m. (MSL.) ,	River Bed	32.86	m. (MSL.)
Left Bank Elevation	44.97	m. (MSL.) ,			
Right Bank Elevation	44.96	m. (MSL.) ,	Drainage Area	19936	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.65	12.13	135.45	186.65	200.95	83.37	10.00	0.00	0.00	0.00		
2	0.00	0.00	2.95	12.13	137.25	192.15	200.40	76.60	9.25	0.00	0.00	0.00		
3	0.00	0.00	2.30	11.50	137.70	197.10	199.30	71.35	7.75	0.00	0.00	0.00		
4	0.00	0.00	2.00	10.62	137.70	203.70	198.20	74.85	5.60	0.00	0.00	0.00		
5	0.00	0.00	1.90	11.50	138.60	210.85	196.00	72.75	3.70	0.00	0.00	0.00		
6	0.00	0.00	2.00	12.13	138.15	217.45	192.70	82.62	2.20	0.00	0.00	0.00		
7	0.00	0.00	5.80	13.10	139.50	231.30	189.95	100.60	1.40	0.00	0.00	0.00		
8	0.00	0.00	19.35	14.90	144.00	237.63	182.80	109.40	0.95	0.00	0.00	0.00		
9	0.00	0.00	27.45	17.00	150.50	246.83	176.00	111.80	1.15	0.00	0.00	0.00		
10	0.00	0.00	20.25	17.45	157.00	252.60	168.00	106.60	1.50	0.00	0.00	0.00		
11	0.00	0.00	16.80	18.80	161.00	256.20	159.00	106.20	1.50	0.00	0.00	0.00		
12	0.00	0.00	16.80	18.80	163.00	257.40	151.50	113.00	1.25	0.00	0.00	0.00		
13	0.00	0.00	18.00	52.30	162.00	258.00	145.00	115.97	1.05	0.00	0.00	0.00		
14	0.00	6.25	17.20	87.88	160.00	255.60	135.45	111.80	0.80	0.00	0.00	0.00		
15	0.00	2.40	14.40	82.62	158.50	251.42	124.20	109.80	0.55	0.00	0.00	0.00		
16	0.00	1.60	15.20	72.05	157.00	246.83	109.40	107.00	0.25	0.00	0.00	0.00		
17	0.00	2.50	17.60	57.40	155.50	242.80	95.00	104.20	0.00	0.00	0.00	0.00		
18	0.00	2.95	18.00	54.70	154.50	238.77	62.55	107.00	0.00	0.00	0.00	0.00		
19	0.00	4.40	21.60	53.50	152.50	234.17	45.00	113.00	0.00	0.00	0.00	0.00		
20	0.00	6.00	29.95	52.30	151.00	230.72	38.33	115.12	0.00	0.00	0.00	0.00		
21	0.00	12.50	119.37	57.10	149.00	225.70	47.00	107.80	0.00	0.00	0.00	0.00		
22	0.00	22.05	128.25	68.72	150.50	222.40	84.13	92.20	0.00	0.00	0.00	0.00		
23	0.00	13.10	122.85	77.30	157.50	219.10	106.60	75.55	0.00	0.00	0.00	0.00		
24	0.00	6.25	83.75	85.62	165.50	214.70	119.37	2.00	0.00	0.00	0.00	0.00		
25	0.00	4.80	44.00	88.63	172.50	209.20	108.60	5.40	0.00	0.00	0.00	0.00		
26	0.00	6.50	26.40	92.20	176.50	205.35	99.40	17.20	0.00	0.00	0.00	0.00		
27	0.00	8.50	20.15	107.40	178.00	202.60	86.00	17.60	0.00	0.00	0.00	0.00		
28	0.00	8.25	17.30	118.95	178.50	200.95	82.25	12.80	0.00	0.00	0.00	0.00		
29	0.00	8.75	14.30	125.10	178.00	201.50	76.95	12.50	0.00	0.00		0.00		
30	0.00	6.75	11.75	129.15	178.50	202.05	72.40	12.20	0.00	0.00		0.00		
31		5.80		131.40	182.80		66.78		0.00	0.00		0.00		
Total	0.00	129.35	860.32	1764.38	4858.15	6751.72	3919.21	2348.28	48.90	0.00	0.00	0.00	20680.31	CMSDAY
Mean	0.00	4.17	28.68	56.92	156.71	225.06	126.43	78.28	1.58	0.00	0.00	0.00	56.66	CMS
Max	0.00	22.05	128.25	131.40	182.80	258.00	200.95	115.97	10.00	0.00	0.00	0.00	258.00	CMS
Min	0.00	0.00	1.90	10.62	135.45	186.65	38.33	2.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	11.18	74.33	152.44	419.74	583.35	338.62	202.89	4.23	0.00	0.00	0.00	1786.78	MCM

Momentary Peak 258.00 CMS. at 44.50 m. (MSL.) at 15.00 Hours , on Sep 12 , 2014

Runoff Yield 2.84 Liters/Second/Square KM. Momentary Peak Yield 12.941 Liters/Second/Square KM.

WATER YEAR : 2014

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.

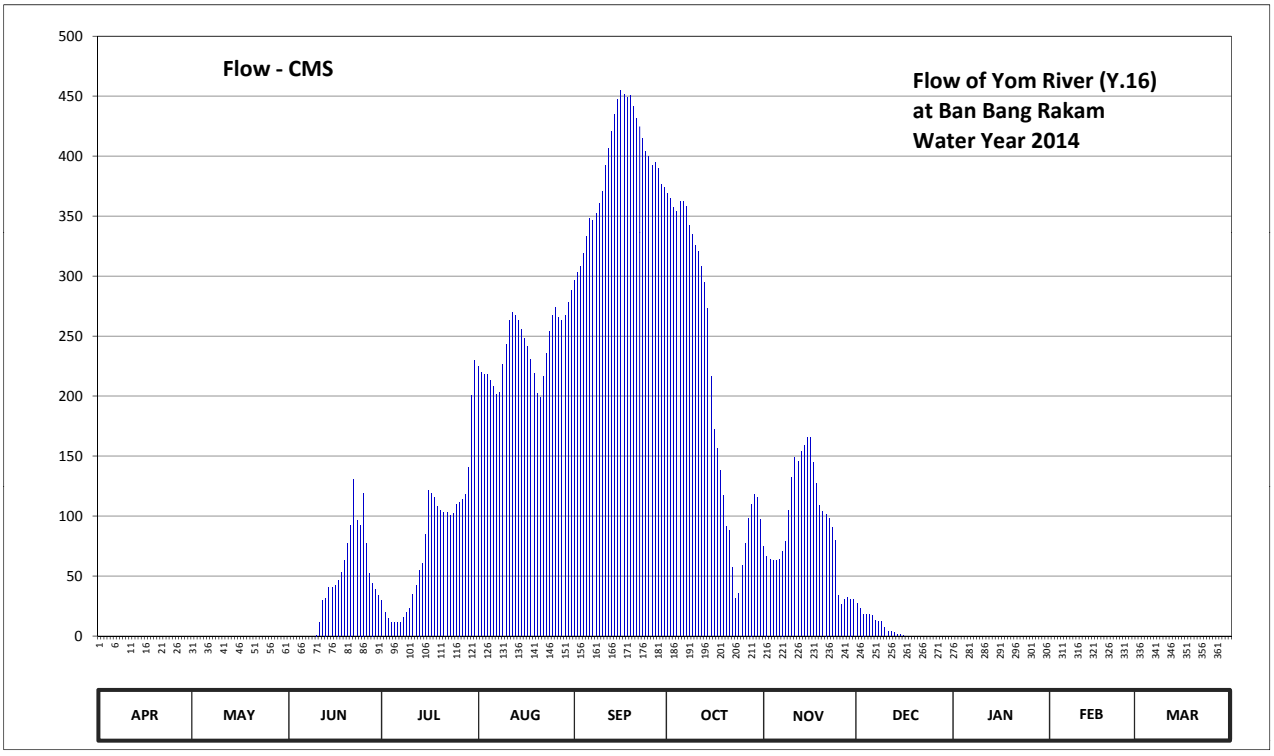
Ban Bang Rakam **Amphoe** Bang Rakam **Changwat** Phitsanulok

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** +43.630 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 Flot	-
Rated by Current Meter	1967 , 1995 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +39.130 m. (MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2014.
Remark	The construction of the stations surveyed volume.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.92	31.88	31.88	33.93	37.29	38.02	38.66	35.03	33.85	32.05	31.68	32.13	
2	31.92	31.88	31.88	33.63	37.23	38.08	38.62	34.87	33.73	32.06	31.68	32.13	
3	31.92	31.88	31.88	33.46	37.21	38.13	38.56	34.80	33.58	32.06	31.68	32.13	
4	31.92	31.89	31.88	33.35	37.21	38.23	38.53	34.78	33.56	32.06	31.68	32.13	
5	31.92	31.89	31.88	33.35	37.16	38.35	38.60	34.79	33.56	32.06	31.68	32.13	
6	31.92	31.89	32.11	33.34	37.10	38.48	38.60	34.81	33.54	32.07	31.68	32.13	
7	31.92	31.89	32.65	33.35	37.03	38.47	38.57	34.96	33.40	32.07	31.68	32.13	
8	31.92	31.89	32.65	33.49	37.05	38.52	38.43	35.12	33.37	32.07	31.68	32.13	
9	31.92	31.89	32.65	33.63	37.31	38.59	38.37	35.61	33.37	32.08	31.68	32.13	
10	31.92	31.89	32.86	33.73	37.49	38.67	38.29	36.09	33.20	32.08	31.68	32.13	
11	31.92	31.89	33.35	34.08	37.69	38.84	38.24	36.34	33.02	32.08	31.68	32.13	
12	31.92	31.88	33.93	34.27	37.76	38.95	38.13	36.30	33.02	32.09	31.68	32.13	
13	31.92	31.88	33.99	34.60	37.73	39.06	38.00	36.41	32.98	32.05	31.68	32.13	
14	31.92	31.88	34.23	34.73	37.69	39.17	37.79	36.48	32.90	31.97	31.68	32.13	
15	31.92	31.88	34.23	35.24	37.62	39.26	37.19	36.58	32.87	31.86	31.68	32.13	
16	31.92	31.88	34.28	35.91	37.54	39.31	36.67	36.58	32.82	31.76	31.68	32.13	
17	31.92	31.88	34.39	35.86	37.47	39.29	36.45	36.28	32.78	31.70	31.68	32.13	
18	31.92	31.88	34.54	35.81	37.35	39.27	36.19	36.00	32.75	31.80	31.68	32.13	
19	31.90	31.88	34.78	35.67	37.22	39.28	35.83	35.69	32.51	31.68	31.68	32.13	
20	31.90	31.88	35.09	35.61	37.04	39.22	35.37	35.59	32.47	31.68	31.68	32.13	
21	31.90	31.88	35.39	35.58	37.00	39.14	35.30	35.56	32.41	31.68	31.68	32.13	
22	31.90	31.88	36.06	35.58	37.19	39.09	34.66	35.49	32.35	31.68	31.68	32.13	
23	31.90	31.88	35.46	35.53	37.41	39.01	33.98	35.35	32.29	31.68	31.68	32.13	
24	31.88	31.88	35.39	35.57	37.60	38.93	34.10	35.13	32.24	31.68	31.68	32.13	
25	31.88	31.88	35.87	35.70	37.73	38.90	34.69	34.06	32.19	31.68	31.68	32.13	
26	31.88	31.88	35.08	35.74	37.80	38.84	35.09	33.83	32.13	31.68	31.68	32.13	
27	31.88	31.88	34.53	35.78	37.72	38.86	35.49	33.95	32.10	31.68	31.68	32.13	
28	31.88	31.88	34.33	35.85	37.69	38.82	35.71	34.00	32.07	31.68	31.68	32.13	
29	31.88	31.88	34.20	36.22	37.73	38.72	35.85	33.97	32.04	31.68		32.13	
30	31.88	31.88	34.05	37.02	37.84	38.70	35.81	33.95	32.03	31.68		32.13	
31		31.88		37.34	37.94		35.48		32.03	31.68		32.13	
Mean	31.91	31.88	33.85	34.93	37.45	38.81	36.81	35.28	32.81	31.86	31.68	32.13	
Max	31.92	31.89	36.06	37.34	37.94	39.31	38.66	36.58	33.85	32.09	31.68	32.13	39.31
Min	31.88	31.88	31.88	33.34	37.00	38.02	33.98	33.83	32.03	31.68	31.68	32.13	31.68

Annual Max Momentary Gage Height	39.31	m. (MSL.) ,	at 12.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	31.63	m. (MSL.) ,	River Bed	31.04	m. (MSL.)
Left Bank Elevation	39.13	m. (MSL.) ,			
Right Bank Elevation	43.06	m. (MSL.) ,	Drainage Area	20201	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	29.55	225.10	296.60	369.20	74.50	26.75	0.00	0.00	0.00		
2	0.00	0.00	0.00	19.90	219.70	302.90	364.40	66.65	22.90	0.00	0.00	0.00		
3	0.00	0.00	0.00	14.80	217.90	308.30	357.20	63.50	18.40	0.00	0.00	0.00		
4	0.00	0.00	0.00	11.50	217.90	319.30	353.60	62.60	17.80	0.00	0.00	0.00		
5	0.00	0.00	0.00	11.50	213.40	332.75	362.00	63.05	17.80	0.00	0.00	0.00		
6	0.00	0.00	0.00	11.20	208.00	347.70	362.00	63.95	17.20	0.00	0.00	0.00		
7	0.00	0.00	0.00	11.50	201.70	346.55	358.40	71.00	13.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	15.70	203.50	352.40	341.95	79.00	12.10	0.00	0.00	0.00		
9	0.00	0.00	0.00	19.90	226.90	360.80	335.05	104.55	12.10	0.00	0.00	0.00		
10	0.00	0.00	0.90	22.90	243.10	370.40	325.90	132.40	7.50	0.00	0.00	0.00		
11	0.00	0.00	11.50	34.80	263.00	392.20	320.40	148.80	3.90	0.00	0.00	0.00		
12	0.00	0.00	29.55	41.80	270.00	406.50	308.30	146.00	3.90	0.00	0.00	0.00		
13	0.00	0.00	31.65	55.00	267.00	420.80	294.50	153.70	3.10	0.00	0.00	0.00		
14	0.00	0.00	40.20	60.35	263.00	435.10	273.00	158.60	1.50	0.00	0.00	0.00		
15	0.00	0.00	40.20	85.00	256.00	447.40	216.10	166.00	1.05	0.00	0.00	0.00		
16	0.00	0.00	42.20	121.60	248.00	454.40	172.75	166.00	0.30	0.00	0.00	0.00		
17	0.00	0.00	46.60	118.60	241.30	451.60	156.50	144.60	0.00	0.00	0.00	0.00		
18	0.00	0.00	52.60	115.60	230.50	448.80	138.40	127.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	62.60	107.85	218.80	450.20	116.80	108.95	0.00	0.00	0.00	0.00		
20	0.00	0.00	77.50	104.55	202.60	441.80	91.50	103.45	0.00	0.00	0.00	0.00		
21	0.00	0.00	92.50	102.90	199.00	431.20	88.00	101.80	0.00	0.00	0.00	0.00		
22	0.00	0.00	130.60	102.90	216.10	424.70	57.40	97.95	0.00	0.00	0.00	0.00		
23	0.00	0.00	96.30	100.15	235.90	414.30	31.30	90.50	0.00	0.00	0.00	0.00		
24	0.00	0.00	92.50	102.35	254.00	403.90	35.50	79.50	0.00	0.00	0.00	0.00		
25	0.00	0.00	119.20	109.50	267.00	400.00	58.60	34.10	0.00	0.00	0.00	0.00		
26	0.00	0.00	77.00	111.70	274.00	392.20	77.50	26.05	0.00	0.00	0.00	0.00		
27	0.00	0.00	52.20	113.90	266.00	394.80	97.95	30.25	0.00	0.00	0.00	0.00		
28	0.00	0.00	44.20	118.00	263.00	389.60	110.05	32.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	39.00	140.40	267.00	376.60	118.00	30.95	0.00	0.00		0.00		
30	0.00	0.00	33.75	200.80	278.00	374.00	115.60	30.25	0.00	0.00		0.00		
31		0.00		229.60	288.20		97.40		0.00	0.00		0.00		
Total	0.00	0.00	1212.75	2445.80	7445.60	11687.80	6505.25	2757.65	179.30	0.00	0.00	0.00	32234.15	CMSDAY
Mean	0.00	0.00	40.42	78.90	240.18	389.59	209.85	91.92	5.78	0.00	0.00	0.00	88.31	CMS
Max	0.00	0.00	130.60	229.60	288.20	454.40	369.20	166.00	26.75	0.00	0.00	0.00	454.40	CMS
Min	0.00	0.00	0.00	11.20	199.00	296.60	31.30	26.05	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	104.78	211.32	643.30	1009.83	562.05	238.26	15.49	0.00	0.00	0.00	2785.03	MCM

Momentary Peak 454.40 CMS. at 39.31 m. (MSL.) at 12.00 Hours , on Sep 16 , 2014

Runoff Yield 4.37 Liters/Second/Square KM. Momentary Peak Yield 22.494 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 16 - 30 - 24 N Long 100 - 12 - 27 E

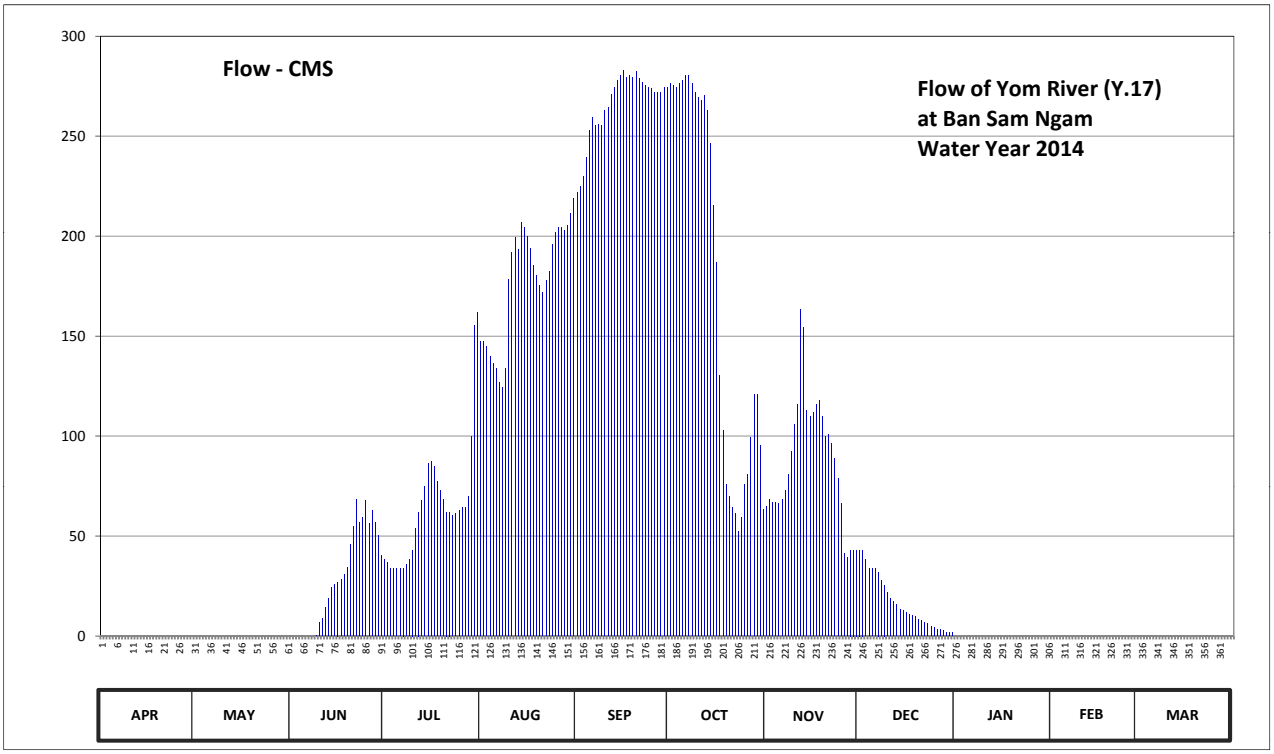
Location : on left bank at the bridge on highway from in front of Amphoe Sam Ngam office.

	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 Flot	-		
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 17 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.98	30.93	30.68	33.59	34.91	35.42	36.09	34.04	33.69	30.74	30.79	30.79	
2	30.98	30.93	30.69	33.56	34.91	35.46	36.08	34.09	33.69	30.74	30.79	30.79	
3	30.98	30.93	30.69	33.49	34.89	35.52	36.07	34.07	33.59	30.74	30.79	30.79	
4	30.98	30.93	30.69	33.49	34.85	35.64	36.09	34.07	33.49	30.74	30.79	30.79	
5	30.98	30.93	30.69	33.49	34.82	35.81	36.11	34.06	33.49	30.74	30.79	30.79	
6	30.98	30.93	30.69	33.49	34.80	35.89	36.14	34.09	33.49	30.74	30.79	30.79	
7	30.98	30.93	30.69	33.50	34.74	35.84	36.14	34.15	33.45	30.74	30.79	30.79	
8	30.98	30.93	30.70	33.54	34.72	35.85	36.09	34.26	33.32	30.74	30.79	30.79	
9	30.98	30.93	31.19	33.59	34.80	35.84	36.04	34.40	33.25	30.74	30.79	30.79	
10	30.98	30.93	32.17	33.69	35.15	35.93	36.01	34.54	33.12	30.74	30.79	30.79	
11	30.98	30.93	32.39	33.87	35.24	35.95	35.99	34.64	33.01	30.74	30.79	30.79	
12	30.98	30.93	32.79	34.00	35.29	36.03	36.02	35.04	32.93	30.74	30.79	30.79	
13	30.98	30.93	33.01	34.08	35.25	36.07	35.93	34.97	32.86	30.74	30.79	30.79	
14	30.98	30.93	33.21	34.18	35.22	36.11	35.73	34.61	32.73	30.74	30.79	30.79	
15	30.98	30.93	33.26	34.33	35.18	36.14	35.33	34.58	32.69	30.74	30.79	30.79	
16	30.98	30.93	33.30	34.34	35.12	36.17	34.94	34.60	32.62	30.74	30.79	30.79	
17	30.98	30.93	33.35	34.31	35.04	36.13	34.77	34.64	32.54	30.74	30.79	30.79	
18	30.98	30.93	33.42	34.21	34.92	36.14	34.51	34.66	32.52	30.74	30.79	30.79	
19	30.98	30.93	33.51	34.15	34.85	36.13	34.19	34.58	32.46	30.74	30.79	30.79	
20	30.98	30.93	33.74	34.09	34.78	36.16	34.11	34.48	32.32	30.74	30.79	30.79	
21	30.98	30.91	33.89	34.00	34.73	36.12	34.03	34.49	32.29	30.74	30.79	30.79	
22	30.93	30.84	34.09	34.00	34.81	36.10	33.99	34.44	32.19	30.74	30.79	30.79	
23	30.93	30.80	33.92	33.97	34.88	36.08	33.85	34.36	32.11	30.74	30.79	30.79	
24	30.93	30.69	33.96	33.99	35.07	36.07	33.96	34.23	31.99	30.74	30.79	30.79	
25	30.93	30.69	34.08	34.01	35.15	36.06	34.19	34.06	31.92	30.74	30.79	30.79	
26	30.93	30.69	33.91	34.03	35.18	36.04	34.26	33.65	31.79	30.74	30.79	30.79	
27	30.93	30.69	34.01	34.03	35.18	36.04	34.47	33.61	31.79	30.74	30.79	30.79	
28	30.93	30.69	33.92	34.11	35.16	36.04	34.69	33.69	31.64	30.74	30.79	30.79	
29	30.93	30.69	33.81	34.48	35.20	36.07	34.69	33.69	31.44	30.74		30.79	
30	30.93	30.69	33.63	34.98	35.28	36.07	34.43	33.69	31.44	30.74		30.79	
31		30.69		35.03	35.38		34.02		31.44	30.74		30.79	
Mean	30.96	30.86	32.67	33.99	35.02	35.96	35.13	34.28	32.62	30.74	30.79	30.79	
Max	30.98	30.93	34.09	35.03	35.38	36.17	36.14	35.04	33.69	30.74	30.79	30.79	36.17
Min	30.93	30.69	30.68	33.49	34.72	35.42	33.85	33.61	31.44	30.74	30.79	30.79	30.68

Annual Max Momentary Gage Height	36.18	m. (MSL.) ,	at 15.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	31.49	m. (MSL.) ,	River Bed	29.77	m. (MSL.)
Left Bank Elevation	41.66	m. (MSL.) ,			
Right Bank Elevation	41.67	m. (MSL.) ,	Drainage Area	22034	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	38.27	147.20	222.00	276.15	64.80	43.02	0.00	0.00	0.00		
2	0.00	0.00	0.00	36.85	147.20	225.00	275.30	68.30	43.02	0.00	0.00	0.00		
3	0.00	0.00	0.00	33.60	144.80	229.60	274.45	66.90	38.27	0.00	0.00	0.00		
4	0.00	0.00	0.00	33.60	140.00	239.20	276.15	66.90	33.60	0.00	0.00	0.00		
5	0.00	0.00	0.00	33.60	136.40	252.80	277.85	66.20	33.60	0.00	0.00	0.00		
6	0.00	0.00	0.00	33.60	134.00	259.20	280.40	68.30	33.60	0.00	0.00	0.00		
7	0.00	0.00	0.00	34.00	126.80	255.20	280.40	72.75	32.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	35.90	124.40	256.00	276.15	81.00	27.60	0.00	0.00	0.00		
9	0.00	0.00	0.47	38.27	134.00	255.20	271.90	92.50	25.50	0.00	0.00	0.00		
10	0.00	0.00	6.70	43.02	178.25	262.55	269.35	106.00	21.60	0.00	0.00	0.00		
11	0.00	0.00	8.90	53.70	191.70	264.25	267.65	116.00	18.97	0.00	0.00	0.00		
12	0.00	0.00	14.35	62.00	199.45	271.05	270.20	163.20	17.17	0.00	0.00	0.00		
13	0.00	0.00	18.97	67.60	193.25	274.45	262.55	154.40	15.70	0.00	0.00	0.00		
14	0.00	0.00	24.30	75.00	207.00	277.85	246.40	113.00	13.45	0.00	0.00	0.00		
15	0.00	0.00	25.80	86.55	204.05	280.40	215.25	110.00	12.85	0.00	0.00	0.00		
16	0.00	0.00	27.00	87.40	199.70	282.95	186.80	112.00	11.80	0.00	0.00	0.00		
17	0.00	0.00	28.50	84.85	193.90	279.55	130.40	116.00	10.60	0.00	0.00	0.00		
18	0.00	0.00	30.80	77.25	185.40	280.40	103.00	118.00	10.30	0.00	0.00	0.00		
19	0.00	0.00	34.47	72.75	180.50	279.55	75.75	110.00	9.60	0.00	0.00	0.00		
20	0.00	0.00	45.90	68.30	175.60	282.10	69.75	100.10	8.20	0.00	0.00	0.00		
21	0.00	0.00	54.90	62.00	172.10	278.70	64.10	101.05	7.90	0.00	0.00	0.00		
22	0.00	0.00	68.30	62.00	177.70	277.00	61.35	96.30	6.90	0.00	0.00	0.00		
23	0.00	0.00	56.80	60.05	182.60	275.30	52.50	89.10	6.10	0.00	0.00	0.00		
24	0.00	0.00	59.40	61.35	196.07	274.45	59.40	78.75	4.90	0.00	0.00	0.00		
25	0.00	0.00	67.60	62.70	201.88	273.60	75.75	66.20	4.20	0.00	0.00	0.00		
26	0.00	0.00	56.15	64.10	204.05	271.90	81.00	41.13	3.45	0.00	0.00	0.00		
27	0.00	0.00	62.70	64.10	204.05	271.90	99.15	39.23	3.45	0.00	0.00	0.00		
28	0.00	0.00	56.80	69.75	202.60	271.90	121.00	43.02	2.70	0.00	0.00	0.00		
29	0.00	0.00	50.10	100.10	205.50	274.45	121.00	43.02	1.70	0.00		0.00		
30	0.00	0.00	40.18	155.60	211.50	274.45	95.35	43.02	1.70	0.00		0.00		
31		0.00		161.90	219.00		63.40		1.70	0.00		0.00		
Total	0.00	0.00	839.09	2019.76	5520.65	7972.95	5479.85	2607.17	505.15	0.00	0.00	0.00	24944.62	CMSDAY
Mean	0.00	0.00	27.97	65.15	178.09	265.77	176.77	86.91	16.30	0.00	0.00	0.00	68.34	CMS
Max	0.00	0.00	68.30	161.90	219.00	282.95	280.40	163.20	43.02	0.00	0.00	0.00	282.95	CMS
Min	0.00	0.00	0.00	33.60	124.40	222.00	52.50	39.23	1.70	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	72.50	174.51	476.98	688.86	473.46	225.26	43.65	0.00	0.00	0.00	2155.22	MCM

Momentary Peak 283.80 CMS. at 36.18 m. (MSL.) at 15.00 Hours , on Sep 16 , 2014

Runoff Yield 3.10 Liters/Second/Square KM. Momentary Peak Yield 12.88 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

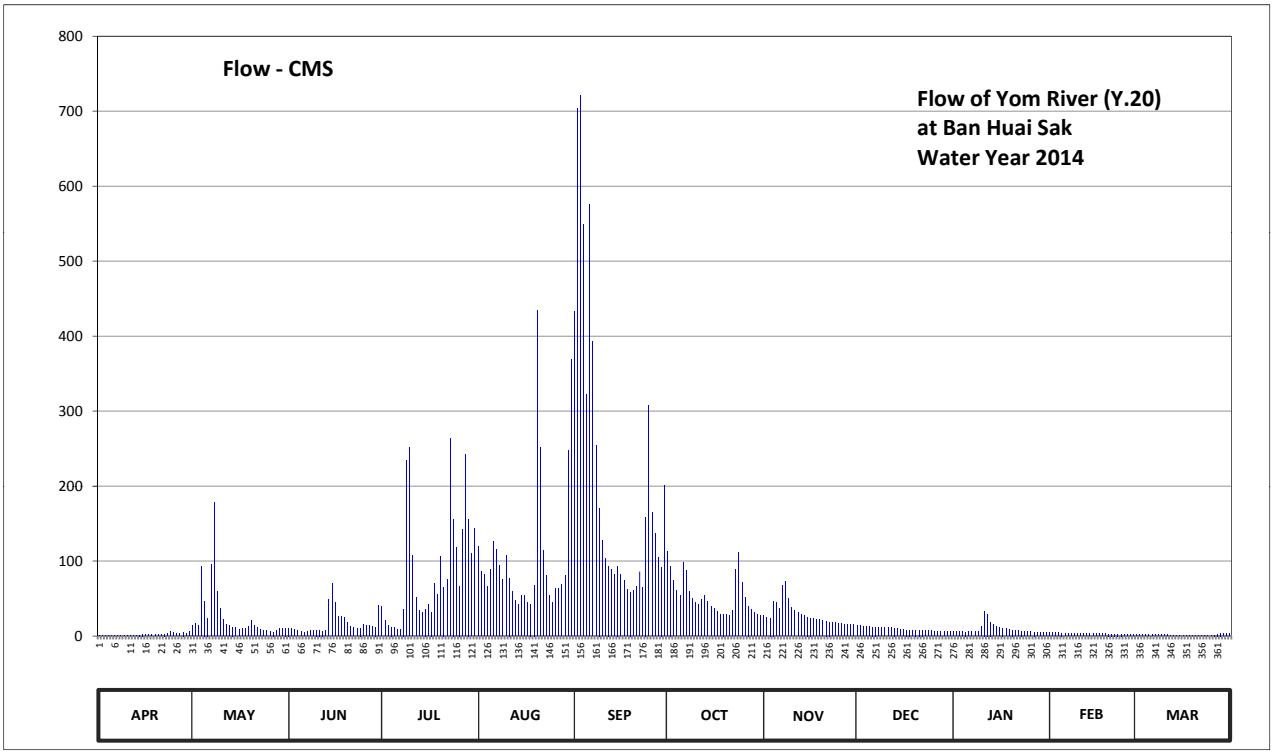
Location : on left bank about 1 kilometer downstream from Sop Ngao.

	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 Flot	-		
Rated by Current Meter	1972 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Mae yom weir situated about 15 kilometers above site.		
	Stage-discharge relation defined by 51 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.59	182.14	182.04	182.70	184.03	186.93	183.93	182.44	182.15	181.90	181.83	181.64	
2	181.58	182.22	182.01	182.30	183.51	188.47	183.62	182.40	182.13	181.90	181.83	181.64	
3	181.56	182.15	181.97	182.15	183.44	188.56	183.31	182.38	182.12	181.89	181.82	181.63	
4	181.55	183.61	181.92	182.09	183.18	187.62	183.09	182.84	182.10	181.88	181.81	181.63	
5	181.54	182.84	181.87	182.05	183.55	186.11	182.97	182.81	182.10	181.85	181.80	181.65	
6	181.54	182.38	181.83	182.00	184.13	187.77	183.69	182.65	182.09	181.86	181.79	181.64	
7	181.55	183.65	181.89	181.97	183.97	186.65	183.53	183.20	182.09	181.87	181.79	181.65	
8	181.55	184.78	181.92	182.63	183.63	185.55	183.07	183.29	182.07	181.86	181.79	181.66	
9	181.56	183.08	181.92	185.34	183.33	184.69	182.90	182.90	182.06	181.87	181.78	181.65	
10	181.56	182.64	181.96	185.52	183.84	184.14	182.80	182.67	182.06	182.12	181.78	181.64	
11	181.55	182.34	181.96	183.84	183.36	183.79	182.74	182.60	182.06	182.58	181.76	181.63	
12	181.56	182.19	181.91	182.94	183.07	183.62	182.87	182.54	182.05	182.50	181.75	181.59	
13	181.59	182.13	181.95	182.60	182.86	183.55	182.99	182.49	182.04	182.26	181.75	181.59	
14	181.62	182.09	182.88	182.53	182.75	183.44	182.82	182.45	182.03	182.17	181.75	181.60	
15	181.71	182.06	183.25	182.63	182.98	183.62	182.69	182.41	181.99	182.10	181.75	181.59	
16	181.68	181.98	182.80	182.74	182.98	183.43	182.64	182.38	181.97	182.07	181.74	181.59	
17	181.67	182.03	182.43	182.55	182.80	183.31	182.56	182.36	181.96	182.04	181.73	181.59	
18	181.65	182.03	182.43	183.25	182.76	183.11	182.49	182.33	181.96	182.01	181.74	181.59	
19	181.63	182.11	182.39	183.01	183.21	183.06	182.50	182.32	181.95	181.99	181.73	181.58	
20	181.64	182.30	182.25	183.82	186.94	183.10	182.48	182.31	181.96	181.96	181.71	181.59	
21	181.68	182.15	182.12	183.17	185.52	183.18	182.46	182.29	181.96	181.94	181.72	181.59	
22	181.71	182.08	182.05	183.33	183.96	183.50	182.60	182.26	181.96	181.92	181.72	181.58	
23	181.79	181.99	182.02	185.63	183.42	183.16	183.55	182.25	181.94	181.91	181.72	181.58	
24	181.88	181.94	182.04	184.52	182.99	184.55	183.91	182.24	181.93	181.89	181.72	181.59	
25	181.81	181.92	182.18	184.02	182.80	186.00	183.27	182.22	181.92	181.87	181.70	181.61	
26	181.76	181.87	182.14	183.19	183.14	184.62	182.94	182.21	181.90	181.86	181.68	181.62	
27	181.75	181.85	182.15	184.35	183.13	184.27	182.71	182.19	181.89	181.85	181.67	181.72	
28	181.85	181.93	182.10	185.42	183.22	183.81	182.61	182.17	181.89	181.84	181.64	181.80	
29	181.78	182.02	182.09	184.52	183.41	183.60	182.54	182.17	181.89	181.84		181.79	
30	181.89	182.01	182.73	183.89	185.48	185.01	182.49	182.17	181.89	181.83		181.78	
31		182.04		184.37	186.47		182.46		181.90	181.83		181.74	
Mean	181.66	182.34	182.17	183.39	183.67	184.74	182.94	182.46	182.00	181.98	181.75	181.64	
Max	181.89	184.78	183.25	185.63	186.94	188.56	183.93	183.29	182.15	182.58	181.83	181.80	188.56
Min	181.54	181.85	181.83	181.97	182.75	183.06	182.46	182.17	181.89	181.83	181.64	181.58	181.54

Annual Max Momentary Gage Height	189.48	m. (MSL.) ,	at 03.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	181.00	m. (MSL.) ,	River Bed	179.89	m. (MSL.)
Left Bank Elevation	193.51	m. (MSL.) ,			
Right Bank Elevation	193.64	m. (MSL.) ,	Drainage Area	5394	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.11	13.90	10.52	39.50	119.17	432.80	112.66	26.80	14.25	6.50	4.75	1.72		
2	1.02	16.90	9.53	20.50	86.62	703.30	93.44	25.00	13.55	6.50	4.75	1.72		
3	0.84	14.25	8.39	14.25	82.28	720.40	74.22	24.10	13.20	6.25	4.50	1.59		
4	0.75	92.82	7.04	12.17	66.16	549.40	60.58	46.73	12.50	6.00	4.25	1.59		
5	0.66	46.73	5.75	10.85	89.10	322.30	53.45	45.18	12.50	5.25	4.00	1.85		
6	0.66	24.10	4.75	9.20	126.43	574.90	97.78	37.00	12.17	5.50	3.85	1.72		
7	0.75	95.30	6.25	8.39	115.14	392.50	87.86	67.40	12.17	5.75	3.85	1.85		
8	0.75	178.30	7.04	36.00	94.06	255.00	59.34	72.98	11.51	5.50	3.85	1.98		
9	0.84	59.96	7.04	234.00	75.46	170.65	49.83	49.83	11.18	5.75	3.70	1.85		
10	0.84	36.50	8.12	252.00	107.08	127.15	44.67	38.00	11.18	13.20	3.70	1.72		
11	0.75	22.30	8.12	107.08	77.32	103.98	41.57	34.50	11.18	33.50	3.40	1.59		
12	0.84	15.65	6.77	51.90	59.34	93.44	48.28	31.50	10.85	29.50	3.25	1.11		
13	1.11	13.55	7.85	34.50	47.77	89.10	54.48	29.05	10.52	18.70	3.25	1.11		
14	1.46	12.17	48.80	31.00	42.08	82.28	45.70	27.25	10.19	14.95	3.25	1.20		
15	2.65	11.18	70.50	36.00	53.97	93.44	39.00	25.45	8.93	12.50	3.25	1.11		
16	2.24	8.66	44.67	41.57	53.97	81.66	36.50	24.10	8.39	11.51	3.10	1.11		
17	2.11	10.19	26.35	32.00	44.67	74.22	32.50	23.20	8.12	10.52	2.95	1.11		
18	1.85	10.19	26.35	70.50	42.60	61.82	29.05	21.85	8.12	9.53	3.10	1.11		
19	1.59	12.85	24.55	55.62	68.02	58.72	29.50	21.40	7.85	8.93	2.95	1.02		
20	1.72	20.50	18.25	105.84	434.40	61.20	28.60	20.95	8.12	8.12	2.65	1.11		
21	2.24	14.25	13.20	65.54	252.00	66.16	27.70	20.05	8.12	7.58	2.80	1.11		
22	2.65	11.84	10.85	75.46	114.52	86.00	34.50	18.70	8.12	7.04	2.80	1.02		
23	3.85	8.93	9.86	263.60	81.04	64.92	89.10	18.25	7.58	6.77	2.80	1.02		
24	6.00	7.58	10.52	156.20	54.48	158.75	111.42	17.80	7.31	6.25	2.80	1.11		
25	4.25	7.04	15.30	118.45	44.67	308.00	71.74	16.90	7.04	5.75	2.50	1.33		
26	3.40	5.75	13.90	66.78	63.68	164.70	51.90	16.45	6.50	5.50	2.24	1.46		
27	3.25	5.25	14.25	142.38	63.06	136.58	40.02	15.65	6.25	5.25	2.11	2.80		
28	5.25	7.31	12.50	242.00	68.64	105.22	35.00	14.95	6.25	5.00	1.72	4.00		
29	3.70	9.86	12.17	156.20	80.42	92.20	31.50	14.95	6.25	5.00		3.85		
30	6.25	9.53	41.05	110.18	248.00	201.00	29.05	14.95	6.25	4.75		3.70		
31		10.52		143.83	369.10		27.70		6.50	4.75		3.10		
Total	65.38	813.86	510.24	2743.49	3325.25	6431.79	1668.64	860.92	292.65	287.60	92.12	53.67	17145.61	CMSDAY
Mean	2.18	26.25	17.01	88.50	107.27	214.39	53.83	28.70	9.44	9.28	3.29	1.73	46.97	CMS
Max	6.25	178.30	70.50	263.60	434.40	720.40	112.66	72.98	14.25	33.50	4.75	4.00	720.40	CMS
Min	0.66	5.25	4.75	8.39	42.08	58.72	27.70	14.95	6.25	4.75	1.72	1.02	0.66	CMS
Runoff	5.65	70.32	44.09	237.04	287.30	555.71	144.17	74.38	25.29	24.85	7.96	4.64	1481.38	MCM

Momentary Peak 930.40 CMS. at 189.48 m. (MSL.) at 03.00 Hours , on Sep 3 , 2014

Runoff Yield 8.71 Liters/Second/Square KM. Momentary Peak Yield 172.488 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Nam Pi at Ban Mang , Phayao (Y.24)

Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

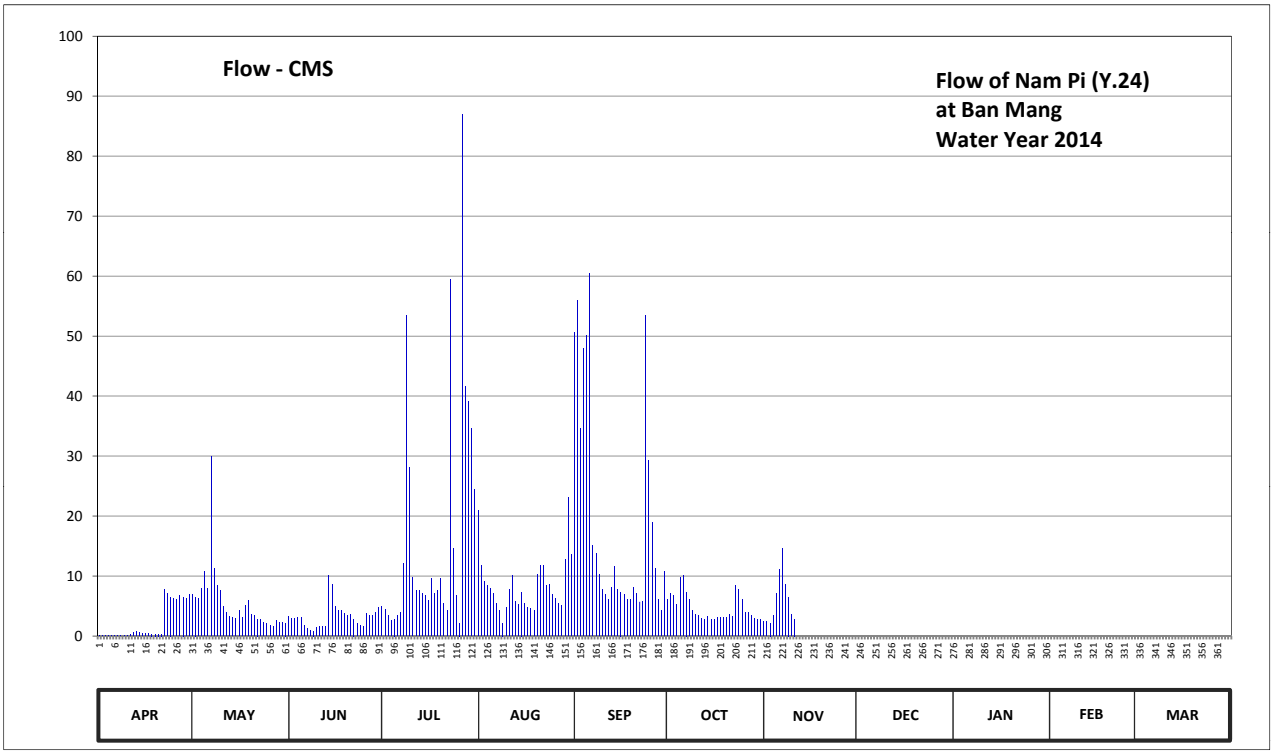
Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

	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	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	1977 to date		
Rating Operation			
Period of Rating	1979 - 1986 , 1996 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1986 , 1996 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.30	259.91	259.71	259.81	260.44	261.19	259.87	259.65	259.56	259.38	259.35	259.43	
2	259.29	259.89	259.69	259.78	260.12	261.30	259.92	259.65	259.56	259.40	259.32	259.47	
3	259.28	259.88	259.69	259.72	260.01	260.81	259.90	259.63	259.55	259.40	259.30	259.53	
4	259.27	259.96	259.70	259.66	259.98	261.13	259.83	259.72	259.54	259.42	259.33	259.50	
5	259.27	260.08	259.70	259.68	259.96	261.18	260.04	259.92	259.52	259.42	259.45	259.77	
6	259.28	259.96	259.59	259.72	259.92	261.39	260.05	260.09	259.52	259.42	259.48	259.82	
7	259.28	260.69	259.54	259.75	259.84	260.25	259.93	260.23	259.50	259.40	259.45	259.64	
8	259.29	260.10	259.51	260.13	259.77	260.20	259.87	259.99	259.50	259.41	259.42	259.62	
9	259.28	259.98	259.49	261.25	259.63	260.06	259.77	259.89	259.49	259.71	259.42	259.60	
10	259.28	259.94	259.55	260.64	259.80	259.95	259.73	259.73	259.50	259.83	259.41	259.57	
11	259.35	259.81	259.57	260.04	259.95	259.91	259.72	259.68	259.50	259.71	259.40	259.55	
12	259.43	259.75	259.57	259.94	260.05	259.87	259.69	259.68	259.47	259.62	259.36	259.58	
13	259.47	259.71	259.57	259.94	259.85	259.97	259.67	259.68	259.47	259.59	259.37	259.63	
14	259.44	259.70	260.05	259.92	259.83	260.11	259.71	259.68	259.45	259.56	259.37	259.62	
15	259.41	259.69	259.99	259.90	259.93	259.95	259.67	259.68	259.45	259.53	259.37	259.62	
16	259.40	259.77	259.81	259.86	259.84	259.93	259.67	259.69	259.45	259.50	259.37	259.59	
17	259.39	259.70	259.77	260.03	259.80	259.91	259.70	259.73	259.45	259.47	259.37	259.58	
18	259.38	259.82	259.77	259.92	259.79	259.87	259.70	259.71	259.44	259.47	259.44	259.61	
19	259.37	259.86	259.74	259.94	259.77	259.87	259.70	259.67	259.40	259.46	259.40	259.65	
20	259.37	259.73	259.72	260.03	260.06	259.97	259.70	259.62	259.34	259.45	259.39	259.67	
21	259.37	259.72	259.73	259.84	260.12	259.92	259.73	259.59	259.31	259.45	259.36	259.71	
22	259.95	259.68	259.68	259.77	260.12	259.85	259.71	259.62	259.31	259.42	259.36	259.69	
23	259.92	259.67	259.62	261.37	259.98	259.85	259.98	259.58	259.29	259.41	259.36	259.66	
24	259.89	259.64	259.60	260.23	259.99	261.25	259.95	259.57	259.29	259.40	259.34	259.66	
25	259.88	259.62	259.58	259.90	259.91	260.67	259.87	259.57	259.28	259.39	259.32	259.66	
26	259.87	259.60	259.74	259.63	259.88	260.38	259.75	259.57	259.28	259.37	259.32	259.85	
27	259.90	259.58	259.72	261.87	259.84	260.10	259.75	259.59	259.27	259.37	259.30	259.79	
28	259.89	259.66	259.72	260.98	259.82	259.87	259.72	259.59	259.27	259.38	259.32	259.87	
29	259.88	259.64	259.75	260.92	260.16	259.77	259.69	259.57	259.27	259.38		259.83	
30	259.91	259.64	259.80	260.81	260.50	260.08	259.67	259.56	259.34	259.37		259.82	
31		259.63		260.54	260.19		259.67		259.33	259.36		259.82	
Mean	259.51	259.81	259.69	260.18	259.96	260.29	259.78	259.70	259.42	259.47	259.37	259.66	
Max	259.95	260.69	260.05	261.87	260.50	261.39	260.05	260.23	259.56	259.83	259.48	259.87	261.87
Min	259.27	259.58	259.49	259.63	259.63	259.77	259.67	259.56	259.27	259.36	259.30	259.43	259.27

Annual Max Momentary Gage Height	262.07	m. (MSL.) ,	at 12.00 Hours , on Jul 27 , 2014		
Zero Gage at Bottom Elevation	257.77	m. (MSL.) ,	River Bed	256.86	m. (MSL.)
Left Bank Elevation	266.24	m. (MSL.) ,			
Right Bank Elevation	266.70	m. (MSL.) ,	Drainage Area	590	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	6.91	3.26	4.90	20.98	50.57	6.10	2.45	0.00	0.00	0.00	0.00		
2	0.15	6.50	2.97	4.38	11.80	56.00	7.12	2.45	0.00	0.00	0.00	0.00		
3	0.14	6.30	2.97	3.42	9.05	34.71	6.70	2.19	0.00	0.00	0.00	0.00		
4	0.14	7.96	3.10	2.58	8.38	48.02	5.30	3.42	0.00	0.00	0.00	0.00		
5	0.14	10.80	3.10	2.84	7.96	50.15	9.80	7.12	0.00	0.00	0.00	0.00		
6	0.14	7.96	1.71	3.42	7.12	60.50	10.05	11.05	0.00	0.00	0.00	0.00		
7	0.14	30.01	1.26	3.90	5.50	15.15	7.33	14.61	0.00	0.00	0.00	0.00		
8	0.15	11.30	0.99	12.05	4.22	13.80	6.10	8.59	0.00	0.00	0.00	0.00		
9	0.14	8.38	0.85	53.50	2.19	10.30	4.22	6.50	0.00	0.00	0.00	0.00		
10	0.14	7.54	1.35	28.06	4.70	7.75	3.58	3.58	0.00	0.00	0.00	0.00		
11	0.28	4.90	1.53	9.80	7.75	6.91	3.42	2.84	0.00	0.00	0.00	0.00		
12	0.55	3.90	1.53	7.54	10.05	6.10	2.97	0.00	0.00	0.00	0.00	0.00		
13	0.75	3.26	1.53	7.54	5.70	8.17	2.71	0.00	0.00	0.00	0.00	0.00		
14	0.60	3.10	10.05	7.12	5.30	11.55	3.26	0.00	0.00	0.00	0.00	0.00		
15	0.45	2.97	8.59	6.70	7.33	7.75	2.71	0.00	0.00	0.00	0.00	0.00		
16	0.40	4.22	4.90	5.90	5.50	7.33	2.71	0.00	0.00	0.00	0.00	0.00		
17	0.38	3.10	4.22	9.55	4.70	6.91	3.10	0.00	0.00	0.00	0.00	0.00		
18	0.35	5.10	4.22	7.12	4.54	6.10	3.10	0.00	0.00	0.00	0.00	0.00		
19	0.33	5.90	3.74	7.54	4.22	6.10	3.10	0.00	0.00	0.00	0.00	0.00		
20	0.33	3.58	3.42	9.55	10.30	8.17	3.10	0.00	0.00	0.00	0.00	0.00		
21	0.33	3.42	3.58	5.50	11.80	7.12	3.58	0.00	0.00	0.00	0.00	0.00		
22	7.75	2.84	2.84	4.22	11.80	5.70	3.26	0.00	0.00	0.00	0.00	0.00		
23	7.12	2.71	2.06	59.50	8.38	5.70	8.38	0.00	0.00	0.00	0.00	0.00		
24	6.50	2.32	1.80	14.61	8.59	53.50	7.75	0.00	0.00	0.00	0.00	0.00		
25	6.30	2.06	1.62	6.70	6.91	29.23	6.10	0.00	0.00	0.00	0.00	0.00		
26	6.10	1.80	3.74	2.19	6.30	18.98	3.90	0.00	0.00	0.00	0.00	0.00		
27	6.70	1.62	3.42	87.02	5.50	11.30	3.90	0.00	0.00	0.00	0.00	0.00		
28	6.50	2.58	3.42	41.68	5.10	6.10	3.42	0.00	0.00	0.00	0.00	0.00		
29	6.30	2.32	3.90	39.22	12.80	4.22	2.97	0.00	0.00	0.00		0.00		
30	6.91	2.32	4.70	34.71	23.05	10.80	2.71	0.00	0.00	0.00		0.00		
31		2.19		24.43	13.55		2.71		0.00	0.00		0.00		
Total	66.36	169.87	96.37	517.19	261.07	574.69	145.16	64.80	0.00	0.00	0.00	0.00	1895.51	CMSDAY
Mean	2.21	5.48	3.21	16.68	8.42	19.16	4.68	2.16	0.00	0.00	0.00	0.00	5.19	CMS
Max	7.75	30.01	10.05	87.02	23.05	60.50	10.05	14.61	0.00	0.00	0.00	0.00	87.02	CMS
Min	0.14	1.62	0.85	2.19	2.19	4.22	2.71	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	5.73	14.68	8.33	44.69	22.56	49.65	12.54	5.60	0.00	0.00	0.00	0.00	163.77	MCM

Momentary Peak 98.70 CMS. at 262.07 m. (MSL.) at 12.00 Hours , on Jul 27 , 2014

Runoff Yield 8.80 Liters/Second/Square KM. Momentary Peak Yield 167.288 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

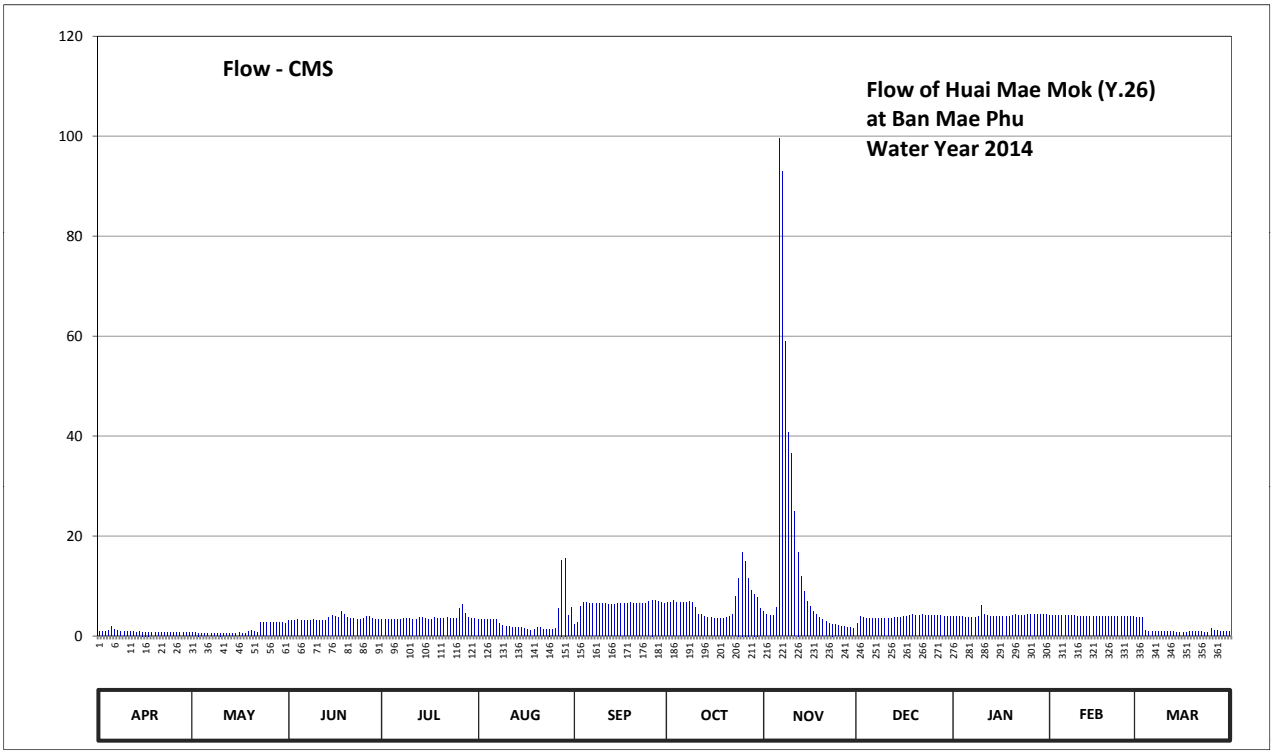
Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	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**	+107.081 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 Flot	-		
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 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	100.93	100.88	101.23	101.26	101.26	101.14	101.59	101.42	101.18	101.31	101.34	101.30	
2	100.93	100.88	101.23	101.26	101.26	101.19	101.59	101.36	101.32	101.31	101.34	101.30	
3	100.93	100.87	101.23	101.26	101.26	101.51	101.62	101.33	101.29	101.31	101.34	101.30	
4	100.98	100.86	101.26	101.26	101.25	101.59	101.60	101.33	101.28	101.31	101.34	100.96	
5	101.08	100.85	101.24	101.25	101.26	101.60	101.59	101.49	101.28	101.29	101.34	100.94	
6	101.01	100.85	101.23	101.25	101.26	101.58	101.59	104.51	101.27	101.29	101.34	100.94	
7	100.97	100.84	101.23	101.25	101.25	101.58	101.60	104.38	101.27	101.29	101.34	100.94	
8	100.95	100.85	101.24	101.28	101.18	101.58	101.61	103.61	101.27	101.29	101.34	100.94	
9	100.95	100.86	101.25	101.28	101.12	101.58	101.60	103.10	101.27	101.32	101.33	100.94	
10	100.94	100.87	101.24	101.27	101.09	101.57	101.50	102.96	101.27	101.54	101.32	100.94	
11	100.94	100.86	101.24	101.26	101.08	101.57	101.36	102.54	101.27	101.35	101.32	100.93	
12	100.92	100.85	101.24	101.26	101.07	101.56	101.35	102.19	101.28	101.33	101.32	100.93	
13	100.90	100.85	101.24	101.29	101.07	101.56	101.31	101.94	101.30	101.32	101.32	100.93	
14	100.93	100.85	101.30	101.29	101.06	101.56	101.29	101.75	101.30	101.31	101.32	100.90	
15	100.91	100.85	101.33	101.27	101.07	101.57	101.29	101.61	101.30	101.31	101.32	100.90	
16	100.91	100.88	101.31	101.26	101.03	101.57	101.28	101.51	101.31	101.31	101.32	100.90	
17	100.91	100.84	101.30	101.26	101.00	101.57	101.28	101.42	101.32	101.31	101.32	100.90	
18	100.90	100.84	101.41	101.30	100.96	101.57	101.28	101.36	101.33	101.31	101.32	100.92	
19	100.90	100.95	101.35	101.28	101.00	101.59	101.28	101.30	101.35	101.31	101.32	100.92	
20	100.90	100.98	101.30	101.28	101.06	101.58	101.29	101.25	101.34	101.34	101.32	100.92	
21	100.89	100.92	101.28	101.28	101.06	101.57	101.32	101.21	101.34	101.35	101.32	100.92	
22	100.89	100.90	101.27	101.30	101.01	101.59	101.35	101.17	101.36	101.33	101.32	100.92	
23	100.89	101.19	101.26	101.28	101.01	101.58	101.68	101.15	101.34	101.33	101.32	100.90	
24	100.89	101.19	101.26	101.28	101.02	101.58	101.92	101.13	101.34	101.34	101.32	100.90	
25	100.89	101.19	101.28	101.27	101.00	101.61	102.19	101.11	101.33	101.35	101.31	101.04	
26	100.89	101.19	101.31	101.47	101.04	101.63	102.10	101.09	101.33	101.35	101.31	100.98	
27	100.89	101.19	101.31	101.56	101.48	101.62	101.92	101.08	101.33	101.35	101.31	100.98	
28	100.89	101.19	101.27	101.37	102.11	101.61	101.76	101.07	101.33	101.35	101.31	100.94	
29	100.88	101.19	101.26	101.30	102.13	101.59	101.71	101.05	101.32	101.35		100.92	
30	100.88	101.19	101.26	101.28	101.33	101.58	101.67	101.04	101.32	101.35		100.92	
31		101.18		101.28	101.49		101.47		101.31	101.35		100.92	
Mean	100.92	100.96	101.27	101.29	101.20	101.55	101.55	101.78	101.30	101.33	101.32	100.97	
Max	101.08	101.19	101.41	101.56	102.13	101.63	102.19	104.51	101.36	101.54	101.34	101.30	104.51
Min	100.88	100.84	101.23	101.25	100.96	101.14	101.28	101.04	101.18	101.29	101.31	100.90	100.84

Annual Max Momentary Gage Height	104.76	m. (MSL.) ,	at 18.00 Hours , on Nov 6 , 2014		
Zero Gage at Bottom Elevation	100.38	m. (MSL.) ,	River Bed	100.36	m. (MSL.)
Left Bank Elevation	107.08	m. (MSL.) ,			
Right Bank Elevation	107.09	m. (MSL.) ,	Drainage Area	784	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	0.65	3.05	3.35	3.35	2.30	6.65	4.95	2.60	3.85	4.15	3.75		
2	0.90	0.65	3.05	3.35	3.35	2.68	6.65	4.35	3.95	3.85	4.15	3.75		
3	0.90	0.60	3.05	3.35	3.35	5.85	7.05	4.05	3.65	3.85	4.15	3.75		
4	1.15	0.55	3.35	3.35	3.25	6.65	6.75	4.05	3.55	3.85	4.15	1.05		
5	1.85	0.50	3.15	3.25	3.35	6.75	6.65	5.65	3.55	3.65	4.15	0.95		
6	1.33	0.50	3.05	3.25	3.35	6.55	6.65	99.50	3.45	3.65	4.15	0.95		
7	1.10	0.45	3.05	3.25	3.25	6.55	6.75	93.00	3.45	3.65	4.15	0.95		
8	1.00	0.50	3.15	3.55	2.60	6.55	6.90	58.90	3.45	3.65	4.15	0.95		
9	1.00	0.55	3.25	3.55	2.15	6.55	6.75	40.75	3.45	3.95	4.05	0.95		
10	0.95	0.60	3.15	3.45	1.92	6.45	5.75	36.55	3.45	6.15	3.95	0.95		
11	0.95	0.55	3.15	3.35	1.85	6.45	4.35	25.00	3.45	4.25	3.95	0.90		
12	0.85	0.50	3.15	3.35	1.78	6.35	4.25	16.80	3.55	4.05	3.95	0.90		
13	0.75	0.50	3.15	3.65	1.78	6.35	3.85	11.95	3.75	3.95	3.95	0.90		
14	0.90	0.50	3.75	3.65	1.70	6.35	3.65	9.00	3.75	3.85	3.95	0.75		
15	0.80	0.50	4.05	3.45	1.78	6.45	3.65	6.90	3.75	3.85	3.95	0.75		
16	0.80	0.65	3.85	3.35	1.47	6.45	3.55	5.85	3.85	3.85	3.95	0.75		
17	0.80	0.45	3.75	3.35	1.25	6.45	3.55	4.95	3.95	3.85	3.95	0.75		
18	0.75	0.45	4.85	3.75	1.05	6.45	3.55	4.35	4.05	3.85	3.95	0.85		
19	0.75	1.00	4.25	3.55	1.25	6.65	3.55	3.75	4.25	3.85	3.95	0.85		
20	0.75	1.15	3.75	3.55	1.70	6.55	3.65	3.25	4.15	4.15	3.95	0.85		
21	0.70	0.85	3.55	3.55	1.70	6.45	3.95	2.85	4.15	4.25	3.95	0.85		
22	0.70	0.75	3.45	3.75	1.33	6.65	4.25	2.53	4.35	4.05	3.95	0.85		
23	0.70	2.68	3.35	3.55	1.33	6.55	7.95	2.38	4.15	4.05	3.95	0.75		
24	0.70	2.68	3.35	3.55	1.40	6.55	11.60	2.22	4.15	4.15	3.95	0.75		
25	0.70	2.68	3.55	3.45	1.25	6.90	16.80	2.08	4.05	4.25	3.85	1.55		
26	0.70	2.68	3.85	5.45	1.55	7.20	15.00	1.92	4.05	4.25	3.85	1.15		
27	0.70	2.68	3.85	6.35	5.55	7.05	11.60	1.85	4.05	4.25	3.85	1.15		
28	0.70	2.68	3.45	4.45	15.20	6.90	9.15	1.78	4.05	4.25	3.85	0.95		
29	0.65	2.68	3.35	3.75	15.60	6.65	8.40	1.63	3.95	4.25		0.85		
30	0.65	2.68	3.35	3.55	4.05	6.55	7.80	1.55	3.95	4.25		0.85		
31		2.60		3.55	5.65		5.45		3.85	4.25		0.85		
Total	26.08	37.44	104.10	113.65	100.14	188.83	206.10	464.34	117.80	125.85	111.90	36.80	1633.03	CMSDAY
Mean	0.87	1.21	3.47	3.67	3.23	6.29	6.65	15.48	3.80	4.06	4.00	1.19	4.47	CMS
Max	1.85	2.68	4.85	6.35	15.60	7.20	16.80	99.50	4.35	6.15	4.15	3.75	99.50	CMS
Min	0.65	0.45	3.05	3.25	1.05	2.30	3.55	1.55	2.60	3.65	3.85	0.75	0.45	CMS
Runoff	2.25	3.24	8.99	9.82	8.65	16.32	17.81	40.12	10.18	10.87	9.67	3.18	141.09	MCM

Momentary Peak 112.15 CMS. at 104.76 m. (MSL.) at 18.00 Hours , on Nov 6 , 2014

Runoff Yield 5.71 Liters/Second/Square KM. Momentary Peak Yield 143.048 Liters/Second/Square KM.

WATER YEAR : 2014

Yom RIVER BASIN

Huai Mae Hu at Ban Mae Hu , Sukhothai (Y.29)

Lat 17 - 42 - 11 N Long 99 - 44 - 24 E

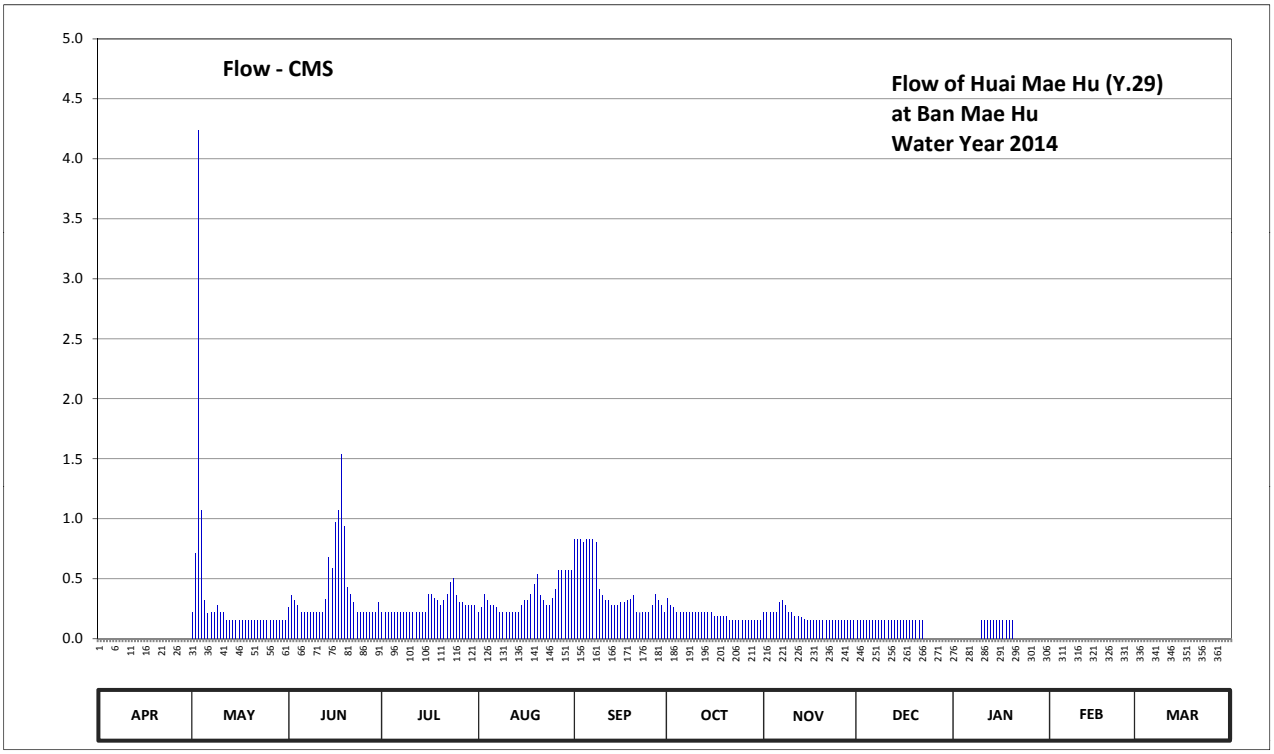
Location : on left bank at Ban Mae Hu.

	Ban Mae Hu	**Amphoe** Si Satchanalai	**Changwat** Sukhothai
Drainge Area	57 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+93.445 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+98.162 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	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 7 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	93.28	93.85	93.87	93.85	93.85	94.15	93.93	93.85	93.75	93.60	93.60	93.55	
2	93.28	94.11	93.94	93.85	93.87	94.15	93.89	93.85	93.75	93.60	93.60	93.55	
3	93.28	94.89	93.91	93.85	93.95	94.15	93.87	93.85	93.75	93.60	93.60	93.55	
4	93.28	94.23	93.89	93.85	93.91	94.14	93.85	93.85	93.75	93.60	93.60	93.55	
5	93.28	93.91	93.85	93.85	93.89	94.15	93.85	93.85	93.75	93.60	93.60	93.55	
6	93.28	93.84	93.85	93.85	93.89	94.15	93.85	93.90	93.75	93.60	93.60	93.55	
7	93.28	93.85	93.85	93.85	93.87	94.15	93.85	93.91	93.75	93.60	93.60	93.55	
8	93.28	93.85	93.85	93.85	93.85	94.14	93.85	93.89	93.75	93.60	93.60	93.55	
9	93.28	93.89	93.85	93.85	93.85	93.97	93.85	93.85	93.75	93.60	93.60	93.55	
10	93.28	93.85	93.85	93.85	93.85	93.94	93.85	93.85	93.75	93.63	93.60	93.55	
11	93.28	93.85	93.85	93.85	93.85	93.91	93.85	93.83	93.75	93.63	93.60	93.54	
12	93.28	93.80	93.85	93.85	93.85	93.91	93.85	93.83	93.75	93.63	93.60	93.54	
13	93.28	93.77	93.92	93.85	93.85	93.89	93.85	93.82	93.75	93.63	93.60	93.54	
14	93.28	93.76	94.10	93.85	93.85	93.89	93.85	93.81	93.75	93.63	93.60	93.54	
15	93.28	93.76	94.06	93.85	93.89	93.89	93.85	93.80	93.75	93.63	93.60	93.54	
16	93.28	93.75	94.20	93.95	93.91	93.90	93.83	93.79	93.70	93.63	93.60	93.55	
17	93.28	93.75	94.23	93.95	93.91	93.90	93.83	93.79	93.70	93.63	93.60	93.55	
18	93.28	93.75	94.36	93.93	93.95	93.91	93.83	93.79	93.65	93.63	93.60	93.55	
19	93.28	93.75	94.19	93.91	94.00	93.92	93.83	93.76	93.63	93.63	93.60	93.55	
20	93.28	93.75	93.99	93.89	94.04	93.94	93.83	93.72	93.63	93.63	93.60	93.55	
21	93.28	93.75	93.95	93.91	93.94	93.85	93.80	93.69	93.61	93.60	93.60	93.55	
22	93.28	93.75	93.90	93.95	93.91	93.85	93.80	93.67	93.61	93.60	93.60	93.55	
23	93.28	93.75	93.85	94.01	93.89	93.85	93.80	93.67	93.60	93.60	93.60	93.55	
24	93.28	93.75	93.85	94.02	93.89	93.85	93.80	93.67	93.60	93.60	93.60	93.55	
25	93.28	93.75	93.85	93.94	93.93	93.85	93.80	93.65	93.60	93.60	93.60	93.55	
26	93.28	93.75	93.85	93.90	93.97	93.89	93.76	93.65	93.60	93.60	93.60	93.55	
27	93.28	93.75	93.85	93.90	94.05	93.95	93.76	93.65	93.60	93.60	93.60	93.55	
28	93.28	93.75	93.85	93.89	94.05	93.91	93.76	93.65	93.60	93.60	93.60	93.55	
29	93.28	93.75	93.85	93.89	94.05	93.89	93.76	93.65	93.60	93.60		93.55	
30	93.28	93.76	93.90	93.89	94.05	93.85	93.76	93.65	93.60	93.60		93.55	
31		93.77		93.89	94.05		93.76		93.60	93.60		93.55	
Mean	93.28	93.85	93.94	93.89	93.92	93.96	93.83	93.77	93.68	93.61	93.60	93.55	
Max	93.28	94.89	94.36	94.02	94.05	94.15	93.93	93.91	93.75	93.63	93.60	93.55	94.89
Min	93.28	93.75	93.85	93.85	93.85	93.85	93.76	93.65	93.60	93.60	93.60	93.54	93.28

Annual Max Momentary Gage Height	94.95	m. (MSL.) ,	at 12.00 Hours , on May 3 , 2014		
Zero Gage at Bottom Elevation	93.44	m. (MSL.) ,	River Bed	93.40	m. (MSL.)
Left Bank Elevation	97.74	m. (MSL.) ,			
Right Bank Elevation	97.73	m. (MSL.) ,	Drainage Area	57	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.22	0.26	0.22	0.22	0.83	0.34	0.22	0.15	0.00	0.00	0.00		
2	0.00	0.71	0.36	0.22	0.26	0.83	0.28	0.22	0.15	0.00	0.00	0.00		
3	0.00	4.24	0.32	0.22	0.37	0.83	0.26	0.22	0.15	0.00	0.00	0.00		
4	0.00	1.07	0.28	0.22	0.32	0.80	0.22	0.22	0.15	0.00	0.00	0.00		
5	0.00	0.32	0.22	0.22	0.28	0.83	0.22	0.22	0.15	0.00	0.00	0.00		
6	0.00	0.21	0.22	0.22	0.28	0.83	0.22	0.30	0.15	0.00	0.00	0.00		
7	0.00	0.22	0.22	0.22	0.26	0.83	0.22	0.32	0.15	0.00	0.00	0.00		
8	0.00	0.22	0.22	0.22	0.22	0.80	0.22	0.28	0.15	0.00	0.00	0.00		
9	0.00	0.28	0.22	0.22	0.22	0.41	0.22	0.22	0.15	0.00	0.00	0.00		
10	0.00	0.22	0.22	0.22	0.22	0.36	0.22	0.22	0.15	0.15	0.00	0.00		
11	0.00	0.22	0.22	0.22	0.22	0.32	0.22	0.19	0.15	0.15	0.00	0.00		
12	0.00	0.15	0.22	0.22	0.22	0.32	0.22	0.19	0.15	0.15	0.00	0.00		
13	0.00	0.15	0.33	0.22	0.22	0.28	0.22	0.18	0.15	0.15	0.00	0.00		
14	0.00	0.15	0.68	0.22	0.22	0.28	0.22	0.16	0.15	0.15	0.00	0.00		
15	0.00	0.15	0.59	0.22	0.28	0.28	0.22	0.15	0.15	0.15	0.00	0.00		
16	0.00	0.15	0.97	0.37	0.32	0.30	0.19	0.15	0.15	0.15	0.00	0.00		
17	0.00	0.15	1.07	0.37	0.32	0.30	0.19	0.15	0.15	0.15	0.00	0.00		
18	0.00	0.15	1.54	0.34	0.37	0.32	0.19	0.15	0.15	0.15	0.00	0.00		
19	0.00	0.15	0.94	0.32	0.45	0.33	0.19	0.15	0.15	0.15	0.00	0.00		
20	0.00	0.15	0.43	0.28	0.54	0.36	0.19	0.15	0.15	0.15	0.00	0.00		
21	0.00	0.15	0.37	0.32	0.36	0.22	0.15	0.15	0.15	0.00	0.00	0.00		
22	0.00	0.15	0.30	0.37	0.32	0.22	0.15	0.15	0.15	0.00	0.00	0.00		
23	0.00	0.15	0.22	0.47	0.28	0.22	0.15	0.15	0.00	0.00	0.00	0.00		
24	0.00	0.15	0.22	0.50	0.28	0.22	0.15	0.15	0.00	0.00	0.00	0.00		
25	0.00	0.15	0.22	0.36	0.34	0.22	0.15	0.15	0.00	0.00	0.00	0.00		
26	0.00	0.15	0.22	0.30	0.41	0.28	0.15	0.15	0.00	0.00	0.00	0.00		
27	0.00	0.15	0.22	0.30	0.57	0.37	0.15	0.15	0.00	0.00	0.00	0.00		
28	0.00	0.15	0.22	0.28	0.57	0.32	0.15	0.15	0.00	0.00	0.00	0.00		
29	0.00	0.15	0.22	0.28	0.57	0.28	0.15	0.15	0.00	0.00		0.00		
30	0.00	0.15	0.30	0.28	0.57	0.22	0.15	0.15	0.00	0.00		0.00		
31		0.15		0.28	0.57		0.15		0.00	0.00		0.00		
Total	0.00	10.93	12.04	8.72	10.65	13.01	6.12	5.56	3.30	1.65	0.00	0.00	71.98	CMSDAY
Mean	0.00	0.35	0.40	0.28	0.34	0.43	0.20	0.19	0.11	0.05	0.00	0.00	0.20	CMS
Max	0.00	4.24	1.54	0.50	0.57	0.83	0.34	0.32	0.15	0.15	0.00	0.00	4.24	CMS
Min	0.00	0.15	0.22	0.22	0.22	0.22	0.15	0.15	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.94	1.04	0.75	0.92	1.12	0.53	0.48	0.29	0.14	0.00	0.00	6.22	MCM

Momentary Peak 4.65 CMS. at 94.95 m. (MSL.) at 12.00 Hours , on May 3 , 2014

Runoff Yield 3.46 Liters/Second/Square KM. Momentary Peak Yield 81.579 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

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

Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

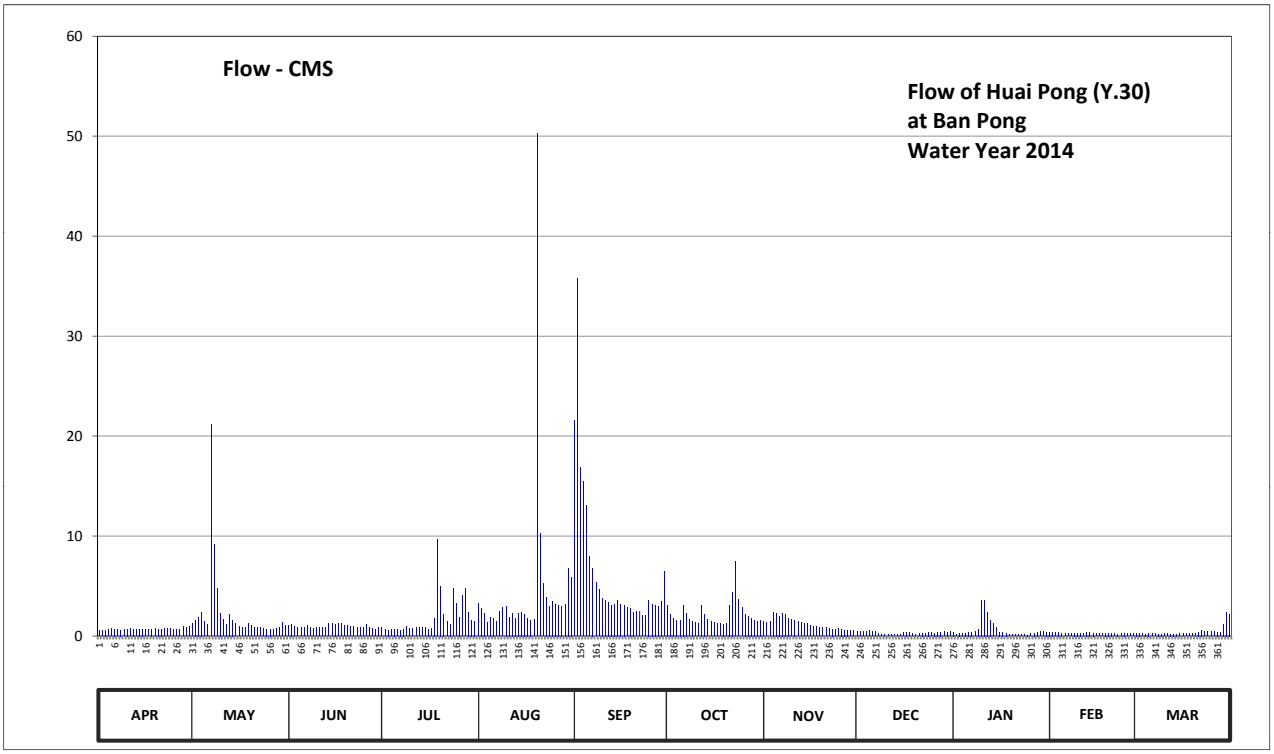
Location : on right bank at the bridge on highway.

	Ban Pong	**Amphoe** Ngao	**Changwat** Lampang
Drainge Area	325 sq.km.		
Type of Gage	Water - stage recorder		
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	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 Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The carcass of the bridge is near the gage site.		
	Stage-discharge relation defined by 45 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.86	265.97	265.94	265.91	266.18	267.29	266.16	265.99	265.85	265.83	265.83	265.81	
2	265.86	266.01	265.96	265.88	266.13	267.88	266.07	265.98	265.84	265.77	265.83	265.81	
3	265.87	266.04	265.93	265.87	266.08	267.05	266.03	265.99	265.84	265.81	265.82	265.79	
4	265.88	266.09	265.91	265.88	265.98	266.97	266.01	266.09	265.85	265.80	265.83	265.78	
5	265.90	265.99	265.92	265.89	266.04	266.83	266.01	266.08	265.86	265.81	265.81	265.81	
6	265.89	265.95	265.91	265.88	266.03	266.54	266.16	266.05	265.85	265.83	265.80	265.80	
7	265.88	267.27	265.94	265.87	265.99	266.47	266.08	266.08	265.85	265.83	265.79	265.80	
8	265.87	266.61	265.91	265.89	266.10	266.37	266.02	266.07	265.80	265.84	265.80	265.78	
9	265.88	266.32	265.90	265.93	266.14	266.31	266.00	266.03	265.75	265.89	265.81	265.78	
10	265.89	266.08	265.91	265.90	266.15	266.23	265.98	266.02	265.75	266.21	265.81	265.80	
11	265.90	266.02	265.91	265.90	266.04	266.21	265.97	266.01	265.75	266.21	265.81	265.80	
12	265.89	265.96	265.92	265.91	266.08	266.19	266.16	265.99	265.76	266.09	265.80	265.78	
13	265.88	266.07	265.92	265.91	266.03	266.16	266.07	265.98	265.75	266.01	265.83	265.78	
14	265.89	266.01	265.97	265.91	266.08	266.17	266.02	265.97	265.76	265.97	265.83	265.78	
15	265.89	265.97	265.97	265.91	266.09	266.21	265.99	265.97	265.77	265.91	265.81	265.79	
16	265.88	265.93	265.96	265.89	266.07	266.17	265.98	265.94	265.82	265.83	265.79	265.79	
17	265.88	265.92	265.97	265.90	266.03	266.16	265.97	265.93	265.83	265.83	265.79	265.79	
18	265.89	265.92	265.97	266.03	266.01	266.14	265.97	265.93	265.82	265.81	265.79	265.79	
19	265.90	265.97	265.94	266.64	266.02	266.13	265.96	265.92	265.80	265.76	265.81	265.79	
20	265.89	265.94	265.94	266.34	268.42	266.09	265.97	265.92	265.77	265.75	265.81	265.79	
21	265.89	265.92	265.93	266.07	266.67	266.10	266.16	265.91	265.80	265.75	265.81	265.83	
22	265.90	265.92	265.93	265.99	266.36	266.10	266.29	265.90	265.81	265.75	265.79	265.87	
23	265.90	265.91	265.92	265.96	266.24	266.06	266.51	265.89	265.79	265.75	265.78	265.85	
24	265.90	265.90	265.92	266.32	266.15	266.06	266.22	265.88	265.83	265.76	265.80	265.84	
25	265.88	265.89	265.92	266.18	266.20	266.21	266.14	265.90	265.82	265.74	265.81	265.84	
26	265.88	265.89	265.95	266.04	266.17	266.17	266.07	265.89	265.81	265.79	265.80	265.84	
27	265.88	265.88	265.92	266.26	266.16	266.16	266.05	265.87	265.83	265.81	265.80	265.83	
28	265.93	265.90	265.90	266.32	266.15	266.15	266.03	265.87	265.83	265.83	265.79	265.82	
29	265.92	265.91	265.88	266.09	266.17	266.20	266.01	265.86	265.84	265.84		265.96	
30	265.93	265.98	265.92	266.01	266.47	266.45	266.00	265.86	265.83	265.85		266.09	
31		265.94		266.00	266.41		266.01		265.84	265.83		266.07	
Mean	265.89	266.03	265.93	266.02	266.22	266.37	266.07	265.96	265.81	265.85	265.81	265.83	
Max	265.93	267.27	265.97	266.64	268.42	267.88	266.51	266.09	265.86	266.21	265.83	266.09	268.42
Min	265.86	265.88	265.88	265.87	265.98	266.06	265.96	265.86	265.75	265.74	265.78	265.78	265.74

Annual Max Momentary Gage Height	269.02	m. (MSL.) ,	at 06.00 Hours , on Aug 20 , 2014		
Zero Gage at Bottom Elevation	265.63	m. (MSL.) ,	River Bed	265.52	m. (MSL.)
Left Bank Elevation	273.90	m. (MSL.) ,			
Right Bank Elevation	273.88	m. (MSL.) ,	Drainage Area	325	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.55	1.28	1.05	0.83	3.30	21.55	3.10	1.42	0.50	0.40	0.40	0.30		
2	0.55	1.60	1.20	0.65	2.80	35.75	2.20	1.35	0.45	0.17	0.40	0.30		
3	0.60	1.90	0.97	0.60	2.30	16.87	1.80	1.42	0.45	0.30	0.35	0.23		
4	0.65	2.40	0.83	0.65	1.35	15.47	1.60	2.40	0.50	0.25	0.40	0.20		
5	0.75	1.42	0.90	0.70	1.90	13.02	1.60	2.30	0.55	0.30	0.30	0.30		
6	0.70	1.13	0.83	0.65	1.80	7.95	3.10	2.00	0.50	0.40	0.25	0.25		
7	0.65	21.15	1.05	0.60	1.42	6.80	2.30	2.30	0.50	0.40	0.23	0.25		
8	0.60	9.17	0.83	0.70	2.50	5.38	1.70	2.20	0.25	0.45	0.25	0.20		
9	0.65	4.75	0.75	0.97	2.90	4.63	1.50	1.80	0.13	0.70	0.30	0.20		
10	0.70	2.30	0.83	0.75	3.00	3.80	1.35	1.70	0.13	3.60	0.30	0.25		
11	0.75	1.70	0.83	0.75	1.90	3.60	1.28	1.60	0.13	3.60	0.30	0.25		
12	0.70	1.20	0.90	0.83	2.30	3.40	3.10	1.42	0.15	2.40	0.25	0.20		
13	0.65	2.20	0.90	0.83	1.80	3.10	2.20	1.35	0.13	1.60	0.40	0.20		
14	0.70	1.60	1.28	0.83	2.30	3.20	1.70	1.28	0.15	1.28	0.40	0.20		
15	0.70	1.28	1.28	0.83	2.40	3.60	1.42	1.28	0.17	0.83	0.30	0.23		
16	0.65	0.97	1.20	0.70	2.20	3.20	1.35	1.05	0.35	0.40	0.23	0.23		
17	0.65	0.90	1.28	0.75	1.80	3.10	1.28	0.97	0.40	0.40	0.23	0.23		
18	0.70	0.90	1.28	1.80	1.60	2.90	1.28	0.97	0.35	0.30	0.23	0.23		
19	0.75	1.28	1.05	9.70	1.70	2.80	1.20	0.90	0.25	0.15	0.30	0.23		
20	0.70	1.05	1.05	5.00	50.30	2.40	1.28	0.90	0.17	0.13	0.30	0.23		
21	0.70	0.90	0.97	2.20	10.23	2.50	3.10	0.83	0.25	0.13	0.30	0.40		
22	0.75	0.90	0.97	1.42	5.25	2.50	4.40	0.75	0.30	0.13	0.23	0.60		
23	0.75	0.83	0.90	1.20	3.90	2.10	7.43	0.70	0.23	0.13	0.20	0.50		
24	0.75	0.75	0.90	4.75	3.00	2.10	3.70	0.65	0.40	0.15	0.25	0.45		
25	0.65	0.70	0.90	3.30	3.50	3.60	2.90	0.75	0.35	0.10	0.30	0.45		
26	0.65	0.70	1.13	1.90	3.20	3.20	2.20	0.70	0.30	0.23	0.25	0.45		
27	0.65	0.65	0.90	4.10	3.10	3.10	2.00	0.60	0.40	0.30	0.25	0.40		
28	0.97	0.75	0.75	4.75	3.00	3.00	1.80	0.60	0.40	0.40	0.23	0.35		
29	0.90	0.83	0.65	2.40	3.20	3.50	1.60	0.55	0.45	0.45		1.20		
30	0.97	1.35	0.90	1.60	6.80	6.50	1.50	0.55	0.40	0.50		2.40		
31		1.05		1.50	5.90		1.60		0.45	0.40		2.20		
Total	21.09	69.59	29.26	58.24	142.65	194.62	68.57	37.29	10.14	20.98	8.13	14.11	674.67	CMSDAY
Mean	0.70	2.24	0.98	1.88	4.60	6.49	2.21	1.24	0.33	0.68	0.29	0.46	1.85	CMS
Max	0.97	21.15	1.28	9.70	50.30	35.75	7.43	2.40	0.55	3.60	0.40	2.40	50.30	CMS
Min	0.55	0.65	0.65	0.60	1.35	2.10	1.20	0.55	0.13	0.10	0.20	0.20	0.10	CMS
Runoff	1.82	6.01	2.53	5.03	12.33	16.82	5.92	3.22	0.88	1.81	0.70	1.22	58.29	MCM

Momentary Peak 67.10 CMS. at 269.02 m. (MSL.) at 06.00 Hours , on Aug 20 , 2014

Runoff Yield 5.69 Liters/Second/Square KM. Momentary Peak Yield 206.462 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Yom River at Ban Thung Nong , Phayao (Y.31)

Lat 18 - 57 - 28 N Long 100 - 15 - 58 E

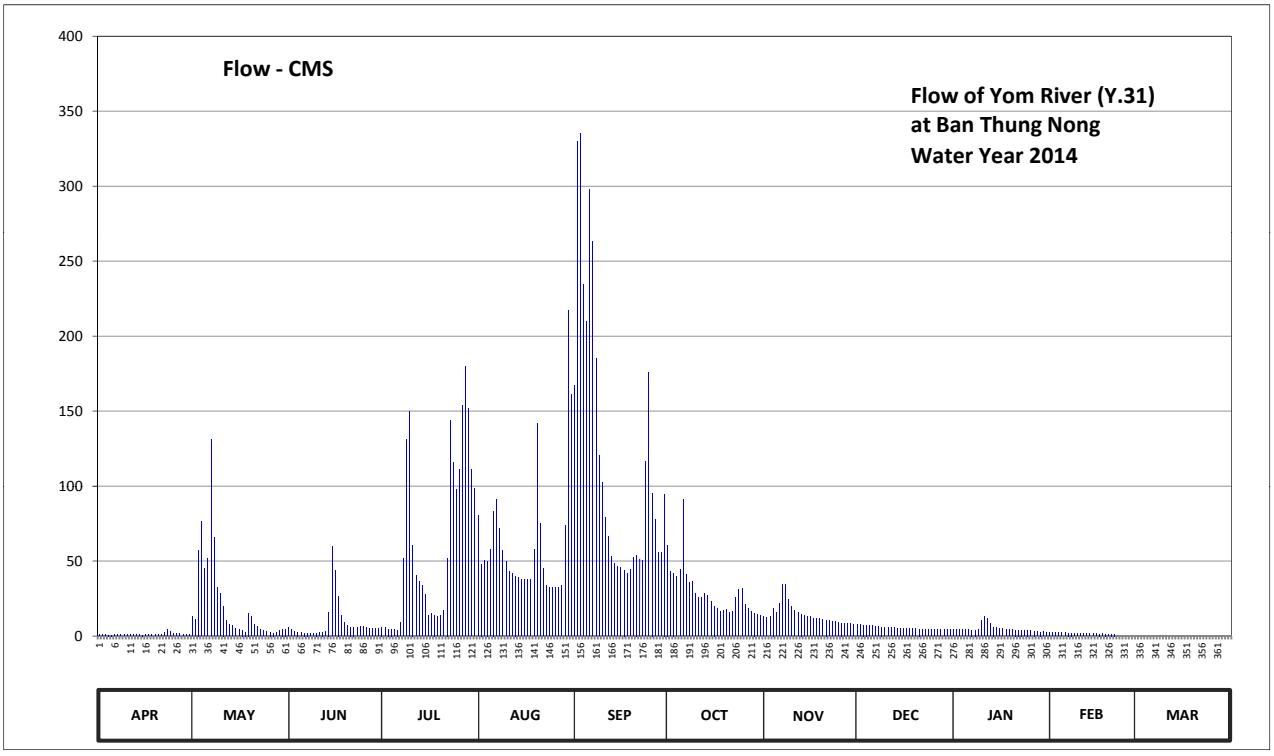
Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	Ban Thung Nong	**Amphoe** Chiang Muan	**Changwat** Phayao
Drainge Area	1,981 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+257.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	**Elevation**	+266.960 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the islet about 200 meters dowmstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.71	258.24	257.97	257.99	259.69	260.88	259.34	258.24	258.06	257.91	257.82	257.70	
2	257.68	258.18	257.91	257.98	259.10	262.40	259.00	258.22	258.05	257.92	257.82	257.70	
3	257.66	259.28	257.84	257.93	259.15	262.44	258.98	258.23	258.04	257.92	257.81	257.70	
4	257.64	259.62	257.83	257.93	259.14	261.56	258.93	258.41	258.04	257.92	257.81	257.70	
5	257.65	259.04	257.82	257.91	259.29	261.32	259.03	258.32	258.03	257.91	257.81	257.70	
6	257.68	259.17	257.80	257.90	259.74	262.12	259.86	258.49	258.02	257.91	257.81	257.68	
7	257.69	260.43	257.80	258.10	259.86	261.82	258.96	258.82	258.01	257.90	257.80	257.66	
8	257.69	259.43	257.79	259.17	259.54	261.07	258.85	258.82	258.00	257.90	257.80	257.67	
9	257.72	258.78	257.79	260.43	259.27	260.28	258.86	258.57	257.99	257.91	257.79	257.66	
10	257.70	258.67	257.80	260.67	259.13	260.02	258.68	258.44	257.97	258.15	257.77	257.66	
11	257.70	258.45	257.81	259.34	259.00	259.67	258.60	258.36	257.96	258.23	257.78	257.67	
12	257.72	258.15	257.83	258.95	258.97	259.44	258.60	258.32	257.96	258.19	257.77	257.67	
13	257.68	258.05	257.86	258.86	258.94	259.20	258.68	258.29	257.96	258.07	257.78	257.66	
14	257.66	258.02	258.33	258.81	258.92	259.11	258.64	258.26	257.95	257.99	257.77	257.66	
15	257.65	257.94	259.32	258.66	258.89	259.07	258.53	258.24	257.95	257.98	257.77	257.67	
16	257.66	257.92	259.01	258.25	258.90	259.05	258.45	258.23	257.95	257.95	257.77	257.65	
17	257.68	257.90	258.63	258.30	258.90	259.02	258.40	258.20	257.95	257.94	257.74	257.65	
18	257.69	257.83	258.26	258.27	258.89	258.97	258.35	258.19	257.95	257.92	257.75	257.64	
19	257.70	258.31	258.10	258.24	259.29	259.03	258.36	258.19	257.94	257.91	257.74	257.65	
20	257.72	258.24	258.03	258.25	260.57	259.19	258.38	258.17	257.94	257.91	257.73	257.66	
21	257.72	258.05	257.99	258.36	259.60	259.22	258.32	258.16	257.93	257.90	257.74	257.67	
22	257.82	258.00	257.99	259.18	259.04	259.17	258.34	258.15	257.92	257.90	257.74	257.68	
23	257.91	257.92	257.98	260.60	258.81	259.15	258.60	258.13	257.91	257.90	257.73	257.68	
24	257.86	257.89	258.01	260.21	258.78	260.22	258.74	258.12	257.91	257.89	257.73	257.68	
25	257.77	257.85	258.00	259.95	258.78	260.98	258.76	258.11	257.91	257.90	257.71	257.72	
26	257.77	257.83	257.98	260.14	258.77	259.92	258.47	258.09	257.91	257.89	257.71	257.81	
27	257.79	257.80	257.95	260.72	258.78	259.64	258.40	258.08	257.91	257.87	257.70	257.82	
28	257.72	257.82	257.94	261.02	258.81	259.25	258.34	258.07	257.91	257.85	257.70	257.79	
29	257.70	257.88	257.94	260.70	259.58	259.25	258.31	258.07	257.91	257.83		257.75	
30	257.72	257.93	257.94	260.14	261.39	259.91	258.28	258.06	257.92	257.84		257.73	
31		257.93		259.96	260.81		258.26		257.92	257.82		257.72	
Mean	257.72	258.34	258.04	259.13	259.30	260.08	258.65	258.27	257.96	257.94	257.76	257.69	
Max	257.91	260.43	259.32	261.02	261.39	262.44	259.86	258.82	258.06	258.23	257.82	257.82	262.44
Min	257.64	257.80	257.79	257.90	258.77	258.97	258.26	258.06	257.91	257.82	257.70	257.64	257.64

Annual Max Momentary Gage Height	262.74	m. (MSL.) ,	at 17.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	257.00	m. (MSL.) ,	River Bed	254.47	m. (MSL.)
Left Bank Elevation	267.61	m. (MSL.) ,			
Right Bank Elevation	267.34	m. (MSL.) ,	Drainage Area	1981	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	13.08	5.61	6.07	80.40	167.20	60.70	13.08	7.92	4.23	2.40	0.00		
2	0.90	11.24	4.23	5.84	48.00	330.00	43.00	12.44	7.65	4.46	2.40	0.00		
3	0.80	57.40	2.80	4.69	50.50	335.00	42.00	12.76	7.38	4.46	2.20	0.00		
4	0.70	76.20	2.60	4.69	50.00	234.80	39.50	18.65	7.38	4.46	2.20	0.00		
5	0.75	45.00	2.40	4.23	57.95	210.00	44.50	15.66	7.11	4.23	2.20	0.00		
6	0.90	51.50	2.00	4.00	83.40	297.80	91.20	21.45	6.84	4.23	2.20	0.00		
7	0.95	131.25	2.00	9.00	91.20	263.30	41.00	34.40	6.57	4.00	2.00	0.00		
8	0.95	65.65	1.90	51.50	71.70	185.00	35.75	34.40	6.30	4.00	2.00	0.00		
9	1.20	32.66	1.90	131.25	56.85	120.60	36.20	24.39	6.07	4.23	1.90	0.00		
10	1.00	28.16	2.00	149.60	49.50	102.40	28.54	19.70	5.61	10.40	1.70	0.00		
11	1.00	20.05	2.20	60.70	43.00	79.20	25.50	16.98	5.38	12.76	1.80	0.00		
12	1.20	10.40	2.60	40.50	41.50	66.20	25.50	15.66	5.38	11.52	1.70	0.00		
13	0.90	7.65	3.20	36.20	40.00	53.00	28.54	14.68	5.38	8.19	1.80	0.00		
14	0.80	6.84	15.99	33.95	39.00	48.50	27.02	13.72	5.15	6.07	1.70	0.00		
15	0.75	4.92	59.60	27.78	37.55	46.50	22.91	13.08	5.15	5.84	1.70	0.00		
16	0.80	4.46	43.50	13.40	38.00	45.50	20.05	12.76	5.15	5.15	1.70	0.00		
17	0.90	4.00	26.64	15.00	38.00	44.00	18.30	11.80	5.15	4.92	1.40	0.00		
18	0.95	2.60	13.72	14.04	37.55	41.50	16.65	11.52	5.15	4.46	1.50	0.00		
19	1.00	15.33	9.00	13.08	57.95	44.50	16.98	11.52	4.92	4.23	1.40	0.00		
20	1.20	13.08	7.11	13.40	141.75	52.50	17.64	10.96	4.92	4.23	1.30	0.00		
21	1.20	7.65	6.07	16.98	75.00	54.10	15.66	10.68	4.69	4.00	1.40	0.00		
22	2.40	6.30	6.07	52.00	45.00	51.50	16.32	10.40	4.46	4.00	1.40	0.00		
23	4.23	4.46	5.84	144.00	33.95	50.50	25.50	9.84	4.23	4.00	0.00	0.00		
24	3.20	3.80	6.57	115.70	32.66	116.40	30.98	9.56	4.23	3.80	0.00	0.00		
25	1.70	3.00	6.30	97.50	32.66	176.20	31.82	9.28	4.23	4.00	0.00	0.00		
26	1.70	2.60	5.84	110.80	32.24	95.40	20.75	8.73	4.23	3.80	0.00	0.00		
27	1.90	2.00	5.15	153.60	32.66	77.40	18.30	8.46	4.23	3.40	0.00	0.00		
28	1.20	2.40	4.92	180.00	33.95	55.75	16.32	8.19	4.23	3.00	0.00	0.00		
29	1.00	3.60	4.92	152.00	73.90	55.75	15.33	8.19	4.23	2.60		0.00		
30	1.20	4.69	4.92	110.80	217.00	94.70	14.36	7.92	4.46	2.80		0.00		
31		4.69		98.20	160.90		13.72		4.46	2.40		0.00		
Total	38.48	646.66	267.60	1870.50	1923.72	3595.20	900.54	430.86	168.24	153.87	40.00	0.00	10035.67	CMSDAY
Mean	1.28	20.86	8.92	60.34	62.06	119.84	29.05	14.36	5.43	4.96	1.43	0.00	27.49	CMS
Max	4.23	131.25	59.60	180.00	217.00	335.00	91.20	34.40	7.92	12.76	2.40	0.00	335.00	CMS
Min	0.70	2.00	1.90	4.00	32.24	41.50	13.72	7.92	4.23	2.40	0.00	0.00	0.00	CMS
Runoff	3.33	55.87	23.12	161.61	166.21	310.63	77.81	37.23	14.54	13.29	3.46	0.00	867.08	MCM

Momentary Peak 372.50 CMS. at 262.74 m. (MSL.) at 17.00 Hours , on Sep 3 , 2014

Runoff Yield 13.88 Liters/Second/Square KM. Momentary Peak Yield 188.036 Liters/Second/Square KM.

WATER YEAR : 2014

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.

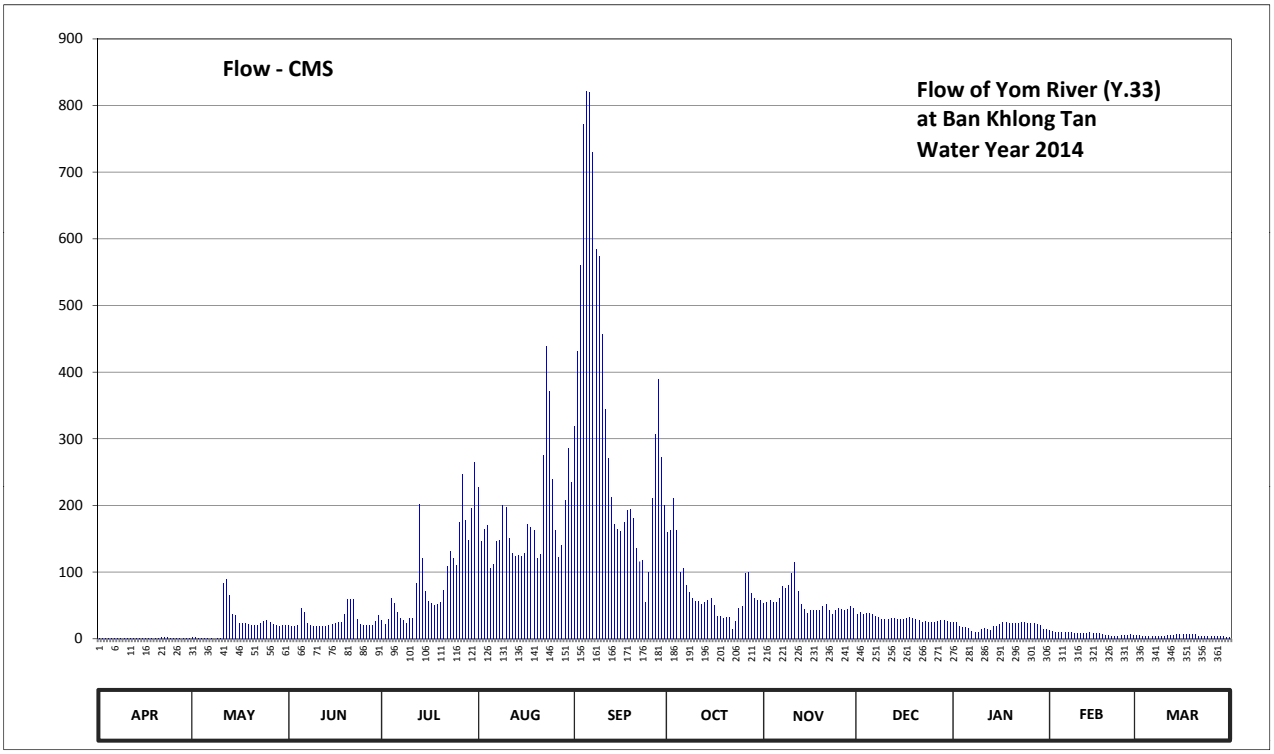
Ban Khlong Tan **Amphoe** Si Samrong **Changwat** Sukhothai

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** +55.420 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	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Flot	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +56.460 m.(MSL.), records are channel flow only.
General Description	Records good. Flow effected by the temporary weir about 500 meters dowmstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.28	46.37	47.19	47.39	50.96	52.10	49.99	49.19	48.70	48.22	47.51	46.82	
2	46.29	46.37	47.15	47.20	49.80	53.39	50.04	49.23	48.78	48.22	47.42	46.82	
3	46.29	46.32	47.13	47.44	50.07	54.75	50.74	49.30	48.68	47.92	47.28	46.72	
4	46.28	46.27	47.18	48.23	50.15	56.78	50.04	49.21	48.75	47.82	47.22	46.72	
5	46.29	46.25	47.88	48.07	49.10	57.23	49.00	49.23	48.74	47.78	47.22	46.72	
6	46.29	46.24	47.73	47.75	49.22	57.22	49.12	49.40	48.71	47.70	47.22	46.72	
7	46.29	46.21	47.25	47.51	49.78	56.39	48.64	49.74	48.59	47.42	47.22	46.72	
8	46.29	46.20	47.18	47.39	49.82	54.99	48.43	49.69	48.51	47.27	47.22	46.72	
9	46.29	46.22	47.15	47.25	50.59	54.88	48.23	49.75	48.40	47.28	47.19	46.72	
10	46.29	46.24	47.12	47.47	50.54	53.67	48.16	50.02	48.37	47.64	47.14	46.72	
11	46.29	48.71	47.14	47.47	49.87	52.41	48.14	50.20	48.39	47.73	47.12	46.77	
12	46.29	48.82	47.12	48.69	49.48	51.52	48.04	49.61	48.44	47.60	47.12	46.82	
13	46.29	48.35	47.12	50.61	49.40	50.77	48.12	49.15	48.46	47.47	47.19	46.82	
14	46.30	47.68	47.17	49.37	49.44	50.17	48.18	48.94	48.39	47.87	47.27	47.02	
15	46.30	47.63	47.20	48.47	49.40	50.07	48.26	48.74	48.37	47.92	47.17	47.02	
16	46.30	47.26	47.28	48.15	49.48	50.02	47.99	48.88	48.37	48.06	47.15	46.97	
17	46.30	47.25	47.30	48.09	50.19	50.23	47.56	48.89	48.46	48.21	47.11	46.92	
18	46.32	47.28	47.33	47.99	50.12	50.49	47.56	48.87	48.53	48.19	46.98	46.92	
19	46.32	47.22	47.67	48.04	50.04	50.50	47.50	48.90	48.50	48.07	46.88	46.92	
20	46.33	47.17	48.21	48.12	49.37	50.32	47.55	49.05	48.40	48.09	46.82	46.92	
21	46.35	47.17	48.22	48.49	49.46	49.61	47.54	49.14	48.34	48.09	46.73	46.72	
22	46.37	47.16	48.20	49.16	51.57	49.28	47.60	48.87	48.21	48.12	46.72	46.72	
23	46.37	47.29	47.44	49.53	53.47	49.31	48.28	48.70	48.25	48.17	46.69	46.72	
24	46.26	47.37	47.20	49.35	52.72	48.13	48.97	48.87	48.18	48.17	46.76	46.62	
25	46.22	47.39	47.18	49.18	51.13	49.00	49.07	48.96	48.22	48.12	46.82	46.62	
26	46.22	47.34	47.16	50.22	50.04	50.74	50.01	48.95	48.17	48.07	46.87	46.62	
27	46.22	47.20	47.17	51.22	49.39	51.97	50.03	48.91	48.25	48.07	46.92	46.62	
28	46.22	47.16	47.18	50.26	49.69	52.93	49.54	48.93	48.35	48.00	46.87	46.62	
29	46.21	47.12	47.36	49.81	50.69	51.54	49.38	49.04	48.33	47.99		46.60	
30	46.21	47.17	47.62	50.53	51.71	50.58	49.32	48.98	48.27	47.62		46.57	
31		47.17		51.45	51.07		49.31		48.22	47.57		46.57	
Mean	46.29	47.08	47.37	48.71	50.25	52.03	48.72	49.18	48.43	47.89	47.07	46.76	
Max	46.37	48.82	48.22	51.45	53.47	57.23	50.74	50.20	48.78	48.22	47.51	47.02	57.23
Min	46.21	46.20	47.12	47.20	49.10	48.13	47.50	48.70	48.17	47.27	46.69	46.57	46.20

Annual Max Momentary Gage Height	57.34	m. (MSL.) ,	at 06.00 Hours , on Sep 6 , 2014		
Zero Gage at Bottom Elevation	45.82	m. (MSL.) ,	River Bed	44.29	m. (MSL.)
Left Bank Elevation	56.51	m. (MSL.) ,			
Right Bank Elevation	56.45	m. (MSL.) ,	Drainage Area	13948	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	1.70	20.70	27.15	226.50	318.00	159.35	53.15	37.00	25.40	12.65	5.20		
2	0.90	1.70	19.50	21.00	147.00	431.10	162.60	54.55	39.40	25.40	11.30	5.20		
3	0.90	1.20	18.90	28.90	164.55	560.00	210.80	57.00	36.40	19.40	9.80	4.20		
4	0.80	0.70	20.40	59.85	169.75	771.80	162.60	53.85	38.50	17.40	9.20	4.20		
5	0.90	0.50	45.20	52.80	105.00	821.30	99.00	54.55	38.20	16.70	9.20	4.20		
6	0.90	0.40	39.20	40.00	112.20	820.20	106.20	61.00	37.30	15.50	9.20	4.20		
7	0.90	0.10	22.50	31.35	145.80	728.90	80.00	79.40	33.75	11.30	9.20	4.20		
8	0.90	0.00	20.40	27.15	148.30	584.00	69.50	76.40	31.75	9.70	9.20	4.20		
9	0.90	0.20	19.50	22.50	200.30	573.00	59.85	80.00	29.00	9.80	8.90	4.20		
10	0.90	0.40	18.60	29.95	196.80	456.65	56.70	98.60	28.40	14.60	8.40	4.20		
11	0.90	83.50	19.20	29.95	151.55	344.35	55.80	114.00	28.80	15.95	8.20	4.70		
12	0.90	89.10	18.60	82.50	127.80	270.60	51.60	71.60	30.00	14.00	8.20	5.20		
13	0.90	65.50	18.60	201.70	123.00	212.90	54.90	51.75	30.50	12.05	8.90	5.20		
14	1.00	37.30	20.10	121.20	125.40	171.05	57.60	44.40	28.80	18.40	9.70	7.20		
15	1.00	35.55	21.00	71.50	123.00	164.55	61.20	38.20	28.40	19.40	8.70	7.20		
16	1.00	22.80	23.40	56.25	127.80	161.30	49.60	42.40	28.40	22.20	8.50	6.70		
17	1.00	22.50	24.00	53.60	172.35	175.10	33.10	42.70	30.50	25.20	8.10	6.20		
18	1.20	23.40	25.05	49.60	167.80	193.30	33.10	42.10	32.25	24.80	6.80	6.20		
19	1.20	21.60	36.95	51.60	162.60	194.00	31.00	43.00	31.50	22.40	5.80	6.20		
20	1.30	20.10	58.95	54.90	121.20	181.40	32.75	48.25	29.00	22.80	5.20	6.20		
21	1.50	20.10	59.40	72.50	126.60	135.60	32.40	51.40	27.80	22.80	4.30	4.20		
22	1.70	19.80	58.50	108.60	274.60	115.80	14.00	42.10	25.20	23.40	4.20	4.20		
23	1.70	23.70	28.90	130.80	438.30	117.60	26.60	37.00	26.00	24.40	3.90	4.20		
24	0.60	26.45	21.00	120.00	370.80	55.35	45.45	42.10	24.60	24.40	4.60	3.20		
25	0.20	27.15	20.40	109.80	239.40	99.00	48.95	45.10	25.40	23.40	5.20	3.20		
26	0.20	25.40	19.80	174.40	162.60	210.80	97.80	44.75	24.40	22.40	5.70	3.20		
27	0.20	21.00	20.10	246.60	122.40	306.95	99.40	43.35	26.00	22.40	6.20	3.20		
28	0.20	19.80	20.40	177.20	140.40	389.70	68.00	44.05	28.00	21.00	5.70	3.20		
29	0.10	18.60	26.10	147.65	207.30	272.20	60.20	47.90	27.60	20.80		3.00		
30	0.10	20.10	35.20	196.10	285.80	199.60	57.80	45.80	26.40	14.30		2.70		
31		20.10		265.00	234.75		57.40		25.40	13.55		2.70		
Total	25.70	670.45	820.55	2862.10	5621.65	10036.10	2235.25	1650.45	934.65	595.25	214.95	142.00	25809.10	CMSDAY
Mean	0.86	21.63	27.35	92.33	181.34	334.54	72.10	55.01	30.15	19.20	7.68	4.58	70.71	CMS
Max	1.70	89.10	59.40	265.00	438.30	821.30	210.80	114.00	39.40	25.40	12.65	7.20	821.30	CMS
Min	0.10	0.00	18.60	21.00	105.00	55.35	14.00	37.00	24.40	9.70	3.90	2.70	0.00	CMS
Runoff	2.22	57.93	70.90	247.29	485.71	867.12	193.13	142.60	80.75	51.43	18.57	12.27	2229.91	MCM

Momentary Peak 833.40 CMS. at 57.34 m. (MSL.) at 06.00 Hours , on Sep 6 , 2014

Runoff Yield 5.07 Liters/Second/Square KM. Momentary Peak Yield 59.751 Liters/Second/Square KM.

WATER YEAR : 2014

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.

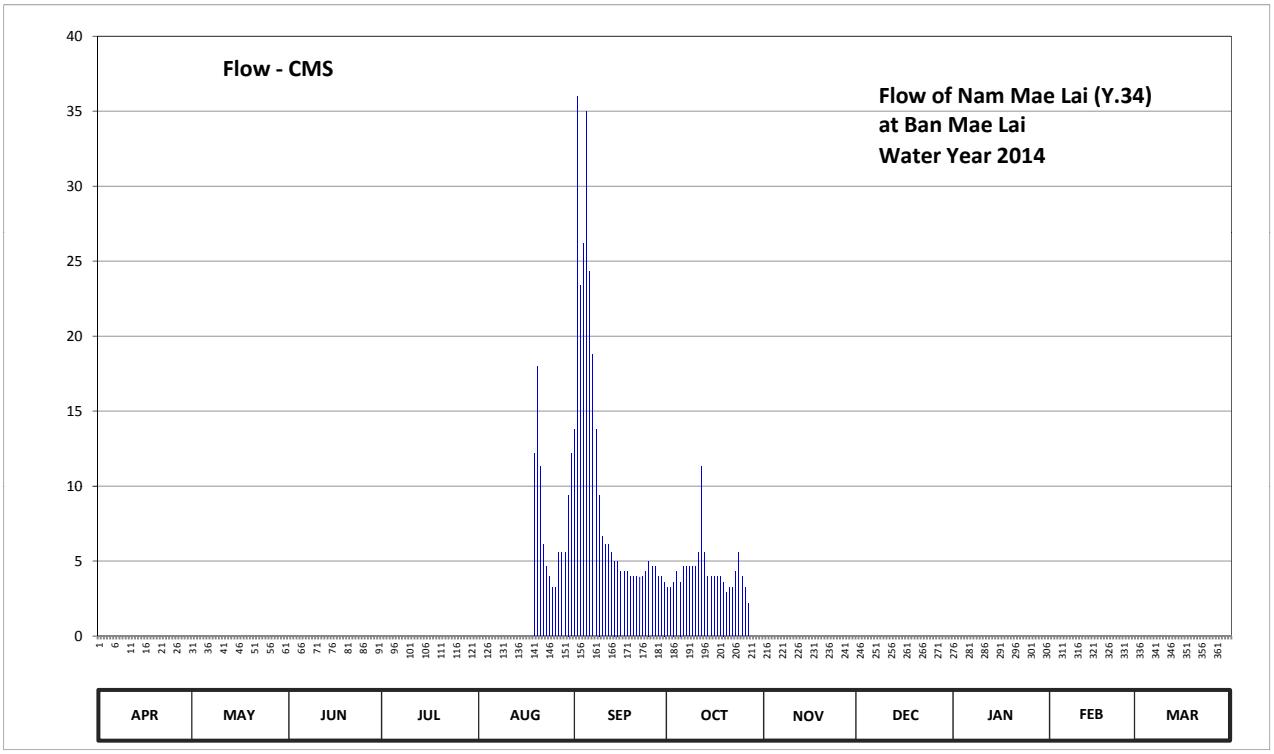
Ban Mae Lai **Amphoe** Mueang **Changwat** Phrae

Drainge Area	336 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+157.270 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10 meters from the top staff gage. **Elevation** +167.293 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
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 46 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.20	159.20	159.17	159.32	159.25	159.44	159.25	159.22	159.18	159.24	159.19	159.18	
2	159.17	159.20	159.17	159.27	159.25	159.68	159.25	159.22	159.18	159.24	159.19	159.19	
3	159.17	159.20	159.17	159.26	159.25	159.55	159.26	159.22	159.18	159.24	159.20	159.20	
4	159.17	159.20	159.17	159.22	159.26	159.58	159.28	159.31	159.18	159.24	159.17	159.21	
5	159.17	159.20	159.17	159.22	159.29	159.67	159.26	159.29	159.18	159.23	159.17	159.23	
6	159.17	159.20	159.17	159.22	159.32	159.56	159.29	159.29	159.18	159.22	159.17	159.26	
7	159.17	159.20	159.17	159.22	159.31	159.50	159.29	159.29	159.18	159.21	159.17	159.23	
8	159.17	159.20	159.17	159.24	159.31	159.44	159.29	159.29	159.17	159.20	159.18	159.20	
9	159.17	159.20	159.17	159.28	159.29	159.38	159.29	159.28	159.17	159.20	159.19	159.19	
10	159.17	159.20	159.17	159.29	159.28	159.33	159.29	159.28	159.17	159.22	159.19	159.17	
11	159.17	159.17	159.17	159.27	159.28	159.32	159.31	159.27	159.17	159.26	159.19	159.17	
12	159.18	159.17	159.17	159.27	159.27	159.32	159.41	159.25	159.17	159.26	159.19	159.18	
13	159.23	159.17	159.17	159.27	159.27	159.31	159.31	159.22	159.17	159.25	159.19	159.19	
14	159.23	159.17	159.18	159.27	159.26	159.30	159.27	159.22	159.17	159.24	159.19	159.19	
15	159.23	159.17	159.19	159.27	159.30	159.30	159.27	159.22	159.18	159.23	159.19	159.18	
16	159.23	159.17	159.20	159.27	159.30	159.28	159.27	159.22	159.21	159.23	159.19	159.17	
17	159.23	159.17	159.22	159.26	159.27	159.28	159.27	159.22	159.20	159.23	159.18	159.18	
18	159.21	159.17	159.21	159.28	159.28	159.28	159.27	159.22	159.19	159.23	159.18	159.18	
19	159.17	159.17	159.20	159.29	159.42	159.27	159.26	159.21	159.19	159.22	159.18	159.18	
20	159.17	159.17	159.22	159.29	159.49	159.27	159.24	159.22	159.18	159.22	159.18	159.17	
21	159.17	159.17	159.19	159.29	159.41	159.27	159.25	159.22	159.17	159.22	159.18	159.17	
22	159.17	159.17	159.19	159.30	159.32	159.27	159.25	159.21	159.18	159.24	159.18	159.17	
23	159.17	159.17	159.19	159.32	159.29	159.27	159.28	159.20	159.20	159.24	159.17	159.17	
24	159.17	159.17	159.20	159.30	159.27	159.28	159.31	159.20	159.20	159.22	159.17	159.17	
25	159.17	159.17	159.21	159.29	159.25	159.30	159.27	159.18	159.20	159.21	159.17	159.19	
26	159.18	159.15	159.21	159.27	159.25	159.29	159.25	159.17	159.22	159.17	159.17	159.22	
27	159.20	159.17	159.21	159.27	159.31	159.29	159.22	159.17	159.23	159.17	159.17	159.21	
28	159.20	159.17	159.21	159.27	159.31	159.27	159.22	159.17	159.24	159.17	159.18	159.21	
29	159.20	159.17	159.21	159.27	159.31	159.27	159.22	159.17	159.25	159.18		159.21	
30	159.20	159.17	159.21	159.27	159.38	159.26	159.22	159.17	159.24	159.19		159.20	
31		159.17		159.27	159.42		159.22		159.24	159.19		159.20	
Mean	159.19	159.18	159.19	159.27	159.31	159.36	159.27	159.23	159.19	159.22	159.18	159.19	
Max	159.23	159.20	159.22	159.32	159.49	159.68	159.41	159.31	159.25	159.26	159.20	159.26	159.68
Min	159.17	159.15	159.17	159.22	159.25	159.26	159.22	159.17	159.17	159.17	159.17	159.17	159.15

Annual Max Momentary Gage Height	159.95	m. (MSL.) ,	at 11.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	157.27	m. (MSL.) ,	River Bed	157.61	m. (MSL)
Left Bank Elevation	167.47	m. (MSL.) ,			
Right Bank Elevation	167.46	m. (MSL.) ,	Drainage Area	336	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	13.82	3.25	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	36.00	3.25	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	23.40	3.60	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	26.16	4.30	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	35.00	3.60	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	24.32	4.65	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	18.80	4.65	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	13.82	4.65	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	9.40	4.65	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	6.65	4.65	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	6.10	5.55	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	6.10	11.33	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	5.55	5.55	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	5.00	3.95	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	5.00	3.95	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	4.30	3.95	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	4.30	3.95	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	4.30	3.95	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	12.16	3.95	3.60	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	17.97	3.95	2.90	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	11.33	3.95	3.25	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	6.10	3.95	3.25	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	4.65	3.95	4.30	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	3.95	4.30	5.55	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	3.25	5.00	3.95	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	3.25	4.65	3.25	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	5.55	4.65	2.20	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	5.55	3.95	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	5.55	3.95	0.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	9.40	3.60	0.00	0.00	0.00	0.00		0.00		
31		0.00		0.00	12.16		0.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	100.87	297.87	115.68	0.00	0.00	0.00	0.00	0.00	514.42	CMSDAY
Mean	0.00	0.00	0.00	0.00	3.25	9.93	3.73	0.00	0.00	0.00	0.00	0.00	1.41	CMS
Max	0.00	0.00	0.00	0.00	17.97	36.00	11.33	0.00	0.00	0.00	0.00	0.00	36.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	8.72	25.74	10.00	0.00	0.00	0.00	0.00	0.00	44.45	MCM

Momentary Peak 68.75 CMS. at 159.95 m. (MSL.) at 11.00 Hours , on Sep 2 , 2014

Runoff Yield 4.19 Liters/Second/Square KM. Momentary Peak Yield 204.613 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

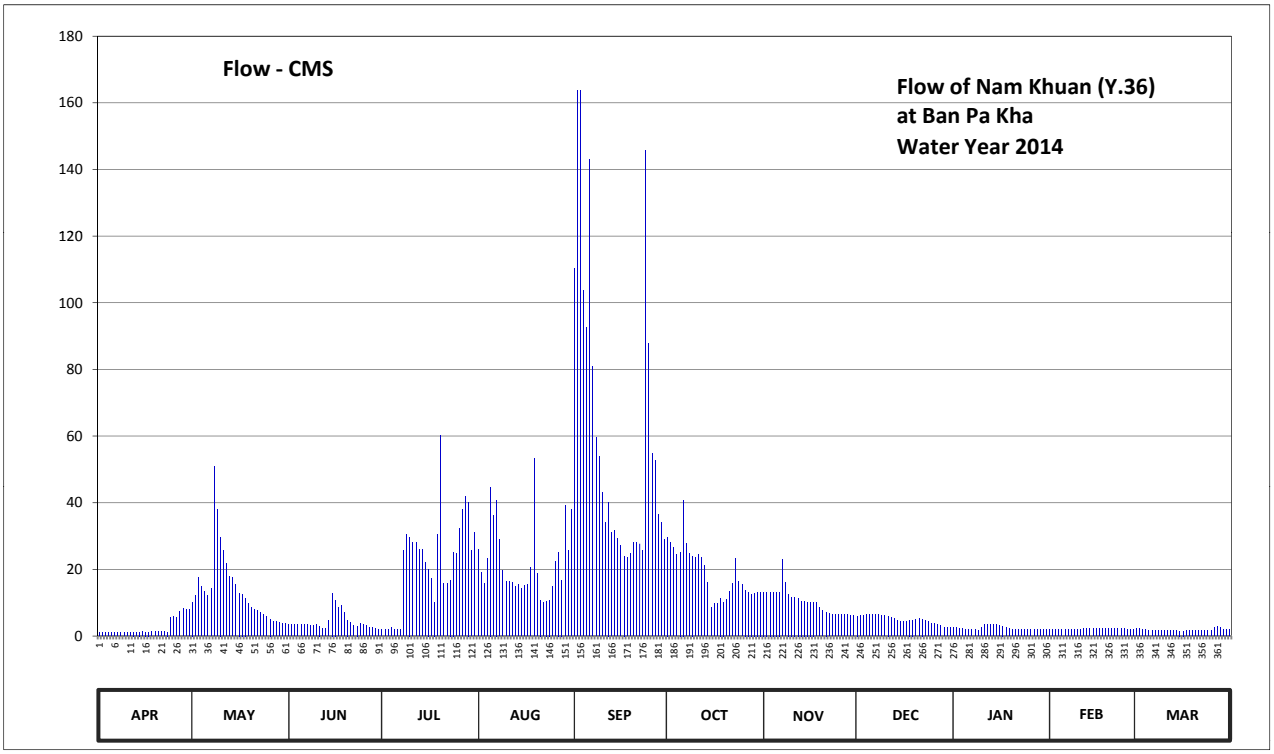
Location : on left bank at the bridge.

	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	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	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the islet at the gage site.		
	Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.33	300.59	300.29	300.19	301.04	302.39	301.13	300.69	300.42	300.23	300.19	300.21	
2	300.32	300.66	300.29	300.19	300.86	303.02	301.09	300.69	300.43	300.23	300.19	300.21	
3	300.32	300.82	300.29	300.19	300.77	303.02	301.05	300.69	300.43	300.22	300.19	300.20	
4	300.32	300.74	300.28	300.24	300.97	302.31	301.00	300.69	300.44	300.21	300.20	300.20	
5	300.31	300.70	300.28	300.19	301.43	302.17	301.02	300.69	300.44	300.20	300.20	300.18	
6	300.31	300.66	300.28	300.19	301.27	302.79	301.36	300.69	300.44	300.19	300.19	300.18	
7	300.35	300.72	300.28	300.19	301.36	302.02	301.08	300.96	300.44	300.19	300.19	300.18	
8	300.34	301.54	300.27	301.03	301.11	301.69	301.01	300.78	300.44	300.19	300.19	300.17	
9	300.33	301.31	300.27	301.15	300.88	301.59	300.99	300.67	300.43	300.18	300.19	300.17	
10	300.33	301.13	300.29	301.13	300.79	301.40	300.98	300.64	300.43	300.24	300.19	300.17	
11	300.35	301.03	300.26	301.09	300.79	301.23	301.00	300.64	300.42	300.28	300.19	300.17	
12	300.36	300.93	300.22	301.09	300.78	301.35	300.98	300.63	300.40	300.29	300.21	300.17	
13	300.35	300.83	300.21	301.04	300.74	301.16	300.92	300.60	300.39	300.29	300.21	300.17	
14	300.36	300.82	300.35	301.04	300.76	301.18	300.78	300.60	300.35	300.28	300.21	300.17	
15	300.37	300.76	300.68	300.94	300.72	301.12	300.53	300.59	300.33	300.28	300.21	300.16	
16	300.36	300.68	300.61	300.89	300.75	301.07	300.57	300.59	300.34	300.27	300.21	300.16	
17	300.36	300.67	300.53	300.81	300.76	300.99	300.57	300.59	300.34	300.26	300.21	300.17	
18	300.37	300.63	300.55	300.59	300.90	300.98	300.63	300.58	300.36	300.24	300.21	300.17	
19	300.38	300.57	300.46	301.15	301.58	301.01	300.59	300.53	300.36	300.22	300.21	300.18	
20	300.39	300.53	300.36	301.70	300.85	301.09	300.62	300.49	300.37	300.19	300.21	300.17	
21	300.39	300.50	300.32	300.77	300.61	301.09	300.70	300.47	300.39	300.19	300.21	300.17	
22	300.37	300.49	300.27	300.77	300.58	301.08	300.77	300.45	300.38	300.19	300.21	300.17	
23	300.36	300.46	300.26	300.80	300.60	301.03	300.97	300.44	300.35	300.19	300.21	300.17	
24	300.40	300.44	300.30	301.02	300.61	302.82	300.79	300.44	300.33	300.19	300.21	300.17	
25	300.41	300.41	300.29	301.01	300.74	302.11	300.76	300.44	300.31	300.19	300.21	300.18	
26	300.40	300.38	300.27	301.19	300.95	301.61	300.71	300.44	300.30	300.19	300.20	300.23	
27	300.48	300.34	300.24	301.31	301.02	301.57	300.69	300.44	300.28	300.19	300.20	300.25	
28	300.51	300.34	300.23	301.38	300.80	301.28	300.67	300.44	300.27	300.20	300.20	300.23	
29	300.50	300.32	300.21	301.35	301.33	301.23	300.68	300.43	300.24	300.19		300.20	
30	300.50	300.31	300.20	301.03	301.03	301.11	300.69	300.43	300.24	300.19		300.19	
31		300.30		301.16	301.31		300.69		300.24	300.19		300.19	
Mean	300.37	300.66	300.32	300.87	300.93	301.62	300.84	300.58	300.37	300.22	300.20	300.18	
Max	300.51	301.54	300.68	301.70	301.58	303.02	301.36	300.96	300.44	300.29	300.21	300.25	303.02
Min	300.31	300.30	300.20	300.19	300.58	300.98	300.53	300.43	300.24	300.18	300.19	300.16	300.16

Annual Max Momentary Gage Height	303.39	m. (MSL.) ,	at 06.00 Hours , on Sep 3, 2014		
Zero Gage at Bottom Elevation	298.59	m. (MSL.) ,	River Bed	298.90	m. (MSL.)
Left Bank Elevation	307.38	m. (MSL.) ,			
Right Bank Elevation	307.40	m. (MSL.) ,	Drainage Area	853	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.05	10.24	3.53	1.88	26.04	110.20	29.73	13.20	5.98	2.51	1.88	2.17		
2	1.00	12.30	3.53	1.88	19.02	163.80	28.09	13.20	6.22	2.51	1.88	2.17		
3	1.00	17.54	3.53	1.88	15.81	163.80	26.45	13.20	6.22	2.34	1.88	2.00		
4	1.00	14.82	3.36	2.68	23.23	103.80	24.40	13.20	6.46	2.17	2.00	2.00		
5	0.95	13.50	3.36	1.88	44.71	92.66	25.22	13.20	6.46	2.00	2.00	1.76		
6	0.95	12.30	3.36	1.88	36.03	143.15	40.80	13.20	6.46	1.88	1.88	1.76		
7	1.15	14.16	3.36	1.88	40.80	80.96	27.68	22.84	6.46	1.88	1.88	1.76		
8	1.10	50.98	3.19	25.63	28.91	59.62	24.81	16.14	6.46	1.88	1.88	1.64		
9	1.05	38.05	3.19	30.55	19.76	53.83	24.01	12.60	6.22	1.76	1.88	1.64		
10	1.05	29.73	3.53	29.73	16.47	43.00	23.62	11.70	6.22	2.68	1.88	1.64		
11	1.15	25.63	3.02	28.09	16.47	34.07	24.40	11.70	5.98	3.36	1.88	1.64		
12	1.20	21.67	2.34	28.09	16.14	40.25	23.62	11.40	5.50	3.53	2.17	1.64		
13	1.15	17.91	2.17	26.04	14.82	30.96	21.28	10.50	5.32	3.53	2.17	1.64		
14	1.20	17.54	4.60	26.04	15.48	31.78	16.14	10.50	4.60	3.36	2.17	1.64		
15	1.25	15.48	12.90	22.06	14.16	29.32	8.68	10.24	4.24	3.36	2.17	1.52		
16	1.20	12.90	10.80	20.13	15.15	27.27	9.72	10.24	4.42	3.19	2.17	1.52		
17	1.20	12.60	8.68	17.17	15.48	24.01	9.72	10.24	4.42	3.02	2.17	1.64		
18	1.25	11.40	9.20	10.24	20.50	23.62	11.40	9.98	4.78	2.68	2.17	1.64		
19	1.30	9.72	6.94	30.55	53.26	24.81	10.24	8.68	4.78	2.34	2.17	1.76		
20	1.35	8.68	4.78	60.20	18.65	28.09	11.10	7.66	4.96	1.88	2.17	1.64		
21	1.35	7.90	4.06	15.81	10.80	28.09	13.50	7.18	5.32	1.88	2.17	1.64		
22	1.25	7.66	3.19	15.81	9.98	27.68	15.81	6.70	5.14	1.88	2.17	1.64		
23	1.20	6.94	3.02	16.80	10.50	25.63	23.23	6.46	4.60	1.88	2.17	1.64		
24	5.50	6.46	3.70	25.22	10.80	145.80	16.47	6.46	4.24	1.88	2.17	1.64		
25	5.74	5.74	3.53	24.81	14.82	87.98	15.48	6.46	3.88	1.88	2.17	1.76		
26	5.50	5.14	3.19	32.19	22.45	54.98	13.83	6.46	3.70	1.88	2.00	2.51		
27	7.42	4.42	2.68	38.05	25.22	52.69	13.20	6.46	3.36	1.88	2.00	2.85		
28	8.16	4.42	2.51	41.90	16.80	36.52	12.60	6.46	3.19	2.00	2.00	2.51		
29	7.90	4.06	2.17	40.25	39.15	34.07	12.90	6.22	2.68	1.88		2.00		
30	7.90	3.88	2.00	25.63	25.63	28.91	13.20	6.22	2.68	1.88		1.88		
31		3.70		30.96	38.05		13.20		2.68	1.88		1.88		
Total	74.47	427.47	129.42	675.91	695.09	1831.35	584.53	308.70	153.63	72.66	57.30	56.77	5067.30	CMSDAY
Mean	2.48	13.79	4.31	21.80	22.42	61.05	18.86	10.29	4.96	2.34	2.05	1.83	13.88	CMS
Max	8.16	50.98	12.90	60.20	53.26	163.80	40.80	22.84	6.46	3.53	2.17	2.85	163.80	CMS
Min	0.95	3.70	2.00	1.88	9.98	23.62	8.68	6.22	2.68	1.76	1.88	1.52	0.95	CMS
Runoff	6.43	36.93	11.18	58.40	60.06	158.23	50.50	26.67	13.27	6.28	4.95	4.91	437.82	MCM

Momentary Peak 198.53 CMS. at 303.39 m. (MSL.) at 06.00 Hours , on Sep 3 , 2014

Runoff Yield 16.28 Liters/Second/Square KM. Momentary Peak Yield 232.743 Liters/Second/Square KM.

WATER YEAR : 2014

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	Water - stage recorder.		
Zero Gage at Bottom	+92.280 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5 meters from the top staff gage.		**Elevation** +105.250 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 50 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

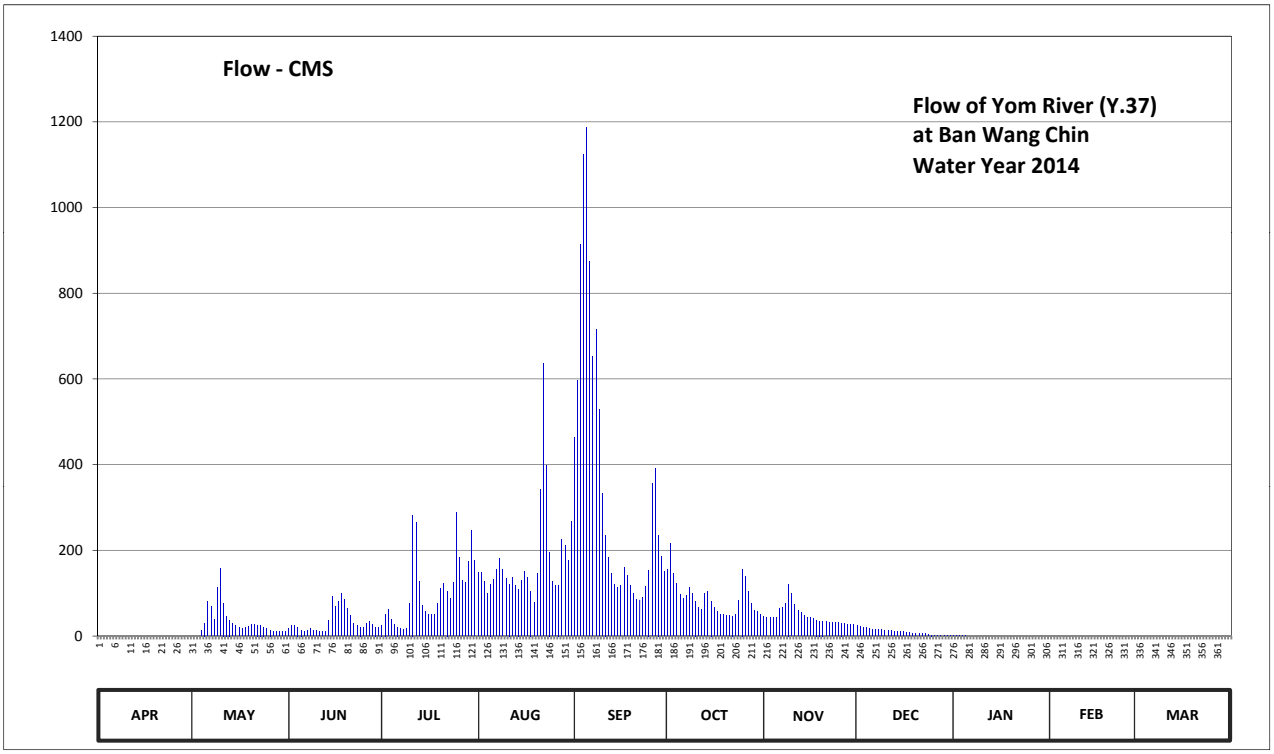
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.36	94.23	94.40	94.54	95.90	98.21	95.96	94.82	94.53	94.05	94.38	94.46	
2	94.36	94.23	94.52	94.89	95.90	99.00	96.47	94.78	94.48	94.05	94.36	94.46	
3	94.35	94.26	94.53	95.01	95.71	100.71	95.88	94.78	94.46	94.04	94.36	94.46	
4	94.33	94.32	94.47	94.73	95.42	101.75	95.67	94.79	94.44	94.04	94.40	94.44	
5	94.32	94.61	94.35	94.55	95.66	102.07	95.41	94.79	94.41	94.05	94.44	94.44	
6	94.30	95.21	94.27	94.47	95.76	100.51	95.29	95.04	94.38	94.20	94.42	94.44	
7	94.28	95.08	94.33	94.42	95.96	99.31	95.38	95.07	94.38	94.35	94.41	94.44	
8	94.32	94.73	94.40	94.38	96.18	99.65	95.58	95.16	94.37	94.33	94.48	94.44	
9	94.40	95.59	94.33	94.41	95.96	98.59	95.42	95.66	94.36	94.37	94.46	94.44	
10	94.46	95.98	94.32	95.17	95.78	97.35	95.23	95.43	94.34	94.56	94.47	94.43	
11	94.46	95.18	94.28	96.99	95.66	96.63	95.06	95.14	94.33	94.65	94.49	94.43	
12	94.46	94.83	94.28	96.85	95.80	96.20	95.01	94.98	94.31	94.61	94.52	94.42	
13	94.48	94.71	94.30	95.72	95.63	95.89	95.42	94.93	94.28	94.73	94.52	94.38	
14	94.46	94.60	94.69	95.12	95.54	95.65	95.48	94.86	94.27	94.85	94.48	94.38	
15	94.44	94.52	95.35	94.95	95.73	95.58	95.23	94.78	94.27	94.76	94.48	94.37	
16	94.40	94.45	95.08	94.88	95.93	95.63	95.06	94.78	94.26	94.68	94.47	94.37	
17	94.28	94.42	95.22	94.87	95.80	96.00	94.96	94.75	94.24	94.66	94.47	94.38	
18	94.28	94.43	95.43	94.87	95.49	95.84	94.88	94.71	94.22	94.63	94.47	94.38	
19	94.28	94.50	95.27	95.16	95.20	95.62	94.87	94.68	94.18	94.57	94.47	94.38	
20	94.26	94.56	95.03	95.56	95.88	95.42	94.86	94.68	94.18	94.54	94.46	94.38	
21	94.24	94.56	94.85	95.67	97.41	95.26	94.84	94.66	94.18	94.54	94.46	94.38	
22	94.24	94.54	94.60	95.49	99.21	95.26	94.83	94.64	94.18	94.52	94.48	94.37	
23	94.25	94.54	94.53	95.29	97.81	95.32	94.87	94.63	94.16	94.52	94.48	94.36	
24	94.28	94.47	94.47	95.70	96.30	95.61	95.25	94.63	94.13	94.50	94.48	94.36	
25	94.28	94.42	94.46	97.03	95.71	95.95	95.97	94.64	94.08	94.48	94.48	94.38	
26	94.28	94.35	94.59	96.20	95.63	97.51	95.83	94.61	94.07	94.25	94.48	94.42	
27	94.28	94.28	94.65	95.74	95.64	97.76	95.48	94.58	94.07	94.24	94.48	94.48	
28	94.28	94.28	94.55	95.69	96.54	96.63	95.17	94.56	94.07	94.23	94.47	94.48	
29	94.26	94.26	94.47	96.12	96.43	96.21	94.98	94.56	94.06	94.35		94.47	
30	94.21	94.28	94.44	96.71	96.14	95.93	94.95	94.55	94.06	94.44		94.49	
31		94.28		96.13	96.87		94.88		94.06	94.41		94.51	
Mean	94.33	94.60	94.62	95.40	96.08	97.23	95.30	94.82	94.25	94.43	94.46	94.42	
Max	94.48	95.98	95.43	97.03	99.21	102.07	96.47	95.66	94.53	94.85	94.52	94.51	102.07
Min	94.21	94.23	94.27	94.38	95.20	95.26	94.83	94.55	94.06	94.04	94.36	94.36	94.04

Annual Max Momentary Gage Height 102.35 m. (MSL.) , at 04.00 Hours , on Sep 5 , 2014

Zero Gage at Bottom Elevation 92.28 m. (MSL.) , River Bed 92.11 m. (MSL.)

Left Bank Elevation 105.34 m. (MSL.) ,

Right Bank Elevation 106.41 m. (MSL.) , Drainage Area 10305 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	17.00	25.84	148.00	463.70	155.20	45.66	25.18	1.60	0.00	0.00		
2	0.00	0.00	24.52	51.47	148.00	598.00	216.40	42.50	21.96	1.60	0.00	0.00		
3	0.00	0.00	25.18	61.90	126.55	915.00	145.60	42.50	20.72	1.28	0.00	0.00		
4	0.00	12.60	21.34	38.75	98.80	1123.00	122.35	43.25	19.48	1.28	0.00	0.00		
5	0.00	30.47	14.25	26.50	121.30	1187.00	97.90	43.25	17.62	1.60	0.00	0.00		
6	0.00	79.90	10.15	21.34	131.80	875.00	87.10	64.60	15.90	0.00	0.00	0.00		
7	0.00	68.20	13.15	18.24	155.20	653.80	95.20	67.30	15.90	0.00	0.00	0.00		
8	0.00	38.75	17.00	15.90	181.60	715.00	113.20	75.40	15.35	0.00	0.00	0.00		
9	0.00	114.10	13.15	17.62	155.20	528.30	98.80	121.30	14.80	0.00	0.00	0.00		
10	0.00	157.60	12.60	76.30	133.90	333.00	81.70	99.70	13.70	0.00	0.00	0.00		
11	0.00	77.20	10.60	282.70	121.30	235.90	66.40	73.60	13.15	0.00	0.00	0.00		
12	0.00	46.49	10.60	264.50	136.00	184.00	61.90	59.26	12.05	0.00	0.00	0.00		
13	0.00	37.25	11.50	127.60	118.15	146.80	98.80	54.91	10.60	0.00	0.00	0.00		
14	0.00	29.80	35.83	71.80	109.60	120.25	104.20	48.98	10.15	0.00	0.00	0.00		
15	0.00	24.52	92.50	56.65	128.65	113.20	81.70	42.50	10.15	0.00	0.00	0.00		
16	0.00	20.10	68.20	50.64	151.60	118.15	66.40	42.50	9.70	0.00	0.00	0.00		
17	0.00	18.24	80.80	49.81	136.00	160.00	57.52	40.25	8.80	0.00	0.00	0.00		
18	0.00	18.86	99.70	49.81	105.10	140.80	50.64	37.25	7.90	0.00	0.00	0.00		
19	0.00	23.20	85.30	75.40	79.00	117.10	49.81	35.16	6.24	0.00	0.00	0.00		
20	0.00	27.16	63.70	111.40	145.60	98.80	48.98	35.16	6.24	0.00	0.00	0.00		
21	0.00	27.16	48.15	122.35	341.40	84.40	47.32	33.82	6.24	0.00	0.00	0.00		
22	0.00	25.84	29.80	105.10	635.80	84.40	46.49	32.48	6.24	0.00	0.00	0.00		
23	0.00	25.84	25.18	87.10	399.50	89.80	49.81	31.81	5.48	0.00	0.00	0.00		
24	0.00	21.34	21.34	125.50	196.00	116.05	83.50	31.81	4.34	0.00	0.00	0.00		
25	0.00	18.24	20.72	288.20	126.55	154.00	156.40	32.48	2.56	0.00	0.00	0.00		
26	0.00	14.25	29.14	184.00	118.15	355.40	139.60	30.47	2.24	0.00	0.00	0.00		
27	0.00	10.60	33.15	129.70	119.20	392.00	104.20	28.48	2.24	0.00	0.00	0.00		
28	0.00	10.60	26.50	124.45	224.80	235.90	76.30	27.16	2.24	0.00	0.00	0.00		
29	0.00	9.70	21.34	174.40	211.60	185.20	59.26	27.16	1.92	0.00		0.00		
30	0.00	10.60	19.48	246.30	176.80	151.60	56.65	26.50	1.92	0.00		0.00		
31		10.60		175.60	267.10		50.64		1.92	0.00		0.00		
Total	0.00	1009.21	1001.87	3256.87	5448.25	10675.55	2769.97	1417.20	312.93	7.36	0.00	0.00	25899.21	CMSDAY
Mean	0.00	32.56	33.40	105.06	175.75	355.85	89.35	47.24	10.09	0.24	0.00	0.00	70.96	CMS
Max	0.00	157.60	99.70	288.20	635.80	1187.00	216.40	121.30	25.18	1.60	0.00	0.00	1187.00	CMS
Min	0.00	0.00	10.15	15.90	79.00	84.40	46.49	26.50	1.92	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	87.20	86.56	281.39	470.73	922.37	239.33	122.45	27.04	0.64	0.00	0.00	2237.69	MCM

Momentary Peak 1243.00 CMS. at 102.35 m. (MSL.) at 04.00 Hours , on Sep 5, 2014

Runoff Yield 6.89 Liters/Second/Square KM. Momentary Peak Yield 120.621 Liters/Second/Square KM.

WATER YEAR : 2014

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

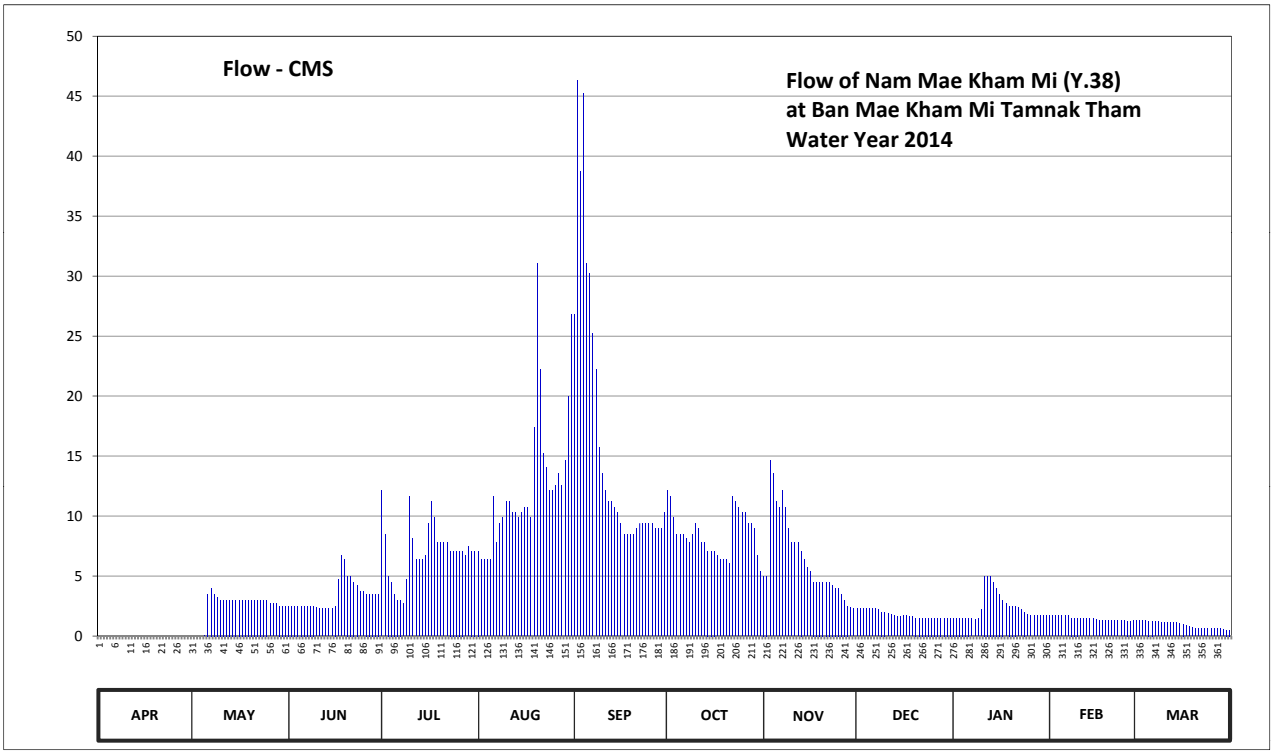
Location : on right bank at the bridge on road.

	Ban	Mae Kham Mi Tamnak Tham	**Amphoe** Nong Muang Khai	**Changwat**	Phrae
Drainge Area	425	sq.km.			
Type of Gage	Water - stage recorder				
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**	+179.900 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 Flot	-				
Rated by Current Meter	1999 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. The islet situated of the gage site.				
	Stage-discharge relation defined by 44 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.00	171.00	171.40	171.68	171.56	171.91	171.68	171.50	171.38	171.30	171.32	171.26	
2	171.00	171.00	171.40	171.60	171.54	172.13	171.67	171.50	171.38	171.30	171.32	171.26	
3	171.00	171.00	171.40	171.50	171.54	172.05	171.63	171.73	171.38	171.30	171.32	171.26	
4	171.00	171.00	171.40	171.48	171.54	172.12	171.60	171.71	171.38	171.30	171.32	171.26	
5	171.00	171.01	171.40	171.44	171.54	171.96	171.60	171.66	171.38	171.30	171.32	171.25	
6	171.00	171.44	171.40	171.42	171.67	171.95	171.60	171.65	171.38	171.30	171.32	171.25	
7	171.00	171.46	171.40	171.42	171.58	171.89	171.59	171.68	171.38	171.29	171.32	171.24	
8	171.00	171.44	171.40	171.41	171.62	171.85	171.58	171.65	171.37	171.28	171.30	171.24	
9	171.00	171.43	171.40	171.49	171.63	171.75	171.60	171.61	171.35	171.29	171.30	171.23	
10	171.00	171.42	171.39	171.67	171.66	171.71	171.62	171.58	171.35	171.37	171.30	171.22	
11	171.00	171.42	171.38	171.59	171.66	171.68	171.61	171.58	171.34	171.50	171.29	171.22	
12	171.00	171.42	171.38	171.54	171.64	171.66	171.58	171.58	171.33	171.50	171.29	171.22	
13	171.00	171.42	171.38	171.54	171.64	171.66	171.58	171.56	171.32	171.50	171.29	171.22	
14	171.00	171.42	171.38	171.54	171.63	171.65	171.56	171.54	171.31	171.48	171.29	171.22	
15	171.00	171.42	171.38	171.55	171.64	171.64	171.56	171.52	171.31	171.46	171.29	171.21	
16	171.00	171.42	171.40	171.62	171.65	171.62	171.56	171.51	171.32	171.44	171.28	171.20	
17	171.00	171.42	171.49	171.66	171.65	171.60	171.55	171.48	171.32	171.42	171.26	171.18	
18	171.00	171.42	171.55	171.63	171.63	171.60	171.54	171.48	171.31	171.41	171.26	171.16	
19	171.00	171.42	171.54	171.58	171.78	171.60	171.54	171.48	171.31	171.40	171.26	171.14	
20	171.00	171.42	171.50	171.58	171.96	171.60	171.54	171.48	171.30	171.40	171.26	171.13	
21	171.00	171.42	171.50	171.58	171.85	171.61	171.53	171.48	171.30	171.40	171.26	171.13	
22	171.00	171.42	171.48	171.58	171.74	171.62	171.67	171.48	171.30	171.39	171.26	171.13	
23	171.00	171.42	171.47	171.56	171.72	171.62	171.66	171.47	171.30	171.37	171.26	171.13	
24	171.00	171.42	171.45	171.56	171.68	171.62	171.65	171.46	171.30	171.35	171.26	171.13	
25	171.00	171.42	171.45	171.56	171.68	171.62	171.64	171.46	171.30	171.33	171.26	171.12	
26	171.00	171.41	171.44	171.56	171.69	171.62	171.64	171.44	171.30	171.32	171.25	171.12	
27	171.00	171.41	171.44	171.56	171.71	171.61	171.62	171.42	171.30	171.32	171.25	171.12	
28	171.00	171.41	171.44	171.55	171.69	171.61	171.62	171.40	171.30	171.32	171.26	171.12	
29	171.00	171.40	171.44	171.57	171.73	171.61	171.61	171.39	171.30	171.32		171.11	
30	171.00	171.40	171.44	171.56	171.82	171.64	171.55	171.38	171.30	171.32		171.10	
31		171.40		171.56	171.91		171.51		171.30	171.32		171.10	
Mean	171.00	171.35	171.43	171.55	171.68	171.73	171.60	171.53	171.33	171.36	171.28	171.18	
Max	171.00	171.46	171.55	171.68	171.96	172.13	171.68	171.73	171.38	171.50	171.32	171.26	172.13
Min	171.00	171.00	171.38	171.41	171.54	171.60	171.51	171.38	171.30	171.28	171.25	171.10	171.00

Annual Max Momentary Gage Height	172.50	m. (MSL.) ,	at 13.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	170.10	m. (MSL.) ,	River Bed	171.00	m. (MSL.)
Left Bank Elevation	180.09	m. (MSL.) ,			
Right Bank Elevation	180.07	m. (MSL.) ,	Drainage Area	425	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.50	12.10	7.10	26.85	12.10	5.00	2.30	1.50	1.70	1.30		
2	0.00	0.00	2.50	8.50	6.40	46.30	11.65	5.00	2.30	1.50	1.70	1.30		
3	0.00	0.00	2.50	5.00	6.40	38.75	9.85	14.65	2.30	1.50	1.70	1.30		
4	0.00	0.00	2.50	4.50	6.40	45.20	8.50	13.55	2.30	1.50	1.70	1.30		
5	0.00	0.05	2.50	3.50	6.40	31.10	8.50	11.20	2.30	1.50	1.70	1.25		
6	0.00	3.50	2.50	3.00	11.65	30.25	8.50	10.75	2.30	1.50	1.70	1.25		
7	0.00	4.00	2.50	3.00	7.80	25.25	8.15	12.10	2.30	1.45	1.70	1.20		
8	0.00	3.50	2.50	2.75	9.40	22.25	7.80	10.75	2.20	1.40	1.50	1.20		
9	0.00	3.25	2.50	4.75	9.85	15.75	8.50	8.95	2.00	1.45	1.50	1.15		
10	0.00	3.00	2.40	11.65	11.20	13.55	9.40	7.80	2.00	2.20	1.50	1.10		
11	0.00	3.00	2.30	8.15	11.20	12.10	8.95	7.80	1.90	5.00	1.45	1.10		
12	0.00	3.00	2.30	6.40	10.30	11.20	7.80	7.80	1.80	5.00	1.45	1.10		
13	0.00	3.00	2.30	6.40	10.30	11.20	7.80	7.10	1.70	5.00	1.45	1.10		
14	0.00	3.00	2.30	6.40	9.85	10.75	7.10	6.40	1.60	4.50	1.45	1.10		
15	0.00	3.00	2.30	6.75	10.30	10.30	7.10	5.70	1.60	4.00	1.45	1.05		
16	0.00	3.00	2.50	9.40	10.75	9.40	7.10	5.35	1.70	3.50	1.40	1.00		
17	0.00	3.00	4.75	11.20	10.75	8.50	6.75	4.50	1.70	3.00	1.30	0.90		
18	0.00	3.00	6.75	9.85	9.85	8.50	6.40	4.50	1.60	2.75	1.30	0.80		
19	0.00	3.00	6.40	7.80	17.40	8.50	6.40	4.50	1.60	2.50	1.30	0.70		
20	0.00	3.00	5.00	7.80	31.10	8.50	6.40	4.50	1.50	2.50	1.30	0.65		
21	0.00	3.00	5.00	7.80	22.25	8.95	6.05	4.50	1.50	2.50	1.30	0.65		
22	0.00	3.00	4.50	7.80	15.20	9.40	11.65	4.50	1.50	2.40	1.30	0.65		
23	0.00	3.00	4.25	7.10	14.10	9.40	11.20	4.25	1.50	2.20	1.30	0.65		
24	0.00	3.00	3.75	7.10	12.10	9.40	10.75	4.00	1.50	2.00	1.30	0.65		
25	0.00	3.00	3.75	7.10	12.10	9.40	10.30	4.00	1.50	1.80	1.30	0.60		
26	0.00	2.75	3.50	7.10	12.55	9.40	10.30	3.50	1.50	1.70	1.25	0.60		
27	0.00	2.75	3.50	7.10	13.55	8.95	9.40	3.00	1.50	1.70	1.25	0.60		
28	0.00	2.75	3.50	6.75	12.55	8.95	9.40	2.50	1.50	1.70	1.30	0.60		
29	0.00	2.50	3.50	7.45	14.65	8.95	8.95	2.40	1.50	1.70		0.55		
30	0.00	2.50	3.50	7.10	20.00	10.30	6.75	2.30	1.50	1.70		0.50		
31		2.50		7.10	26.85		5.35		1.50	1.70		0.50		
Total	0.00	78.05	100.55	218.40	390.30	487.30	264.85	192.85	55.50	74.35	40.55	28.40	1931.10	CMSDAY
Mean	0.00	2.52	3.35	7.05	12.59	16.24	8.54	6.43	1.79	2.40	1.45	0.92	5.29	CMS
Max	0.00	4.00	6.75	12.10	31.10	46.30	12.10	14.65	2.30	5.00	1.70	1.30	46.30	CMS
Min	0.00	0.00	2.30	2.75	6.40	8.50	5.35	2.30	1.50	1.40	1.25	0.50	0.00	CMS
Runoff	0.00	6.74	8.69	18.87	33.72	42.10	22.88	16.66	4.80	6.42	3.50	2.45	166.85	MCM

Momentary Peak 93.00 CMS. at 172.50 m. (MSL.) at 13.00 Hours , on Sep 2 , 2014

Runoff Yield 12.45 Liters/Second/Square KM. Momentary Peak Yield 218.824 Liters/Second/Square KM.

WATER YEAR : 2014

YOM RIVER BASIN

Yom River at Ban Tha Tako , Phichit (Y.42)

Lat 16 - 18 - 40 N Long 100 - 16 - 19 E

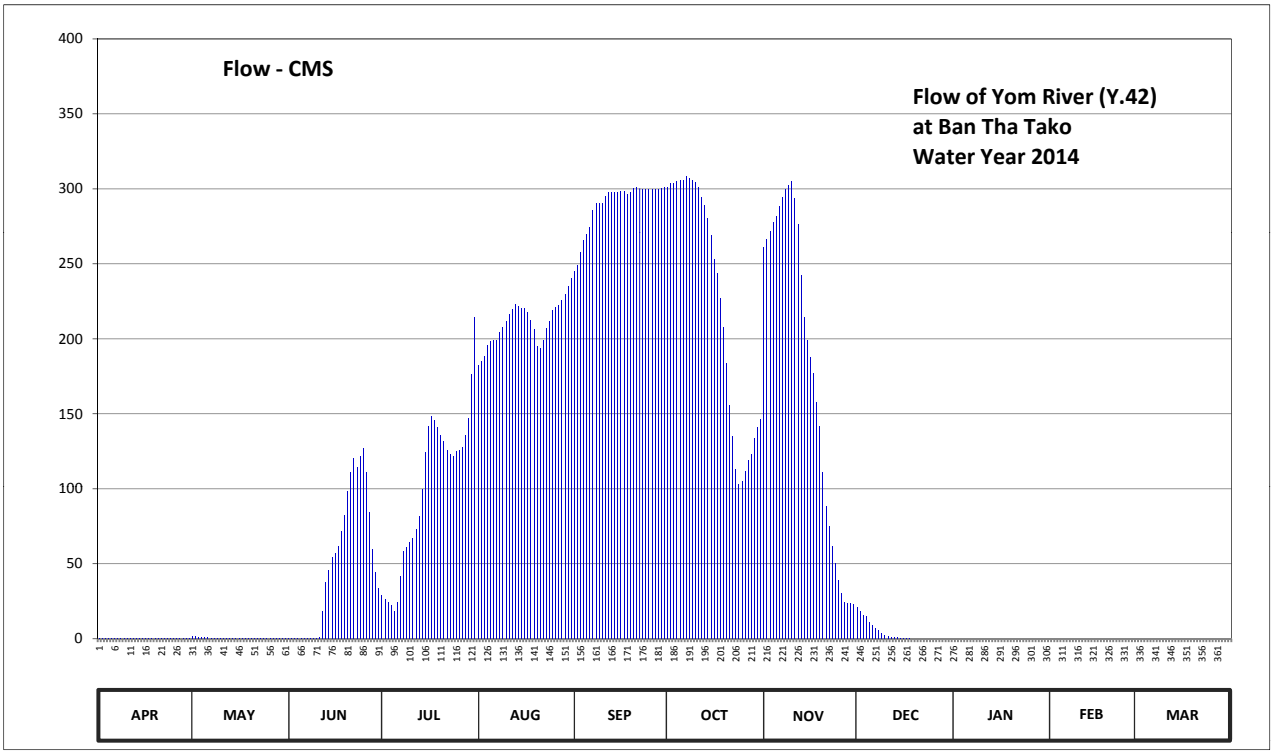
Location : on left bank at Ban Tha Tako

	Ban Tha Tako	**Amphoe** Pho Prathap Chang	**Changwat** Phichit
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage observers house.	**Elevation**	+8.000 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	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.91	0.99	0.85	2.25	5.43	6.36	7.14	6.59	1.99	0.07	-0.50	-0.50	
2	0.91	0.99	0.87	2.16	5.47	6.41	7.17	6.66	1.88	0.02	-0.50	-0.50	
3	0.91	0.98	0.89	2.09	5.52	6.54	7.17	6.74	1.79	-0.02	-0.50	-0.50	
4	0.91	0.95	0.90	2.03	5.63	6.65	7.19	6.82	1.75	-0.03	-0.50	-0.50	
5	0.91	0.95	0.90	1.89	5.67	6.71	7.20	6.88	1.60	-0.04	-0.50	-0.50	
6	0.91	0.94	0.91	2.10	5.68	6.77	7.20	6.97	1.49	-0.06	-0.50	-0.50	
7	0.91	0.91	0.91	2.63	5.69	6.93	7.24	7.05	1.39	-0.07	-0.50	-0.50	
8	0.91	0.91	0.88	3.05	5.76	7.00	7.22	7.12	1.29	-0.08	-0.50	-0.50	
9	0.91	0.91	0.90	3.12	5.81	7.00	7.20	7.16	1.19	-0.09	-0.50	-0.50	
10	0.91	0.91	0.90	3.21	5.87	7.00	7.18	7.19	1.10	-0.10	-0.50	-0.50	
11	0.91	0.91	0.94	3.27	5.94	7.06	7.14	7.04	1.00	-0.10	-0.50	-0.50	
12	0.91	0.91	1.88	3.40	5.99	7.09	7.05	6.80	0.98	-0.10	-0.50	-0.50	
13	0.91	0.91	2.52	3.59	6.04	7.09	6.98	6.32	0.96	-0.10	-0.50	-0.50	
14	0.91	0.91	2.74	3.97	6.02	7.09	6.86	5.91	0.93	-0.10	-0.50	-0.50	
15	0.91	0.91	2.96	4.45	6.00	7.09	6.70	5.69	0.90	-0.20	-0.50	-0.50	
16	0.91	0.91	3.02	4.75	6.00	7.10	6.47	5.51	0.88	-0.20	-0.50	-0.50	
17	0.91	0.91	3.14	4.86	5.96	7.10	6.34	5.34	0.84	-0.20	-0.50	-0.50	
18	0.91	0.91	3.37	4.82	5.88	7.08	6.10	5.02	0.81	-0.20	-0.50	-0.50	
19	0.91	0.91	3.60	4.74	5.79	7.09	5.81	4.75	0.78	-0.25	-0.50	-0.50	
20	0.91	0.91	3.94	4.65	5.62	7.13	5.45	4.20	0.76	-0.25	-0.50	-0.50	
21	0.91	0.91	4.20	4.58	5.60	7.14	4.98	3.74	0.63	-0.30	-0.50	-0.50	
22	0.91	0.91	4.37	4.48	5.69	7.13	4.64	3.45	0.50	-0.30	-0.50	-0.50	
23	0.91	0.91	4.26	4.42	5.80	7.12	4.23	3.15	0.45	-0.30	-0.50	-0.50	
24	0.91	0.91	4.40	4.40	5.87	7.12	4.04	2.85	0.41	-0.35	-0.50	-0.50	
25	0.91	0.91	4.50	4.46	5.98	7.12	4.08	2.55	0.36	-0.35	-0.50	-0.50	
26	0.91	0.91	4.20	4.48	6.01	7.12	4.21	2.30	0.36	-0.35	-0.50	-0.50	
27	0.91	0.91	3.65	4.51	6.03	7.12	4.35	2.10	0.35	-0.40	-0.50	-0.50	
28	0.91	0.91	3.10	4.65	6.08	7.12	4.42	2.08	0.35	-0.40	-0.50	-0.50	
29	0.91	0.91	2.70	4.84	6.14	7.13	4.61	2.07	0.34	-0.40		-0.50	
30	0.91	0.91	2.41	5.33	6.21	7.14	4.74	2.05	0.33	-0.40		-0.50	
31		0.91		5.91	6.29		4.83		0.32	-0.40		-0.50	
Mean	0.91	0.92	2.49	3.84	5.85	6.99	6.00	5.07	0.93	-0.20	-0.50	-0.50	
Max	0.91	0.99	4.50	5.91	6.29	7.14	7.24	7.19	1.99	0.07	-0.50	-0.50	7.24
Min	0.91	0.91	0.85	1.89	5.43	6.36	4.04	2.05	0.32	-0.40	-0.50	-0.50	-0.50

Annual Max Momentary Gage Height	7.24	m. (A.D.) ,	at 06.00 Hours , on Oct 7 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.72	m. (A.D.)
Left Bank Elevation	9.83	m. (A.D.) ,			
Right Bank Elevation	10.37	m. (A.D.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	1.40	0.25	29.00	182.45	245.20	301.00	261.30	21.20	0.00	0.00	0.00		
2	0.60	1.40	0.35	26.30	185.05	248.70	303.25	266.20	18.00	0.00	0.00	0.00		
3	0.60	1.30	0.45	24.20	188.30	257.80	303.25	271.80	15.75	0.00	0.00	0.00		
4	0.60	1.00	0.50	22.40	195.45	265.50	304.75	277.45	14.75	0.00	0.00	0.00		
5	0.60	1.00	0.50	18.25	198.05	269.70	305.50	281.80	11.00	0.00	0.00	0.00		
6	0.60	0.90	0.60	24.50	198.70	273.90	305.50	288.32	8.80	0.00	0.00	0.00		
7	0.60	0.60	0.60	41.55	199.35	285.42	308.50	294.25	6.85	0.00	0.00	0.00		
8	0.60	0.60	0.40	58.00	204.05	290.50	307.00	299.50	5.35	0.00	0.00	0.00		
9	0.60	0.60	0.50	60.80	207.43	290.50	305.50	302.50	3.85	0.00	0.00	0.00		
10	0.60	0.60	0.50	64.45	211.48	290.50	304.00	304.75	2.50	0.00	0.00	0.00		
11	0.60	0.60	0.90	67.15	216.20	295.00	301.00	293.50	1.50	0.00	0.00	0.00		
12	0.60	0.60	18.00	73.00	219.58	297.25	294.25	276.00	1.30	0.00	0.00	0.00		
13	0.60	0.60	37.70	81.55	222.95	297.25	289.05	242.40	1.10	0.00	0.00	0.00		
14	0.60	0.60	45.60	99.58	221.60	297.25	280.35	214.18	0.80	0.00	0.00	0.00		
15	0.60	0.60	54.40	124.37	220.25	297.25	269.00	199.35	0.50	0.00	0.00	0.00		
16	0.60	0.60	56.80	141.50	220.25	298.00	252.90	187.65	0.40	0.00	0.00	0.00		
17	0.60	0.60	61.60	148.10	217.55	298.00	243.80	176.90	0.20	0.00	0.00	0.00		
18	0.60	0.60	71.65	145.70	212.15	296.50	227.00	157.70	0.05	0.00	0.00	0.00		
19	0.60	0.60	82.00	140.90	206.08	297.25	207.43	141.50	0.00	0.00	0.00	0.00		
20	0.60	0.60	98.15	135.63	194.80	300.25	183.75	111.25	0.00	0.00	0.00	0.00		
21	0.60	0.60	111.25	131.60	193.50	301.00	155.30	88.65	0.00	0.00	0.00	0.00		
22	0.60	0.60	120.17	125.95	199.35	300.25	135.05	75.25	0.00	0.00	0.00	0.00		
23	0.60	0.60	114.40	122.80	206.75	299.50	112.83	62.00	0.00	0.00	0.00	0.00		
24	0.60	0.60	121.75	121.75	211.48	299.50	103.00	50.00	0.00	0.00	0.00	0.00		
25	0.60	0.60	127.00	124.90	218.90	299.50	105.00	38.75	0.00	0.00	0.00	0.00		
26	0.60	0.60	111.25	125.95	220.93	299.50	111.78	30.50	0.00	0.00	0.00	0.00		
27	0.60	0.60	84.38	127.58	222.28	299.50	119.12	24.50	0.00	0.00	0.00	0.00		
28	0.60	0.60	60.00	135.63	225.65	299.50	122.80	23.90	0.00	0.00	0.00	0.00		
29	0.60	0.60	44.00	146.90	229.80	300.25	133.33	23.60	0.00	0.00		0.00		
30	0.60	0.60	33.85	176.30	234.70	301.00	140.90	23.00	0.00	0.00		0.00		
31		0.60		214.18	240.30		146.30		0.00	0.00		0.00		
Total	18.00	22.00	1459.50	3080.47	6525.36	8691.22	6982.19	5288.45	113.90	0.00	0.00	0.00	32181.09	CMSDAY
Mean	0.60	0.71	48.65	99.37	210.50	289.71	225.23	176.28	3.67	0.00	0.00	0.00	88.17	CMS
Max	0.60	1.40	127.00	214.18	240.30	301.00	308.50	304.75	21.20	0.00	0.00	0.00	308.50	CMS
Min	0.60	0.60	0.25	18.25	182.45	245.20	103.00	23.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.56	1.90	126.10	266.15	563.79	750.92	603.26	456.92	9.84	0.00	0.00	0.00	2780.45	MCM

Momentary Peak 308.50 CMS. at 7.24 m. (A.D.) at 06.00 Hours , on Oct 7 , 2014

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

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

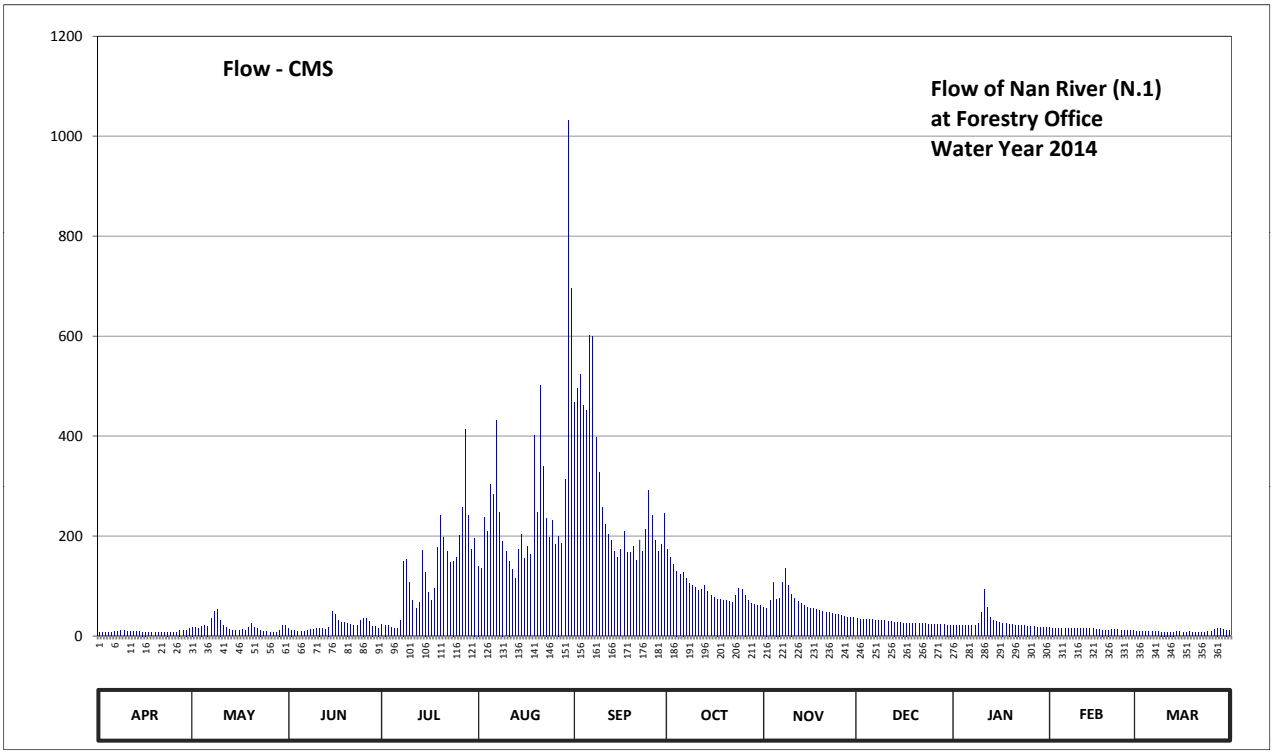
Location : on right bank in front of Forestry Office.

	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 Flot	-		
Rated by Current Meter	1954 - 1956 , 1979 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 47 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.99	192.21	192.14	192.28	193.51	195.81	193.79	192.70	192.45	192.27	192.18	192.06	
2	191.99	192.18	192.10	192.27	193.46	195.97	193.66	192.68	192.43	192.26	192.17	192.06	
3	191.98	192.14	192.08	192.25	194.30	196.13	193.54	192.84	192.43	192.25	192.16	192.05	
4	191.98	192.24	192.06	192.18	194.08	195.78	193.42	193.20	192.43	192.25	192.16	192.05	
5	192.00	192.26	192.06	192.15	194.79	195.71	193.35	192.87	192.43	192.25	192.16	192.05	
6	192.03	192.24	192.03	192.16	194.65	196.56	193.40	192.89	192.42	192.25	192.16	192.04	
7	192.06	192.44	192.08	192.40	195.60	196.54	193.28	193.19	192.41	192.25	192.16	192.03	
8	192.08	192.61	192.13	193.60	194.38	195.39	193.18	193.46	192.40	192.25	192.15	192.03	
9	192.07	192.65	192.11	193.62	193.92	194.95	193.13	193.13	192.39	192.31	192.15	192.02	
10	192.04	192.41	192.14	193.20	193.76	194.46	193.09	192.97	192.39	192.59	192.14	192.02	
11	192.03	192.25	192.17	192.84	193.60	194.19	193.04	192.88	192.37	193.05	192.14	192.02	
12	192.06	192.18	192.15	192.66	193.44	194.02	193.06	192.82	192.37	192.70	192.14	192.02	
13	192.05	192.12	192.12	192.80	193.28	193.93	193.14	192.77	192.36	192.48	192.15	192.02	
14	192.03	192.09	192.21	193.77	193.78	193.75	193.01	192.73	192.35	192.40	192.15	192.05	
15	192.02	192.07	192.61	193.40	194.03	193.66	192.94	192.70	192.35	192.37	192.15	192.03	
16	192.02	192.09	192.54	193.00	193.64	193.79	192.90	192.68	192.33	192.35	192.13	192.01	
17	192.01	192.12	192.40	192.84	193.84	194.07	192.87	192.66	192.33	192.33	192.13	192.01	
18	192.00	192.09	192.35	193.07	193.71	193.74	192.85	192.65	192.32	192.31	192.10	192.03	
19	191.99	192.18	192.35	193.81	195.41	193.74	192.83	192.62	192.32	192.30	192.09	192.01	
20	191.99	192.31	192.33	194.33	194.38	193.84	192.83	192.61	192.32	192.28	192.10	192.01	
21	191.98	192.19	192.29	193.98	196.01	193.61	192.81	192.59	192.32	192.27	192.12	192.01	
22	191.98	192.14	192.25	193.75	195.02	193.94	192.80	192.58	192.31	192.27	192.11	192.01	
23	192.02	192.10	192.25	193.58	194.29	193.76	192.95	192.56	192.31	192.26	192.11	192.01	
24	192.01	192.06	192.39	193.60	193.98	194.11	193.08	192.54	192.30	192.25	192.10	192.03	
25	192.00	192.04	192.46	193.66	194.25	194.70	193.06	192.53	192.30	192.24	192.09	192.04	
26	192.00	192.01	192.45	194.01	193.87	194.33	192.95	192.51	192.29	192.23	192.08	192.12	
27	192.10	192.01	192.37	194.46	194.00	193.93	192.84	192.50	192.29	192.22	192.09	192.17	
28	192.09	192.01	192.24	195.49	193.88	193.75	192.78	192.48	192.29	192.21	192.07	192.16	
29	192.10	192.10	192.22	194.33	194.86	193.86	192.75	192.47	192.28	192.19		192.13	
30	192.16	192.26	192.17	193.78	198.69	194.36	192.74	192.47	192.27	192.18		192.10	
31		192.25		193.97	197.05		192.73		192.27	192.18		192.08	
Mean	192.03	192.20	192.24	193.33	194.43	194.55	193.06	192.74	192.35	192.32	192.13	192.05	
Max	192.16	192.65	192.61	195.49	198.69	196.56	193.79	193.46	192.45	193.05	192.18	192.17	198.69
Min	191.98	192.01	192.03	192.15	193.28	193.61	192.73	192.47	192.27	192.18	192.07	192.01	191.98

Annual Max Momentary Gage Height	199.00	m. (MSL.) ,	at 14.00 Hours , on Aug 30 , 2014		
Zero Gage at Bottom Elevation	192.20	m. (MSL.) ,	River Bed	189.48	m. (MSL.)
Left Bank Elevation	203.91	m. (MSL.) ,			
Right Bank Elevation	203.82	m. (MSL.) ,	Drainage Area	4560	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.60	18.15	14.20	22.70	140.10	467.70	173.75	58.00	35.38	22.05	16.40	10.00		
2	6.60	16.40	12.00	22.05	134.60	494.90	157.50	56.10	33.62	21.40	15.85	10.00		
3	6.20	14.20	11.00	20.75	237.50	523.40	143.40	71.30	33.62	20.75	15.30	9.50		
4	6.20	20.10	10.00	16.40	210.00	462.60	130.20	107.60	33.62	20.75	15.30	9.50		
5	7.00	21.40	10.00	14.75	303.55	450.70	122.90	74.15	33.62	20.75	15.30	9.50		
6	8.50	20.10	8.50	15.30	283.25	602.40	128.00	76.05	32.75	20.75	15.30	9.00		
7	10.00	34.50	11.00	31.00	432.00	598.60	115.76	106.58	31.88	20.75	15.30	8.50		
8	11.00	49.45	13.65	150.00	247.50	398.40	105.56	134.60	31.00	20.75	14.75	8.50		
9	10.50	53.25	12.55	152.50	190.00	328.25	100.46	100.46	30.30	24.70	14.75	8.00		
10	9.00	31.88	14.20	107.60	170.00	257.80	96.38	84.14	30.30	47.62	14.20	8.00		
11	8.50	20.75	15.85	71.30	150.00	223.75	91.28	75.10	28.90	92.30	14.20	8.00		
12	10.00	16.40	14.75	54.20	132.40	202.50	93.32	69.40	28.90	58.00	14.20	8.00		
13	9.50	13.10	13.10	67.50	115.76	191.25	101.48	64.65	28.20	38.00	14.75	8.00		
14	8.50	11.50	18.15	171.25	172.50	168.75	88.22	60.85	27.50	31.00	14.75	9.50		
15	8.00	10.50	49.45	128.00	203.75	157.50	81.08	58.00	27.50	28.90	14.75	8.50		
16	8.00	11.50	43.25	87.20	155.00	173.75	77.00	56.10	26.10	27.50	13.65	7.50		
17	7.50	13.10	31.00	71.30	180.00	208.75	74.15	54.20	26.10	26.10	13.65	7.50		
18	7.00	11.50	27.50	94.34	163.75	167.50	72.25	53.25	25.40	24.70	12.00	8.50		
19	6.60	16.40	27.50	176.25	401.60	167.50	70.35	50.40	25.40	24.00	11.50	7.50		
20	6.60	24.70	26.10	241.25	247.50	180.00	70.35	49.45	25.40	22.70	12.00	7.50		
21	6.20	16.95	23.35	197.50	501.80	151.25	68.45	47.62	25.40	22.05	13.10	7.50		
22	6.20	14.20	20.75	168.75	339.20	192.50	67.50	46.75	24.70	22.05	12.55	7.50		
23	8.00	12.00	20.75	147.80	236.25	170.00	82.10	45.00	24.70	21.40	12.55	7.50		
24	7.50	10.00	30.30	150.00	197.50	213.75	95.36	43.25	24.00	20.75	12.00	8.50		
25	7.00	9.00	36.25	157.50	231.25	290.50	93.32	42.37	24.00	20.10	11.50	9.00		
26	7.00	7.50	35.38	201.25	183.75	241.25	82.10	40.62	23.35	19.45	11.00	13.10		
27	12.00	7.50	28.90	257.80	200.00	191.25	71.30	39.75	23.35	18.80	11.50	15.85		
28	11.50	7.50	20.10	414.40	185.00	168.75	65.60	38.00	23.35	18.15	10.50	15.30		
29	12.00	12.00	18.80	241.25	314.30	182.50	62.75	37.13	22.70	16.95		13.65		
30	15.30	21.40	15.85	172.50	1030.90	245.00	61.80	37.13	22.05	16.40		12.00		
31		20.75		196.25	696.00		60.85		22.05	16.40		11.00		
Total	254.50	567.68	634.18	4020.64	8386.71	8472.75	2904.52	1878.00	855.14	825.97	382.60	291.90	29474.59	CMSDAY
Mean	8.48	18.31	21.14	129.70	270.54	282.42	93.69	62.60	27.59	26.64	13.66	9.42	80.75	CMS
Max	15.30	53.25	49.45	414.40	1030.90	602.40	173.75	134.60	35.38	92.30	16.40	15.85	1030.90	CMS
Min	6.20	7.50	8.50	14.75	115.76	151.25	60.85	37.13	22.05	16.40	10.50	7.50	6.20	CMS
Runoff	21.99	49.05	54.79	347.38	724.61	732.05	250.95	162.26	73.88	71.36	33.06	25.22	2546.61	MCM

Momentary Peak 1096.00 CMS. at 199.00 m. (MSL.) at 14.00 Hours , on Aug 30 , 2014

Runoff Yield 17.71 Liters/Second/Square KM. Momentary Peak Yield 240.351 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Nai Mueang , Uttaradit (N.2B)

Lat 17 - 36 - 30 N Long 100 - 06 - 08 E

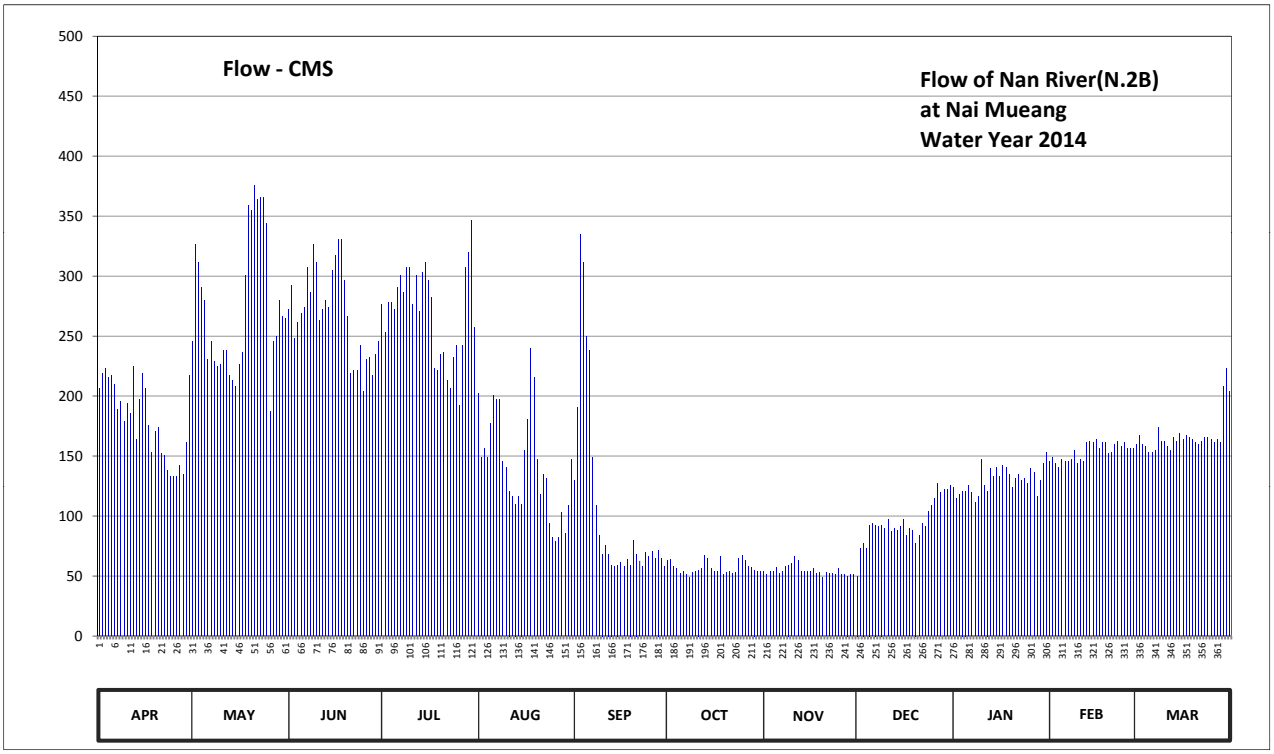
Location : on right bank at Mueang, Uttaradit.

	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 Flot	-		
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 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.40	53.61	53.75	53.77	53.38	52.93	52.44	52.36	52.32	52.89	53.03	53.12	
2	53.47	54.01	53.85	53.65	53.05	53.31	52.45	52.33	52.53	52.83	53.05	53.17	
3	53.49	53.94	53.62	53.78	53.10	54.05	52.40	52.36	52.57	52.85	53.02	53.12	
4	53.45	53.84	53.69	53.78	53.05	53.94	52.38	52.36	52.53	52.87	53.00	53.11	
5	53.46	53.79	53.73	53.75	53.23	53.63	52.34	52.39	52.68	52.87	53.04	53.08	
6	53.42	53.53	53.76	53.84	53.37	53.57	52.36	52.34	52.69	52.90	53.03	53.08	
7	53.30	53.61	53.92	53.89	53.35	53.05	52.33	52.36	52.68	52.86	53.03	53.09	
8	53.34	53.52	53.82	53.82	53.35	52.79	52.31	52.40	52.67	52.81	53.04	53.21	
9	53.24	53.50	54.01	53.92	53.03	52.62	52.35	52.41	52.68	52.84	53.09	53.14	
10	53.33	53.51	53.94	53.92	53.00	52.49	52.36	52.42	52.66	53.04	53.02	53.14	
11	53.28	53.57	53.70	53.77	52.87	52.55	52.37	52.47	52.71	52.90	53.04	53.11	
12	53.50	53.57	53.75	53.89	52.84	52.49	52.38	52.44	52.64	52.87	53.03	53.09	
13	53.15	53.46	53.79	53.74	52.80	52.41	52.48	52.36	52.66	52.99	53.13	53.16	
14	53.35	53.44	53.76	53.90	52.84	52.40	52.46	52.36	52.65	52.95	53.14	53.14	
15	53.47	53.41	53.91	53.94	52.80	52.41	52.38	52.36	52.67	53.00	53.13	53.18	
16	53.40	53.51	53.97	53.87	53.09	52.43	52.36	52.36	52.71	52.95	53.15	53.15	
17	53.22	53.56	54.03	53.80	53.25	52.40	52.36	52.38	52.62	53.01	53.10	53.17	
18	53.08	53.89	54.03	53.49	53.58	52.45	52.47	52.34	52.66	53.00	53.13	53.16	
19	53.19	54.16	53.87	53.48	53.45	52.41	52.33	52.35	52.65	52.96	53.13	53.15	
20	53.21	54.14	53.72	53.55	53.04	52.59	52.35	52.31	52.57	52.89	53.07	53.13	
21	53.07	54.23	53.47	53.56	52.85	52.49	52.36	52.35	52.62	52.94	53.08	53.12	
22	53.06	54.18	53.48	53.44	52.96	52.44	52.34	52.34	52.69	52.96	53.12	53.14	
23	52.98	54.19	53.48	53.40	52.94	52.40	52.35	52.34	52.67	52.93	53.14	53.16	
24	52.95	54.19	53.59	53.54	52.69	52.50	52.46	52.33	52.76	52.94	53.11	53.16	
25	52.95	54.09	53.39	53.59	52.61	52.47	52.48	52.38	52.79	52.91	53.13	53.15	
26	52.95	53.29	53.53	53.32	52.58	52.51	52.44	52.33	52.83	52.99	53.10	53.13	
27	53.01	53.61	53.54	53.59	52.61	52.46	52.40	52.33	52.91	52.97	53.10	53.15	
28	52.96	53.63	53.46	53.92	52.75	52.52	52.39	52.32	52.86	52.84	53.10	53.13	
29	53.13	53.79	53.55	53.98	52.63	52.46	52.37	52.33	52.88	52.93		53.41	
30	53.46	53.72	53.61	54.10	52.79	52.40	52.36	52.33	52.88	53.02		53.49	
31		53.71		53.67	53.04		52.36		52.90	53.08		53.39	
Mean	53.24	53.75	53.72	53.73	53.00	52.72	52.39	52.36	52.69	52.93	53.08	53.17	
Max	53.50	54.23	54.03	54.10	53.58	54.05	52.48	52.47	52.91	53.08	53.15	53.49	54.23
Min	52.95	53.29	53.39	53.32	52.58	52.40	52.31	52.31	52.32	52.81	53.00	53.08	52.31

Annual Max Momentary Gage Height	54.75	m. (MSL.) ,	at 06.00 Hours , on May 23 , 2014		
Zero Gage at Bottom Elevation	52.30	m. (MSL.) ,	River Bed	47.85	m. (MSL.)
Left Bank Elevation	61.68	m. (MSL.) ,			
Right Bank Elevation	63.00	m. (MSL.) ,	Drainage Area	16865	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	206.00	245.90	272.50	276.30	202.60	130.15	62.60	54.00	50.00	123.95	145.65	159.60		
2	219.30	326.20	292.50	253.50	148.75	190.70	63.75	51.00	72.95	114.65	148.75	167.35		
3	223.10	311.40	247.80	278.20	156.50	335.00	58.00	54.00	77.55	117.75	144.10	159.60		
4	215.50	290.40	261.10	278.20	148.75	311.40	56.00	54.00	72.95	120.85	141.00	158.05		
5	217.40	280.10	268.70	272.50	177.10	249.70	52.00	57.00	92.60	120.85	147.20	153.40		
6	209.80	230.70	274.40	290.40	200.90	238.30	54.00	52.00	94.05	125.50	145.65	153.40		
7	189.00	245.90	307.20	300.90	197.50	148.75	51.00	54.00	92.60	119.30	145.65	154.95		
8	195.80	228.80	286.20	286.20	197.50	108.55	49.00	58.00	91.15	111.55	147.20	173.70		
9	178.80	225.00	326.20	307.20	145.65	83.90	53.00	59.15	92.60	116.20	154.95	162.70		
10	194.10	226.90	311.40	307.20	141.00	68.35	54.00	60.30	89.70	147.20	144.10	162.70		
11	185.60	238.30	263.00	276.30	120.85	75.25	55.00	66.05	96.95	125.50	147.20	158.05		
12	225.00	238.30	272.50	300.90	116.20	68.35	56.00	62.60	86.80	120.85	145.65	154.95		
13	164.25	217.40	280.10	270.60	110.00	59.15	67.20	54.00	89.70	139.45	161.15	165.80		
14	197.50	213.60	274.40	303.00	116.20	58.00	64.90	54.00	88.25	133.25	162.70	162.70		
15	219.30	207.90	305.10	311.40	110.00	59.15	56.00	54.00	91.15	141.00	161.15	168.90		
16	206.00	226.90	317.70	296.70	154.95	61.45	54.00	54.00	96.95	133.25	164.25	164.25		
17	175.40	236.40	330.60	282.00	180.50	58.00	54.00	56.00	83.90	142.55	156.50	167.35		
18	153.40	300.90	330.60	223.10	240.20	63.75	66.05	52.00	89.70	141.00	161.15	165.80		
19	170.45	359.20	296.70	221.20	215.50	59.15	51.00	53.00	88.25	134.80	161.15	164.25		
20	173.70	354.80	266.80	234.50	147.20	79.85	53.00	49.00	77.55	123.95	151.85	161.15		
21	151.85	375.20	219.30	236.40	117.75	68.35	54.00	53.00	83.90	131.70	153.40	159.60		
22	150.30	363.60	221.20	213.60	134.80	62.60	52.00	52.00	94.05	134.80	159.60	162.70		
23	137.90	365.80	221.20	206.00	131.70	58.00	53.00	52.00	91.15	130.15	162.70	165.80		
24	133.25	365.80	242.10	232.60	94.05	69.50	64.90	51.00	104.20	131.70	158.05	165.80		
25	133.25	343.80	204.30	242.10	82.45	66.05	67.20	56.00	108.55	127.05	161.15	164.25		
26	133.25	187.30	230.70	192.40	78.70	70.65	62.60	51.00	114.65	139.45	156.50	161.15		
27	142.55	245.90	232.60	242.10	82.45	64.90	58.00	51.00	127.05	136.35	156.50	164.25		
28	134.80	249.70	217.40	307.20	102.75	71.80	57.00	50.00	119.30	116.20	156.50	161.15		
29	161.15	280.10	234.50	319.80	85.35	64.90	55.00	51.00	122.40	130.15		207.90		
30	217.40	266.80	245.90	346.00	108.55	58.00	54.00	51.00	122.40	144.10		223.10		
31		264.90		257.30	147.20		54.00		125.50	153.40		204.30		
Total	5415.10	8513.90	8054.70	8365.80	4393.60	3161.65	1762.20	1626.10	2928.50	4028.45	4301.40	5178.65	57730.05	CMSDAY
Mean	180.50	274.64	268.49	269.86	141.73	105.39	56.85	54.20	94.47	129.95	153.62	167.05	158.16	CMS
Max	225.00	375.20	330.60	346.00	240.20	335.00	67.20	66.05	127.05	153.40	164.25	223.10	375.20	CMS
Min	133.25	187.30	204.30	192.40	78.70	58.00	49.00	49.00	50.00	111.55	141.00	153.40	49.00	CMS
Runoff	467.87	735.60	695.93	722.81	379.61	273.17	152.25	140.50	253.02	348.06	371.64	447.44	4987.88	MCM

Momentary Peak 511.50 CMS. at 54.75 m. (MSL.) at 06.00 Hours , on May 23 , 2014

Runoff Yield 9.38 Liters/Second/Square KM. Momentary Peak Yield 30.329 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

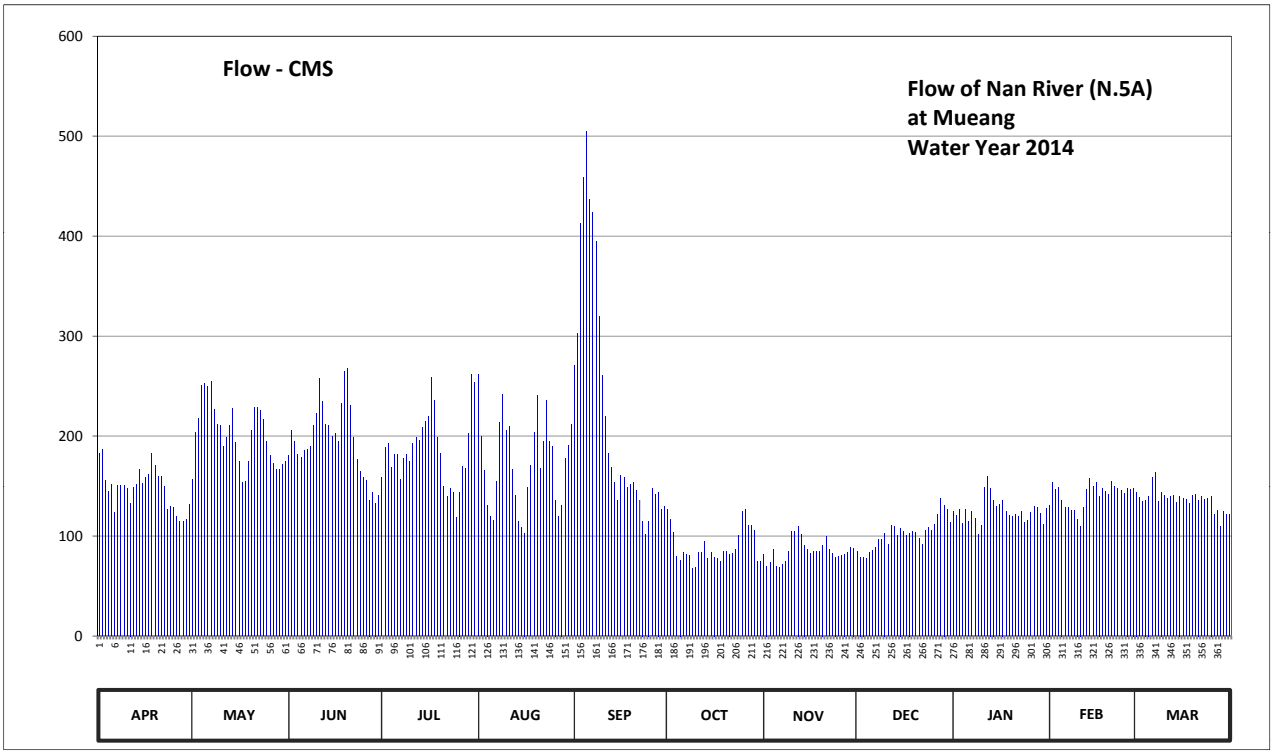
Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	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** +44.800 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 Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam.		
	Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.59	36.26	36.56	36.29	37.49	37.59	35.86	35.19	35.24	35.84	35.93	36.10	
2	36.64	36.84	36.86	36.66	36.80	37.94	35.72	35.00	35.15	35.78	36.22	36.03	
3	36.25	37.00	36.74	36.71	36.37	39.11	35.54	35.06	35.15	35.87	36.13	35.98	
4	36.11	37.36	36.57	36.41	35.93	39.58	35.16	35.28	35.13	35.66	36.16	36.00	
5	36.20	37.39	36.53	36.57	35.76	40.04	35.10	34.99	35.23	35.86	36.00	36.05	
6	35.82	37.35	36.62	36.57	35.71	39.36	35.22	34.98	35.26	35.69	35.89	36.29	
7	36.19	37.41	36.63	36.26	36.23	39.23	35.19	35.02	35.31	35.84	35.89	36.35	
8	36.18	37.10	36.67	36.52	36.95	38.92	35.18	35.08	35.43	35.74	35.85	35.98	
9	36.19	36.93	36.92	36.57	37.26	38.13	34.96	35.25	35.44	35.51	35.85	36.10	
10	36.14	36.92	37.05	36.49	36.86	37.48	34.97	35.55	35.53	35.64	35.73	36.06	
11	35.96	36.67	37.44	36.71	36.91	37.02	35.23	35.55	35.36	36.16	35.63	36.02	
12	36.16	36.79	37.19	36.79	36.39	36.58	35.22	35.63	35.64	36.30	35.90	36.04	
13	36.20	36.92	36.93	36.75	36.06	36.41	35.41	35.51	35.62	36.15	36.13	36.06	
14	36.39	37.11	36.92	36.90	35.69	36.22	35.13	35.35	35.50	36.00	36.27	35.97	
15	36.21	36.72	36.80	36.97	35.61	35.99	35.23	35.28	35.60	35.91	36.17	36.05	
16	36.29	36.49	36.83	37.02	35.53	36.31	35.15	35.21	35.55	35.94	36.22	36.02	
17	36.32	36.22	36.73	37.45	36.16	36.29	35.13	35.24	35.49	36.00	36.05	36.01	
18	36.58	36.23	37.16	37.20	36.43	36.16	35.07	35.25	35.53	35.83	36.14	35.95	
19	36.44	36.49	37.52	36.78	36.84	36.20	35.24	35.25	35.55	35.78	36.11	36.06	
20	36.30	36.86	37.55	36.58	37.25	36.22	35.24	35.35	35.54	35.77	36.07	36.07	
21	36.30	37.12	37.14	36.17	36.40	36.12	35.20	35.48	35.45	35.80	36.24	36.00	
22	36.17	37.12	36.79	36.04	36.73	36.00	35.21	35.27	35.36	35.77	36.17	36.04	
23	35.87	37.09	36.51	36.14	37.20	35.70	35.27	35.21	35.57	35.83	36.14	36.01	
24	35.91	36.99	36.36	36.09	36.73	35.51	35.50	35.15	35.61	35.68	36.12	36.02	
25	35.89	36.73	36.29	35.75	36.67	35.70	35.84	35.16	35.57	35.71	36.08	36.05	
26	35.77	36.56	36.25	36.10	36.00	36.14	35.87	35.18	35.65	35.82	36.15	35.80	
27	35.69	36.46	36.00	36.42	35.77	36.07	35.64	35.20	35.80	35.91	36.13	35.85	
28	35.69	36.38	36.09	36.40	35.93	36.10	35.64	35.23	36.02	35.89	36.15	35.62	
29	35.72	36.39	35.96	36.83	36.52	35.87	35.57	35.31	35.93	35.81		35.84	
30	35.94	36.45	36.06	37.49	36.69	35.91	35.08	35.30	35.87	35.65		35.80	
31		36.49		37.40	36.93		35.07		35.68	35.88		35.80	
Mean	36.14	36.80	36.72	36.61	36.45	37.00	35.32	35.25	35.51	35.84	36.05	36.00	
Max	36.64	37.41	37.55	37.49	37.49	40.04	35.87	35.63	36.02	36.30	36.27	36.35	40.04
Min	35.69	36.22	35.96	35.75	35.53	35.51	34.96	34.98	35.13	35.51	35.63	35.62	34.96

Annual Max Momentary Gage Height	40.13	m. (MSL.) ,	at 06.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	34.50	m. (MSL.) ,	River Bed	32.09	m. (MSL.)
Left Bank Elevation	44.27	m. (MSL.) ,			
Right Bank Elevation	45.01	m. (MSL.) ,	Drainage Area	25039	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	183.20	156.80	180.80	159.20	262.10	271.10	126.20	81.40	84.40	124.80	131.10	144.00		
2	187.20	203.60	205.40	188.80	200.00	302.60	116.40	70.00	79.00	120.60	153.60	138.40		
3	156.00	218.00	195.20	192.80	165.60	412.45	103.80	73.60	79.00	126.90	146.40	134.60		
4	144.80	250.40	181.60	168.80	131.10	459.00	79.60	86.80	77.80	112.20	148.80	136.00		
5	152.00	253.10	178.40	181.60	119.20	505.00	76.00	69.40	83.80	126.20	136.00	140.00		
6	123.40	249.50	185.60	181.60	115.70	437.00	83.20	68.80	85.60	114.30	128.30	159.20		
7	151.20	254.90	186.40	156.80	154.40	424.00	81.40	71.20	88.60	124.80	128.30	164.00		
8	150.40	227.00	189.60	177.60	213.50	394.40	80.80	74.80	96.10	117.80	125.50	134.60		
9	151.20	211.70	210.80	181.60	241.40	319.70	67.60	85.00	96.80	101.70	125.50	144.00		
10	147.20	210.80	222.50	175.20	205.40	261.20	68.20	104.50	103.10	110.80	117.10	140.80		
11	133.20	189.60	257.60	192.80	209.90	219.80	83.80	104.50	91.60	148.80	110.10	137.60		
12	148.80	199.20	235.10	199.20	167.20	182.40	83.20	110.10	110.80	160.00	129.00	139.20		
13	152.00	210.80	211.70	196.00	140.80	168.80	94.70	101.70	109.40	148.00	146.40	140.80		
14	167.20	227.90	210.80	209.00	114.30	153.60	77.80	91.00	101.00	136.00	157.60	133.90		
15	152.80	193.60	200.00	215.30	108.70	135.30	83.80	86.80	108.00	129.70	149.60	140.00		
16	159.20	175.20	202.70	219.80	103.10	160.80	79.00	82.60	104.50	131.80	153.60	137.60		
17	161.60	153.60	194.40	258.50	148.80	159.20	77.80	84.40	100.30	136.00	140.00	136.80		
18	182.40	154.40	232.40	236.00	170.40	148.80	74.20	85.00	103.10	124.10	147.20	132.50		
19	171.20	175.20	264.80	198.40	203.60	152.00	84.40	85.00	104.50	120.60	144.80	140.80		
20	160.00	205.40	267.50	182.40	240.50	153.60	84.40	91.00	103.80	119.90	141.60	141.60		
21	160.00	228.80	230.60	149.60	168.00	145.60	82.00	99.60	97.50	122.00	155.20	136.00		
22	149.60	228.80	199.20	139.20	194.40	136.00	82.60	86.20	91.60	119.90	149.60	139.20		
23	126.90	226.10	176.80	147.20	236.00	115.00	86.20	82.60	105.90	124.10	147.20	136.80		
24	129.70	217.10	164.80	143.20	194.40	101.70	101.00	79.00	108.70	113.60	145.60	137.60		
25	128.30	194.40	159.20	118.50	189.60	115.00	124.80	79.60	105.90	115.70	142.40	140.00		
26	119.90	180.80	156.00	144.00	136.00	147.20	126.90	80.80	111.50	123.40	148.00	122.00		
27	114.30	172.80	136.00	169.60	119.90	141.60	110.80	82.00	122.00	129.70	146.40	125.50		
28	114.30	166.40	143.20	168.00	131.10	144.00	110.80	83.80	137.60	128.30	148.00	109.40		
29	116.40	167.20	133.20	202.70	177.60	126.90	105.90	88.60	131.10	122.70		124.80		
30	131.80	172.00	140.80	262.10	191.20	129.70	74.80	88.00	126.90	111.50		122.00		
31		175.20		254.00	211.70		74.20		113.60	127.60		122.00		
Total	4426.20	6250.30	5853.10	5769.50	5365.60	6723.45	2786.30	2557.80	3163.50	3873.50	3942.90	4231.70	54943.86	CMSDAY
Mean	147.54	201.62	195.10	186.11	173.08	224.12	89.88	85.26	102.05	124.95	140.82	136.51	150.53	CMS
Max	187.20	254.90	267.50	262.10	262.10	505.00	126.90	110.10	137.60	160.00	157.60	164.00	505.00	CMS
Min	114.30	153.60	133.20	118.50	103.10	101.70	67.60	68.80	77.80	101.70	110.10	109.40	67.60	CMS
Runoff	382.42	540.03	505.71	498.49	463.59	580.91	240.74	220.99	273.33	334.67	340.67	365.62	4747.15	MCM

Momentary Peak 514.00 CMS. at 40.13 m. (MSL.) at 06.00 Hours , on Sep 5 , 2014

Runoff Yield 6.01 Liters/Second/Square KM. Momentary Peak Yield 20.528 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Rat Chang Khwan , Phichit (N.7A)

Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

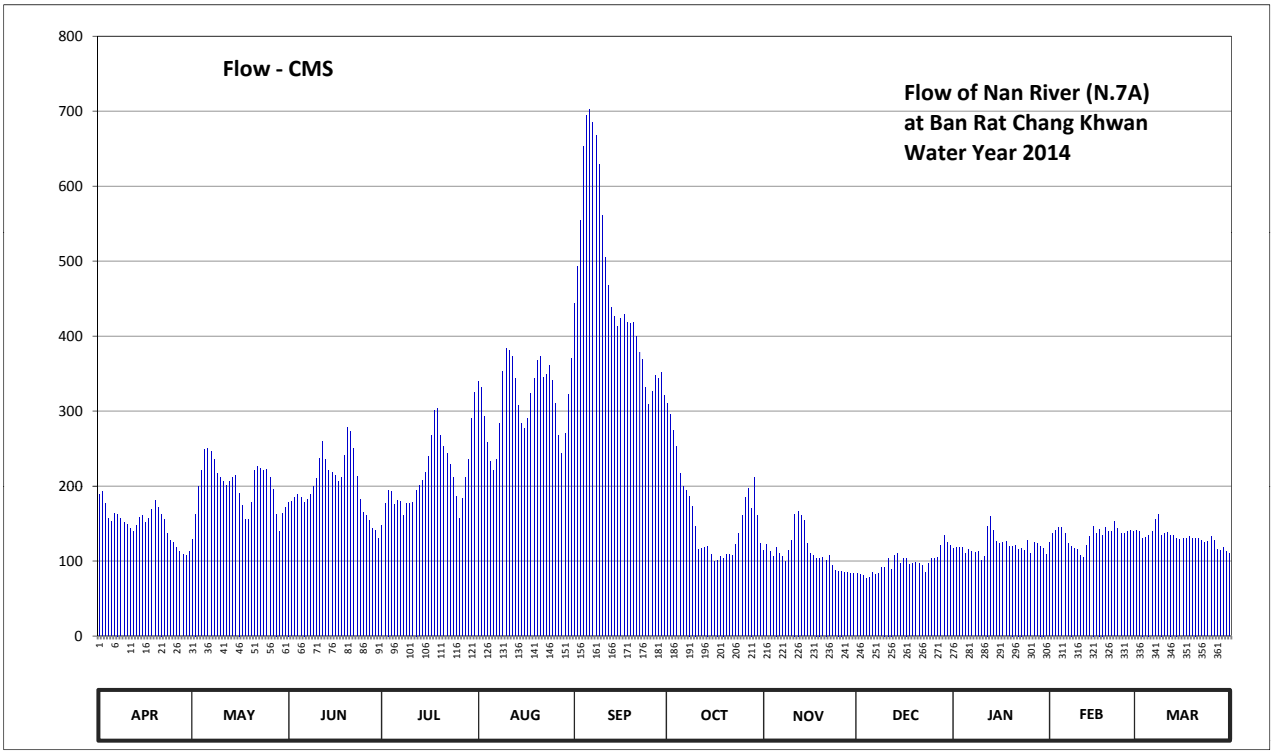
Location : on right bank in front of Phichit Phitthaya Khom School

	Ban Rat Chang Khwan	**Amphoe** Mueang	**Changwat** Phichit
Drainge Area	27,897 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+26.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	In front of Phichit Phitthaya Khom School.		**Elevation** +37.143 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	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Naresuan Dam.		
	Stage-discharge relation defined by 36 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.53	27.79	28.41	28.02	30.29	31.41	29.96	27.57	27.13	27.61	27.73	27.94	
2	28.58	28.21	28.42	28.38	30.20	31.93	29.80	27.68	27.11	27.63	27.88	27.92	
3	28.39	28.66	28.48	28.61	29.77	32.57	29.56	27.55	27.07	27.63	27.94	27.81	
4	28.13	28.94	28.54	28.58	29.38	33.57	29.31	27.46	27.01	27.63	27.98	27.82	
5	28.09	29.27	28.48	28.37	29.08	33.97	28.89	27.64	27.03	27.52	27.99	27.86	
6	28.22	29.28	28.41	28.44	28.94	34.05	28.66	27.51	27.14	27.59	27.88	27.91	
7	28.21	29.24	28.45	28.42	29.11	33.89	28.60	27.46	27.11	27.56	27.70	28.12	
8	28.14	29.11	28.53	28.18	29.66	33.72	28.51	27.37	27.12	27.53	27.66	28.20	
9	28.07	28.88	28.66	28.39	30.44	33.33	28.34	27.57	27.25	27.56	27.61	27.86	
10	28.03	28.83	28.81	28.39	30.78	32.64	28.01	27.77	27.26	27.38	27.59	27.89	
11	27.97	28.76	29.13	28.40	30.74	32.05	27.59	28.21	27.43	27.45	27.47	27.90	
12	27.91	28.69	29.40	28.61	30.66	31.66	27.61	28.26	27.22	28.01	27.44	27.86	
13	28.02	28.76	29.11	28.68	30.33	31.35	27.63	28.19	27.47	28.17	27.67	27.85	
14	28.15	28.83	28.93	28.77	29.93	31.22	27.66	28.10	27.51	27.94	27.83	27.81	
15	28.19	28.85	28.91	28.90	29.67	31.08	27.49	27.71	27.32	27.74	28.01	27.78	
16	28.07	28.56	28.85	29.16	29.59	31.20	27.36	27.52	27.42	27.71	27.89	27.80	
17	28.13	28.35	28.75	29.49	29.73	31.25	27.39	27.47	27.43	27.72	27.96	27.80	
18	28.28	28.11	28.82	29.86	30.11	31.14	27.46	27.43	27.30	27.74	27.86	27.83	
19	28.43	28.12	29.18	29.89	30.33	31.13	27.43	27.43	27.33	27.65	27.98	27.80	
20	28.32	28.40	29.60	29.49	30.59	31.14	27.50	27.44	27.34	27.66	27.92	27.81	
21	28.21	28.94	29.55	29.31	30.65	30.94	27.49	27.39	27.32	27.67	27.92	27.80	
22	28.12	29.01	29.29	29.20	30.35	30.72	27.48	27.48	27.28	27.60	28.08	27.77	
23	27.88	28.97	28.84	29.03	30.39	30.61	27.69	27.29	27.14	27.62	27.97	27.73	
24	27.76	28.94	28.45	28.82	30.52	30.19	27.88	27.19	27.33	27.58	27.89	27.75	
25	27.73	28.96	28.24	28.50	30.30	29.95	28.19	27.18	27.42	27.77	27.88	27.83	
26	27.63	28.82	28.18	28.13	29.96	30.14	28.48	27.18	27.42	27.52	27.91	27.76	
27	27.56	28.62	28.10	28.47	29.48	30.37	28.63	27.14	27.44	27.73	27.93	27.59	
28	27.50	28.21	27.97	28.82	29.21	30.33	28.31	27.15	27.67	27.70	27.92	27.57	
29	27.47	27.91	27.93	29.11	29.51	30.42	28.82	27.12	27.85	27.66		27.63	
30	27.56	28.22	27.80	29.74	30.09	30.08	28.19	27.12	27.73	27.62		27.55	
31		28.32		30.13	30.62		27.71		27.67	27.50		27.51	
Mean	28.04	28.66	28.67	28.85	30.01	31.60	28.18	27.52	27.33	27.66	27.84	27.81	
Max	28.58	29.28	29.60	30.13	30.78	34.05	29.96	28.26	27.85	28.17	28.08	28.20	34.05
Min	27.47	27.79	27.80	28.02	28.94	29.95	27.36	27.12	27.01	27.38	27.44	27.51	27.01

Annual Max Momentary Gage Height	34.07	m. (MSL.) ,	at 21.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	26.00	m. (MSL.) ,	River Bed	20.02	m. (MSL.)
Left Bank Elevation	37.63	m. (MSL.) ,			
Right Bank Elevation	39.64	m. (MSL.) ,	Drainage Area	27897	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	188.40	129.30	178.80	147.60	340.10	443.95	310.40	113.90	83.80	116.70	125.10	141.20		
2	192.40	162.80	179.60	176.40	332.00	493.35	296.00	121.60	82.60	118.10	136.40	139.60		
3	177.20	198.80	184.40	194.80	293.30	554.15	274.40	112.50	80.20	118.10	141.20	130.80		
4	156.40	221.20	189.20	192.40	258.30	653.00	252.35	106.20	76.60	118.10	144.40	131.60		
5	153.20	248.95	184.40	175.60	232.80	693.85	217.20	118.80	77.80	110.40	145.20	134.80		
6	163.60	249.80	178.80	181.20	221.20	702.25	198.80	109.70	84.40	115.30	136.40	138.80		
7	162.80	246.40	182.00	179.60	235.35	685.45	194.00	106.20	82.60	113.20	123.00	155.60		
8	157.20	235.35	188.40	160.40	283.40	668.00	186.80	99.90	83.20	111.10	120.20	162.00		
9	151.60	216.40	198.80	177.20	353.60	629.00	173.20	113.90	91.50	113.20	116.70	134.80		
10	148.40	212.40	210.80	177.20	384.20	560.80	146.80	127.90	92.20	100.60	115.30	137.20		
11	143.60	206.80	237.05	178.00	380.60	504.75	115.30	162.80	104.10	105.50	106.90	138.00		
12	138.80	201.20	260.00	194.80	373.40	467.70	116.70	166.80	89.40	146.80	104.80	134.80		
13	147.60	206.80	235.35	200.40	343.70	438.25	118.10	161.20	106.90	159.60	120.90	134.00		
14	158.00	212.40	220.40	207.60	307.70	425.90	120.20	154.00	109.70	141.20	132.40	130.80		
15	161.20	214.00	218.80	218.00	284.30	412.60	108.30	123.70	96.40	125.80	146.80	128.60		
16	151.60	190.80	214.00	239.60	277.10	424.00	99.20	110.40	103.40	123.70	137.20	130.00		
17	156.40	174.00	206.00	268.10	289.70	428.75	101.30	106.90	104.10	124.40	142.80	130.00		
18	168.40	154.80	211.60	301.40	323.90	418.30	106.20	104.10	95.00	125.80	134.80	132.40		
19	180.40	155.60	241.30	304.10	343.70	417.35	104.10	104.10	97.10	119.50	144.40	130.00		
20	171.60	178.00	278.00	268.10	367.10	418.30	109.00	104.80	97.80	120.20	139.60	130.80		
21	162.80	221.20	273.50	252.35	372.50	399.30	108.30	101.30	96.40	120.90	139.60	130.00		
22	155.60	226.85	250.65	243.00	345.50	378.80	107.60	107.60	93.60	116.00	152.40	127.90		
23	136.40	223.60	213.20	228.55	349.10	368.90	122.30	94.30	84.40	117.40	143.60	125.10		
24	127.20	221.20	182.00	211.60	360.80	331.10	136.40	87.40	97.10	114.60	137.20	126.50		
25	125.10	222.80	165.20	186.00	341.00	309.50	161.20	86.80	103.40	127.90	136.40	132.40		
26	118.10	211.60	160.40	156.40	310.40	326.60	184.40	86.80	103.40	110.40	138.80	127.20		
27	113.20	195.60	154.00	183.60	267.20	347.30	196.40	84.40	104.80	125.10	140.40	115.30		
28	109.00	162.80	143.60	211.60	243.85	343.70	170.80	85.00	120.90	123.00	139.60	113.90		
29	106.90	138.80	140.40	235.35	269.90	351.80	211.60	83.20	134.00	120.20		118.10		
30	113.20	163.60	130.00	290.60	322.10	321.20	161.20	83.20	125.10	117.40		112.50		
31		171.60		325.70	369.80		123.70		120.90	109.00		109.70		
Total	4496.30	6175.45	6010.65	6667.25	9777.60	13917.90	5032.25	3329.40	3022.80	3729.20	3742.50	4064.40	69965.70	CMSDAY
Mean	149.88	199.21	200.36	215.07	315.41	463.93	162.33	110.98	97.51	120.30	133.66	131.11	191.69	CMS
Max	192.40	249.80	278.00	325.70	384.20	702.25	310.40	166.80	134.00	159.60	152.40	162.00	702.25	CMS
Min	106.90	129.30	130.00	147.60	221.20	309.50	99.20	83.20	76.60	100.60	104.80	109.70	76.60	CMS
Runoff	388.48	533.56	519.32	576.05	844.79	1202.51	434.79	287.66	261.17	322.20	323.35	351.16	6045.04	MCM

Momentary Peak 704.35 CMS. at 34.07 m. (MSL.) at 21.00 Hours , on Sep 5 , 2014

Runoff Yield 6.87 Liters/Second/Square KM. Momentary Peak Yield 25.248 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

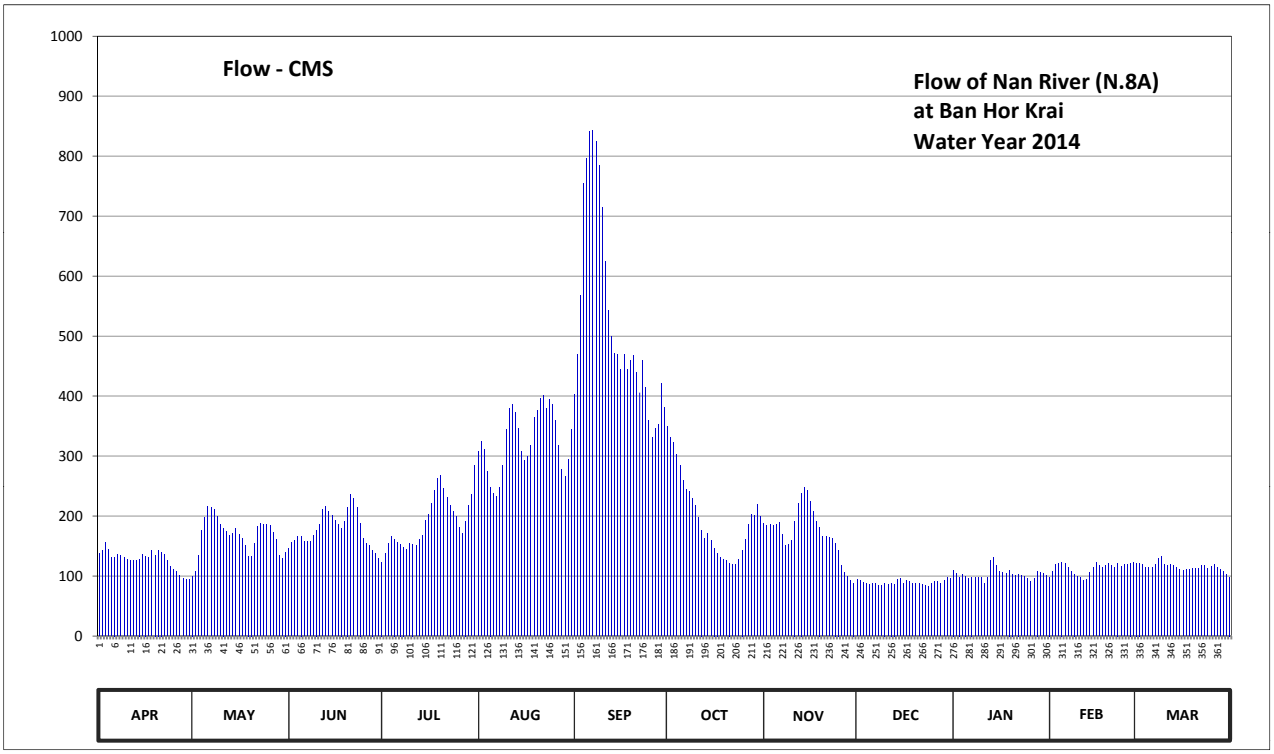
Location : on right bank opposite to Wat Bang Mun Nak.

	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**	+30.978 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	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam.		
	Stage-discharge relation defined by 36 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.47	21.76	22.62	22.21	24.97	25.94	25.41	23.28	21.65	21.96	21.73	22.18	
2	22.55	21.90	22.79	22.47	25.15	26.52	25.22	23.23	21.62	21.85	21.92	22.18	
3	22.79	22.41	22.83	22.75	25.00	27.27	25.12	23.27	21.54	21.73	22.13	22.13	
4	22.59	23.10	22.95	22.95	24.56	28.45	24.90	23.24	21.49	21.82	22.15	22.05	
5	22.34	23.44	22.96	22.88	24.19	28.68	24.68	23.25	21.46	21.76	22.21	22.04	
6	22.36	23.72	22.82	22.78	24.04	28.92	24.35	23.32	21.50	21.69	22.17	22.03	
7	22.44	23.69	22.82	22.74	23.96	28.93	24.14	23.01	21.50	21.73	22.05	22.14	
8	22.41	23.64	22.82	22.66	24.17	28.83	24.08	22.70	21.43	21.70	21.91	22.32	
9	22.35	23.46	22.98	22.59	24.69	28.61	23.92	22.72	21.42	21.70	21.83	22.37	
10	22.29	23.26	23.12	22.75	25.35	28.21	23.75	22.84	21.52	21.70	21.75	22.12	
11	22.25	23.17	23.26	22.74	25.72	27.65	23.45	23.35	21.46	21.51	21.71	22.11	
12	22.24	23.08	23.64	22.71	25.79	27.09	23.12	23.80	21.52	21.71	21.60	22.14	
13	22.25	22.98	23.73	22.86	25.65	26.75	22.89	24.05	21.48	22.26	21.63	22.09	
14	22.30	23.04	23.59	22.97	25.37	26.53	23.03	24.17	21.66	22.34	21.89	22.05	
15	22.44	23.15	23.49	23.37	24.97	26.51	22.83	24.10	21.69	22.10	22.04	21.99	
16	22.39	23.01	23.36	23.51	24.78	26.30	22.63	23.84	21.50	21.90	22.19	21.95	
17	22.35	22.90	23.26	23.81	24.87	26.52	22.48	23.59	21.60	21.87	22.11	21.97	
18	22.55	22.69	23.17	24.10	25.08	26.30	22.34	23.34	21.57	21.85	22.05	21.99	
19	22.42	22.39	23.34	24.39	25.56	26.43	22.27	23.20	21.50	21.96	22.10	22.00	
20	22.57	22.39	23.71	24.48	25.68	26.50	22.24	22.95	21.50	21.83	22.17	22.00	
21	22.51	22.76	24.02	24.15	25.88	26.27	22.18	22.95	21.50	21.79	22.11	22.00	
22	22.43	23.21	23.91	23.95	25.92	25.96	22.12	22.92	21.46	21.83	22.05	22.10	
23	22.26	23.29	23.70	23.76	25.72	26.43	22.12	22.89	21.43	21.79	22.18	22.11	
24	22.08	23.25	23.30	23.59	25.86	26.04	22.29	22.77	21.40	21.74	22.08	22.00	
25	21.99	23.26	22.89	23.46	25.78	25.52	22.57	22.57	21.49	21.67	22.13	22.08	
26	21.92	23.24	22.76	23.18	25.52	25.22	22.87	22.10	21.59	21.58	22.14	22.12	
27	21.78	23.06	22.71	23.04	25.08	25.37	23.27	21.89	21.58	21.69	22.18	22.03	
28	21.69	22.87	22.57	23.35	24.61	25.44	23.51	21.74	21.50	21.93	22.20	21.97	
29	21.64	22.41	22.46	23.75	24.44	26.11	23.49	21.61	21.60	21.87		21.90	
30	21.63	22.32	22.32	24.01	24.81	25.73	23.78	21.52	21.70	21.84		21.81	
31		22.51		24.68	25.35		23.47		21.68	21.78		21.73	
Mean	22.28	22.95	23.13	23.31	25.11	26.83	23.37	23.01	21.53	21.82	22.01	22.05	
Max	22.79	23.72	24.02	24.68	25.92	28.93	25.41	24.17	21.70	22.34	22.21	22.37	28.93
Min	21.63	21.76	22.32	22.21	23.96	25.22	22.12	21.52	21.40	21.51	21.60	21.73	21.40

Annual Max Momentary Gage Height	28.95	m. (MSL.) ,	at 21.00 Hours , on Sep 6 , 2014		
Zero Gage at Bottom Elevation	20.00	m. (MSL.) ,	River Bed	19.39	m. (MSL.)
Left Bank Elevation	31.40	m. (MSL.) ,			
Right Bank Elevation	31.62	m. (MSL.) ,	Drainage Area	31472	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	137.85	100.00	146.20	123.55	308.45	403.40	349.95	187.20	94.50	110.00	98.50	121.90		
2	142.25	107.00	156.40	137.85	325.25	470.40	331.90	183.95	93.00	104.50	108.00	121.90		
3	156.40	134.55	158.80	154.00	311.00	568.15	322.40	186.55	89.30	98.50	119.15	119.15		
4	144.45	175.50	166.00	166.00	274.20	755.00	302.50	184.60	87.05	103.00	120.25	114.75		
5	130.70	197.60	166.60	161.80	248.30	796.40	283.80	185.25	85.70	100.00	123.55	114.20		
6	131.80	215.80	158.20	155.80	237.80	840.80	259.50	189.80	87.50	96.50	121.35	113.65		
7	136.20	213.85	158.20	153.40	232.20	842.70	244.80	169.65	87.50	98.50	114.75	119.70		
8	134.55	210.60	158.20	148.60	246.90	823.70	240.60	151.00	84.35	97.00	107.50	129.60		
9	131.25	198.90	167.80	144.45	284.65	783.80	229.40	152.20	83.90	97.00	103.50	132.35		
10	127.95	185.90	176.80	154.00	344.25	713.70	217.75	159.40	88.40	97.00	99.50	118.60		
11	125.75	180.05	185.90	153.40	380.00	624.00	198.25	191.75	85.70	87.95	97.50	118.05		
12	125.20	174.20	210.60	151.60	387.00	543.70	176.80	221.00	88.40	97.50	92.00	119.70		
13	125.75	167.80	216.45	160.60	373.00	499.50	162.40	238.50	86.60	126.30	93.50	116.95		
14	128.50	171.60	207.35	167.20	346.15	471.60	170.95	246.90	95.00	130.70	106.50	114.75		
15	136.20	178.75	200.85	193.05	308.45	469.20	158.80	242.00	96.50	117.50	114.20	111.50		
16	133.45	169.65	192.40	202.15	292.30	444.00	146.80	223.80	87.50	107.00	122.45	109.50		
17	131.25	163.00	185.90	221.70	299.95	470.40	138.40	207.35	92.00	105.50	118.05	110.50		
18	142.25	150.40	180.05	242.00	318.60	444.00	130.70	191.10	90.65	104.50	114.75	111.50		
19	135.10	133.45	191.10	262.30	364.20	459.60	126.85	182.00	87.50	110.00	117.50	112.00		
20	143.35	133.45	215.15	268.60	376.00	468.00	125.20	166.00	87.50	103.50	121.35	112.00		
21	140.05	154.60	236.40	245.50	396.80	440.40	121.90	166.00	87.50	101.50	118.05	112.00		
22	135.65	182.65	228.70	231.50	401.20	405.60	118.60	164.20	85.70	103.50	114.75	117.50		
23	126.30	187.85	214.50	218.40	380.00	459.60	118.60	162.40	84.35	101.50	121.90	118.05		
24	116.40	185.25	188.50	207.35	394.60	414.40	127.95	155.20	83.00	99.00	116.40	112.00		
25	111.50	185.90	162.40	198.90	386.00	360.40	143.35	143.35	87.05	95.50	119.15	116.40		
26	108.00	184.60	154.60	180.70	360.40	331.90	161.20	117.50	91.55	91.10	119.70	118.60		
27	101.00	172.90	151.60	171.60	318.60	346.15	186.55	106.50	91.10	96.50	121.90	113.65		
28	96.50	161.20	143.35	191.75	277.85	352.80	202.15	99.00	87.50	108.50	123.00	110.50		
29	94.00	134.55	137.30	217.75	265.80	422.10	200.85	92.50	92.00	105.50		107.00		
30	93.50	129.60	129.60	235.70	294.85	381.00	219.70	88.40	97.00	104.00		102.50		
31		140.05		283.80	344.25		199.55		96.00	101.00		98.50		
Total	3823.10	5181.20	5345.90	5905.00	10079.00	15806.40	6118.15	5155.05	2761.30	3200.05	3168.70	3568.95	70112.81	CMSDAY
Mean	127.44	167.14	178.20	190.48	325.13	526.88	197.36	171.84	89.07	103.23	113.17	115.13	192.09	CMS
Max	156.40	215.80	236.40	283.80	401.20	842.70	349.95	246.90	97.00	130.70	123.55	132.35	842.70	CMS
Min	93.50	100.00	129.60	123.55	232.20	331.90	118.60	88.40	83.00	87.95	92.00	98.50	83.00	CMS
Runoff	330.32	447.66	461.89	510.19	870.83	1365.67	528.61	445.40	238.58	276.48	273.78	308.36	6057.75	MCM

Momentary Peak 846.50 CMS. at 28.95 m. (MSL.) at 21.00 Hours , on Sep 6 , 2014

Runoff Yield 6.10 Liters/Second/Square KM. Momentary Peak Yield 26.897 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 16 - 13 - 00 N Long 100 - 25 - 19 E

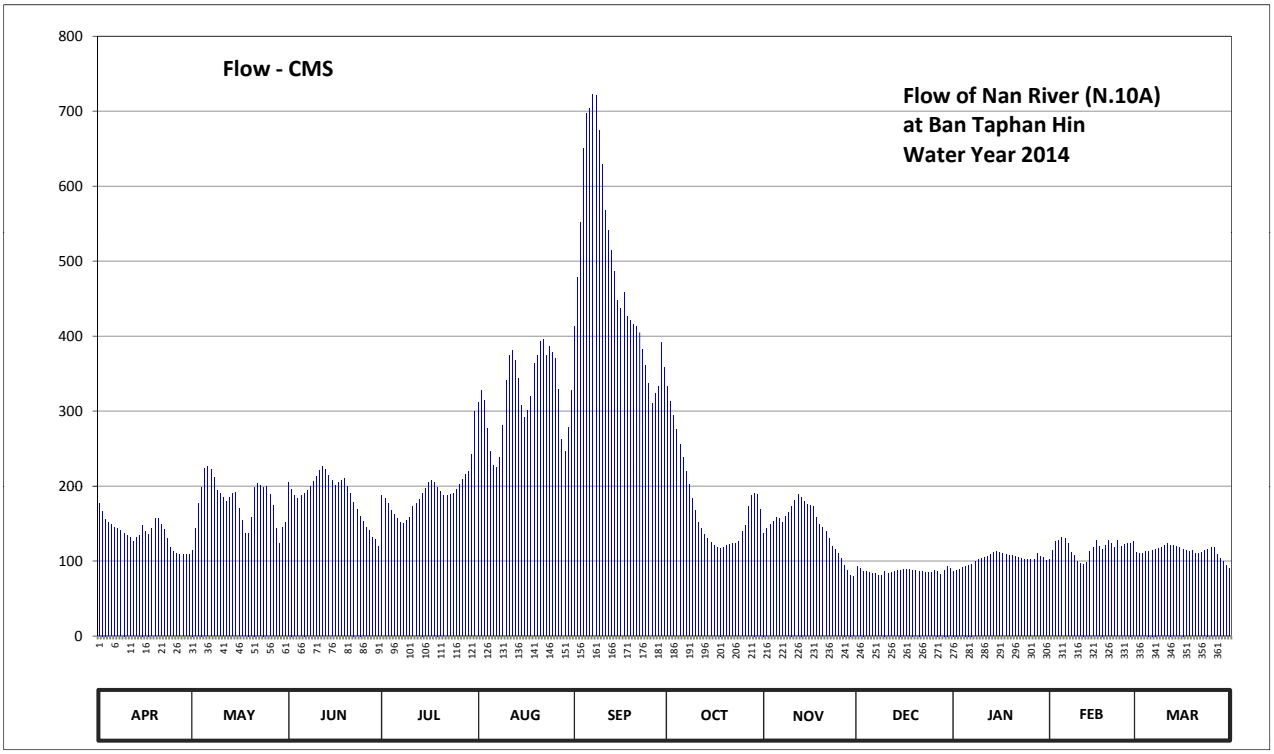
Location : on left bank near Amphoe Taphan Hin Office about 250 meters from Station N.10

	Ban Taphan Hin	**Amphoe** Taphan Hin	**Changwat** Phichit
Drainge Area	30,328 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+22.280 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near automatic gage building.		**Elevation** +33.300 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1974 - 1979, 1991 to date		
Rated by Flot	-		
Rated by Current Meter	1974 - 1982, 1987, 1991 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by Naresuan Dam.		
	Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.38	23.52	24.75	24.53	26.01	27.10	26.25	23.85	23.18	23.08	23.33	23.46	
2	24.25	23.94	24.64	24.48	26.19	27.76	26.03	23.93	23.13	23.10	23.51	23.44	
3	24.11	24.39	24.53	24.39	26.04	28.49	25.81	24.01	23.08	23.12	23.68	23.45	
4	24.04	24.67	24.48	24.26	25.62	29.45	25.60	24.07	23.06	23.15	23.70	23.48	
5	24.01	24.99	24.52	24.19	25.26	29.89	25.38	24.13	23.04	23.19	23.77	23.50	
6	23.96	25.01	24.57	24.12	25.04	29.95	25.16	24.12	23.02	23.21	23.74	23.52	
7	23.93	24.97	24.62	24.05	25.00	30.12	24.93	24.05	23.02	23.23	23.64	23.54	
8	23.90	24.84	24.69	24.02	25.16	30.11	24.72	24.15	22.98	23.28	23.46	23.55	
9	23.85	24.61	24.76	24.08	25.67	29.68	24.47	24.22	22.98	23.32	23.40	23.58	
10	23.81	24.56	24.85	24.14	26.33	29.25	24.26	24.34	23.08	23.35	23.29	23.61	
11	23.77	24.49	24.95	24.33	26.70	28.66	24.04	24.43	23.03	23.37	23.25	23.64	
12	23.69	24.42	25.01	24.38	26.77	28.39	23.93	24.55	23.05	23.39	23.23	23.62	
13	23.76	24.49	24.97	24.45	26.63	28.12	23.82	24.50	23.07	23.43	23.27	23.61	
14	23.80	24.56	24.86	24.57	26.36	27.84	23.74	24.42	23.09	23.46	23.48	23.60	
15	24.00	24.58	24.79	24.65	25.97	27.46	23.67	24.37	23.10	23.48	23.58	23.58	
16	23.87	24.29	24.70	24.75	25.79	27.35	23.61	24.35	23.11	23.46	23.70	23.54	
17	23.83	24.08	24.75	24.78	25.89	27.56	23.58	24.33	23.11	23.44	23.60	23.51	
18	23.94	23.84	24.78	24.75	26.10	27.24	23.56	24.14	23.12	23.42	23.54	23.48	
19	24.12	23.85	24.81	24.67	26.59	27.19	23.57	24.01	23.10	23.41	23.61	23.51	
20	24.12	24.13	24.68	24.60	26.70	27.14	23.61	23.96	23.09	23.40	23.70	23.44	
21	24.01	24.67	24.56	24.53	26.89	27.10	23.63	23.88	23.08	23.38	23.64	23.44	
22	23.91	24.74	24.41	24.53	26.92	27.02	23.64	23.74	23.06	23.36	23.58	23.47	
23	23.75	24.70	24.28	24.54	26.70	26.78	23.65	23.60	23.05	23.34	23.71	23.51	
24	23.57	24.67	24.16	24.56	26.83	26.55	23.69	23.53	23.04	23.33	23.60	23.54	
25	23.48	24.69	24.06	24.63	26.74	26.29	23.87	23.44	23.04	23.33	23.63	23.57	
26	23.44	24.55	23.95	24.72	26.65	26.00	23.99	23.35	23.09	23.33	23.64	23.58	
27	23.43	24.35	23.89	24.80	26.20	26.14	24.33	23.21	23.08	23.32	23.66	23.42	
28	23.43	23.94	23.76	24.88	25.46	26.24	24.53	23.09	23.01	23.44	23.69	23.34	
29	23.43	23.64	23.72	24.94	25.26	26.88	24.57	22.99	23.10	23.38		23.28	
30	23.43	23.95	23.59	25.22	25.64	26.52	24.54	22.95	23.19	23.36		23.20	
31		24.05		25.87	26.18		24.28		23.14	23.30		23.13	
Mean	23.83	24.39	24.50	24.56	26.11	27.81	24.34	23.92	23.07	23.33	23.56	23.49	
Max	24.38	25.01	25.01	25.87	26.92	30.12	26.25	24.55	23.19	23.48	23.77	23.64	30.12
Min	23.43	23.52	23.59	24.02	25.00	26.00	23.56	22.95	22.98	23.08	23.23	23.13	22.95

Annual Max Momentary Gage Height	30.18	m. (MSL.) ,	at 09.00 Hours , on Sep 8 , 2014		
Zero Gage at Bottom Elevation	22.28	m. (MSL.) ,	River Bed	20.05	m. (MSL.)
Left Bank Elevation	33.34	m. (MSL.) ,			
Right Bank Elevation	33.65	m. (MSL.) ,	Drainage Area	30328	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	176.50	114.80	205.00	187.75	311.90	412.50	333.50	137.50	92.80	86.80	102.45	110.90		
2	166.75	143.80	196.20	184.00	328.10	478.00	313.70	143.10	89.80	88.00	114.15	109.60		
3	156.25	177.25	187.75	177.25	314.60	551.00	293.90	148.75	86.80	89.20	125.60	110.25		
4	151.00	198.60	184.00	167.50	276.80	650.25	275.00	153.25	85.60	91.00	127.00	112.20		
5	148.75	224.20	187.00	162.25	245.80	696.90	255.40	157.75	84.40	93.40	131.90	113.50		
6	145.20	225.80	190.75	157.00	228.20	703.50	237.80	157.00	83.20	94.65	129.80	114.80		
7	143.10	222.60	194.60	151.75	225.00	722.20	219.40	151.75	83.20	95.95	122.80	116.10		
8	141.00	212.20	200.20	149.50	237.80	721.10	202.60	159.25	80.80	99.20	110.90	116.75		
9	137.50	193.80	205.80	154.00	281.30	674.40	183.25	164.50	80.80	101.80	107.00	118.70		
10	134.70	190.00	213.00	158.50	340.70	629.25	167.50	173.50	86.80	103.75	99.85	120.70		
11	131.90	184.75	221.00	172.75	374.50	568.00	151.00	180.25	83.80	105.05	97.25	122.80		
12	126.30	179.50	225.80	176.50	381.15	541.00	143.10	189.25	85.00	106.35	95.95	121.40		
13	131.20	184.75	222.60	181.75	367.85	514.00	135.40	185.50	86.20	108.95	98.55	120.70		
14	134.00	190.00	213.80	190.75	343.40	486.00	129.80	179.50	87.40	110.90	112.20	120.00		
15	148.00	191.50	208.20	197.00	308.30	448.00	124.90	175.75	88.00	112.20	118.70	118.70		
16	138.90	169.75	201.00	205.00	292.10	437.00	120.70	174.25	88.60	110.90	127.00	116.10		
17	136.10	154.00	205.00	207.40	301.10	458.00	118.70	172.75	88.60	109.60	120.00	114.15		
18	143.80	136.80	207.40	205.00	320.00	426.00	117.40	158.50	89.20	108.30	116.10	112.20		
19	157.00	137.50	209.80	198.60	364.10	421.05	118.05	148.75	88.00	107.65	120.70	114.15		
20	157.00	157.75	199.40	193.00	374.50	416.30	120.70	145.20	87.40	107.00	127.00	109.60		
21	148.75	198.60	190.00	187.75	392.55	412.50	122.10	139.60	86.80	105.70	122.80	109.60		
22	141.70	204.20	178.75	187.75	395.40	404.90	122.80	129.80	85.60	104.40	118.70	111.55		
23	130.50	201.00	169.00	188.50	374.50	382.10	123.50	120.00	85.00	103.10	127.70	114.15		
24	118.05	198.60	160.00	190.00	386.85	360.50	126.30	115.45	84.40	102.45	120.00	116.10		
25	112.20	200.20	152.50	195.40	378.30	337.10	138.90	109.60	84.40	102.45	122.10	118.05		
26	109.60	189.25	144.50	202.60	369.75	311.00	147.30	103.75	87.40	102.45	122.80	118.70		
27	108.95	174.25	140.30	209.00	329.00	323.60	172.75	94.65	86.80	101.80	124.20	108.30		
28	108.95	143.80	131.20	215.40	262.40	332.60	187.75	87.40	82.60	109.60	126.30	103.10		
29	108.95	122.80	128.40	220.20	245.80	391.60	190.75	81.40	88.00	105.70		99.20		
30	108.95	144.50	119.35	242.60	278.60	357.80	188.50	79.00	93.40	104.40		94.00		
31		151.75		299.30	327.20		169.00		90.40	100.50		89.80		
Total	4101.55	5518.30	5592.30	5915.75	9957.55	14568.15	5451.45	4316.70	2681.20	3173.20	3289.50	3495.85	68061.50	CMSDAY
Mean	136.72	178.01	186.41	190.83	321.21	485.60	175.85	143.89	86.49	102.36	117.48	112.77	186.47	CMS
Max	176.50	225.80	225.80	299.30	395.40	722.20	333.50	189.25	93.40	112.20	131.90	122.80	722.20	CMS
Min	108.95	114.80	119.35	149.50	225.00	311.00	117.40	79.00	80.80	86.80	95.95	89.80	79.00	CMS
Runoff	354.37	476.78	483.18	511.12	860.33	1258.69	471.01	372.96	231.66	274.16	284.21	302.04	5880.51	MCM

Momentary Peak 728.80 CMS. at 30.18 m. (MSL.) at 09.00 Hours , on Sep 8 , 2014

Runoff Yield 6.15 Liters/Second/Square KM. Momentary Peak Yield 24.031 Liters/Second/Square KM.

WATER YEAR : 2014

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.

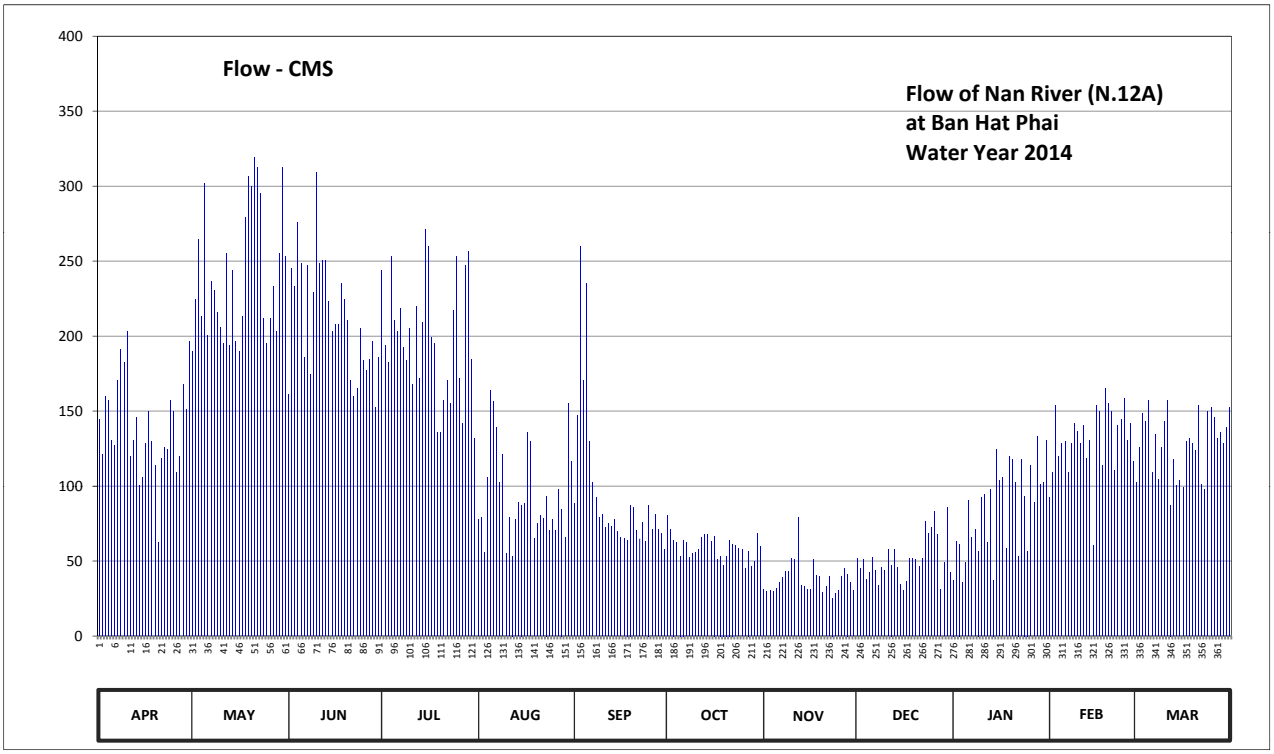
Ban Hat Phai **Amphoe** Tha Pla **Changwat** Uttaradit

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 Flot	-
Rated by Current Meter	1966 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 20 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.05	71.40	71.18	71.78	70.45	70.57	70.48	69.90	70.16	69.99	70.61	70.70	
2	70.86	71.65	71.79	71.43	70.47	71.07	70.38	69.88	70.08	70.29	70.76	70.90	
3	71.17	71.91	71.71	71.34	70.21	71.88	70.30	69.89	70.15	70.27	71.12	71.08	
4	71.15	71.57	71.98	71.84	70.73	71.25	70.28	69.88	70.00	69.97	70.85	71.04	
5	70.94	72.14	71.81	71.55	71.20	71.72	70.18	69.91	70.05	70.13	70.92	71.15	
6	70.91	71.48	71.37	71.50	71.14	70.93	70.30	69.97	70.17	70.59	70.93	70.76	
7	71.25	71.73	71.80	71.61	71.01	70.70	70.28	70.01	70.07	70.32	70.76	70.97	
8	71.41	71.69	71.28	71.42	70.70	70.61	70.17	70.06	69.94	70.38	70.92	70.72	
9	71.34	71.59	71.68	71.35	70.86	70.47	70.20	70.06	70.09	70.22	71.03	70.90	
10	71.50	71.52	72.19	71.51	70.20	70.49	70.21	70.16	70.07	70.61	70.99	71.04	
11	70.85	71.44	71.81	71.23	70.47	70.39	70.23	70.15	70.23	70.63	70.92	71.15	
12	70.94	71.85	71.82	71.62	70.18	70.42	70.32	70.47	70.11	70.28	71.02	70.56	
13	71.06	71.43	71.82	71.26	70.45	70.40	70.34	69.94	70.23	70.66	70.84	70.83	
14	70.68	71.78	71.64	71.54	70.58	70.45	70.34	69.93	70.09	69.99	70.94	70.68	
15	70.73	71.45	71.50	71.95	70.56	70.36	70.29	69.90	69.95	70.89	70.26	70.71	
16	70.92	71.40	71.53	71.88	70.57	70.32	70.33	69.90	69.89	70.71	71.12	70.67	
17	71.09	71.57	71.53	71.47	70.98	70.31	70.15	70.15	69.98	70.73	71.09	70.93	
18	70.93	72.00	71.72	71.44	70.93	70.30	70.18	70.03	70.16	70.24	70.80	70.95	
19	70.80	72.17	71.65	70.98	70.31	70.56	70.11	70.02	70.16	70.85	71.21	70.92	
20	70.28	72.13	71.55	70.98	70.42	70.54	70.18	69.87	70.15	70.83	71.13	70.88	
21	70.84	72.25	71.25	71.15	70.48	70.37	70.30	69.93	70.10	70.70	71.09	71.12	
22	70.90	72.21	71.17	71.25	70.46	70.31	70.27	70.02	70.16	70.18	70.77	70.69	
23	70.89	72.10	71.21	71.13	70.62	70.43	70.26	69.82	70.44	70.83	71.02	70.66	
24	71.15	71.56	71.51	71.60	70.37	70.29	70.24	69.86	70.35	70.62	71.05	71.09	
25	71.09	71.44	71.35	71.84	70.45	70.56	70.23	69.89	70.39	70.22	71.16	71.11	
26	70.76	71.56	71.30	71.26	70.37	70.38	70.08	70.02	70.51	70.80	70.94	71.06	
27	70.85	71.71	71.36	71.03	70.66	70.49	70.22	70.08	70.34	70.58	71.03	70.95	
28	71.23	71.50	71.45	71.80	70.53	70.38	70.10	70.04	69.90	70.96	70.82	70.98	
29	71.10	71.85	71.11	71.86	70.32	70.35	70.14	69.97	70.13	70.69		70.92	
30	71.45	72.21	71.37	71.36	71.13	70.23	70.35	69.89	70.54	70.70		71.01	
31		71.84		70.95	70.82		70.25		70.05	70.94		71.11	
Mean	71.00	71.75	71.55	71.45	70.60	70.58	70.25	69.99	70.15	70.51	70.93	70.91	
Max	71.50	72.25	72.19	71.95	71.20	71.88	70.48	70.47	70.54	70.96	71.21	71.15	72.25
Min	70.28	71.40	71.11	70.95	70.18	70.23	70.08	69.82	69.89	69.97	70.26	70.56	69.82

Annual Max Momentary Gage Height	73.82	m. (MSL.) ,	at 12.00 Hours , on Jun 10 , 2014		
Zero Gage at Bottom Elevation	69.00	m. (MSL.) ,	River Bed	67.40	m. (MSL.)
Left Bank Elevation	82.43	m. (MSL.) ,			
Right Bank Elevation	81.43	m. (MSL.) ,	Drainage Area	15579	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	144.50	190.00	161.40	244.00	77.50	88.30	80.20	31.00	51.60	37.30	92.15	102.50		
2	121.20	224.50	245.50	194.05	79.30	147.10	71.20	29.60	44.80	63.10	109.40	126.00		
3	160.10	264.60	233.50	182.20	55.90	259.80	64.00	30.30	50.75	61.30	153.60	148.40		
4	157.50	212.95	275.80	253.40	105.95	170.50	62.20	29.60	38.00	35.90	120.00	143.20		
5	130.80	301.40	248.60	210.25	164.00	235.00	53.30	31.70	42.25	49.05	128.40	157.50		
6	127.20	200.80	186.10	203.50	156.20	129.60	64.00	35.90	52.45	90.10	129.60	109.40		
7	170.50	236.50	247.00	218.50	139.30	102.50	62.20	38.85	43.95	65.80	109.40	134.40		
8	191.35	230.50	174.40	192.70	102.50	92.15	52.45	43.10	33.80	71.20	128.40	104.80		
9	182.20	215.65	229.00	183.50	121.20	79.30	55.00	43.10	45.65	56.80	141.90	126.00		
10	203.50	206.20	309.40	204.85	55.00	81.10	55.90	51.60	43.95	92.15	136.80	143.20		
11	120.00	195.40	248.60	167.90	79.30	72.10	57.70	50.75	57.70	94.45	128.40	157.50		
12	130.80	255.00	250.20	220.00	53.30	74.80	65.80	79.30	47.35	62.20	140.60	87.40		
13	145.80	194.05	250.20	171.80	77.50	73.00	67.60	33.80	57.70	97.90	118.80	117.60		
14	100.20	244.00	223.00	208.90	89.20	77.50	67.60	33.10	45.65	37.30	130.80	100.20		
15	105.95	196.75	203.50	271.00	87.40	69.40	63.10	31.00	34.50	124.80	60.40	103.65		
16	128.40	190.00	207.55	259.80	88.30	65.80	66.70	31.00	30.30	103.65	153.60	99.05		
17	149.70	212.95	207.55	199.45	135.60	64.90	50.75	50.75	36.60	105.95	149.70	129.60		
18	129.60	279.00	235.00	195.40	129.60	64.00	53.30	40.55	51.60	58.60	114.00	132.00		
19	114.00	306.20	224.50	135.60	64.90	87.40	47.35	39.70	51.60	120.00	165.30	128.40		
20	62.20	299.80	210.25	135.60	74.80	85.60	53.30	28.90	50.75	117.60	154.90	123.60		
21	118.80	319.25	170.50	157.50	80.20	70.30	64.00	33.10	46.50	102.50	149.70	153.60		
22	126.00	312.65	160.10	170.50	78.40	64.90	61.30	39.70	51.60	53.30	110.55	101.35		
23	124.80	295.00	165.30	154.90	93.30	75.70	60.40	25.40	76.60	117.60	140.60	97.90		
24	157.50	211.60	204.85	217.00	70.30	63.10	58.60	28.20	68.50	93.30	144.50	149.70		
25	149.70	195.40	183.50	253.40	77.50	87.40	57.70	30.30	72.10	56.80	158.80	152.30		
26	109.40	211.60	177.00	171.80	70.30	71.20	44.80	39.70	82.90	114.00	130.80	145.80		
27	120.00	233.50	184.80	141.90	97.90	81.10	56.80	44.80	67.60	89.20	141.90	132.00		
28	167.90	203.50	196.75	247.00	84.70	71.20	46.50	41.40	31.00	133.20	116.40	135.60		
29	151.00	255.00	152.30	256.60	65.80	68.50	49.90	35.90	49.05	101.35		128.40		
30	196.75	312.65	186.10	184.80	154.90	57.70	68.50	30.30	85.60	102.50		139.30		
31		253.40		132.00	116.40		59.50		42.25	130.80		152.30		
Total	4197.35	7459.80	6352.25	6139.80	2926.45	2830.95	1841.65	1132.40	1584.65	2639.70	3659.40	3962.65	44727.05	CMSDAY
Mean	139.91	240.64	211.74	198.06	94.40	94.37	59.41	37.75	51.12	85.15	130.69	127.83	122.54	CMS
Max	203.50	319.25	309.40	271.00	164.00	259.80	80.20	79.30	85.60	133.20	165.30	157.50	319.25	CMS
Min	62.20	190.00	152.30	132.00	53.30	57.70	44.80	25.40	30.30	35.90	60.40	87.40	25.40	CMS
Runoff	362.65	644.53	548.83	530.48	252.85	244.59	159.12	97.84	136.91	228.07	316.17	342.37	3864.42	MCM

Momentary Peak 620.20 CMS. at 73.82 m. (MSL.) at 12.00 Hours , on Jun 10 , 2014

Runoff Yield 7.87 Liters/Second/Square KM. Momentary Peak Yield 39.810 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 18 - 33 - 12 N Long 100 - 46 - 03 E

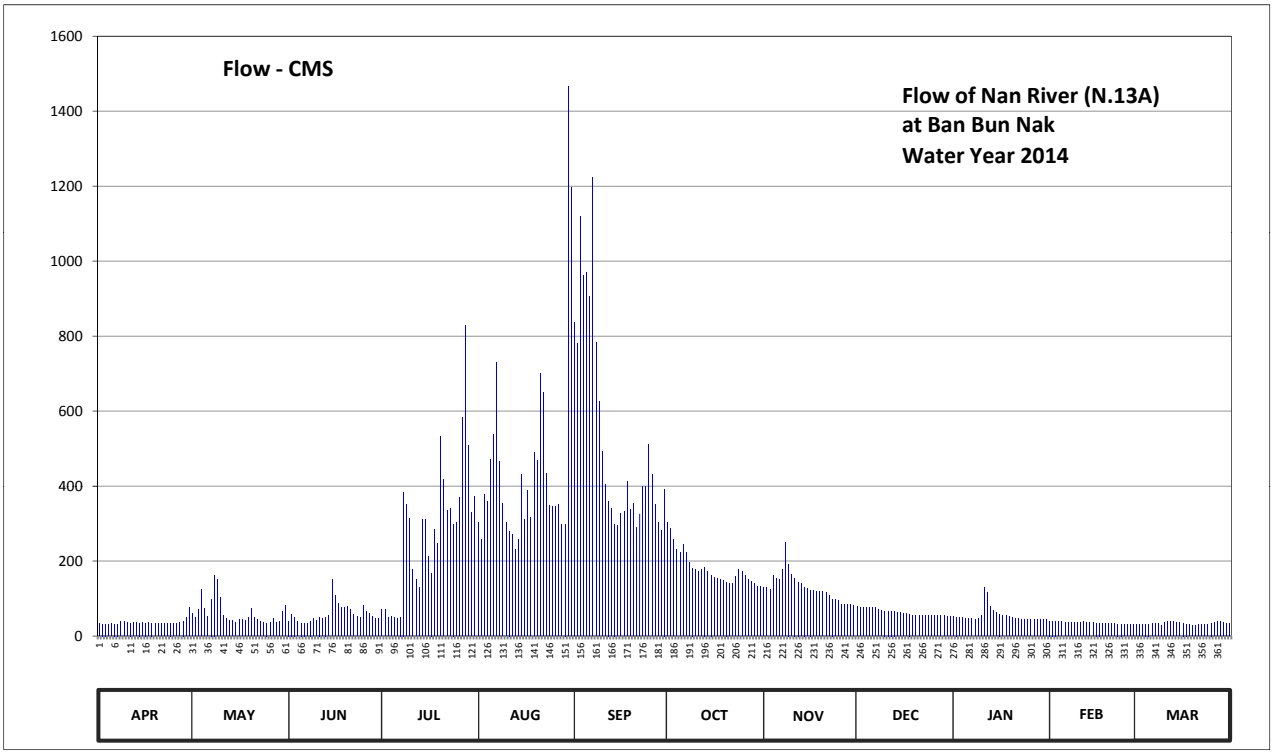
Location : on right bank about 2 kilometers upstream from Station N.13

	Ban Bun Nak	**Amphoe** Wiang Sa	**Changwat** Nan
Drainge Area	8,706 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+177.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+192.700 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.94	178.13	178.00	178.18	179.72	181.84	179.72	178.47	178.22	178.08	178.00	177.91	
2	177.92	178.06	178.12	178.18	179.41	181.66	179.61	178.47	178.21	178.07	178.00	177.91	
3	177.92	178.18	178.07	178.06	180.09	182.65	179.41	178.45	178.21	178.06	178.00	177.91	
4	177.91	178.45	177.99	178.08	179.99	182.23	179.24	178.72	178.21	178.06	177.99	177.92	
5	177.93	178.19	177.95	178.06	180.53	182.25	179.18	178.64	178.21	178.05	177.98	177.92	
6	177.92	178.08	177.95	178.05	180.79	182.06	179.33	178.61	178.20	178.05	177.97	177.94	
7	177.92	178.32	177.94	178.07	181.50	182.91	179.18	178.88	178.20	178.04	177.97	177.94	
8	177.99	178.73	178.00	180.12	180.50	181.67	179.01	179.36	178.18	178.03	177.96	177.94	
9	177.98	178.61	178.04	179.95	179.97	181.15	178.91	178.98	178.17	178.04	177.96	177.87	
10	177.96	178.34	178.01	179.77	179.71	180.61	178.87	178.75	178.16	178.10	177.96	177.96	
11	177.95	178.10	178.07	178.87	179.57	180.23	178.83	178.65	178.16	178.47	177.96	177.98	
12	177.97	178.05	178.05	178.62	179.51	180.00	178.87	178.56	178.16	178.41	177.98	177.98	
13	177.96	178.01	178.07	178.47	179.24	179.90	178.93	178.53	178.16	178.22	177.97	177.98	
14	177.95	178.01	178.10	179.75	179.42	179.69	178.81	178.48	178.14	178.17	177.96	177.96	
15	177.97	177.96	178.61	179.76	180.36	179.66	178.73	178.46	178.14	178.14	177.96	177.96	
16	177.95	178.02	178.37	179.11	179.75	179.83	178.66	178.44	178.13	178.12	177.95	177.95	
17	177.97	178.02	178.26	178.78	180.14	179.86	178.63	178.43	178.13	178.10	177.95	177.92	
18	177.95	178.01	178.20	179.59	179.78	180.26	178.60	178.42	178.12	178.09	177.94	177.90	
19	177.94	178.06	178.20	179.34	180.60	179.89	178.59	178.42	178.10	178.08	177.94	177.89	
20	177.94	178.19	178.22	180.77	180.52	179.97	178.56	178.42	178.10	178.06	177.93	177.89	
21	177.93	178.06	178.18	180.29	181.40	179.63	178.54	178.40	178.10	178.05	177.93	177.90	
22	177.94	178.02	178.11	179.88	181.23	179.83	178.54	178.37	178.10	178.04	177.93	177.90	
23	177.94	177.99	178.08	179.90	180.37	180.20	178.68	178.32	178.10	178.03	177.92	177.90	
24	177.95	177.96	178.06	179.69	179.94	180.20	178.88	178.31	178.10	178.03	177.92	177.90	
25	177.93	177.95	178.23	179.72	179.93	180.69	178.82	178.30	178.09	178.02	177.91	177.95	
26	177.93	177.97	178.15	180.05	179.93	180.36	178.71	178.25	178.09	178.02	177.91	177.97	
27	177.97	178.04	178.13	180.97	179.95	179.95	178.61	178.25	178.09	178.02	177.90	177.99	
28	178.00	177.96	178.08	181.82	179.68	179.72	178.57	178.25	178.09	178.02	177.91	177.99	
29	178.06	177.98	178.04	180.68	179.69	179.58	178.53	178.24	178.09	178.02		177.96	
30	178.20	178.15	178.04	179.85	183.51	180.16	178.49	178.23	178.08	178.02		177.94	
31		178.23		180.06	182.84		178.49		178.08	178.02		177.93	
Mean	177.96	178.12	178.11	179.44	180.31	180.62	178.86	178.50	178.14	178.09	177.95	177.93	
Max	178.20	178.73	178.61	181.82	183.51	182.91	179.72	179.36	178.22	178.47	178.00	177.99	183.51
Min	177.91	177.95	177.94	178.05	179.24	179.58	178.49	178.23	178.08	178.02	177.90	177.87	177.87

Annual Max Momentary Gage Height	183.83	m. (MSL.) ,	at 22.00 Hours , on Aug 30 , 2014		
Zero Gage at Bottom Elevation	177.40	m. (MSL.) ,	River Bed	174.57	m. (MSL.)
Left Bank Elevation	190.27	m. (MSL.) ,			
Right Bank Elevation	192.59	m. (MSL.) ,	Drainage Area	8706	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	34.00	61.00	40.00	71.00	304.00	836.08	304.00	129.00	79.00	52.00	40.00	31.00		
2	32.00	49.00	59.00	71.00	256.50	779.92	286.50	129.00	77.00	50.50	40.00	31.00		
3	32.00	71.00	50.50	49.00	378.00	1120.09	256.50	125.00	77.00	49.00	40.00	31.00		
4	31.00	125.00	39.00	52.00	358.00	963.05	231.00	162.00	77.00	49.00	39.00	32.00		
5	33.00	73.00	35.00	49.00	472.50	969.75	222.00	154.00	77.00	47.50	38.00	32.00		
6	32.00	52.00	35.00	47.50	537.50	906.10	244.50	151.00	75.00	47.50	37.00	34.00		
7	32.00	99.00	34.00	50.50	730.00	1224.19	222.00	178.00	75.00	46.00	37.00	34.00		
8	39.00	163.00	40.00	384.00	465.00	783.04	196.50	249.00	71.00	44.50	36.00	34.00		
9	38.00	151.00	46.00	350.00	354.00	627.50	181.50	192.00	69.00	46.00	36.00	27.00		
10	36.00	103.00	41.50	314.00	302.00	492.50	177.00	165.00	67.00	55.00	36.00	36.00		
11	35.00	55.00	50.50	177.00	280.50	406.00	173.00	155.00	67.00	129.00	36.00	38.00		
12	37.00	47.50	47.50	152.00	271.50	360.00	177.00	144.00	67.00	117.00	38.00	38.00		
13	36.00	41.50	50.50	129.00	231.00	340.00	184.50	139.50	67.00	79.00	37.00	38.00		
14	35.00	41.50	55.00	310.00	258.00	298.50	171.00	131.00	63.00	69.00	36.00	36.00		
15	37.00	36.00	151.00	312.00	432.00	294.00	163.00	127.00	63.00	63.00	36.00	36.00		
16	35.00	43.00	109.00	211.50	310.00	326.00	156.00	123.00	61.00	59.00	35.00	35.00		
17	37.00	43.00	87.00	168.00	388.00	332.00	153.00	121.00	61.00	55.00	35.00	32.00		
18	35.00	41.50	75.00	283.50	316.00	412.00	150.00	119.00	59.00	53.50	34.00	30.00		
19	34.00	49.00	75.00	246.00	490.00	338.00	148.50	119.00	55.00	52.00	34.00	29.00		
20	34.00	73.00	79.00	532.50	470.00	354.00	144.00	119.00	55.00	49.00	33.00	29.00		
21	33.00	49.00	71.00	418.00	700.00	289.50	141.00	115.00	55.00	47.50	33.00	30.00		
22	34.00	43.00	57.00	336.00	649.00	326.00	141.00	109.00	55.00	46.00	33.00	30.00		
23	34.00	39.00	52.00	340.00	434.00	400.00	158.00	99.00	55.00	44.50	32.00	30.00		
24	35.00	36.00	49.00	298.50	348.00	400.00	178.00	97.00	55.00	44.50	32.00	30.00		
25	33.00	35.00	81.00	304.00	346.00	512.50	172.00	95.00	53.50	43.00	31.00	35.00		
26	33.00	37.00	65.00	370.00	346.00	432.00	161.00	85.00	53.50	43.00	31.00	37.00		
27	37.00	46.00	61.00	582.50	350.00	350.00	151.00	85.00	53.50	43.00	30.00	39.00		
28	40.00	36.00	52.00	829.84	297.00	304.00	145.50	85.00	53.50	43.00	31.00	39.00		
29	49.00	38.00	46.00	510.00	298.50	282.00	139.50	83.00	53.50	43.00		36.00		
30	75.00	65.00	46.00	330.00	1464.41	392.00	133.00	81.00	52.00	43.00		34.00		
31		81.00		372.00	1196.17		133.00		52.00	43.00		33.00		
Total	1097.00	1923.00	1779.50	8650.34	14033.58	15850.72	5594.50	3865.50	1953.50	1696.00	986.00	1036.00	58465.64	CMSDAY
Mean	36.57	62.03	59.32	279.04	452.70	528.36	180.47	128.85	63.02	54.71	35.21	33.42	160.18	CMS
Max	75.00	163.00	151.00	829.84	1464.41	1224.19	304.00	249.00	79.00	129.00	40.00	39.00	1464.41	CMS
Min	31.00	35.00	34.00	47.50	231.00	282.00	133.00	81.00	52.00	43.00	30.00	27.00	27.00	CMS
Runoff	94.78	166.15	153.75	747.39	1212.50	1369.50	483.37	333.98	168.78	146.53	85.19	89.51	5051.43	MCM

Momentary Peak 1592.54 CMS. at 183.83 m. (MSL.) at 22.00 Hours , on Aug 30 , 2014

Runoff Yield 18.40 Liters/Second/Square KM. Momentary Peak Yield 182.924 Liters/Second/Square KM.

WATER YEAR : 2014

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	Staff gage.
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank in front of automatic gage building. **Elevation** +32.155 m. (MSL.)
Gage Reading Frequency	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	1971 to date
Rating Operation	
Period of Rating	1973 - 1979, 1991 to date
Rated by Flot	-
Rated by Current Meter	1972 - 1980, 1991 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records good. Flow effected by Naresuan Dam.
	Stage-discharge relation defined by 38 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

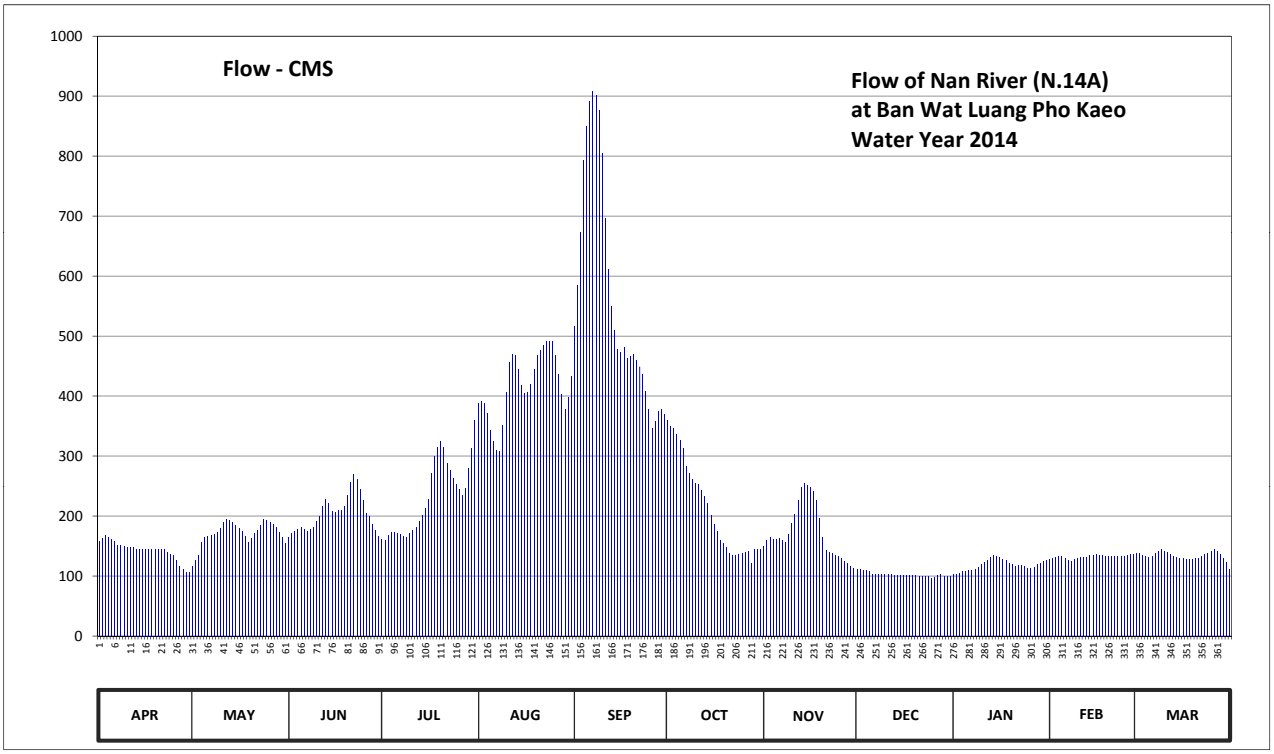
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.22	20.52	21.32	21.26	23.97	24.99	24.68	22.10	20.68	20.29	20.70	20.87	
2	21.29	20.69	21.44	21.23	24.00	25.46	24.60	22.27	20.61	20.29	20.75	20.88	
3	21.37	20.81	21.50	21.37	23.97	26.05	24.57	22.35	20.51	20.32	20.78	20.82	
4	21.32	21.18	21.54	21.47	23.81	26.81	24.48	22.31	20.42	20.37	20.80	20.79	
5	21.26	21.32	21.58	21.47	23.53	27.15	24.37	22.31	20.37	20.37	20.80	20.76	
6	21.20	21.35	21.53	21.43	23.34	27.38	24.24	22.33	20.30	20.40	20.74	20.79	
7	21.11	21.37	21.50	21.40	23.20	27.48	23.94	22.27	20.30	20.40	20.69	20.87	
8	21.11	21.42	21.53	21.35	23.18	27.44	23.80	22.23	20.30	20.43	20.66	20.93	
9	21.08	21.47	21.60	21.32	23.62	27.30	23.70	22.44	20.30	20.50	20.70	21.00	
10	21.05	21.56	21.74	21.43	24.12	27.03	23.61	22.74	20.30	20.58	20.74	20.94	
11	21.05	21.70	21.85	21.52	24.53	26.61	23.58	22.96	20.30	20.63	20.78	20.90	
12	21.04	21.79	22.08	21.60	24.63	26.24	23.46	23.25	20.30	20.68	20.78	20.84	
13	21.00	21.75	22.26	21.74	24.61	25.93	23.33	23.52	20.28	20.77	20.78	20.80	
14	21.00	21.70	22.15	21.86	24.43	25.71	23.18	23.60	20.28	20.82	20.81	20.77	
15	21.00	21.63	21.97	22.05	24.23	25.52	22.93	23.56	20.28	20.80	20.83	20.75	
16	21.00	21.57	21.94	22.26	24.11	25.49	22.72	23.52	20.28	20.76	20.84	20.75	
17	21.00	21.49	22.00	22.76	24.13	25.55	22.52	23.44	20.28	20.72	20.82	20.72	
18	21.00	21.36	22.00	23.08	24.24	25.43	22.27	23.25	20.28	20.67	20.82	20.72	
19	21.00	21.18	22.08	23.24	24.44	25.45	22.19	22.85	20.28	20.61	20.80	20.72	
20	21.00	21.29	22.35	23.34	24.61	25.47	22.07	22.37	20.28	20.57	20.80	20.75	
21	21.00	21.44	22.61	23.25	24.68	25.41	21.85	21.96	20.25	20.52	20.80	20.75	
22	20.98	21.52	22.75	22.96	24.74	25.34	21.73	21.87	20.25	20.55	20.80	20.79	
23	20.91	21.63	22.65	22.82	24.80	25.26	21.77	21.83	20.25	20.55	20.80	20.84	
24	20.86	21.78	22.46	22.67	24.80	25.06	21.80	21.77	20.25	20.53	20.80	20.88	
25	20.82	21.75	22.23	22.57	24.79	24.84	21.86	21.68	20.18	20.47	20.80	20.95	
26	20.69	21.70	21.92	22.46	24.61	24.57	21.88	21.56	20.20	20.45	20.82	20.99	
27	20.53	21.65	21.84	22.35	24.37	24.67	21.93	21.43	20.27	20.48	20.85	20.93	
28	20.43	21.60	21.66	22.48	24.10	24.80	21.32	21.28	20.30	20.56	20.85	20.84	
29	20.36	21.47	21.52	22.86	23.88	24.84	22.00	21.04	20.25	20.60		20.75	
30	20.34	21.32	21.36	23.23	24.06	24.76	22.00	20.80	20.24	20.65		20.62	
31		21.17		23.70	24.35		22.00		20.23	20.67		20.43	
Mean	20.97	21.43	21.90	22.21	24.19	25.80	22.92	22.36	20.31	20.55	20.78	20.81	
Max	21.37	21.79	22.75	23.70	24.80	27.48	24.68	23.60	20.68	20.82	20.85	21.00	27.48
Min	20.34	20.52	21.32	21.23	23.18	24.57	21.32	20.80	20.18	20.29	20.66	20.43	20.18

Annual Max Momentary Gage Height 27.48 m. (MSL.) , at 06.00 Hours , on Sep 7 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 15.85 m. (MSL.)

Left Bank Elevation 29.84 m. (MSL.) ,

Right Bank Elevation 32.10 m. (MSL.) , Drainage Area 32826 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	158.20	116.20	164.20	160.60	388.70	516.70	359.60	150.00	111.80	102.40	127.00	137.20		
2	162.40	126.40	171.40	158.80	392.00	584.00	350.00	159.20	111.10	102.40	130.00	137.80		
3	167.20	133.60	175.00	167.20	388.70	672.50	346.70	164.00	110.10	104.20	131.80	134.20		
4	164.20	155.80	177.80	173.20	371.10	792.60	337.00	161.60	110.20	107.20	133.00	132.40		
5	160.60	164.20	180.60	173.20	343.00	849.50	326.00	161.60	107.20	107.20	133.00	130.60		
6	157.00	166.00	177.10	170.80	324.00	890.40	313.00	162.80	103.00	109.00	129.40	132.40		
7	151.60	167.20	175.00	169.00	310.00	908.40	283.60	159.20	103.00	109.00	126.40	137.20		
8	151.60	170.20	177.10	166.00	308.20	901.20	271.00	156.80	103.00	110.80	124.60	140.80		
9	149.80	173.20	182.00	164.20	352.00	876.00	262.00	169.40	103.00	115.00	127.00	145.00		
10	148.00	179.20	191.80	170.80	405.40	805.00	254.80	187.80	103.00	119.80	129.40	141.40		
11	148.00	189.00	199.50	176.40	456.90	696.40	252.40	203.20	103.00	122.80	131.80	139.00		
12	147.40	195.30	215.60	182.00	469.90	610.80	242.80	226.00	103.00	125.80	131.80	135.40		
13	145.00	192.50	228.20	191.80	467.30	549.40	232.40	247.60	101.80	131.20	131.80	133.00		
14	145.00	189.00	220.50	200.20	443.90	509.80	220.40	254.00	101.80	134.20	133.60	131.20		
15	145.00	184.10	207.90	213.50	418.60	477.20	201.10	250.80	101.80	133.00	134.80	130.00		
16	145.00	179.90	205.80	228.20	404.20	472.40	186.40	247.60	101.80	130.60	135.40	130.00		
17	145.00	174.40	210.00	270.40	406.60	482.00	174.20	241.20	101.80	128.20	134.20	128.20		
18	145.00	166.60	210.00	299.20	419.80	462.80	159.20	226.00	101.80	125.20	134.20	128.20		
19	145.00	155.80	215.60	314.00	445.20	466.00	154.50	195.50	101.80	121.60	133.00	128.20		
20	145.00	162.40	235.00	324.00	467.30	469.20	148.50	165.20	101.80	119.20	133.00	130.00		
21	145.00	171.40	256.90	315.00	476.40	459.60	138.00	143.00	100.00	116.20	133.00	130.00		
22	143.80	176.40	269.50	288.40	484.20	449.00	133.90	138.80	100.00	118.00	133.00	132.40		
23	139.60	184.10	260.50	275.80	492.00	437.00	135.10	137.20	100.00	118.00	133.00	135.40		
24	136.60	194.60	243.80	262.30	492.00	408.40	136.00	135.10	100.00	116.80	133.00	137.80		
25	134.20	192.50	226.10	253.30	490.70	378.80	138.40	132.40	95.80	113.20	133.00	142.00		
26	126.40	189.00	204.40	243.80	467.30	346.70	139.20	128.80	97.00	112.00	134.20	144.40		
27	116.80	185.50	198.80	235.00	436.10	358.40	141.50	124.90	101.20	113.80	136.00	140.80		
28	110.80	182.00	186.20	245.40	403.00	374.00	121.60	120.60	103.00	118.60	136.00	135.40		
29	106.60	173.20	176.40	279.40	378.80	378.80	145.00	115.80	100.00	121.00		130.00		
30	105.40	164.20	166.60	313.00	398.60	369.20	145.00	113.00	99.40	124.00		122.20		
31		155.20		360.00	433.50		145.00		98.80	125.20		110.80		
Total	4291.20	5309.10	6109.30	7144.90	12935.40	16952.20	6594.30	5179.10	3181.00	3655.60	3696.40	4143.40	79191.91	CMSDAY
Mean	143.04	171.26	203.64	230.48	417.27	565.07	212.72	172.64	102.61	117.92	132.01	133.66	216.96	CMS
Max	167.20	195.30	269.50	360.00	492.00	908.40	359.60	254.00	111.80	134.20	136.00	145.00	908.40	CMS
Min	105.40	116.20	164.20	158.80	308.20	346.70	121.60	113.00	95.80	102.40	124.60	110.80	95.80	CMS
Runoff	370.76	458.71	527.84	617.32	1117.62	1464.67	569.75	447.47	274.84	315.84	319.37	357.99	6842.18	MCM

Momentary Peak 908.40 CMS. at 27.48 m. (MSL.) at 06.00 Hours , on Sep 7 , 2014

Runoff Yield 6.61 Liters/Second/Square KM. Momentary Peak Yield 27.673 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Khwae Noi River at Ban Tha Ngam , Phitsanulok (N.22A)

Lat 16 - 59 - 33 N Long 100 - 19 - 31 E

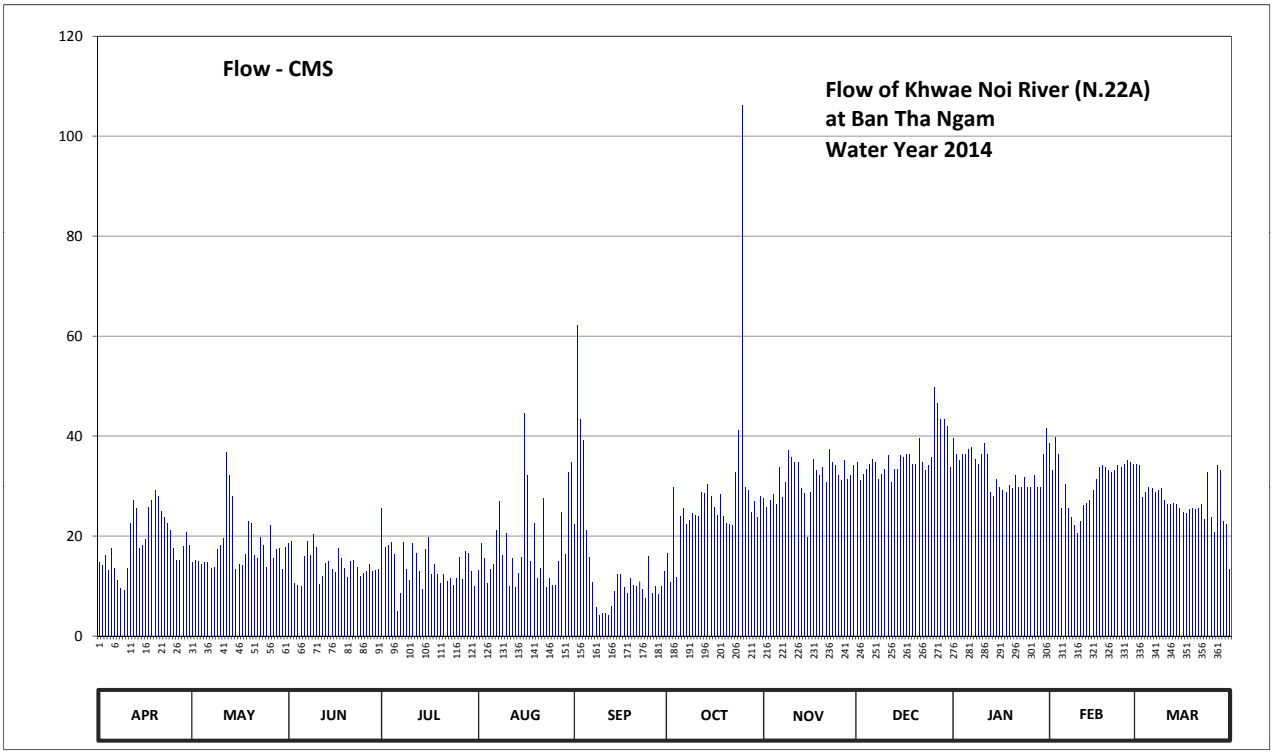
Location : on left bank at Ban Tha Ngam.

	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 Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.25	42.25	42.41	42.68	42.17	42.56	42.33	42.75	42.98	43.12	43.09	42.97	
2	42.22	42.27	42.43	42.38	42.41	43.67	42.04	42.69	42.87	43.03	42.93	42.96	
3	42.31	42.26	42.03	42.40	42.28	43.23	42.83	42.74	42.91	42.99	43.13	42.76	
4	42.17	42.23	42.01	42.42	42.03	43.11	42.10	42.78	42.94	43.03	43.03	42.80	
5	42.37	42.25	42.00	42.32	42.19	42.51	42.62	42.71	42.97	43.03	42.68	42.83	
6	42.20	42.25	42.30	41.66	42.23	42.29	42.68	42.95	43.00	43.06	42.85	42.82	
7	42.06	42.20	42.43	41.91	42.51	42.04	42.56	42.76	42.98	43.07	42.68	42.80	
8	41.97	42.21	42.31	42.42	42.73	41.72	42.59	42.86	42.88	43.00	42.61	42.81	
9	41.94	42.36	42.48	42.19	42.31	41.60	42.64	43.05	42.91	42.97	42.55	42.82	
10	42.20	42.40	42.38	42.06	42.49	41.63	42.63	43.01	42.94	43.03	42.49	42.74	
11	42.57	42.45	42.02	42.41	41.99	41.63	42.62	42.98	43.02	43.09	42.58	42.71	
12	42.74	43.04	42.11	42.33	42.28	41.60	42.80	42.98	42.86	43.03	42.70	42.71	
13	42.68	42.90	42.24	42.16	41.98	41.73	42.79	42.82	42.94	42.80	42.72	42.72	
14	42.37	42.77	42.26	41.96	42.14	41.93	42.85	42.79	42.94	42.77	42.74	42.71	
15	42.40	42.18	42.19	42.36	42.29	42.13	42.77	42.46	43.02	42.88	42.81	42.68	
16	42.44	42.23	42.15	42.46	43.26	42.13	42.69	42.80	43.01	42.83	42.88	42.65	
17	42.69	42.22	42.37	42.13	42.90	41.98	42.63	43.00	43.03	42.81	42.95	42.64	
18	42.74	42.32	42.28	42.23	42.26	41.91	42.78	42.93	43.03	42.80	42.96	42.67	
19	42.81	42.58	42.20	42.13	42.57	42.09	42.62	42.90	42.97	42.84	42.95	42.68	
20	42.77	42.57	42.10	42.03	42.09	42.01	42.57	42.95	42.97	42.82	42.93	42.67	
21	42.66	42.31	42.26	42.13	42.20	41.99	42.56	42.86	43.12	42.90	42.92	42.68	
22	42.61	42.28	42.27	42.05	42.75	42.05	42.55	43.06	42.98	42.83	42.93	42.71	
23	42.57	42.46	42.21	42.08	41.98	41.96	42.92	42.98	42.93	42.83	42.96	42.60	
24	42.51	42.40	42.11	42.01	42.09	41.85	43.17	42.96	42.96	42.89	42.95	42.92	
25	42.37	42.21	42.14	42.08	42.01	42.30	44.46	42.90	43.01	42.83	42.97	42.61	
26	42.27	42.55	42.16	42.29	42.01	41.91	42.83	42.87	43.39	42.83	42.99	42.50	
27	42.27	42.28	42.23	42.07	42.26	42.00	42.81	42.99	43.31	42.90	42.98	42.96	
28	42.39	42.36	42.16	42.34	42.65	41.89	42.65	42.88	43.23	42.83	42.97	42.93	
29	42.50	42.37	42.17	42.33	42.32	41.99	42.73	42.90	43.23	42.83		42.58	
30	42.40	42.19	42.19	42.16	42.92	42.16	42.61	42.96	43.19	43.03		42.56	
31		42.38		42.00	42.98		42.77		42.95	43.18		42.19	
Mean	42.42	42.38	42.22	42.20	42.36	42.12	42.72	42.88	43.02	42.93	42.85	42.72	
Max	42.81	43.04	42.48	42.68	43.26	43.67	44.46	43.06	43.39	43.18	43.13	42.97	44.46
Min	41.94	42.18	42.00	41.66	41.98	41.60	42.04	42.46	42.86	42.77	42.49	42.19	41.60

Annual Max Momentary Gage Height	44.73	m. (MSL.) ,	at 06.00 Hours , on Oct 25 , 2014		
Zero Gage at Bottom Elevation	41.63	m. (MSL.) ,	River Bed	39.29	m. (MSL.)
Left Bank Elevation	52.77	m. (MSL.) ,			
Right Bank Elevation	52.77	m. (MSL.) ,	Drainage Area	4774	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.75	14.75	18.46	25.56	13.06	22.36	16.59	27.45	34.74	39.48	38.46	34.41		
2	14.06	15.21	18.98	17.74	18.46	62.15	10.72	25.83	31.11	36.42	33.09	34.08		
3	16.13	14.98	10.54	18.20	15.44	43.40	29.79	27.18	32.43	35.07	39.82	27.72		
4	13.06	14.29	10.18	18.72	10.54	39.14	11.80	28.26	33.42	36.42	36.42	28.80		
5	17.51	14.75	10.00	16.36	13.42	21.06	23.94	26.37	34.41	36.42	25.56	29.79		
6	13.60	14.75	15.90	4.98	14.29	15.67	25.56	33.75	35.40	37.44	30.45	29.46		
7	11.08	13.60	18.98	8.56	21.06	10.72	22.36	27.72	34.74	37.78	25.56	28.80		
8	9.52	13.83	16.13	18.72	26.91	5.76	23.14	30.78	31.44	35.40	23.67	29.13		
9	9.04	17.28	20.28	13.42	16.13	4.20	24.48	37.10	32.43	34.41	22.10	29.46		
10	13.60	18.20	17.74	11.08	20.54	4.59	24.21	35.74	33.42	36.42	20.54	27.18		
11	22.62	19.50	10.36	18.46	9.84	4.59	23.94	34.74	36.08	38.46	22.88	26.37		
12	27.18	36.76	11.98	16.59	15.44	4.20	28.80	34.74	30.78	36.42	26.10	26.37		
13	25.56	32.10	14.52	12.88	9.68	5.89	28.53	29.46	33.42	28.80	26.64	26.64		
14	17.51	27.99	14.98	9.36	12.52	8.88	30.45	28.53	33.42	27.99	27.18	26.37		
15	18.20	13.24	13.42	17.28	15.67	12.34	27.99	19.76	36.08	31.44	29.13	25.56		
16	19.24	14.29	12.70	19.76	44.60	12.34	25.83	28.80	35.74	29.79	31.44	24.75		
17	25.83	14.06	17.51	12.34	32.10	9.68	24.21	35.40	36.42	29.13	33.75	24.48		
18	27.18	16.36	15.44	14.29	14.98	8.56	28.26	33.09	36.42	28.80	34.08	25.29		
19	29.13	22.88	13.60	12.34	22.62	11.62	23.94	32.10	34.41	30.12	33.75	25.56		
20	27.99	22.62	11.80	10.54	11.62	10.18	22.62	33.75	34.41	29.46	33.09	25.29		
21	25.02	16.13	14.98	12.34	13.60	9.84	22.36	30.78	39.48	32.10	32.76	25.56		
22	23.67	15.44	15.21	10.90	27.45	10.90	22.10	37.44	34.74	29.79	33.09	26.37		
23	22.62	19.76	13.83	11.44	9.68	9.36	32.76	34.74	33.09	29.79	34.08	23.40		
24	21.06	18.20	11.98	10.18	11.62	7.60	41.18	34.08	34.08	31.77	33.75	32.76		
25	17.51	13.83	12.52	11.44	10.18	15.90	106.12	32.10	35.74	29.79	34.41	23.67		
26	15.21	22.10	12.88	15.67	10.18	8.56	29.79	31.11	49.80	29.79	35.07	20.80		
27	15.21	15.44	14.29	11.26	14.98	10.00	29.13	35.07	46.60	32.10	34.74	34.08		
28	17.97	17.28	12.88	16.82	24.75	8.24	24.75	31.44	43.40	29.79	34.41	33.09		
29	20.80	17.51	13.06	16.59	16.36	9.84	26.91	32.10	43.40	29.79		22.88		
30	18.20	13.42	13.42	12.88	32.76	12.88	23.67	34.08	41.86	36.42		22.36		
31		17.74		10.00	34.74		27.99		33.75	41.52		13.42		
Total	570.06	558.29	428.55	436.70	565.22	420.45	863.92	943.49	1116.66	1028.32	866.02	833.90	8631.58	CMSDAY
Mean	19.00	18.01	14.29	14.09	18.23	14.01	27.87	31.45	36.02	33.17	30.93	26.90	23.65	CMS
Max	29.13	36.76	20.28	25.56	44.60	62.15	106.12	37.44	49.80	41.52	39.82	34.41	106.12	CMS
Min	9.04	13.24	10.00	4.98	9.68	4.20	10.72	19.76	30.78	27.99	20.54	13.42	4.20	CMS
Runoff	49.25	48.24	37.03	37.73	48.84	36.33	74.64	81.52	96.48	88.85	74.82	72.05	745.77	MCM

Momentary Peak 125.95 CMS. at 44.73 m. (MSL.) at 06.00 Hours , on Oct 25 , 2014

Runoff Yield 4.95 Liters/Second/Square KM. Momentary Peak Yield 26.382 Liters/Second/Square KM.

WATER YEAR : 2014

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.

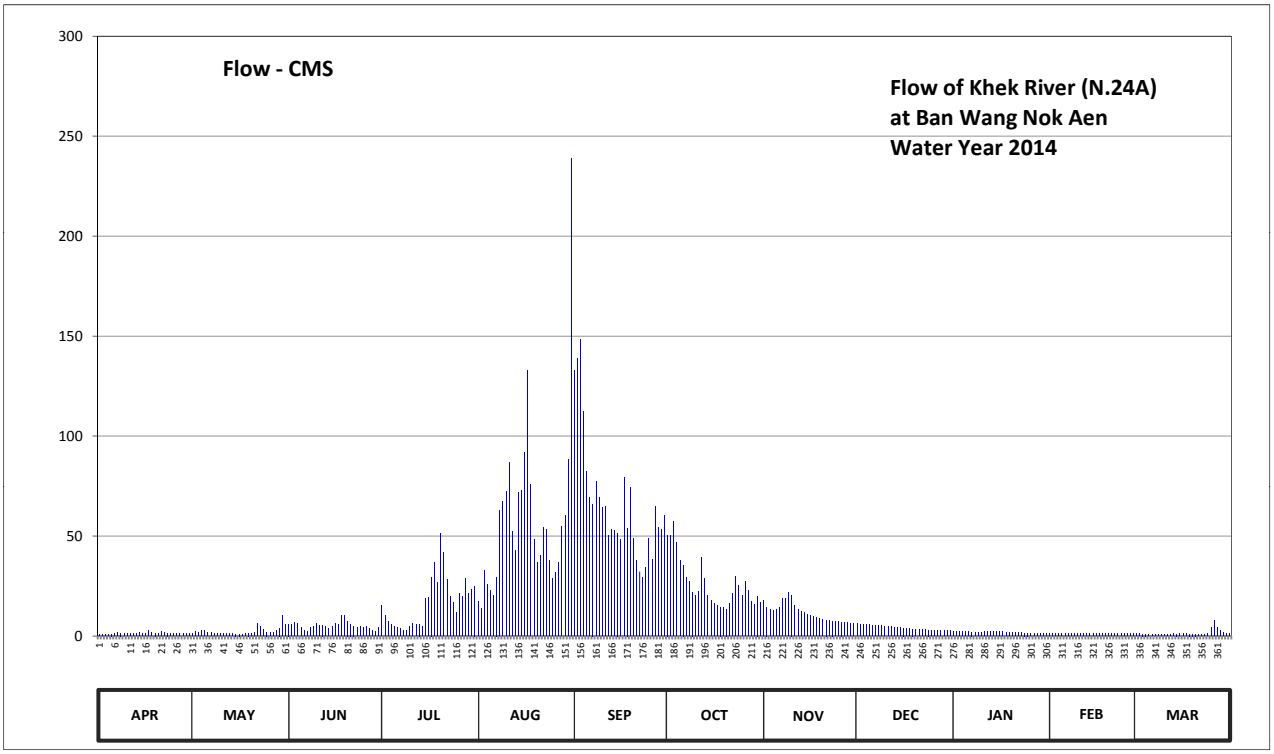
Ban Wang Nok Aen **Amphoe** Wang Thong **Changwat** Phitsanulok

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 Flot	-
Rated by Current Meter	1965 - 1974 , 1980 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.61	41.73	42.22	43.14	43.30	48.84	45.50	43.37	42.24	41.87	41.69	41.67	
2	41.62	41.84	42.21	42.65	42.99	48.98	45.49	43.07	42.21	41.86	41.69	41.66	
3	41.62	41.80	42.29	42.33	44.45	49.19	45.87	42.95	42.20	41.85	41.69	41.65	
4	41.61	41.90	42.26	42.21	43.94	48.24	45.29	42.88	42.19	41.84	41.68	41.64	
5	41.65	41.89	42.04	42.11	43.74	47.11	44.75	42.94	42.18	41.83	41.68	41.63	
6	41.71	41.80	41.90	42.04	43.56	46.47	44.62	43.05	42.16	41.83	41.68	41.63	
7	41.77	41.81	41.85	42.01	44.21	46.30	44.20	43.45	42.15	41.82	41.67	41.62	
8	41.74	41.73	42.03	41.90	46.15	46.87	44.04	43.45	42.14	41.81	41.67	41.62	
9	41.73	41.71	42.10	41.89	46.36	46.47	43.67	43.65	42.13	41.80	41.67	41.61	
10	41.71	41.72	42.23	42.11	46.62	46.21	43.54	43.57	42.11	41.79	41.67	41.61	
11	41.70	41.71	42.15	42.26	47.31	46.24	43.70	43.14	42.10	41.84	41.67	41.61	
12	41.67	41.70	42.17	42.18	45.59	45.49	44.84	42.95	42.08	41.84	41.67	41.60	
13	41.66	41.69	42.09	42.22	45.07	45.66	44.16	42.87	42.07	41.84	41.66	41.66	
14	41.77	41.67	42.00	42.08	46.59	45.62	43.56	42.80	42.05	41.84	41.66	41.65	
15	41.72	41.65	42.09	43.45	46.64	45.55	43.35	42.70	42.04	41.85	41.68	41.67	
16	41.70	41.64	42.24	43.49	47.51	45.37	43.22	42.64	42.02	41.85	41.68	41.67	
17	41.89	41.63	42.21	44.21	48.84	46.97	43.14	42.58	42.00	41.83	41.68	41.66	
18	41.78	41.67	42.65	44.69	46.80	45.69	43.07	42.55	41.99	41.81	41.67	41.65	
19	41.74	41.74	42.63	44.02	45.36	46.71	43.03	42.49	41.97	41.80	41.69	41.65	
20	41.70	41.72	42.37	45.53	44.70	45.40	42.97	42.46	41.96	41.79	41.69	41.64	
21	41.85	41.78	42.22	45.00	44.91	44.76	43.23	42.42	41.95	41.78	41.69	41.63	
22	41.80	42.26	42.12	44.13	45.71	44.40	43.62	42.40	41.94	41.76	41.68	41.63	
23	41.74	42.11	42.07	43.52	45.65	44.19	44.23	42.37	41.93	41.75	41.67	41.62	
24	41.71	41.93	42.09	43.28	44.75	44.55	43.90	42.35	41.92	41.74	41.66	41.66	
25	41.72	41.82	42.07	42.79	44.17	45.39	43.54	42.34	41.91	41.74	41.66	42.04	
26	41.70	41.77	42.08	43.61	44.37	44.80	44.05	42.32	41.91	41.73	41.68	42.38	
27	41.69	41.76	41.98	43.51	44.71	46.24	43.73	42.29	41.90	41.72	41.67	42.07	
28	41.72	41.88	41.90	44.16	45.73	45.70	43.30	42.28	41.90	41.72	41.67	41.88	
29	41.72	42.02	41.87	43.61	46.02	45.65	43.19	42.26	41.89	41.71		41.77	
30	41.71	42.65	42.05	43.76	47.37	46.01	43.53	42.25	41.89	41.70		41.73	
31		42.21		43.89	50.04		43.27		41.88	41.70		41.70	
Mean	41.72	41.84	42.14	43.15	45.59	46.17	43.92	42.76	42.03	41.79	41.68	41.71	
Max	41.89	42.65	42.65	45.53	50.04	49.19	45.87	43.65	42.24	41.87	41.69	42.38	50.04
Min	41.61	41.63	41.85	41.89	42.99	44.19	42.97	42.25	41.88	41.70	41.66	41.60	41.60

Annual Max Momentary Gage Height	50.43	m. (MSL.) ,	at 12.00 Hours , on Aug 31 , 2014		
Zero Gage at Bottom Elevation	40.71	m. (MSL.) ,	River Bed	41.03	m. (MSL.)
Left Bank Elevation	54.52	m. (MSL.) ,			
Right Bank Elevation	52.46	m. (MSL.) ,	Drainage Area	1838	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.85	1.45	6.00	15.34	17.10	132.96	50.60	17.87	6.20	2.50	1.25	1.15		
2	0.90	2.20	5.90	10.30	13.70	139.12	50.42	14.57	5.90	2.40	1.25	1.10		
3	0.90	1.80	6.70	7.10	32.95	148.55	57.40	13.30	5.80	2.30	1.25	1.05		
4	0.85	2.80	6.40	5.90	25.76	112.24	46.82	12.60	5.70	2.20	1.20	1.00		
5	1.05	2.70	4.20	4.90	22.96	82.42	37.60	13.20	5.60	2.10	1.20	0.95		
6	1.35	1.80	2.80	4.20	20.44	69.40	35.52	14.35	5.40	2.10	1.20	0.95		
7	1.65	1.90	2.30	3.90	29.54	66.00	29.40	18.90	5.30	2.00	1.15	0.90		
8	1.50	1.45	4.10	2.80	63.00	77.40	27.16	18.90	5.20	1.90	1.15	0.90		
9	1.45	1.35	4.80	2.70	67.20	69.40	21.98	21.70	5.10	1.80	1.15	0.85		
10	1.35	1.40	6.10	4.90	72.40	64.20	20.16	20.58	4.90	1.75	1.15	0.85		
11	1.30	1.35	5.30	6.40	87.04	64.80	22.40	15.34	4.80	2.20	1.15	0.85		
12	1.15	1.30	5.50	5.60	52.22	50.42	39.08	13.30	4.60	2.20	1.15	0.80		
13	1.10	1.25	4.70	6.00	42.99	53.48	28.84	12.50	4.50	2.20	1.10	1.10		
14	1.65	1.15	3.80	4.60	71.80	52.76	20.44	11.80	4.30	2.20	1.10	1.05		
15	1.40	1.05	4.70	18.90	72.80	51.50	17.65	10.80	4.20	2.30	1.20	1.15		
16	1.30	1.00	6.20	19.46	91.84	48.26	16.22	10.20	4.00	2.30	1.20	1.15		
17	2.70	0.95	5.90	29.54	132.96	79.40	15.34	9.60	3.80	2.10	1.20	1.10		
18	1.70	1.15	10.30	36.64	76.00	54.02	14.57	9.30	3.70	1.90	1.15	1.05		
19	1.50	1.50	10.10	26.88	48.08	74.20	14.13	8.70	3.50	1.80	1.25	1.05		
20	1.30	1.40	7.50	51.14	36.80	48.80	13.50	8.40	3.40	1.75	1.25	1.00		
21	2.30	1.70	6.00	41.80	40.27	37.76	16.33	8.00	3.30	1.70	1.25	0.95		
22	1.80	6.40	5.00	28.42	54.38	32.20	21.28	7.80	3.20	1.60	1.20	0.95		
23	1.50	4.90	4.50	19.88	53.30	29.26	29.82	7.50	3.10	1.55	1.15	0.90		
24	1.35	3.10	4.70	16.88	37.60	34.45	25.20	7.30	3.00	1.50	1.10	1.10		
25	1.40	2.00	4.50	11.70	28.98	48.62	20.16	7.20	2.90	1.50	1.10	4.20		
26	1.30	1.65	4.60	21.14	31.78	38.40	27.30	7.00	2.90	1.45	1.20	7.60		
27	1.25	1.60	3.60	19.74	36.96	64.80	22.82	6.70	2.80	1.40	1.15	4.50		
28	1.40	2.60	2.80	28.84	54.74	54.20	17.10	6.60	2.80	1.40	1.15	2.60		
29	1.40	4.00	2.50	21.14	60.40	53.30	15.89	6.40	2.70	1.35		1.65		
30	1.35	10.30	4.30	23.24	88.48	60.20	20.02	6.30	2.70	1.30		1.45		
31		5.90		25.06	238.76		16.77		2.60	1.30		1.30		
Total	42.00	75.10	155.80	525.04	1803.23	1992.52	811.92	346.71	127.90	58.05	33.00	47.20	6018.47	CMSDAY
Mean	1.40	2.42	5.19	16.94	58.17	66.42	26.19	11.56	4.13	1.87	1.18	1.52	16.49	CMS
Max	2.70	10.30	10.30	51.14	238.76	148.55	57.40	21.70	6.20	2.50	1.25	7.60	238.76	CMS
Min	0.85	0.95	2.30	2.70	13.70	29.26	13.50	6.30	2.60	1.30	1.10	0.80	0.80	CMS
Runoff	3.63	6.49	13.46	45.36	155.80	172.15	70.15	29.96	11.05	5.02	2.85	4.08	520.00	MCM

Momentary Peak 242.15 CMS. at 50.43 m. (MSL.) at 12.00 Hours , on Aug 31 , 2014

Runoff Yield 8.97 Liters/Second/Square KM. Momentary Peak Yield 131.746 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 31 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

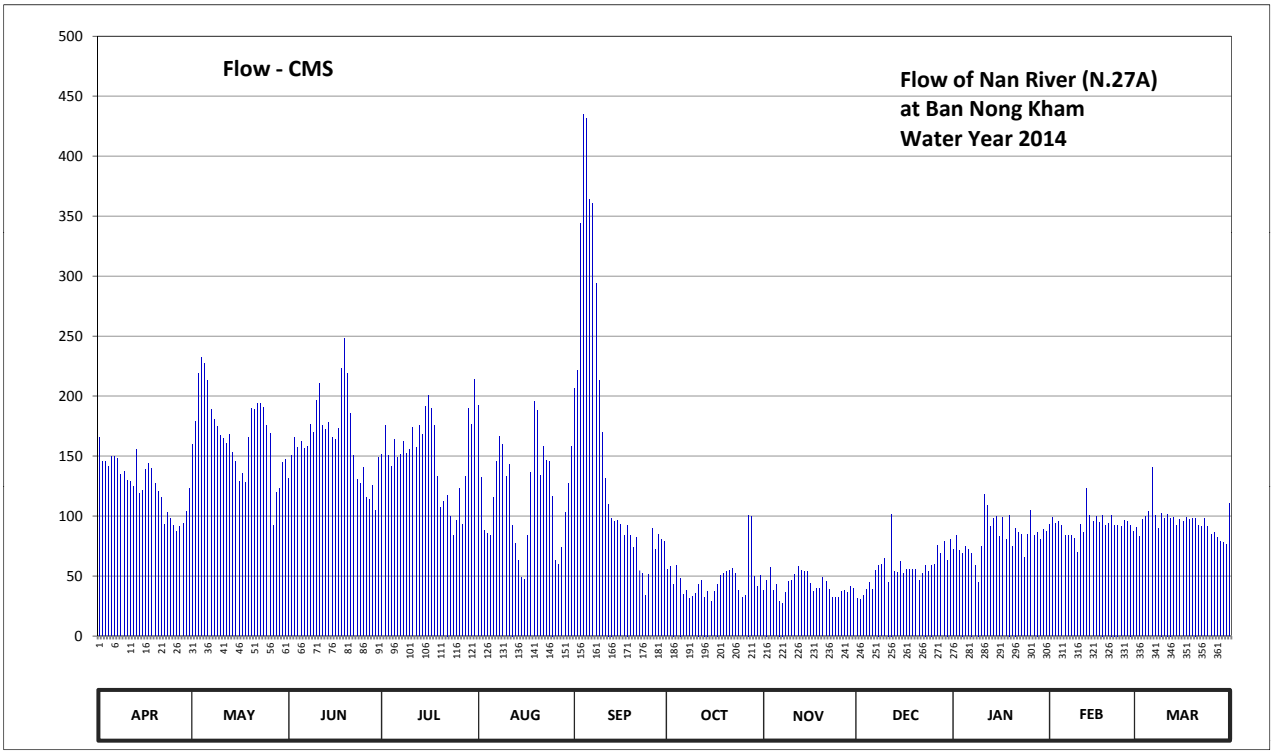
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.45	40.37	40.01	40.27	40.77	40.93	38.89	38.58	38.46	39.16	39.48	39.44	
2	40.20	40.61	40.26	40.57	40.02	41.09	38.93	38.73	38.44	39.34	39.57	39.32	
3	40.19	41.07	40.44	40.26	39.40	42.32	38.67	38.92	38.50	39.14	39.49	39.54	
4	40.14	41.21	40.34	40.14	39.36	43.14	38.94	38.58	38.59	39.11	39.51	39.58	
5	40.25	41.16	40.40	40.42	39.34	43.11	38.76	38.66	38.69	39.19	39.46	39.64	
6	40.25	41.00	40.33	40.24	39.79	42.50	38.52	38.42	38.59	39.16	39.34	40.13	
7	40.23	40.73	40.35	40.27	40.20	42.47	38.58	38.39	38.87	39.11	39.33	39.59	
8	40.05	40.63	40.58	40.40	40.46	41.84	38.46	38.54	38.95	38.94	39.33	39.42	
9	40.08	40.56	40.50	40.28	40.37	41.00	38.49	38.71	38.96	38.70	39.30	39.62	
10	39.98	40.47	40.82	40.32	40.03	40.50	38.53	38.72	39.04	39.20	39.12	39.55	
11	39.97	40.43	40.97	40.55	40.16	40.01	38.67	38.81	38.70	39.83	39.48	39.61	
12	39.91	40.38	40.57	40.34	39.47	39.72	38.72	38.93	39.61	39.70	39.37	39.56	
13	40.32	40.48	40.53	40.57	39.23	39.56	38.48	38.87	38.85	39.45	39.89	39.57	
14	39.84	40.29	40.60	40.48	39.01	39.51	38.57	38.86	38.84	39.55	39.59	39.46	
15	39.87	40.20	40.44	40.76	38.77	39.53	38.41	38.85	39.00	39.58	39.51	39.54	
16	40.11	39.97	40.42	40.86	38.74	39.48	38.56	38.68	38.82	39.32	39.58	39.52	
17	40.17	40.06	40.54	40.74	39.34	39.33	38.67	38.56	38.89	39.57	39.50	39.57	
18	40.12	39.96	41.11	40.57	40.07	39.47	38.79	38.60	38.88	39.28	39.60	39.54	
19	39.95	40.45	41.38	40.03	40.81	39.34	38.83	38.60	38.88	39.60	39.46	39.55	
20	39.86	40.74	41.07	39.68	40.72	39.18	38.86	38.77	38.88	39.20	39.49	39.56	
21	39.79	40.73	40.69	39.75	40.04	39.31	38.87	38.71	38.72	39.43	39.60	39.46	
22	39.48	40.79	40.26	39.82	40.35	38.87	38.90	38.59	38.83	39.37	39.47	39.45	
23	39.63	40.79	40.00	39.58	40.21	38.82	38.83	38.47	38.95	39.35	39.47	39.55	
24	39.55	40.75	39.95	39.34	40.19	38.50	38.58	38.47	38.85	39.05	39.45	39.45	
25	39.46	40.57	40.13	39.53	39.81	38.81	38.47	38.47	38.95	39.35	39.53	39.35	
26	39.39	40.49	39.79	39.89	39.01	39.42	38.50	38.56	38.96	39.65	39.51	39.37	
27	39.45	39.46	39.77	39.48	38.96	39.16	39.60	38.58	39.21	39.34	39.47	39.31	
28	39.49	39.85	39.93	40.03	39.18	39.35	39.58	38.54	39.10	39.38	39.39	39.26	
29	39.64	39.89	39.65	40.74	39.63	39.28	38.78	38.63	39.26	39.29		39.25	
30	39.89	40.18	40.24	40.58	39.95	39.26	38.63	38.60	39.02	39.41		39.22	
31		40.22		41.01	40.35		38.79		39.28	39.39		39.73	
Mean	39.92	40.47	40.40	40.24	39.80	40.16	38.74	38.65	38.89	39.33	39.47	39.51	
Max	40.45	41.21	41.38	41.01	40.81	43.14	39.60	38.93	39.61	39.83	39.89	40.13	43.14
Min	39.39	39.46	39.65	39.34	38.74	38.50	38.41	38.39	38.44	38.70	39.12	39.22	38.39

Annual Max Momentary Gage Height 43.58 m. (MSL.) , at 18.00 Hours , on Sep 4 , 2014

Zero Gage at Bottom Elevation 38.43 m. (MSL.) , River Bed 34.49 m. (MSL.)

Left Bank Elevation 49.59 m. (MSL.) ,

Right Bank Elevation 49.18 m. (MSL.) , Drainage Area 19363 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	166.00	159.60	131.75	151.60	192.45	206.70	55.77	38.20	31.40	72.40	93.20	90.60		
2	146.00	178.85	150.80	175.60	132.50	221.10	58.03	46.70	30.27	84.10	99.05	82.80		
3	145.25	219.30	165.20	150.80	88.00	344.20	43.30	57.47	33.67	71.10	93.85	97.10		
4	141.50	231.95	157.20	141.50	85.40	434.40	58.60	38.20	38.77	69.15	95.15	99.70		
5	150.00	227.40	162.00	163.60	84.10	431.10	48.40	42.73	44.43	74.35	91.90	104.00		
6	150.00	213.00	156.40	149.20	115.25	364.00	34.80	29.13	38.77	72.40	84.10	140.75		
7	148.40	189.05	158.00	151.60	146.00	360.70	38.20	27.55	54.63	69.15	83.45	100.35		
8	134.75	180.55	176.40	162.00	166.80	294.00	31.40	35.93	59.17	58.60	83.45	89.30		
9	137.00	174.80	170.00	152.40	159.60	213.00	33.10	45.57	59.73	45.00	81.50	102.50		
10	129.50	167.60	196.80	155.60	133.25	170.00	35.37	46.13	64.60	75.00	69.80	97.75		
11	128.75	164.40	210.30	174.00	143.00	131.75	43.30	51.23	45.00	118.25	93.20	101.75		
12	124.25	160.40	175.60	157.20	92.55	110.00	46.13	58.03	101.75	108.50	86.05	98.40		
13	155.60	168.40	172.40	175.60	76.95	98.40	32.53	54.63	53.50	91.25	122.75	99.05		
14	119.00	153.20	178.00	168.40	62.65	95.15	37.63	54.07	52.93	97.75	100.35	91.90		
15	121.25	146.00	165.20	191.60	48.97	96.45	28.57	53.50	62.00	99.70	95.15	97.10		
16	139.25	128.75	163.60	200.40	47.27	93.20	37.07	43.87	51.80	82.80	99.70	95.80		
17	143.75	135.50	173.20	189.90	84.10	83.45	43.30	37.07	55.77	99.05	94.50	99.05		
18	140.00	128.00	222.90	175.60	136.25	92.55	50.10	39.33	55.20	80.20	101.00	97.10		
19	127.25	166.00	248.10	133.25	195.90	84.10	52.37	39.33	55.20	101.00	91.90	97.75		
20	120.50	189.90	219.30	107.00	188.20	73.70	54.07	48.97	55.20	75.00	93.85	98.40		
21	115.25	189.05	185.65	112.25	134.00	82.15	54.63	45.57	46.13	89.95	101.00	91.90		
22	93.20	194.15	150.80	117.50	158.00	54.63	56.33	38.77	52.37	86.05	92.55	91.25		
23	103.25	194.15	131.00	99.70	146.80	51.80	52.37	31.97	59.17	84.75	92.55	97.75		
24	97.75	190.75	127.25	84.10	145.25	33.67	38.20	31.97	53.50	65.25	91.25	91.25		
25	91.90	175.60	140.75	96.45	116.75	51.23	31.97	31.97	59.17	84.75	96.45	84.75		
26	87.35	169.20	115.25	122.75	62.65	89.30	33.67	37.07	59.73	104.75	95.15	86.05		
27	91.25	91.90	113.75	93.20	59.73	72.40	101.00	38.20	75.65	84.10	92.55	82.15		
28	93.85	119.75	125.75	133.25	73.70	84.75	99.70	35.93	68.50	86.70	87.35	78.90		
29	104.00	122.75	104.75	189.90	103.25	80.20	49.53	41.03	78.90	80.85		78.25		
30	122.75	144.50	149.20	176.40	127.25	78.90	41.03	39.33	63.30	88.65		76.30		
31		147.60		213.90	158.00		50.10		80.20	87.35		110.75		
Total	3768.55	5222.05	4897.30	4666.25	3664.57	4676.98	1470.57	1259.45	1740.41	2587.90	2602.75	2950.45	39507.23	CMSDAY
Mean	125.62	168.45	163.24	150.52	118.21	155.90	47.44	41.98	56.14	83.48	92.96	95.18	108.24	CMS
Max	166.00	231.95	248.10	213.90	195.90	434.40	101.00	58.03	101.75	118.25	122.75	140.75	434.40	CMS
Min	87.35	91.90	104.75	84.10	47.27	33.67	28.57	27.55	30.27	45.00	69.80	76.30	27.55	CMS
Runoff	325.60	451.19	423.13	403.16	316.62	404.09	127.06	108.82	150.37	223.60	224.88	254.92	3413.43	MCM

Momentary Peak 483.70 CMS. at 43.58 m. (MSL.) at 18.00 Hours , on Sep 4 , 2014

Runoff Yield 5.59 Liters/Second/Square KM. Momentary Peak Yield 24.981 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 17 - 35 - 00 N Long 100 - 29 - 30 E

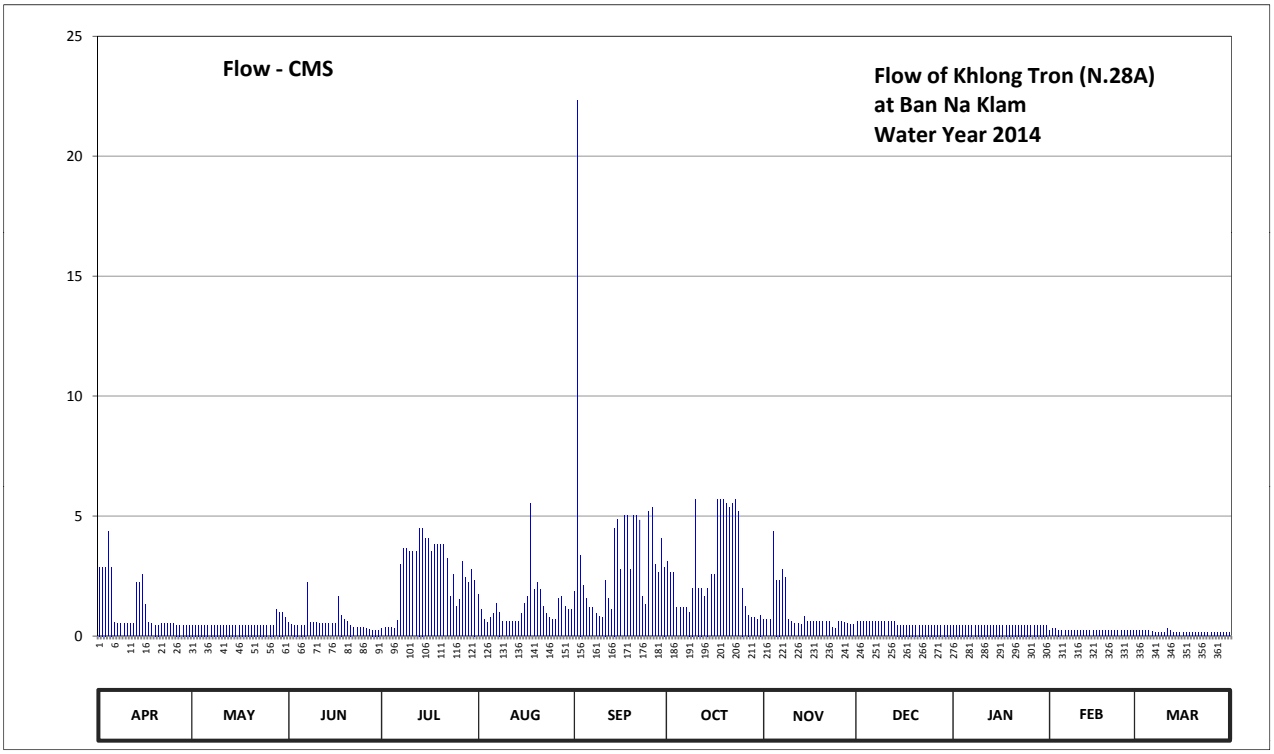
Location : on right bank at Ban Na Klam.

	Ban Na Klam	**Amphoe** Nam Pat	**Changwat** Uttaradit
Drainge Area	368 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+120.274 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+126.015 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.08	121.72	121.75	121.67	121.96	121.98	122.10	121.80	121.77	121.72	121.64	121.64	
2	122.08	121.72	121.73	121.68	121.87	122.82	122.06	121.79	121.77	121.72	121.67	121.64	
3	122.08	121.72	121.72	121.68	121.79	122.12	122.06	121.79	121.77	121.72	121.67	121.64	
4	122.19	121.72	121.72	121.68	121.75	122.01	121.88	122.19	121.77	121.72	121.65	121.64	
5	122.08	121.72	121.72	121.67	121.81	121.94	121.88	122.03	121.77	121.72	121.64	121.64	
6	121.76	121.72	121.72	121.78	121.84	121.88	121.88	122.03	121.77	121.72	121.64	121.63	
7	121.74	121.72	122.02	122.09	121.91	121.88	121.88	122.07	121.77	121.72	121.64	121.62	
8	121.74	121.72	121.75	122.14	121.85	121.84	121.85	122.04	121.77	121.72	121.64	121.61	
9	121.74	121.72	121.75	122.14	121.77	121.82	122.00	121.79	121.77	121.72	121.64	121.61	
10	121.74	121.72	121.75	122.13	121.77	121.81	122.27	121.77	121.77	121.72	121.64	121.61	
11	121.74	121.72	121.74	122.13	121.77	122.03	122.00	121.74	121.77	121.72	121.64	121.67	
12	121.74	121.72	121.74	122.13	121.77	121.94	122.00	121.74	121.77	121.72	121.64	121.64	
13	122.02	121.72	121.74	122.20	121.77	121.87	121.95	121.73	121.77	121.72	121.64	121.62	
14	122.02	121.72	121.74	122.20	121.77	122.20	122.00	121.82	121.72	121.72	121.64	121.62	
15	122.05	121.72	121.74	122.17	121.84	122.22	122.05	121.77	121.72	121.72	121.64	121.62	
16	121.90	121.72	121.74	122.17	121.91	122.07	122.05	121.77	121.72	121.72	121.64	121.62	
17	121.75	121.72	121.95	122.13	121.95	122.23	122.27	121.77	121.72	121.72	121.64	121.62	
18	121.74	121.72	121.83	122.15	122.26	122.23	122.27	121.77	121.72	121.72	121.64	121.62	
19	121.72	121.72	121.79	122.15	121.99	122.07	122.27	121.77	121.72	121.72	121.64	121.62	
20	121.72	121.72	121.77	122.15	122.02	122.23	122.26	121.77	121.72	121.72	121.64	121.62	
21	121.74	121.72	121.72	122.15	121.99	122.23	122.25	121.77	121.72	121.72	121.64	121.62	
22	121.74	121.72	121.68	122.11	121.89	122.22	122.26	121.77	121.72	121.72	121.64	121.62	
23	121.74	121.72	121.68	121.95	121.84	121.95	122.27	121.68	121.72	121.72	121.64	121.62	
24	121.74	121.72	121.68	122.05	121.81	121.90	122.24	121.67	121.72	121.72	121.64	121.62	
25	121.74	121.72	121.68	121.89	121.79	122.24	122.00	121.77	121.72	121.72	121.64	121.62	
26	121.72	121.72	121.67	121.93	121.79	122.25	121.89	121.77	121.72	121.72	121.64	121.62	
27	121.72	121.72	121.66	122.10	121.94	122.09	121.83	121.76	121.72	121.72	121.64	121.62	
28	121.72	121.87	121.65	122.04	121.95	122.06	121.81	121.74	121.72	121.72	121.64	121.62	
29	121.72	121.85	121.65	122.02	121.89	122.17	121.81	121.73	121.72	121.72		121.62	
30	121.72	121.85	121.65	122.07	121.87	122.08	121.80	121.73	121.72	121.72		121.62	
31		121.81		122.03	121.87		121.83		121.72	121.72		121.62	
Mean	121.83	121.74	121.74	122.02	121.87	122.08	122.03	121.81	121.74	121.72	121.64	121.62	
Max	122.19	121.87	122.02	122.20	122.26	122.82	122.27	122.19	121.77	121.72	121.67	121.67	122.82
Min	121.72	121.72	121.65	121.67	121.75	121.81	121.80	121.67	121.72	121.72	121.64	121.61	121.61

Annual Max Momentary Gage Height	123.27	m. (MSL.) ,	at 09.00 Hours , on Sep 2 , 2014		
Zero Gage at Bottom Elevation	120.27	m. (MSL.) ,	River Bed	120.83	m. (MSL.)
Left Bank Elevation	127.36	m. (MSL.) ,			
Right Bank Elevation	127.36	m. (MSL.) ,	Drainage Area	368	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.88	0.46	0.55	0.31	1.72	1.86	3.10	0.70	0.61	0.46	0.22	0.22		
2	2.88	0.46	0.49	0.34	1.12	22.32	2.66	0.67	0.61	0.46	0.31	0.22		
3	2.88	0.46	0.46	0.34	0.67	3.38	2.66	0.67	0.61	0.46	0.31	0.22		
4	4.36	0.46	0.46	0.34	0.55	2.11	1.18	4.36	0.61	0.46	0.25	0.22		
5	2.88	0.46	0.46	0.31	0.76	1.58	1.18	2.33	0.61	0.46	0.22	0.22		
6	0.58	0.46	0.46	0.64	0.94	1.18	1.18	2.33	0.61	0.46	0.22	0.19		
7	0.52	0.46	2.22	2.99	1.37	1.18	1.18	2.77	0.61	0.46	0.22	0.16		
8	0.52	0.46	0.55	3.66	1.00	0.94	1.00	2.44	0.61	0.46	0.22	0.13		
9	0.52	0.46	0.55	3.66	0.61	0.82	2.00	0.67	0.61	0.46	0.22	0.13		
10	0.52	0.46	0.55	3.52	0.61	0.76	5.69	0.61	0.61	0.46	0.22	0.13		
11	0.52	0.46	0.52	3.52	0.61	2.33	2.00	0.52	0.61	0.46	0.22	0.31		
12	0.52	0.46	0.52	3.52	0.61	1.58	2.00	0.52	0.61	0.46	0.22	0.22		
13	2.22	0.46	0.52	4.50	0.61	1.12	1.65	0.49	0.61	0.46	0.22	0.16		
14	2.22	0.46	0.52	4.50	0.61	4.50	2.00	0.82	0.46	0.46	0.22	0.16		
15	2.55	0.46	0.52	4.08	0.94	4.84	2.55	0.61	0.46	0.46	0.22	0.16		
16	1.30	0.46	0.52	4.08	1.37	2.77	2.55	0.61	0.46	0.46	0.22	0.16		
17	0.55	0.46	1.65	3.52	1.65	5.01	5.69	0.61	0.46	0.46	0.22	0.16		
18	0.52	0.46	0.88	3.80	5.52	5.01	5.69	0.61	0.46	0.46	0.22	0.16		
19	0.46	0.46	0.67	3.80	1.93	2.77	5.69	0.61	0.46	0.46	0.22	0.16		
20	0.46	0.46	0.61	3.80	2.22	5.01	5.52	0.61	0.46	0.46	0.22	0.16		
21	0.52	0.46	0.46	3.80	1.93	5.01	5.35	0.61	0.46	0.46	0.22	0.16		
22	0.52	0.46	0.34	3.24	1.24	4.84	5.52	0.61	0.46	0.46	0.22	0.16		
23	0.52	0.46	0.34	1.65	0.94	1.65	5.69	0.34	0.46	0.46	0.22	0.16		
24	0.52	0.46	0.34	2.55	0.76	1.30	5.18	0.31	0.46	0.46	0.22	0.16		
25	0.52	0.46	0.34	1.24	0.67	5.18	2.00	0.61	0.46	0.46	0.22	0.16		
26	0.46	0.46	0.31	1.51	0.67	5.35	1.24	0.61	0.46	0.46	0.22	0.16		
27	0.46	0.46	0.28	3.10	1.58	2.99	0.88	0.58	0.46	0.46	0.22	0.16		
28	0.46	1.12	0.25	2.44	1.65	2.66	0.76	0.52	0.46	0.46	0.22	0.16		
29	0.46	1.00	0.25	2.22	1.24	4.08	0.76	0.49	0.46	0.46		0.16		
30	0.46	1.00	0.25	2.77	1.12	2.88	0.70	0.49	0.46	0.46		0.16		
31		0.76		2.33	1.12		0.88		0.46	0.46		0.16		
Total	34.76	16.30	16.84	82.08	38.34	107.01	86.13	28.73	16.21	14.26	6.37	5.41	452.44	CMSDAY
Mean	1.16	0.53	0.56	2.65	1.24	3.57	2.78	0.96	0.52	0.46	0.23	0.17	1.24	CMS
Max	4.36	1.12	2.22	4.50	5.52	22.32	5.69	4.36	0.61	0.46	0.31	0.31	22.32	CMS
Min	0.46	0.46	0.25	0.31	0.55	0.76	0.70	0.31	0.46	0.46	0.22	0.13	0.13	CMS
Runoff	3.00	1.41	1.46	7.09	3.31	9.25	7.44	2.48	1.40	1.23	0.55	0.47	39.09	MCM

Momentary Peak 46.68 CMS. at 123.27 m. (MSL.) at 09.00 Hours , on Sep 2 , 2014

Runoff Yield 3.37 Liters/Second/Square KM. Momentary Peak Yield 126.848 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-
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 17 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

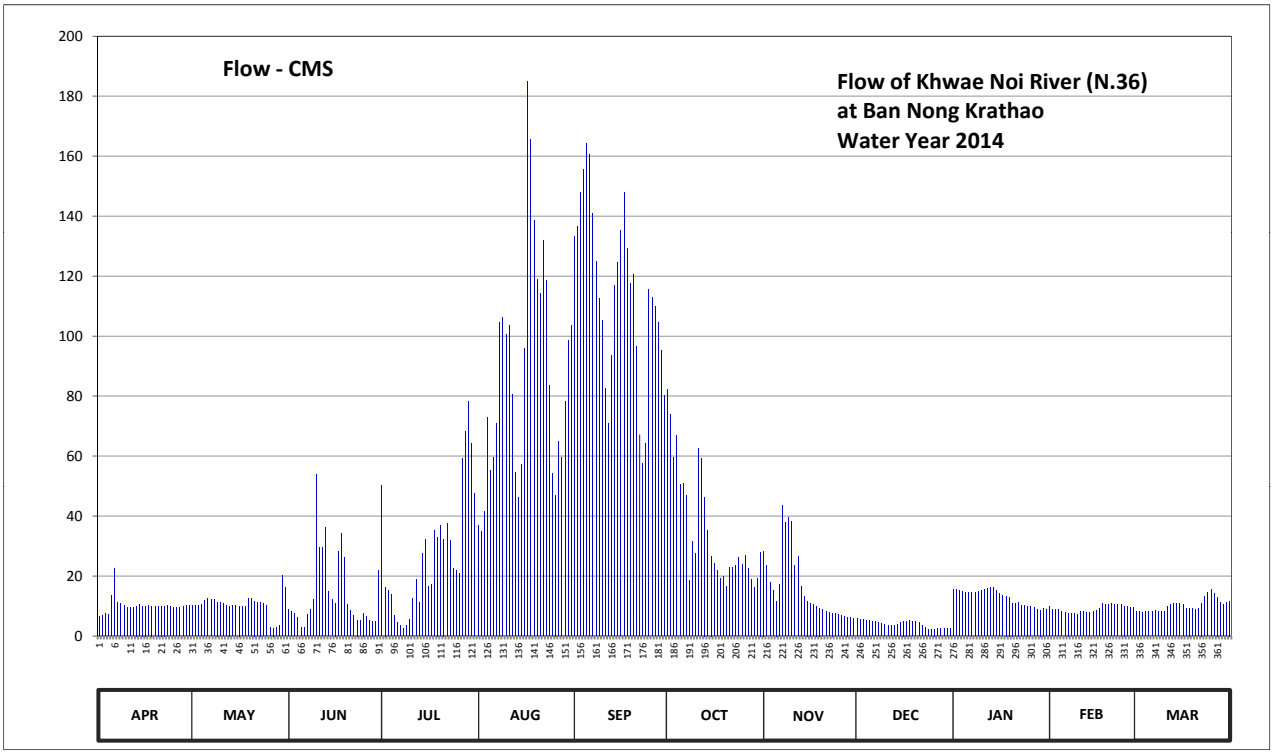
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.53	193.82	193.71	195.88	195.29	198.60	197.04	194.87	193.46	194.15	193.79	193.65	
2	193.55	193.81	193.67	194.21	195.20	198.67	196.76	194.61	193.44	194.15	193.72	193.65	
3	193.60	193.82	193.61	194.14	195.50	198.84	196.24	194.29	193.43	194.13	193.72	193.64	
4	193.59	193.84	193.49	194.06	196.73	198.90	196.51	194.13	193.42	194.11	193.71	193.65	
5	194.04	193.93	193.19	193.54	196.07	198.97	195.89	193.91	193.40	194.10	193.67	193.66	
6	194.55	193.97	193.19	193.35	196.24	198.94	195.90	194.26	193.38	194.09	193.64	193.66	
7	193.88	193.95	193.57	193.26	196.65	198.76	195.73	195.59	193.37	194.09	193.62	193.68	
8	193.85	193.95	193.72	193.16	197.77	198.39	194.33	195.33	193.35	194.10	193.61	193.67	
9	193.81	193.89	193.94	193.27	197.83	198.02	195.02	195.40	193.32	194.12	193.60	193.65	
10	193.77	193.88	196.02	193.44	197.64	197.80	194.82	195.34	193.30	194.13	193.57	193.65	
11	193.76	193.86	194.93	193.96	197.74	197.05	196.35	194.60	193.27	194.15	193.66	193.78	
12	193.76	193.82	194.92	194.34	196.99	196.65	196.23	194.77	193.27	194.17	193.65	193.83	
13	193.80	193.80	195.25	193.88	196.04	197.42	195.71	194.22	193.25	194.19	193.64	193.85	
14	193.83	193.81	194.11	194.83	195.70	198.15	195.21	194.01	193.29	194.19	193.64	193.85	
15	193.80	193.82	193.95	195.06	196.15	198.38	194.78	193.91	193.34	194.13	193.66	193.86	
16	193.80	193.80	193.87	194.22	197.49	198.64	194.65	193.87	193.39	194.07	193.68	193.83	
17	193.81	193.79	194.86	194.25	199.13	198.84	194.52	193.83	193.39	194.04	193.73	193.73	
18	193.80	193.79	195.16	195.21	198.98	198.50	194.37	193.80	193.41	194.02	193.86	193.75	
19	193.79	193.97	194.75	195.10	198.71	198.17	194.40	193.75	193.38	194.00	193.84	193.73	
20	193.80	193.96	193.84	195.28	198.21	198.26	194.22	193.71	193.38	193.87	193.83	193.71	
21	193.80	193.91	193.68	195.07	198.07	197.52	194.57	193.66	193.34	193.85	193.85	193.73	
22	193.80	193.88	193.56	195.32	198.57	196.52	194.57	193.64	193.27	193.89	193.84	193.87	
23	193.81	193.89	193.42	195.04	198.20	196.16	194.61	193.62	193.19	193.81	193.84	194.01	
24	193.78	193.86	193.40	194.55	197.09	196.42	194.76	193.60	193.13	193.81	193.83	194.10	
25	193.77	193.82	193.62	194.52	196.03	198.11	194.62	193.58	193.11	193.80	193.80	194.15	
26	193.77	193.20	193.53	194.46	195.74	198.03	194.79	193.54	193.14	193.78	193.78	194.07	
27	193.77	193.18	193.40	196.23	196.44	197.94	194.55	193.53	193.16	193.76	193.77	194.00	
28	193.79	193.19	193.39	196.56	196.24	197.77	194.35	193.51	193.17	193.71	193.77	193.88	
29	193.81	193.27	193.38	196.91	196.91	197.47	194.19	193.49	193.17	193.70		193.83	
30	193.82	194.43	194.51	196.42	197.58	196.98	194.37	193.47	193.16	193.74		193.88	
31		194.20		195.76	197.74		194.85		193.17	193.72		193.91	
Mean	193.80	193.81	193.99	194.69	197.05	197.96	195.13	194.13	193.30	193.99	193.73	193.80	
Max	194.55	194.43	196.02	196.91	199.13	198.97	197.04	195.59	193.46	194.19	193.86	194.15	199.13
Min	193.53	193.18	193.19	193.16	195.20	196.16	194.19	193.47	193.11	193.70	193.57	193.64	193.11

Annual Max Momentary Gage Height 199.22 m. (MSL.) , at 15.00 Hours , on Aug 17 , 2014

Zero Gage at Bottom Elevation 191.88 m. (MSL.) , River Bed 191.49 m. (MSL.)

Left Bank Elevation 202.23 m. (MSL.) ,

Right Bank Elevation 202.25 m. (MSL.) , Drainage Area 1710 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.59	10.30	8.83	50.40	36.98	133.20	82.20	28.40	5.79	15.40	9.87	8.05		
2	6.82	10.15	8.31	16.38	35.00	136.56	73.88	23.58	5.56	15.40	8.96	8.05		
3	7.40	10.30	7.53	15.24	41.60	147.84	59.64	17.82	5.44	15.08	8.96	7.92		
4	7.28	10.60	6.14	13.96	73.04	155.40	66.88	15.08	5.33	14.76	8.83	8.05		
5	13.64	11.95	2.72	6.71	55.22	164.22	50.65	11.65	5.10	14.60	8.31	8.18		
6	22.50	12.55	2.72	4.53	59.64	160.44	50.90	17.28	4.87	14.44	7.92	8.18		
7	11.20	12.25	7.06	3.49	70.80	140.88	46.79	43.58	4.75	14.44	7.66	8.44		
8	10.75	12.25	8.96	2.48	104.47	124.87	18.54	37.86	4.53	14.60	7.53	8.31		
9	10.15	11.35	12.10	3.61	106.39	112.66	31.40	39.40	4.18	14.92	7.40	8.05		
10	9.61	11.20	53.92	5.56	100.44	105.40	27.40	38.08	3.95	15.08	7.06	8.05		
11	9.48	10.90	29.60	12.40	103.54	82.50	62.50	23.40	3.61	15.40	8.18	9.74		
12	9.48	10.30	29.40	18.72	80.70	70.80	59.38	26.46	3.61	15.72	8.05	10.45		
13	10.00	10.00	36.10	11.20	54.44	93.62	46.33	16.56	3.38	16.04	7.92	10.75		
14	10.45	10.15	14.76	27.60	46.10	116.95	35.22	13.16	3.83	16.04	7.92	10.75		
15	10.00	10.30	12.25	32.20	57.30	124.54	26.64	11.65	4.41	15.08	8.18	10.90		
16	10.00	10.00	11.05	16.56	95.79	135.12	24.30	11.05	4.98	14.12	8.44	10.45		
17	10.15	9.87	28.20	17.10	184.90	147.84	21.96	10.45	4.98	13.64	9.09	9.09		
18	10.00	9.87	34.20	35.22	165.48	129.20	19.26	10.00	5.22	13.32	10.90	9.35		
19	9.87	12.55	26.10	33.00	138.48	117.61	19.80	9.35	4.87	13.00	10.60	9.09		
20	10.00	12.40	10.60	36.76	118.93	120.58	16.56	8.83	4.87	11.05	10.45	8.83		
21	10.00	11.65	8.44	32.40	114.31	96.72	22.86	8.18	4.41	10.75	10.75	9.09		
22	10.00	11.20	6.94	37.64	132.00	67.16	22.86	7.92	3.61	11.35	10.60	11.05		
23	10.15	11.35	5.33	31.80	118.60	57.56	23.58	7.66	2.72	10.15	10.60	13.16		
24	9.74	10.90	5.10	22.50	83.70	64.36	26.28	7.40	2.24	10.15	10.45	14.60		
25	9.61	10.30	7.66	21.96	54.18	115.63	23.76	7.17	2.08	10.00	10.00	15.40		
26	9.61	2.80	6.59	20.88	47.02	112.99	26.82	6.71	2.32	9.74	9.74	14.12		
27	9.61	2.64	5.10	59.38	64.92	110.02	22.50	6.59	2.48	9.48	9.61	13.00		
28	9.87	2.72	4.98	68.28	59.64	104.47	18.90	6.36	2.56	8.83	9.61	11.20		
29	10.15	3.61	4.87	78.30	78.30	95.17	16.04	6.14	2.56	8.70		10.45		
30	10.30	20.34	21.78	64.36	98.58	80.40	19.26	5.90	2.48	9.22		11.20		
31		16.20		47.48	103.54		28.00		2.56	8.96		11.65		
Total	304.41	322.95	427.34	848.10	2684.03	3424.71	1091.09	483.67	123.28	399.46	253.59	315.60	10678.23	CMSDAY
Mean	10.15	10.42	14.24	27.36	86.58	114.16	35.20	16.12	3.98	12.89	9.06	10.18	29.26	CMS
Max	22.50	20.34	53.92	78.30	184.90	164.22	82.20	43.58	5.79	16.04	10.90	15.40	184.90	CMS
Min	6.59	2.64	2.72	2.48	35.00	57.56	16.04	5.90	2.08	8.70	7.06	7.92	2.08	CMS
Runoff	26.30	27.90	36.92	73.28	231.90	295.90	94.27	41.79	10.65	34.51	21.91	27.27	922.60	MCM

Momentary Peak 200.60 CMS. at 199.22 m. (MSL.) at 15.00 Hours , on Aug 17 , 2014

Runoff Yield 17.11 Liters/Second/Square KM. Momentary Peak Yield 117.310 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Thap Krit , Nakhon Sawan (N.37)

Lat 15 - 45 - 20 N Long 100 - 15 - 29 E

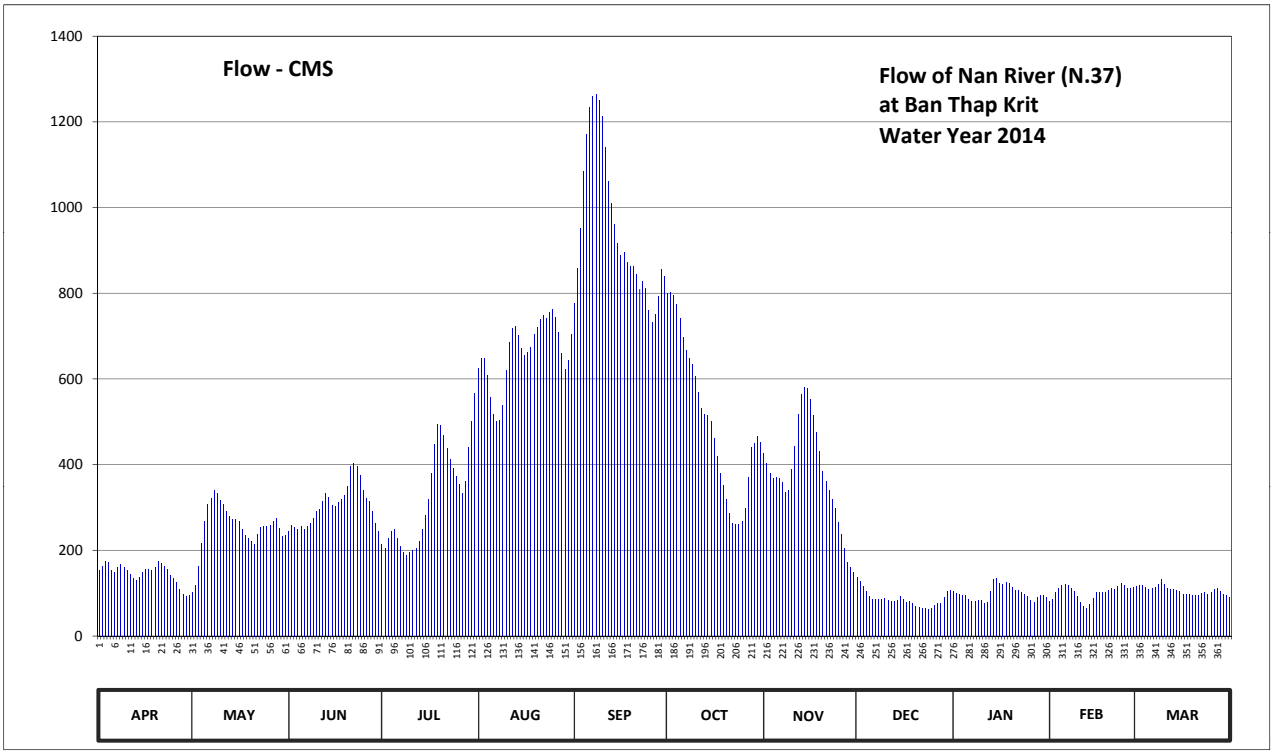
Location : on right bank at Ban Thap Krit.

	Ban Thap Krit	**Amphoe** Chum Saeng	**Changwat** Nakhon Sawan
Drainge Area	57,613 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank in front of automatic gage building.		**Elevation** +27.246 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1971 to date		
Rated by Flot	-		
Rated by Current Meter	1971 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.43	18.06	19.04	18.86	21.04	21.73	21.84	20.07	18.32	18.08	17.91	18.17	
2	18.51	18.19	19.13	18.80	21.15	22.09	21.85	19.95	18.25	18.05	17.94	18.18	
3	18.59	18.51	19.11	18.95	21.15	22.48	21.82	19.83	18.17	18.03	18.07	18.18	
4	18.57	18.87	19.07	19.05	20.97	23.02	21.72	19.76	18.08	18.01	18.14	18.16	
5	18.44	19.19	19.12	19.07	20.72	23.37	21.57	19.77	18.00	18.02	18.18	18.12	
6	18.41	19.42	19.08	18.94	20.53	23.61	21.37	19.76	17.95	17.94	18.21	18.13	
7	18.48	19.50	19.12	18.82	20.45	23.71	21.23	19.71	17.94	17.91	18.19	18.15	
8	18.53	19.61	19.16	18.74	20.47	23.73	21.15	19.58	17.95	17.91	18.13	18.21	
9	18.49	19.57	19.23	18.69	20.63	23.68	21.08	19.61	17.94	17.92	18.09	18.28	
10	18.43	19.47	19.32	18.73	21.02	23.53	20.95	19.87	17.96	17.93	18.00	18.21	
11	18.37	19.42	19.35	18.77	21.32	23.25	20.78	20.16	17.92	17.88	17.89	18.13	
12	18.31	19.33	19.46	18.79	21.47	22.93	20.60	20.53	17.91	17.89	17.81	18.12	
13	18.27	19.25	19.56	18.90	21.49	22.72	20.54	20.76	17.91	18.09	17.78	18.12	
14	18.32	19.22	19.51	19.07	21.39	22.52	20.52	20.84	17.93	18.28	17.85	18.10	
15	18.41	19.21	19.40	19.27	21.25	22.34	20.45	20.82	18.00	18.30	17.96	18.09	
16	18.45	19.18	19.39	19.49	21.18	22.22	20.26	20.70	17.94	18.22	18.07	18.03	
17	18.45	19.08	19.45	19.82	21.21	22.25	20.04	20.52	17.89	18.21	18.07	18.03	
18	18.44	18.98	19.49	20.18	21.26	22.15	19.83	20.33	17.91	18.23	18.07	18.03	
19	18.49	18.94	19.54	20.42	21.40	22.11	19.67	20.09	17.86	18.22	18.06	18.02	
20	18.59	18.90	19.66	20.41	21.48	22.11	19.49	19.85	17.81	18.15	18.10	18.02	
21	18.56	18.86	19.91	20.29	21.56	22.03	19.30	19.72	17.80	18.11	18.13	18.01	
22	18.50	19.00	19.95	20.13	21.60	21.88	19.16	19.60	17.78	18.11	18.12	18.05	
23	18.45	19.11	19.91	20.00	21.57	21.96	19.14	19.49	17.77	18.07	18.17	18.06	
24	18.36	19.12	19.80	19.89	21.63	21.89	19.14	19.36	17.76	18.03	18.22	18.03	
25	18.31	19.12	19.61	19.79	21.67	21.66	19.18	19.17	17.78	18.00	18.18	18.07	
26	18.24	19.13	19.50	19.68	21.58	21.53	19.36	19.00	17.84	17.93	18.14	18.12	
27	18.12	19.19	19.46	19.57	21.42	21.61	19.78	18.79	17.86	17.89	18.13	18.13	
28	18.03	19.23	19.32	19.72	21.20	21.80	20.14	18.57	17.86	17.97	18.15	18.09	
29	18.00	19.09	19.16	20.15	21.03	22.08	20.19	18.48	17.98	18.02		18.04	
30	18.01	18.97	19.05	20.46	21.12	22.01	20.28	18.41	18.08	18.02		18.01	
31		18.98		20.77	21.40		20.21		18.11	17.98		17.98	
Mean	18.39	19.09	19.40	19.49	21.21	22.47	20.41	19.77	17.94	18.05	18.06	18.10	
Max	18.59	19.61	19.95	20.77	21.67	23.73	21.85	20.84	18.32	18.30	18.22	18.28	23.73
Min	18.00	18.06	19.04	18.69	20.45	21.53	19.14	18.41	17.76	17.88	17.78	17.98	17.76

Annual Max Momentary Gage Height	23.74	m. (MSL.) ,	at 20.00 Hours , on Sep 7 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	11.88	m. (MSL.)
Left Bank Elevation	27.91	m. (MSL.) ,			
Right Bank Elevation	27.95	m. (MSL.) ,	Drainage Area	57613	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	152.20	100.80	243.40	214.60	624.80	776.60	800.80	426.30	136.80	103.40	81.30	115.80		
2	163.40	118.60	258.10	205.00	649.00	857.70	803.00	403.50	127.00	99.50	85.20	117.20		
3	174.60	163.40	254.70	229.00	649.00	951.20	796.40	380.70	115.80	96.90	102.10	117.20		
4	171.80	216.20	248.20	245.00	609.40	1083.00	774.40	367.80	103.40	94.30	111.60	114.40		
5	153.60	268.30	256.40	248.20	556.20	1170.50	741.40	369.60	93.00	95.60	117.20	108.80		
6	149.40	307.40	249.80	227.40	516.30	1232.60	697.40	367.80	86.50	85.20	121.40	110.20		
7	159.20	321.00	256.40	208.20	500.00	1258.60	666.60	358.80	85.20	81.30	118.60	113.00		
8	166.20	340.80	263.20	196.00	504.00	1263.80	649.00	335.40	86.50	81.30	110.20	121.40		
9	160.60	333.60	275.10	188.60	537.30	1250.80	633.60	340.80	85.20	82.60	104.70	131.20		
10	152.20	315.90	290.40	194.50	620.40	1211.80	605.00	388.30	87.80	83.90	93.00	121.40		
11	143.80	307.40	295.50	200.50	686.40	1140.50	568.80	443.40	82.60	77.40	78.70	110.20		
12	135.40	292.10	314.20	203.50	719.40	1060.50	531.00	516.30	81.30	78.70	68.30	108.80		
13	129.80	278.50	331.80	221.00	723.80	1008.80	518.40	564.60	81.30	104.70	64.60	108.80		
14	136.80	273.40	322.80	248.20	701.80	960.80	514.20	581.40	83.90	131.20	73.50	106.00		
15	149.40	271.70	304.00	281.90	671.00	917.60	500.00	577.20	93.00	134.00	87.80	104.70		
16	155.00	266.60	302.30	319.30	655.60	888.80	462.40	552.00	85.20	122.80	102.10	96.90		
17	155.00	249.80	312.50	378.80	662.20	896.00	420.60	514.20	78.70	121.40	102.10	96.90		
18	153.60	233.80	319.30	447.20	673.20	872.00	380.70	476.00	81.30	124.20	102.10	96.90		
19	160.60	227.40	328.20	494.00	704.00	862.40	351.60	430.10	74.80	122.80	100.80	95.60		
20	174.60	221.00	349.80	492.00	721.60	862.40	319.30	384.50	68.30	113.00	106.00	95.60		
21	170.40	214.60	395.90	468.10	739.20	843.90	287.00	360.60	67.00	107.40	110.20	94.30		
22	162.00	237.00	403.50	437.70	748.00	809.60	263.20	339.00	64.60	107.40	108.80	99.50		
23	155.00	254.70	395.90	413.00	741.40	827.80	259.80	319.30	63.40	102.10	115.80	100.80		
24	142.40	256.40	375.00	392.10	754.60	811.80	259.80	297.20	62.20	96.90	122.80	96.90		
25	135.40	256.40	340.80	373.20	763.40	761.20	266.60	264.90	64.60	93.00	117.20	102.10		
26	125.60	258.10	321.00	353.40	743.60	732.60	297.20	237.00	72.20	83.90	111.60	108.80		
27	108.80	268.30	314.20	333.60	708.40	750.20	371.40	203.50	74.80	78.70	110.20	110.20		
28	96.90	275.10	290.40	360.60	660.00	792.00	439.60	171.80	74.80	89.10	113.00	104.70		
29	93.00	251.40	263.20	441.50	622.60	855.40	449.10	159.20	90.40	95.60		98.20		
30	94.30	232.20	245.00	502.00	642.40	839.30	466.20	149.40	103.40	95.60		94.30		
31		233.80		566.70	704.00		452.90		107.40	90.40		90.40		
Total	4381.00	7845.70	9121.00	10084.80	20513.00	28550.20	15547.40	11280.60	2662.40	3074.30	2840.90	3291.20	119192.50	CMSDAY
Mean	146.03	253.09	304.03	325.32	661.71	951.67	501.53	376.02	85.88	99.17	101.46	106.17	326.55	CMS
Max	174.60	340.80	403.50	566.70	763.40	1263.80	803.00	581.40	136.80	134.00	122.80	131.20	1263.80	CMS
Min	93.00	100.80	243.40	188.60	500.00	732.60	259.80	149.40	62.20	77.40	64.60	90.40	62.20	CMS
Runoff	378.52	677.87	788.05	871.33	1772.32	2466.74	1343.30	974.64	230.03	265.62	245.45	284.36	10298.23	MCM

Momentary Peak 1266.40 CMS. at 23.74 m. (MSL.) at 20.00 Hours , on Sep 7 , 2014

Runoff Yield 5.67 Liters/Second/Square KM. Momentary Peak Yield 21.981 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Khlong Chom Phu at Ban Chom Phu , Phitsanulok (N.43A)

Lat 16 - 41 - 40 N Long 100 - 39 - 28 E

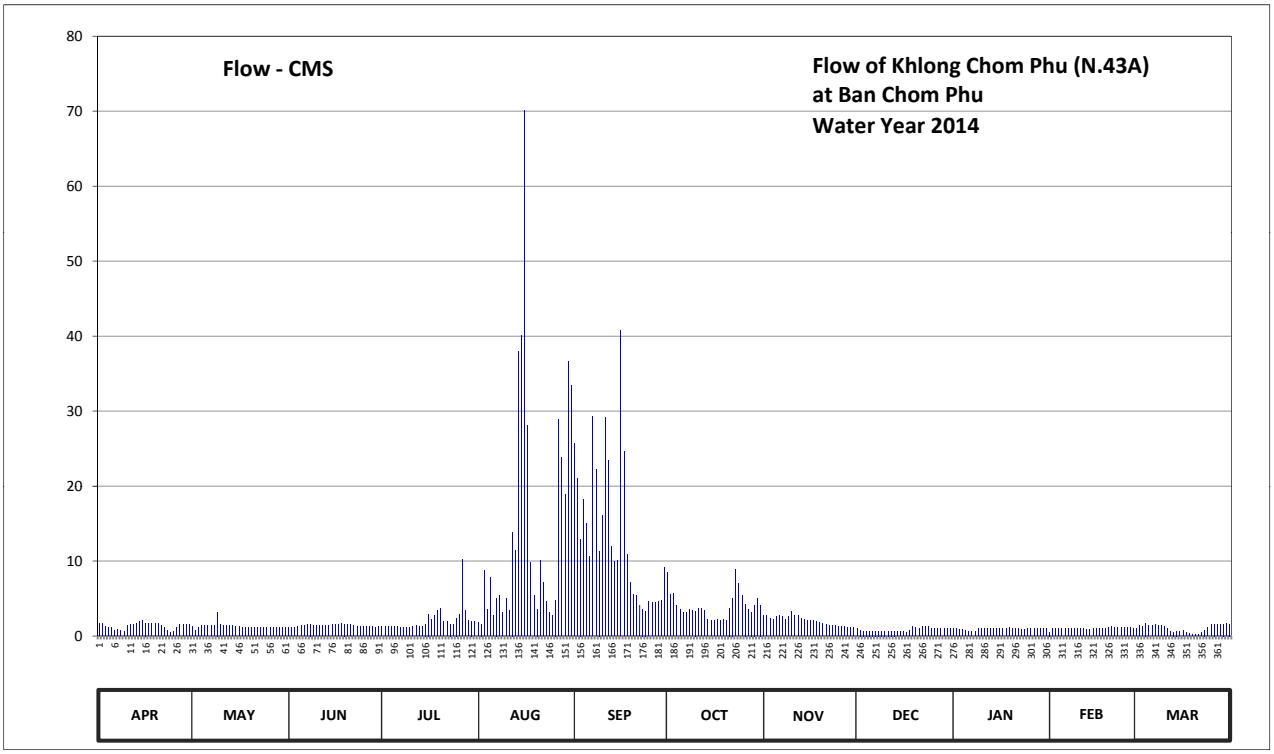
Location : on right bank at Ban Chom Phu.

	Ban Chom Phu	**Amphoe** Noen Maprang	**Changwat** Phitsanulok
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+50.056 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the gage site.		**Elevation** +59.558 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.81	51.71	51.70	51.71	51.85	54.68	52.91	52.02	51.65	51.66	51.51	51.65	
2	51.81	51.58	51.69	51.71	51.80	54.26	52.50	52.03	51.60	51.65	51.66	51.74	
3	51.71	51.67	51.69	51.71	52.94	53.44	52.52	51.95	51.56	51.62	51.66	51.73	
4	51.69	51.74	51.72	51.71	52.19	54.00	52.27	51.91	51.56	51.61	51.66	51.83	
5	51.70	51.76	51.76	51.71	52.82	53.67	52.18	51.99	51.56	51.58	51.66	51.75	
6	51.58	51.76	51.76	51.71	52.04	53.17	52.11	52.03	51.56	51.55	51.66	51.76	
7	51.61	51.76	51.79	51.70	52.44	54.98	52.11	52.01	51.56	51.54	51.66	51.77	
8	51.58	51.76	51.80	51.70	52.48	54.37	52.18	51.93	51.56	51.54	51.66	51.75	
9	51.55	52.12	51.76	51.70	52.11	53.26	52.17	51.99	51.56	51.64	51.66	51.76	
10	51.75	51.79	51.76	51.70	52.43	53.78	52.15	52.13	51.56	51.66	51.66	51.72	
11	51.78	51.76	51.76	51.73	52.16	54.97	52.21	52.02	51.56	51.66	51.64	51.64	
12	51.79	51.76	51.76	51.75	53.54	54.48	52.21	52.03	51.56	51.66	51.64	51.55	
13	51.82	51.76	51.76	51.73	53.27	53.33	52.16	51.95	51.56	51.66	51.63	51.51	
14	51.87	51.76	51.76	51.72	55.57	53.09	51.93	51.93	51.54	51.66	51.63	51.56	
15	51.89	51.71	51.77	51.80	55.70	53.11	51.89	51.89	51.52	51.66	51.64	51.54	
16	51.83	51.71	51.79	52.07	57.15	55.74	51.90	51.89	51.52	51.65	51.64	51.57	
17	51.81	51.70	51.79	51.93	54.88	54.58	51.91	51.89	51.50	51.65	51.65	51.50	
18	51.81	51.70	51.81	52.02	53.08	53.21	51.90	51.87	51.58	51.64	51.65	51.45	
19	51.81	51.69	51.80	52.16	52.49	52.73	51.91	51.85	51.71	51.67	51.66	51.41	
20	51.81	51.69	51.78	52.21	52.20	52.51	51.90	51.81	51.68	51.66	51.68	51.40	
21	51.76	51.69	51.78	51.87	53.11	52.49	52.22	51.79	51.66	51.65	51.71	51.39	
22	51.69	51.69	51.76	51.86	52.73	52.29	52.44	51.76	51.71	51.64	51.69	51.50	
23	51.58	51.69	51.73	51.80	52.37	52.20	52.96	51.76	51.72	51.62	51.69	51.60	
24	51.48	51.69	51.73	51.77	52.11	52.15	52.71	51.75	51.72	51.61	51.69	51.69	
25	51.55	51.69	51.73	51.96	52.03	52.37	52.48	51.73	51.66	51.66	51.68	51.77	
26	51.68	51.69	51.72	52.06	52.40	52.34	52.31	51.71	51.66	51.66	51.68	51.80	
27	51.77	51.69	51.72	53.13	54.94	52.34	52.18	51.71	51.66	51.66	51.67	51.78	
28	51.78	51.69	51.71	52.16	54.51	52.36	52.12	51.70	51.66	51.65	51.66	51.78	
29	51.78	51.69	51.69	51.90	54.06	52.39	52.29	51.70	51.65	51.65		51.80	
30	51.78	51.69	51.72	51.88	55.48	53.00	52.43	51.69	51.65	51.66		51.81	
31		51.69		51.86	55.27		52.29		51.65	51.66		51.80	
Mean	51.73	51.73	51.75	51.88	53.30	53.38	52.24	51.88	51.61	51.64	51.66	51.66	
Max	51.89	52.12	51.81	53.13	57.15	55.74	52.96	52.13	51.72	51.67	51.71	51.83	57.15
Min	51.48	51.58	51.69	51.70	51.80	52.15	51.89	51.69	51.50	51.54	51.51	51.39	51.39

Annual Max Momentary Gage Height	57.35	m. (MSL.) ,	at 12.00 Hours , on Aug 16 , 2014		
Zero Gage at Bottom Elevation	50.06	m. (MSL.) ,	River Bed	49.69	m. (MSL.)
Left Bank Elevation	60.29	m. (MSL.) ,			
Right Bank Elevation	59.39	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.65	1.24	1.20	1.24	1.85	25.76	8.48	2.70	1.00	1.04	0.53	1.00		
2	1.65	0.74	1.16	1.24	1.60	21.06	5.50	2.75	0.80	1.00	1.04	1.36		
3	1.24	1.08	1.16	1.24	8.72	12.96	5.64	2.35	0.68	0.88	1.04	1.32		
4	1.16	1.36	1.28	1.24	3.55	18.20	4.02	2.15	0.68	0.84	1.04	1.75		
5	1.20	1.44	1.44	1.24	7.76	15.03	3.50	2.55	0.68	0.74	1.04	1.40		
6	0.74	1.44	1.44	1.24	2.80	10.56	3.15	2.75	0.68	0.65	1.04	1.44		
7	0.84	1.44	1.56	1.20	5.08	29.36	3.15	2.65	0.68	0.62	1.04	1.48		
8	0.74	1.44	1.60	1.20	5.36	22.27	3.50	2.25	0.68	0.62	1.04	1.40		
9	0.65	3.20	1.44	1.20	3.15	11.34	3.45	2.55	0.68	0.96	1.04	1.44		
10	1.40	1.56	1.44	1.20	5.01	16.02	3.35	3.25	0.68	1.04	1.04	1.28		
11	1.52	1.44	1.44	1.32	3.40	29.24	3.66	2.70	0.68	1.04	0.96	0.96		
12	1.56	1.44	1.44	1.40	13.86	23.48	3.66	2.75	0.68	1.04	0.96	0.65		
13	1.70	1.44	1.44	1.32	11.43	11.97	3.40	2.35	0.68	1.04	0.92	0.53		
14	1.95	1.44	1.44	1.28	37.95	9.92	2.25	2.25	0.62	1.04	0.92	0.68		
15	2.05	1.24	1.48	1.60	40.10	10.08	2.05	2.05	0.56	1.04	0.96	0.62		
16	1.75	1.24	1.56	2.95	70.15	40.78	2.10	2.05	0.56	1.00	0.96	0.71		
17	1.65	1.20	1.56	2.25	28.16	24.58	2.15	2.05	0.50	1.00	1.00	0.50		
18	1.65	1.20	1.65	2.70	9.84	10.89	2.10	1.95	0.74	0.96	1.00	0.35		
19	1.65	1.16	1.60	3.40	5.43	7.11	2.15	1.85	1.24	1.08	1.04	0.23		
20	1.65	1.16	1.52	3.66	3.60	5.57	2.10	1.65	1.12	1.04	1.12	0.20		
21	1.44	1.16	1.52	1.95	10.08	5.43	3.72	1.56	1.04	1.00	1.24	0.18		
22	1.16	1.16	1.44	1.90	7.11	4.14	5.08	1.44	1.24	0.96	1.16	0.50		
23	0.74	1.16	1.32	1.60	4.62	3.60	8.88	1.44	1.28	0.88	1.16	0.80		
24	0.44	1.16	1.32	1.48	3.15	3.35	6.97	1.40	1.28	0.84	1.16	1.16		
25	0.65	1.16	1.32	2.40	2.75	4.62	5.36	1.32	1.04	1.04	1.12	1.48		
26	1.12	1.16	1.28	2.90	4.80	4.44	4.26	1.24	1.04	1.04	1.12	1.60		
27	1.48	1.16	1.28	10.24	28.88	4.44	3.50	1.24	1.04	1.04	1.08	1.52		
28	1.52	1.16	1.24	3.40	23.81	4.56	3.20	1.20	1.04	1.00	1.04	1.52		
29	1.52	1.16	1.16	2.10	18.86	4.74	4.14	1.20	1.00	1.00		1.60		
30	1.52	1.16	1.28	2.00	36.60	9.20	5.01	1.16	1.00	1.04		1.65		
31		1.16		1.90	33.45		4.14		1.00	1.04		1.60		
Total	39.99	40.66	42.01	65.99	442.91	404.70	123.62	60.80	26.62	29.55	28.81	32.91	1338.57	CMSDAY
Mean	1.33	1.31	1.40	2.13	14.29	13.49	3.99	2.03	0.86	0.95	1.03	1.06	3.67	CMS
Max	2.05	3.20	1.65	10.24	70.15	40.78	8.88	3.25	1.28	1.08	1.24	1.75	70.15	CMS
Min	0.44	0.74	1.16	1.20	1.60	3.35	2.05	1.16	0.50	0.62	0.53	0.18	0.18	CMS
Runoff	3.46	3.51	3.63	5.70	38.27	34.97	10.68	5.25	2.30	2.55	2.49	2.84	115.65	MCM

Momentary Peak 75.30 CMS. at 57.35 m. (MSL.) at 12.00 Hours , on Aug 16 , 2014

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

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 18 - 59 - 33 N Long 100 - 56 - 36 E

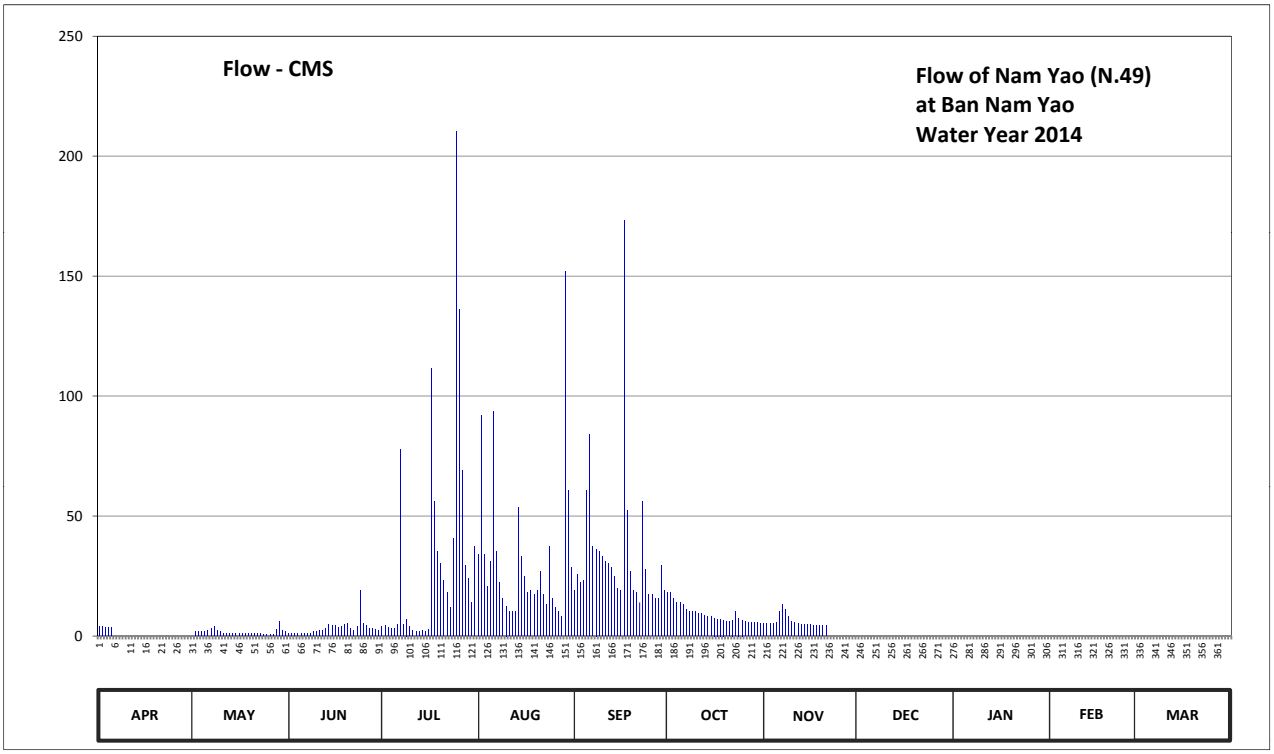
Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban Nam Yao	**Amphoe** Pua	**Changwat** Nan
Drainge Area	153 sq.km.		
Type of Gage	Water - stage recorder		
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	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 Flot	-		
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 42 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.61	265.54	265.48	265.61	266.01	265.84	265.83	265.64	265.99	265.88	265.84	265.80	
2	265.61	265.52	265.48	265.62	266.49	265.92	265.83	265.64	265.98	265.87	265.84	265.80	
3	265.60	265.52	265.46	265.60	266.01	265.88	265.80	265.64	265.98	265.86	265.83	265.80	
4	265.60	265.53	265.46	265.59	265.86	265.89	265.78	265.64	265.98	265.86	265.83	265.79	
5	265.60	265.53	265.46	265.59	265.98	266.24	265.78	265.65	265.98	265.86	265.83	265.79	
6	265.61	265.54	265.46	265.63	266.50	266.43	265.77	265.73	265.98	265.86	265.83	265.78	
7	265.67	265.58	265.46	266.38	266.02	266.04	265.74	265.77	265.98	265.86	265.83	265.78	
8	265.83	265.61	265.48	265.63	265.88	266.03	265.73	265.74	265.98	265.86	265.83	265.78	
9	265.86	265.54	265.53	265.68	265.80	266.02	265.73	265.70	265.98	265.86	265.82	265.78	
10	265.86	265.52	265.53	265.61	265.76	266.00	265.73	265.66	265.98	265.88	265.82	265.78	
11	265.86	265.48	265.54	265.54	265.73	265.98	265.72	265.65	265.98	265.88	265.82	265.78	
12	265.86	265.48	265.54	265.53	265.73	265.97	265.72	265.64	265.98	265.87	265.82	265.78	
13	265.86	265.48	265.58	265.53	265.73	265.95	265.71	265.63	265.98	265.86	265.82	265.78	
14	265.86	265.48	265.63	265.54	266.18	265.91	265.70	265.63	265.98	265.86	265.82	265.78	
15	265.86	265.48	265.62	265.52	266.00	265.85	265.70	265.63	265.98	265.86	265.82	265.77	
16	265.86	265.48	265.62	265.56	265.91	265.84	265.69	265.63	265.98	265.86	265.82	265.77	
17	265.86	265.48	265.60	266.63	265.83	267.03	265.68	265.62	265.98	265.86	265.82	265.77	
18	265.86	265.48	265.61	266.20	265.84	266.17	265.68	265.62	265.98	265.86	265.82	265.77	
19	265.86	265.47	265.63	266.02	265.82	265.93	265.67	265.62	265.97	265.86	265.82	265.77	
20	265.86	265.47	265.64	265.97	265.84	265.84	265.66	265.62	265.96	265.86	265.84	265.76	
21	265.86	265.46	265.58	265.89	265.93	265.83	265.66	265.62	265.95	265.85	265.83	265.76	
22	265.86	265.46	265.55	265.83	265.82	265.78	265.67	265.71	265.94	265.85	265.82	265.76	
23	265.86	265.46	265.61	265.75	265.77	266.20	265.73	265.98	265.93	265.84	265.82	265.76	
24	265.86	265.45	265.84	266.07	266.04	265.94	265.69	266.00	265.92	265.84	265.82	265.78	
25	265.86	265.45	265.64	267.24	265.80	265.82	265.67	266.00	265.91	265.84	265.81	265.83	
26	265.86	265.45	265.62	266.80	265.75	265.82	265.66	266.00	265.90	265.84	265.81	265.83	
27	265.86	265.44	265.59	266.31	265.73	265.80	265.65	266.00	265.89	265.84	265.80	265.84	
28	265.86	265.56	265.59	265.96	265.70	265.80	265.65	266.00	265.89	265.84	265.80	265.80	
29	265.86	265.66	265.56	265.90	266.90	265.96	265.65	266.00	265.89	265.84		265.78	
30	265.84	265.54	265.55	265.78	266.24	265.84	265.65	266.00	265.89	265.84		265.78	
31		265.52		266.04	265.95		265.64		265.88	265.84		265.78	
Mean	265.80	265.51	265.56	265.89	265.95	265.98	265.71	265.75	265.95	265.86	265.82	265.78	
Max	265.86	265.66	265.84	267.24	266.90	267.03	265.83	266.00	265.99	265.88	265.84	265.84	267.24
Min	265.60	265.44	265.46	265.52	265.70	265.78	265.64	265.62	265.88	265.84	265.80	265.76	265.44

Annual Max Momentary Gage Height	269.30	m. (MSL.) ,	at 03.00 Hours , on Sep 17 , 2014		
Zero Gage at Bottom Elevation	263.98	m. (MSL.) ,	River Bed	264.49	m. (MSL.)
Left Bank Elevation	273.19	m. (MSL.) ,			
Right Bank Elevation	275.27	m. (MSL.) ,	Drainage Area	153	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.95	0.00	1.10	3.95	34.10	18.90	18.05	5.30	0.00	0.00	0.00	0.00		
2	3.95	1.74	1.10	4.40	92.15	25.80	18.05	5.30	0.00	0.00	0.00	0.00		
3	3.50	1.74	0.90	3.50	34.10	22.30	15.50	5.30	0.00	0.00	0.00	0.00		
4	3.50	1.96	0.90	3.28	20.60	23.15	14.00	5.30	0.00	0.00	0.00	0.00		
5	3.50	1.96	0.90	3.28	31.20	60.80	14.00	5.75	0.00	0.00	0.00	0.00		
6	0.00	2.18	0.90	4.85	93.50	84.05	13.25	10.25	0.00	0.00	0.00	0.00		
7	0.00	3.06	0.90	77.60	35.20	37.40	11.00	13.25	0.00	0.00	0.00	0.00		
8	0.00	3.95	1.10	4.85	22.30	36.30	10.25	11.00	0.00	0.00	0.00	0.00		
9	0.00	2.18	1.96	7.10	15.50	35.20	10.25	8.00	0.00	0.00	0.00	0.00		
10	0.00	1.74	1.96	3.95	12.50	33.00	10.25	6.20	0.00	0.00	0.00	0.00		
11	0.00	1.10	2.18	2.18	10.25	31.20	9.50	5.75	0.00	0.00	0.00	0.00		
12	0.00	1.10	2.18	1.96	10.25	30.30	9.50	5.30	0.00	0.00	0.00	0.00		
13	0.00	1.10	3.06	1.96	10.25	28.50	8.75	4.85	0.00	0.00	0.00	0.00		
14	0.00	1.10	4.85	2.18	53.60	24.90	8.00	4.85	0.00	0.00	0.00	0.00		
15	0.00	1.10	4.40	1.74	33.00	19.75	8.00	4.85	0.00	0.00	0.00	0.00		
16	0.00	1.10	4.40	2.62	24.90	18.90	7.55	4.85	0.00	0.00	0.00	0.00		
17	0.00	1.10	3.50	111.35	18.05	173.25	7.10	4.40	0.00	0.00	0.00	0.00		
18	0.00	1.10	3.95	56.00	18.90	52.40	7.10	4.40	0.00	0.00	0.00	0.00		
19	0.00	1.00	4.85	35.20	17.20	26.70	6.65	4.40	0.00	0.00	0.00	0.00		
20	0.00	1.00	5.30	30.30	18.90	18.90	6.20	4.40	0.00	0.00	0.00	0.00		
21	0.00	0.90	3.06	23.15	26.70	18.05	6.20	4.40	0.00	0.00	0.00	0.00		
22	0.00	0.90	2.40	18.05	17.20	14.00	6.65	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.90	3.95	11.75	13.25	56.00	10.25	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.80	18.90	40.70	37.40	27.60	7.55	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.80	5.30	210.40	15.50	17.20	6.65	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.80	4.40	136.00	11.75	17.20	6.20	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.70	3.28	69.20	10.25	15.50	5.75	0.00	0.00	0.00	0.00	0.00		
28	0.00	2.62	3.28	29.40	8.00	15.50	5.75	0.00	0.00	0.00	0.00	0.00		
29	0.00	6.20	2.62	24.00	152.00	29.40	5.75	0.00	0.00	0.00		0.00		
30	0.00	2.18	2.40	14.00	60.80	18.90	5.75	0.00	0.00	0.00		0.00		
31		1.74		37.40	28.50		5.30		0.00	0.00		0.00		
Total	18.40	49.85	99.98	976.30	987.80	1031.05	284.75	128.10	0.00	0.00	0.00	0.00	3576.23	CMSDAY
Mean	0.61	1.61	3.33	31.49	31.86	34.37	9.19	4.27	0.00	0.00	0.00	0.00	9.80	CMS
Max	3.95	6.20	18.90	210.40	152.00	173.25	18.05	13.25	0.00	0.00	0.00	0.00	210.40	CMS
Min	0.00	0.00	0.90	1.74	8.00	14.00	5.30	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.59	4.31	8.64	84.35	85.35	89.08	24.60	11.07	0.00	0.00	0.00	0.00	308.99	MCM

Momentary Peak 898.00 CMS. at 269.30 m. (MSL.) at 03.00 Hours , on Sep 17 , 2014

Runoff Yield 64.04 Liters/Second/Square KM. Momentary Peak Yield 5869.281 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

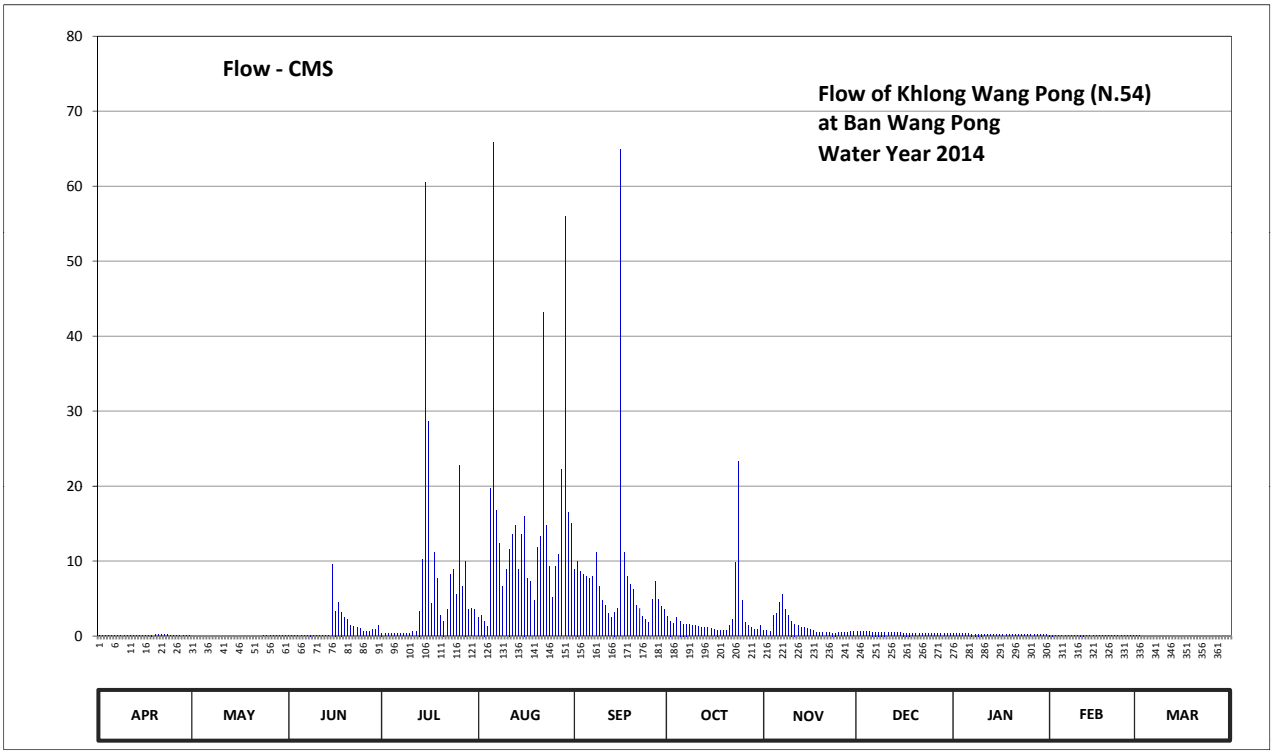
Location : on left bank at the bridge on road.

	Ban Wang Pong	**Amphoe** Chon Dan	**Changwat** Phetchabun
Drainge Area	174 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+104.350 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.	**Elevation**	+108.350 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	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +107.900 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.02	104.00	104.04	104.20	104.53	104.85	104.54	104.30	104.25	104.15	104.07	104.01	
2	104.02	104.00	104.05	104.19	104.55	104.90	104.50	104.30	104.25	104.15	104.07	104.01	
3	104.02	104.00	104.05	104.19	104.50	104.84	104.46	104.27	104.25	104.15	104.06	104.00	
4	104.02	104.00	104.05	104.18	104.41	104.82	104.53	104.55	104.25	104.15	104.06	104.00	
5	104.02	104.00	104.06	104.18	105.29	104.81	104.50	104.57	104.25	104.15	104.06	104.00	
6	104.02	104.00	104.06	104.18	106.87	104.80	104.45	104.65	104.24	104.15	104.05	103.99	
7	104.02	104.00	104.06	104.18	105.18	104.81	104.45	104.70	104.24	104.14	104.05	103.99	
8	104.02	104.00	104.07	104.18	105.00	104.95	104.44	104.60	104.24	104.14	104.05	103.99	
9	104.02	104.00	104.02	104.18	104.75	104.75	104.43	104.55	104.24	104.14	104.05	103.98	
10	104.02	104.00	104.04	104.18	104.85	104.66	104.42	104.50	104.24	104.14	104.05	103.98	
11	104.02	104.00	104.03	104.25	104.97	104.63	104.41	104.45	104.23	104.13	104.07	103.98	
12	104.02	104.00	104.02	104.25	105.05	104.57	104.40	104.43	104.22	104.13	104.07	103.97	
13	104.02	104.00	104.01	104.59	105.10	104.53	104.39	104.40	104.22	104.13	104.06	103.97	
14	104.02	104.00	104.01	104.91	104.85	104.58	104.38	104.38	104.21	104.13	104.06	103.97	
15	104.05	104.00	104.88	106.70	105.05	104.61	104.37	104.37	104.21	104.12	104.06	103.97	
16	104.05	104.00	104.59	105.62	105.15	106.84	104.34	104.33	104.20	104.12	104.05	103.96	
17	104.06	104.00	104.65	104.64	104.80	104.95	104.32	104.30	104.20	104.12	104.05	103.96	
18	104.07	104.00	104.58	104.95	104.78	104.81	104.31	104.23	104.20	104.12	104.05	103.96	
19	104.08	104.00	104.53	104.80	104.66	104.76	104.31	104.22	104.19	104.12	104.05	103.96	
20	104.10	104.00	104.51	104.55	104.98	104.73	104.30	104.22	104.19	104.12	104.05	103.95	
21	104.10	104.00	104.43	104.50	105.04	104.63	104.42	104.21	104.18	104.11	104.04	103.95	
22	104.09	104.00	104.41	104.60	106.12	104.61	104.51	104.21	104.18	104.11	104.04	103.95	
23	104.08	104.00	104.39	104.82	105.10	104.54	104.89	104.20	104.18	104.11	104.04	103.92	
24	104.05	104.01	104.37	104.85	104.87	104.51	105.43	104.20	104.17	104.11	104.03	103.90	
25	104.05	104.01	104.25	104.70	104.68	104.48	104.66	104.22	104.17	104.11	104.03	103.87	
26	104.04	104.02	104.25	105.41	104.87	104.67	104.48	104.22	104.16	104.10	104.03	103.85	
27	104.04	104.02	104.27	104.75	104.94	104.78	104.42	104.22	104.16	104.10	104.02	103.85	
28	104.03	104.02	104.33	104.90	105.39	104.67	104.40	104.22	104.16	104.10	104.02	103.85	
29	104.03	104.02	104.34	104.60	106.55	104.62	104.33	104.25	104.15	104.10		103.85	
30	104.02	104.03	104.42	104.61	105.17	104.60	104.33	104.25	104.15	104.10		103.85	
31		104.03		104.60	105.11		104.43		104.15	104.10		103.85	
Mean	104.04	104.01	104.26	104.63	105.07	104.78	104.47	104.35	104.20	104.12	104.05	103.94	
Max	104.10	104.03	104.88	106.70	106.87	106.84	105.43	104.70	104.25	104.15	104.07	104.01	106.87
Min	104.02	104.00	104.01	104.18	104.41	104.48	104.30	104.20	104.15	104.10	104.02	103.85	103.85

Annual Max Momentary Gage Height	108.05	m. (MSL.) ,	at 06.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	104.35	m. (MSL.) ,	River Bed	103.79	m. (MSL.)
Left Bank Elevation	109.94	m. (MSL.) ,			
Right Bank Elevation	107.89	m. (MSL.) ,	Drainage Area	174	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.00	0.08	0.40	2.45	8.85	2.60	0.70	0.55	0.30	0.14	0.02		
2	0.04	0.00	0.10	0.38	2.75	10.00	2.00	0.70	0.55	0.30	0.14	0.02		
3	0.04	0.00	0.10	0.38	2.00	8.62	1.68	0.61	0.55	0.30	0.12	0.00		
4	0.04	0.00	0.10	0.36	1.28	8.16	2.45	2.75	0.55	0.30	0.12	0.00		
5	0.04	0.00	0.12	0.36	19.64	7.93	2.00	3.05	0.55	0.30	0.12	0.00		
6	0.04	0.00	0.12	0.36	65.84	7.70	1.60	4.50	0.52	0.30	0.10	0.00		
7	0.04	0.00	0.12	0.36	16.78	7.93	1.60	5.50	0.52	0.28	0.10	0.00		
8	0.04	0.00	0.14	0.36	12.30	11.15	1.52	3.50	0.52	0.28	0.10	0.00		
9	0.04	0.00	0.04	0.36	6.60	6.60	1.44	2.75	0.52	0.28	0.10	0.00		
10	0.04	0.00	0.08	0.36	8.85	4.70	1.36	2.00	0.52	0.28	0.10	0.00		
11	0.04	0.00	0.06	0.55	11.61	4.10	1.28	1.60	0.49	0.26	0.14	0.00		
12	0.04	0.00	0.04	0.55	13.50	3.05	1.20	1.44	0.46	0.26	0.14	0.00		
13	0.04	0.00	0.02	3.35	14.70	2.45	1.15	1.20	0.46	0.26	0.12	0.00		
14	0.04	0.00	0.02	10.23	8.85	3.20	1.10	1.10	0.43	0.26	0.12	0.00		
15	0.10	0.00	9.54	60.50	13.50	3.70	1.05	1.05	0.43	0.24	0.12	0.00		
16	0.10	0.00	3.35	28.66	16.00	64.88	0.90	0.85	0.40	0.24	0.10	0.00		
17	0.12	0.00	4.50	4.30	7.70	11.15	0.80	0.70	0.40	0.24	0.10	0.00		
18	0.14	0.00	3.20	11.15	7.26	7.93	0.75	0.49	0.40	0.24	0.10	0.00		
19	0.16	0.00	2.45	7.70	4.70	6.82	0.75	0.46	0.38	0.24	0.10	0.00		
20	0.20	0.00	2.15	2.75	11.84	6.16	0.70	0.46	0.38	0.24	0.10	0.00		
21	0.20	0.00	1.44	2.00	13.26	4.10	1.36	0.43	0.36	0.22	0.08	0.00		
22	0.18	0.00	1.28	3.50	43.10	3.70	2.15	0.43	0.36	0.22	0.08	0.00		
23	0.16	0.00	1.15	8.16	14.70	2.60	9.77	0.40	0.36	0.22	0.08	0.00		
24	0.10	0.02	1.05	8.85	9.31	2.15	23.34	0.40	0.34	0.22	0.06	0.00		
25	0.10	0.02	0.55	5.50	5.10	1.84	4.70	0.46	0.34	0.22	0.06	0.00		
26	0.08	0.04	0.55	22.78	9.31	4.90	1.84	0.46	0.32	0.20	0.06	0.00		
27	0.08	0.04	0.61	6.60	10.92	7.26	1.36	0.46	0.32	0.20	0.04	0.00		
28	0.06	0.04	0.85	10.00	22.24	4.90	1.20	0.46	0.32	0.20	0.04	0.00		
29	0.06	0.04	0.90	3.50	56.00	3.90	0.85	0.55	0.30	0.20		0.00		
30	0.04	0.06	1.36	3.70	16.52	3.50	0.85	0.55	0.30	0.20		0.00		
31		0.06		3.50	14.96		1.44		0.30	0.20		0.00		
Total	2.44	0.32	36.07	211.51	463.57	233.93	76.79	40.01	13.20	7.70	2.78	0.04	1088.36	CMSDAY
Mean	0.08	0.01	1.20	6.82	14.95	7.80	2.48	1.33	0.43	0.25	0.10	0.00	2.98	CMS
Max	0.20	0.06	9.54	60.50	65.84	64.88	23.34	5.50	0.55	0.30	0.14	0.02	65.84	CMS
Min	0.04	0.00	0.02	0.36	1.28	1.84	0.70	0.40	0.30	0.20	0.04	0.00	0.00	CMS
Runoff	0.21	0.03	3.12	18.27	40.05	20.21	6.64	3.46	1.14	0.67	0.24	0.00	94.03	MCM

Momentary Peak 106.20 CMS. at 108.05 m. (MSL.) at 06.00 Hours , on Sep 16 , 2014

Runoff Yield 17.14 Liters/Second/Square KM. Momentary Peak Yield 610.345 Liters/Second/Square KM.

WATER YEAR : 2014

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.

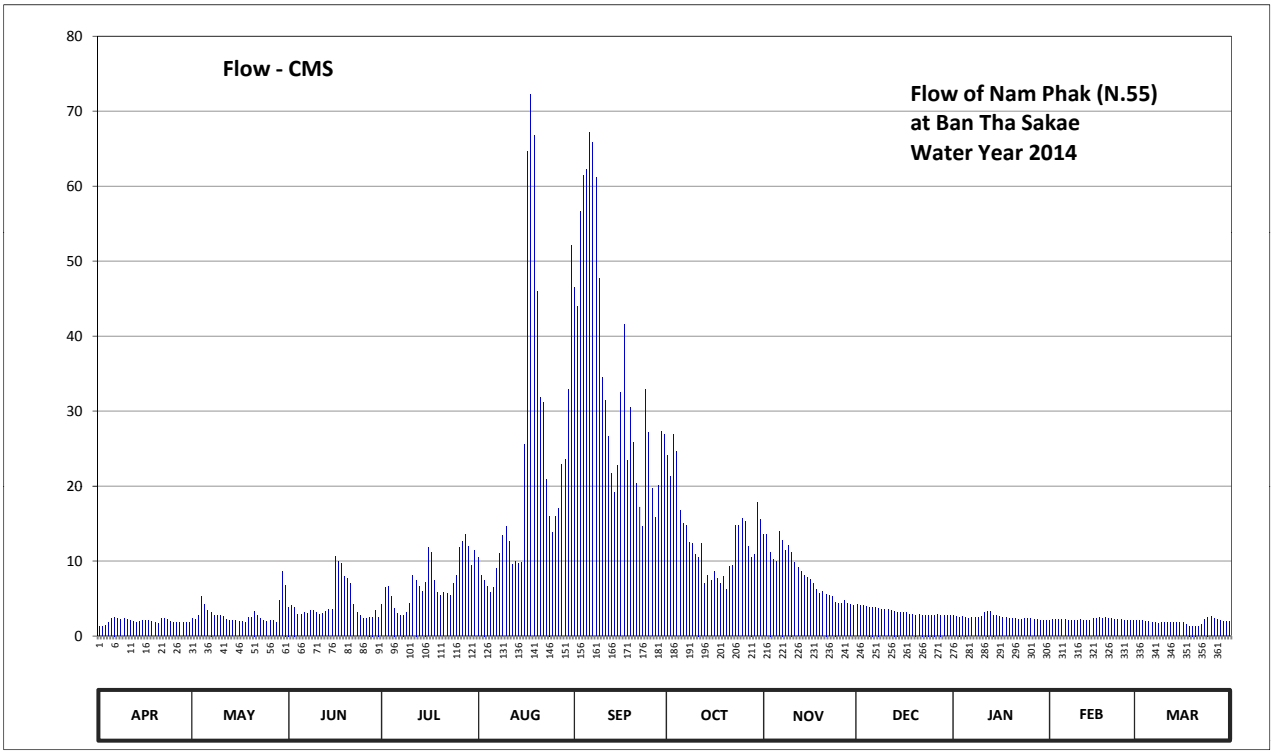
Ban Tha Sakae **Amphoe** Chat Trakan **Changwat** Phitsanulok

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 Flot	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.21	183.36	183.57	183.62	184.36	187.04	185.59	184.68	183.62	183.41	183.33	183.33	
2	183.21	183.35	183.60	183.91	184.10	186.89	185.38	184.68	183.60	183.40	183.34	183.32	
3	183.23	183.42	183.57	183.92	184.03	187.59	185.79	184.44	183.59	183.39	183.35	183.32	
4	183.28	183.76	183.44	183.76	183.92	187.83	185.63	184.34	183.58	183.40	183.35	183.31	
5	183.36	183.62	183.44	183.55	183.82	187.87	184.98	184.30	183.57	183.39	183.35	183.30	
6	183.39	183.51	183.47	183.45	183.91	188.12	184.82	184.71	183.57	183.37	183.34	183.29	
7	183.36	183.48	183.45	183.42	184.20	188.05	184.79	184.60	183.56	183.38	183.33	183.28	
8	183.34	183.42	183.51	183.43	184.42	187.82	184.57	184.46	183.55	183.38	183.32	183.27	
9	183.36	183.42	183.51	183.47	184.66	187.11	184.55	184.53	183.53	183.38	183.33	183.29	
10	183.34	183.42	183.47	183.63	184.78	186.33	184.41	184.44	183.53	183.40	183.33	183.29	
11	183.32	183.40	183.44	184.10	184.58	186.12	184.37	184.29	183.52	183.47	183.34	183.29	
12	183.30	183.34	183.46	184.03	184.26	185.77	184.55	184.21	183.51	183.50	183.33	183.28	
13	183.28	183.32	183.49	183.92	184.31	185.41	183.97	184.15	183.50	183.49	183.33	183.28	
14	183.31	183.33	183.53	183.84	184.28	185.19	184.10	184.09	183.48	183.43	183.33	183.29	
15	183.33	183.32	183.52	184.00	184.29	185.49	184.02	184.07	183.47	183.42	183.36	183.29	
16	183.33	183.31	184.38	184.50	185.70	186.19	184.16	184.04	183.47	183.40	183.37	183.28	
17	183.32	183.30	184.31	184.43	187.99	186.75	184.05	183.98	183.47	183.38	183.38	183.25	
18	183.30	183.29	184.27	184.02	188.37	185.54	183.97	183.87	183.44	183.38	183.36	183.22	
19	183.28	183.38	184.08	183.82	188.10	186.05	184.08	183.81	183.44	183.37	183.38	183.22	
20	183.27	183.38	184.05	183.77	187.01	185.72	183.88	183.84	183.43	183.36	183.37	183.22	
21	183.36	183.50	183.98	183.82	186.15	185.30	184.23	183.80	183.44	183.36	183.36	183.21	
22	183.37	183.42	183.61	183.81	186.10	185.02	184.24	183.77	183.43	183.35	183.35	183.25	
23	183.35	183.37	183.47	183.78	185.34	184.78	184.79	183.75	183.43	183.35	183.35	183.34	
24	183.31	183.32	183.42	183.98	184.91	186.22	184.79	183.66	183.43	183.36	183.34	183.39	
25	183.29	183.30	183.37	184.10	184.70	185.81	184.88	183.63	183.43	183.36	183.33	183.40	
26	183.29	183.32	183.37	184.50	184.90	185.24	184.84	183.64	183.43	183.36	183.33	183.37	
27	183.29	183.33	183.39	184.58	185.00	184.89	184.51	183.68	183.44	183.35	183.33	183.34	
28	183.28	183.28	183.39	184.68	185.50	185.27	184.37	183.64	183.43	183.34	183.32	183.32	
29	183.28	183.69	183.51	184.51	185.55	185.82	184.41	183.61	183.42	183.33		183.31	
30	183.28	184.16	183.39	184.25	186.22	185.79	185.07	183.60	183.41	183.33		183.30	
31		183.95		184.46	187.35		184.87		183.41	183.33		183.30	
Mean	183.31	183.44	183.62	183.97	185.25	186.23	184.60	184.08	183.49	183.38	183.34	183.30	
Max	183.39	184.16	184.38	184.68	188.37	188.12	185.79	184.71	183.62	183.50	183.38	183.40	188.37
Min	183.21	183.28	183.37	183.42	183.82	184.78	183.88	183.60	183.41	183.33	183.32	183.21	183.21

Annual Max Momentary Gage Height	188.44	m. (MSL.) ,	at 15.00 Hours , on Aug 18 , 2014		
Zero Gage at Bottom Elevation	182.83	m. (MSL.) ,	River Bed	182.93	m. (MSL.)
Left Bank Elevation	192.26	m. (MSL.) ,			
Right Bank Elevation	191.19	m. (MSL.) ,	Drainage Area	971	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.27	2.32	3.88	4.25	10.44	46.48	24.07	13.60	4.25	2.68	2.11	2.11		
2	1.27	2.25	4.10	6.48	8.10	43.93	21.36	13.60	4.10	2.60	2.18	2.04		
3	1.41	2.75	3.88	6.56	7.47	56.61	26.86	11.20	4.02	2.53	2.25	2.04		
4	1.76	5.30	2.90	5.30	6.56	61.40	24.62	10.26	3.95	2.60	2.25	1.97		
5	2.32	4.25	2.90	3.73	5.76	62.20	16.78	9.90	3.88	2.53	2.25	1.90		
6	2.53	3.42	3.13	2.98	6.48	67.20	15.02	13.90	3.88	2.39	2.18	1.83		
7	2.32	3.20	2.98	2.75	9.00	65.80	14.70	12.80	3.80	2.46	2.11	1.76		
8	2.18	2.75	3.42	2.82	11.00	61.20	12.50	11.40	3.73	2.46	2.04	1.69		
9	2.32	2.75	3.42	3.13	13.40	47.67	12.30	12.10	3.58	2.46	2.11	1.83		
10	2.18	2.75	3.13	4.33	14.60	34.55	10.90	11.20	3.58	2.60	2.11	1.83		
11	2.04	2.60	2.90	8.10	12.60	31.48	10.53	9.81	3.50	3.13	2.18	1.83		
12	1.90	2.18	3.05	7.47	9.54	26.58	12.30	9.09	3.42	3.35	2.11	1.76		
13	1.76	2.04	3.28	6.56	9.99	21.73	6.96	8.55	3.35	3.28	2.11	1.76		
14	1.97	2.11	3.58	5.92	9.72	19.09	8.10	8.01	3.20	2.82	2.11	1.83		
15	2.11	2.04	3.50	7.20	9.81	22.77	7.38	7.83	3.13	2.75	2.32	1.83		
16	2.11	1.97	10.62	11.80	25.60	32.46	8.64	7.56	3.13	2.60	2.39	1.76		
17	2.04	1.90	9.99	11.10	64.60	41.55	7.65	7.04	3.13	2.46	2.46	1.55		
18	1.90	1.83	9.63	7.38	72.20	23.42	6.96	6.16	2.90	2.46	2.32	1.34		
19	1.76	2.46	7.92	5.76	66.80	30.50	7.92	5.68	2.90	2.39	2.46	1.34		
20	1.69	2.46	7.65	5.38	45.97	25.88	6.24	5.92	2.82	2.32	2.39	1.34		
21	2.32	3.35	7.04	5.76	31.90	20.40	9.27	5.60	2.90	2.32	2.32	1.27		
22	2.39	2.75	4.18	5.68	31.20	17.22	9.36	5.38	2.82	2.25	2.25	1.55		
23	2.25	2.39	3.13	5.45	20.88	14.60	14.70	5.22	2.82	2.25	2.25	2.18		
24	1.97	2.04	2.75	7.04	16.01	32.90	14.70	4.55	2.82	2.32	2.18	2.53		
25	1.83	1.90	2.39	8.10	13.80	27.14	15.68	4.33	2.82	2.32	2.11	2.60		
26	1.83	2.04	2.39	11.80	15.90	19.68	15.24	4.40	2.82	2.32	2.11	2.39		
27	1.83	2.11	2.53	12.60	17.00	15.79	11.90	4.70	2.90	2.25	2.11	2.18		
28	1.76	1.76	2.53	13.60	22.90	20.04	10.53	4.40	2.82	2.18	2.04	2.04		
29	1.76	4.78	3.42	11.90	23.55	27.28	10.90	4.18	2.75	2.11		1.97		
30	1.76	8.64	2.53	9.45	32.90	26.86	17.77	4.10	2.68	2.11		1.90		
31		6.80		11.40	52.05		15.57		2.68	2.11		1.90		
Total	58.54	91.89	128.75	221.78	697.73	1044.41	407.41	242.47	101.08	77.41	61.81	57.85	3191.13	CMSDAY
Mean	1.95	2.96	4.29	7.15	22.51	34.81	13.14	8.08	3.26	2.50	2.21	1.87	8.74	CMS
Max	2.53	8.64	10.62	13.60	72.20	67.20	26.86	13.90	4.25	3.35	2.46	2.60	72.20	CMS
Min	1.27	1.76	2.39	2.75	5.76	14.60	6.24	4.10	2.68	2.11	2.04	1.27	1.27	CMS
Runoff	5.06	7.94	11.12	19.16	60.28	90.24	35.20	20.95	8.73	6.69	5.34	5.00	275.71	MCM

Momentary Peak 73.64 CMS. at 188.44 m. (MSL.) at 15.00 Hours , on Aug 18 , 2014

Runoff Yield 9.00 Liters/Second/Square KM. Momentary Peak Yield 75.839 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nam Fua at Ban Nam Fua , Phitsanulok (N.58)

Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

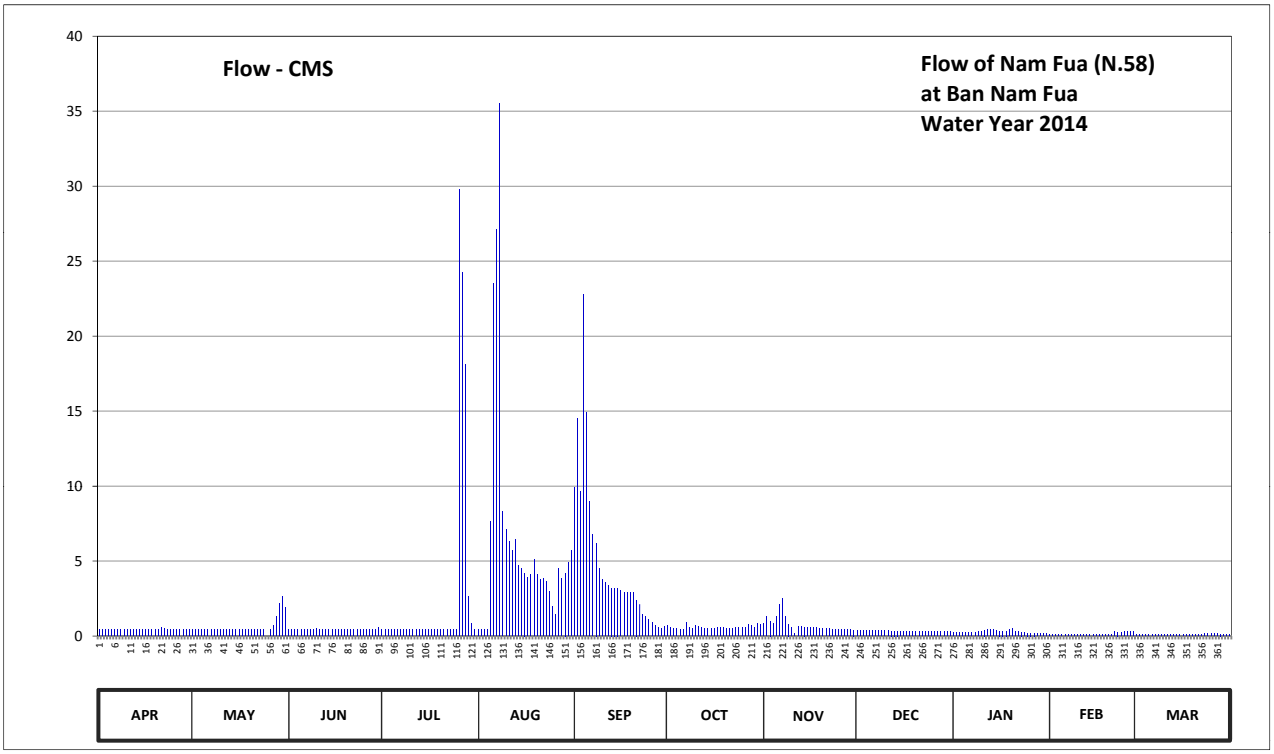
Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	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 Flot	-				
Rated by Current Meter	1996 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.36	209.36	209.36	209.36	209.36	210.44	209.42	209.45	209.62	209.52	209.36	209.36	
2	209.36	209.36	209.36	209.36	209.36	210.78	209.40	209.53	209.62	209.52	209.36	209.36	
3	209.36	209.36	209.36	209.36	209.36	210.42	209.38	209.48	209.62	209.52	209.36	209.36	
4	209.36	209.36	209.36	209.36	209.36	211.30	209.38	209.45	209.62	209.52	209.36	209.36	
5	209.36	209.36	209.36	209.36	210.24	210.81	209.36	209.53	209.62	209.52	209.36	209.36	
6	209.36	209.36	209.36	209.36	211.34	210.36	209.36	209.66	209.62	209.52	209.36	209.36	
7	209.36	209.36	209.36	209.36	211.54	210.16	209.46	209.71	209.61	209.52	209.36	209.36	
8	209.36	209.36	209.36	209.36	211.96	210.11	209.39	209.53	209.61	209.52	209.36	209.36	
9	209.36	209.36	209.36	209.36	210.30	209.94	209.38	209.44	209.61	209.56	209.36	209.36	
10	209.36	209.36	209.37	209.36	210.19	209.86	209.42	209.40	209.61	209.56	209.36	209.36	
11	209.36	209.36	209.36	209.36	210.12	209.84	209.41	209.45	209.61	209.63	209.36	209.36	
12	209.36	209.36	209.36	209.36	210.06	209.82	209.39	209.73	209.60	209.65	209.36	209.36	
13	209.36	209.36	209.36	209.36	210.13	209.80	209.38	209.73	209.60	209.65	209.36	209.36	
14	209.36	209.36	209.36	209.36	209.96	209.80	209.38	209.72	209.60	209.65	209.36	209.36	
15	209.36	209.36	209.36	209.36	209.94	209.80	209.37	209.71	209.59	209.61	209.36	209.36	
16	209.36	209.36	209.36	209.36	209.91	209.78	209.37	209.70	209.58	209.60	209.36	209.36	
17	209.36	209.36	209.36	209.36	209.88	209.76	209.39	209.70	209.58	209.60	209.36	209.36	
18	209.36	209.36	209.36	209.36	209.90	209.76	209.39	209.70	209.58	209.60	209.36	209.36	
19	209.36	209.36	209.36	209.36	210.00	209.76	209.39	209.67	209.57	209.65	209.36	209.36	
20	209.36	209.36	209.36	209.36	209.90	209.76	209.38	209.68	209.57	209.67	209.36	209.36	
21	209.39	209.36	209.36	209.36	209.86	209.70	209.38	209.67	209.57	209.59	209.39	209.36	
22	209.38	209.36	209.36	209.36	209.87	209.66	209.37	209.67	209.57	209.56	209.56	209.42	
23	209.36	209.36	209.36	209.36	209.85	209.56	209.40	209.66	209.57	209.54	209.54	209.46	
24	209.36	209.36	209.36	209.36	209.77	209.53	209.39	209.66	209.59	209.52	209.53	209.48	
25	209.36	209.19	209.36	209.36	209.64	209.50	209.39	209.66	209.57	209.50	209.57	209.48	
26	209.36	209.36	209.36	211.68	209.56	209.46	209.40	209.65	209.58	209.50	209.58	209.46	
27	209.36	209.42	209.36	211.38	209.94	209.42	209.43	209.65	209.58	209.50	209.57	209.45	
28	209.36	209.53	209.36	211.02	209.87	209.40	209.42	209.64	209.57	209.49	209.57	209.44	
29	209.36	209.67	209.36	209.73	209.91	209.37	209.40	209.64	209.57	209.49		209.43	
30	209.36	209.73	209.39	209.45	209.98	209.41	209.45	209.63	209.56	209.48		209.42	
31		209.63		209.36	210.06		209.43		209.56	209.48		209.42	
Mean	209.36	209.39	209.36	209.57	210.04	209.90	209.40	209.62	209.59	209.56	209.41	209.39	
Max	209.39	209.73	209.39	211.68	211.96	211.30	209.46	209.73	209.62	209.67	209.58	209.48	211.96
Min	209.36	209.19	209.36	209.36	209.36	209.37	209.36	209.40	209.56	209.48	209.36	209.36	209.19

Annual Max Momentary Gage Height	212.36	m. (MSL.) ,	at 06.00 Hours , on Aug 8 , 2014		
Zero Gage at Bottom Elevation	208.36	m. (MSL.) ,	River Bed	208.86	m. (MSL.)
Left Bank Elevation	214.90	m. (MSL.) ,			
Right Bank Elevation	214.90	m. (MSL.) ,	Drainage Area	317	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.44	0.44	0.44	0.44	0.44	9.88	0.70	0.85	0.38	0.23	0.08	0.08		
2	0.44	0.44	0.44	0.44	0.44	14.52	0.60	1.28	0.38	0.23	0.08	0.08		
3	0.44	0.44	0.44	0.44	0.44	9.64	0.52	1.00	0.38	0.23	0.08	0.08		
4	0.44	0.44	0.44	0.44	0.44	22.80	0.52	0.85	0.38	0.23	0.08	0.08		
5	0.44	0.44	0.44	0.44	7.64	14.95	0.44	1.28	0.38	0.23	0.08	0.08		
6	0.44	0.44	0.44	0.44	23.52	8.96	0.44	2.12	0.38	0.23	0.08	0.08		
7	0.44	0.44	0.44	0.44	27.12	6.76	0.90	2.48	0.36	0.23	0.08	0.08		
8	0.44	0.44	0.44	0.44	35.52	6.21	0.56	1.28	0.36	0.23	0.08	0.08		
9	0.44	0.44	0.44	0.44	8.30	4.50	0.52	0.80	0.36	0.28	0.08	0.08		
10	0.44	0.44	0.48	0.44	7.09	3.74	0.70	0.60	0.36	0.28	0.08	0.08		
11	0.44	0.44	0.44	0.44	6.32	3.56	0.65	0.15	0.36	0.40	0.08	0.08		
12	0.44	0.44	0.44	0.44	5.70	3.38	0.56	0.64	0.34	0.44	0.08	0.08		
13	0.44	0.44	0.44	0.44	6.43	3.20	0.52	0.64	0.34	0.44	0.08	0.08		
14	0.44	0.44	0.44	0.44	4.70	3.20	0.52	0.61	0.34	0.44	0.08	0.08		
15	0.44	0.44	0.44	0.44	4.50	3.20	0.48	0.57	0.33	0.36	0.08	0.08		
16	0.44	0.44	0.44	0.44	4.20	3.04	0.48	0.54	0.31	0.34	0.08	0.08		
17	0.44	0.44	0.44	0.44	3.92	2.88	0.56	0.54	0.31	0.34	0.08	0.08		
18	0.44	0.44	0.44	0.44	4.10	2.88	0.56	0.54	0.31	0.34	0.08	0.08		
19	0.44	0.44	0.44	0.44	5.10	2.88	0.56	0.48	0.30	0.44	0.08	0.08		
20	0.44	0.44	0.44	0.44	4.10	2.88	0.52	0.50	0.30	0.48	0.08	0.08		
21	0.56	0.44	0.44	0.44	3.74	2.40	0.52	0.48	0.30	0.33	0.10	0.08		
22	0.52	0.44	0.44	0.44	3.83	2.12	0.48	0.48	0.30	0.28	0.28	0.12		
23	0.44	0.44	0.44	0.44	3.65	1.46	0.60	0.46	0.30	0.26	0.26	0.16		
24	0.44	0.44	0.44	0.44	2.96	1.28	0.56	0.46	0.33	0.23	0.24	0.18		
25	0.44	0.00	0.44	0.44	1.98	1.10	0.56	0.46	0.30	0.20	0.30	0.18		
26	0.44	0.44	0.44	29.80	1.46	0.90	0.60	0.44	0.31	0.20	0.31	0.16		
27	0.44	0.70	0.44	24.24	4.50	0.70	0.75	0.44	0.31	0.20	0.30	0.15		
28	0.44	1.28	0.44	18.12	3.83	0.60	0.70	0.42	0.30	0.19	0.30	0.14		
29	0.44	2.19	0.44	2.64	4.20	0.48	0.60	0.42	0.30	0.19		0.13		
30	0.44	2.64	0.56	0.85	4.90	0.65	0.85	0.40	0.28	0.18		0.12		
31		1.91		0.44	5.70		0.75		0.28	0.18		0.12		
Total	13.40	19.72	13.36	87.09	200.77	144.75	18.28	22.21	10.27	8.86	3.69	3.14	545.54	CMSDAY
Mean	0.45	0.64	0.45	2.81	6.48	4.82	0.59	0.74	0.33	0.29	0.13	0.10	1.49	CMS
Max	0.56	2.64	0.56	29.80	35.52	22.80	0.90	2.48	0.38	0.48	0.31	0.18	35.52	CMS
Min	0.44	0.00	0.44	0.44	0.44	0.48	0.44	0.15	0.28	0.18	0.08	0.08	0.00	CMS
Runoff	1.16	1.70	1.15	7.53	17.35	12.51	1.58	1.92	0.89	0.77	0.32	0.27	47.14	MCM

Momentary Peak 44.48 CMS. at 212.36 m. (MSL.) at 06.00 Hours , on Aug 8 , 2014

Runoff Yield 4.71 Liters/Second/Square KM. Momentary Peak Yield 140.315 Liters/Second/Square KM.

WATER YEAR : 2014

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

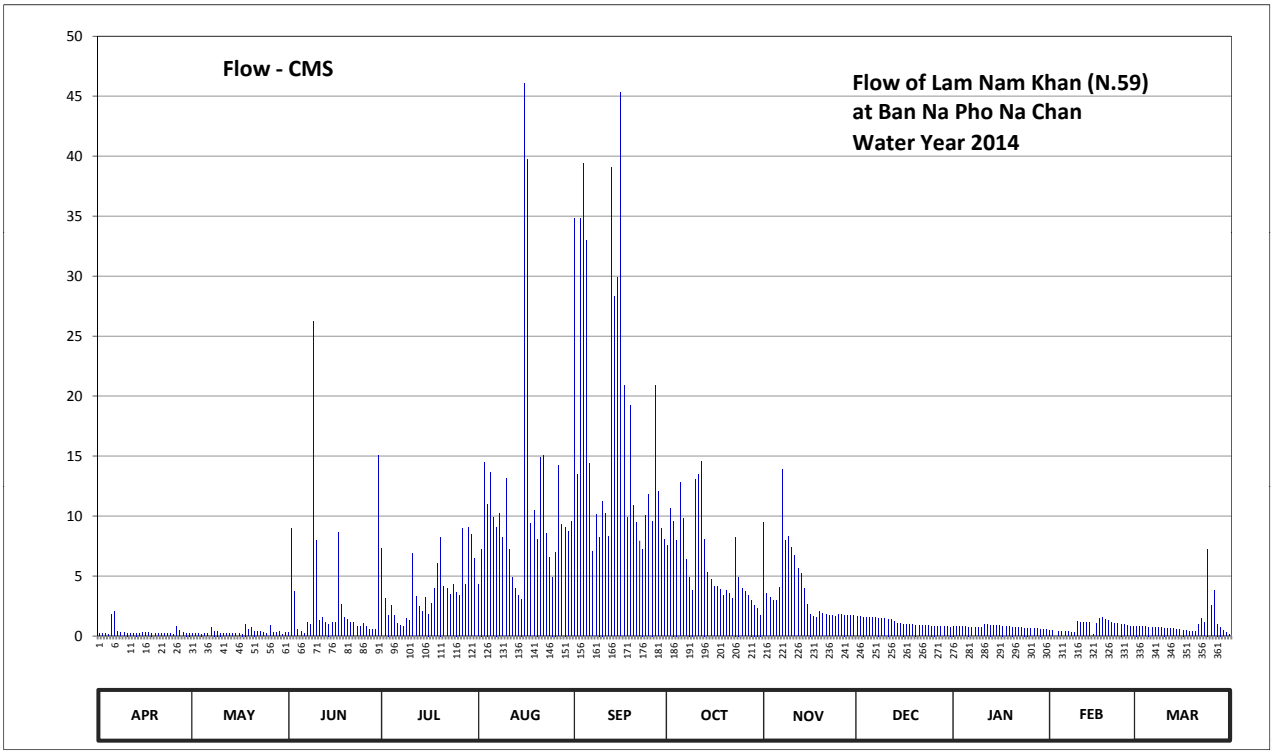
Location : on left bank at Ban Na Pho Na Chan.

	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	5-time daily readings at 06.00, 09.00, 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 Flot	-				
Rated by Current Meter	1996 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	200.51	200.49	200.58	202.94	202.23	205.13	202.99	203.36	201.27	200.87	200.67	200.87	
2	200.50	200.48	203.26	201.85	202.93	203.88	203.54	201.99	201.25	200.86	200.67	200.86	
3	200.48	200.48	202.03	201.33	203.99	205.13	203.38	201.86	201.24	200.86	200.16	200.85	
4	200.46	200.47	200.73	201.65	203.60	205.29	203.08	201.79	201.23	200.85	200.65	200.84	
5	201.34	200.48	200.63	201.32	203.90	205.06	203.81	201.78	201.23	200.84	200.64	200.83	
6	201.47	200.53	200.54	200.98	203.43	203.98	203.41	202.16	201.22	200.83	200.63	200.82	
7	200.64	200.79	201.01	200.89	203.29	202.89	202.74	203.93	201.21	200.82	200.62	200.81	
8	200.57	200.66	200.93	200.84	203.48	203.47	202.38	203.07	201.20	200.82	200.61	200.80	
9	200.56	200.66	204.76	201.17	203.12	203.13	202.08	203.14	201.19	200.81	200.60	200.79	
10	200.55	200.55	203.07	201.10	203.85	203.63	203.84	202.96	201.18	200.80	201.06	200.78	
11	200.54	200.53	201.11	202.86	202.92	203.48	203.88	202.83	201.16	200.93	201.03	200.77	
12	200.53	200.51	201.21	201.89	202.37	203.14	204.00	202.55	201.12	200.92	201.02	200.76	
13	200.55	200.50	201.03	201.63	202.13	205.28	203.10	202.45	201.05	200.91	201.01	200.75	
14	200.54	200.51	200.95	201.45	201.93	204.86	202.48	202.13	200.98	200.90	201.00	200.73	
15	200.56	200.53	201.00	201.86	201.83	204.93	202.33	201.68	200.96	200.89	200.44	200.72	
16	200.58	200.52	201.01	201.37	205.49	205.47	202.17	201.37	200.95	200.88	200.99	200.70	
17	200.57	200.47	203.20	201.71	205.30	204.47	202.18	201.27	200.94	200.87	201.19	200.68	
18	200.55	200.95	201.68	202.13	203.34	203.43	202.10	201.22	200.93	200.86	201.22	200.65	
19	200.54	200.73	201.21	202.67	203.52	204.36	201.93	201.45	200.92	200.85	201.12	200.64	
20	200.54	200.80	201.12	203.13	203.10	203.58	202.07	201.39	200.91	200.83	201.10	200.63	
21	200.53	200.66	201.03	202.18	204.03	203.36	201.99	201.35	200.90	200.81	201.03	200.92	
22	200.52	200.63	201.01	202.13	204.04	203.07	201.85	201.32	200.89	200.80	200.97	201.17	
23	200.51	200.64	200.85	201.95	203.19	202.93	203.13	201.31	200.88	200.79	200.96	201.02	
24	200.51	200.56	200.84	202.23	202.79	203.45	202.38	201.27	200.88	200.78	200.95	202.93	
25	200.43	200.52	200.98	202.02	202.38	203.69	202.13	201.35	200.87	200.78	200.93	201.64	
26	200.86	200.89	200.85	201.93	202.88	203.38	202.03	201.34	200.87	200.77	200.88	202.06	
27	200.69	200.58	200.73	203.26	203.96	204.47	201.92	201.33	200.86	200.76	200.86	200.95	
28	200.56	200.57	200.71	202.23	203.33	203.72	201.80	201.32	200.85	200.75	200.86	200.83	
29	200.55	200.65	200.71	203.28	203.29	203.27	201.66	201.31	200.84	200.74		200.69	
30	200.55	200.43	204.04	203.18	203.22	203.09	201.57	201.31	200.84	200.73		200.58	
31		200.58		202.76	203.37		201.33		200.83	200.73		200.42	
Mean	200.61	200.59	201.43	202.00	203.30	203.97	202.56	201.92	201.02	200.83	200.85	200.92	
Max	201.47	200.95	204.76	203.28	205.49	205.47	204.00	203.93	201.27	200.93	201.22	202.93	205.49
Min	200.43	200.43	200.54	200.84	201.83	202.89	201.33	201.22	200.83	200.73	200.16	200.42	200.16

Annual Max Momentary Gage Height	206.44	m. (MSL.) ,	at 18.00 Hours , on Aug 16 , 2014		
Zero Gage at Bottom Elevation	197.68	m. (MSL.) ,	River Bed	200.26	m. (MSL.)
Left Bank Elevation	207.61	m. (MSL.) ,			
Right Bank Elevation	207.61	m. (MSL.) ,	Drainage Area	415	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.21	0.19	0.28	7.30	4.32	34.78	7.55	9.48	1.64	0.84	0.44	0.84		
2	0.20	0.18	8.93	3.15	7.25	13.46	10.61	3.57	1.60	0.82	0.44	0.82		
3	0.18	0.18	3.69	1.76	14.51	34.78	9.59	3.18	1.58	0.82	0.00	0.80		
4	0.16	0.17	0.56	2.55	11.00	39.39	8.00	2.97	1.56	0.80	0.40	0.78		
5	1.78	0.18	0.36	1.74	13.65	32.96	12.79	2.94	1.56	0.78	0.38	0.76		
6	2.08	0.23	0.24	1.06	9.89	14.41	9.77	4.08	1.54	0.76	0.36	0.74		
7	0.38	0.68	1.12	0.88	9.09	7.05	6.36	13.93	1.52	0.74	0.34	0.72		
8	0.27	0.42	0.96	0.78	10.22	10.16	4.92	7.95	1.50	0.74	0.32	0.70		
9	0.26	0.42	26.20	1.44	8.20	8.25	3.84	8.30	1.48	0.72	0.30	0.68		
10	0.25	0.25	7.95	1.30	13.18	11.25	13.08	7.40	1.46	0.70	1.22	0.66		
11	0.24	0.23	1.32	6.90	7.20	10.22	13.46	6.75	1.42	0.96	1.16	0.64		
12	0.23	0.21	1.52	3.27	4.88	8.30	14.60	5.60	1.34	0.94	1.14	0.62		
13	0.25	0.20	1.16	2.49	3.99	39.08	8.10	5.20	1.20	0.92	1.12	0.60		
14	0.24	0.21	1.00	2.03	3.39	28.32	5.32	3.99	1.06	0.90	1.10	0.56		
15	0.26	0.23	1.10	3.18	3.09	29.86	4.72	2.64	1.02	0.88	0.14	0.54		
16	0.28	0.22	1.12	1.84	46.04	45.32	4.11	1.84	1.00	0.86	1.08	0.50		
17	0.27	0.17	8.60	2.73	39.70	20.92	4.14	1.64	0.98	0.84	1.48	0.46		
18	0.25	1.00	2.64	3.99	9.37	9.89	3.90	1.54	0.96	0.82	1.54	0.40		
19	0.24	0.56	1.52	6.08	10.48	19.22	3.39	2.03	0.94	0.80	1.34	0.38		
20	0.24	0.70	1.34	8.25	8.10	10.87	3.81	1.88	0.92	0.76	1.30	0.36		
21	0.23	0.42	1.16	4.14	14.94	9.48	3.57	1.80	0.90	0.72	1.16	0.94		
22	0.22	0.36	1.12	3.99	15.06	7.95	3.15	1.74	0.88	0.70	1.04	1.44		
23	0.21	0.38	0.80	3.45	8.55	7.25	8.25	1.72	0.86	0.68	1.02	1.14		
24	0.21	0.26	0.78	4.32	6.56	10.02	4.92	1.64	0.86	0.66	1.00	7.25		
25	0.13	0.22	1.06	3.66	4.92	11.76	3.99	1.80	0.84	0.66	0.96	2.52		
26	0.82	0.88	0.80	3.39	7.00	9.59	3.69	1.78	0.84	0.64	0.86	3.78		
27	0.48	0.28	0.56	8.93	14.22	20.92	3.36	1.76	0.82	0.62	0.82	1.00		
28	0.26	0.27	0.52	4.32	9.32	12.02	3.00	1.74	0.80	0.60	0.82	0.76		
29	0.25	0.40	0.52	9.04	9.09	8.99	2.58	1.72	0.78	0.58		0.48		
30	0.25	0.13	15.06	8.50	8.71	8.05	2.33	1.72	0.78	0.56		0.28		
31		0.28		6.44	9.54		1.76		0.76	0.56		0.12		
Total	11.33	10.51	93.99	122.90	345.46	534.52	192.66	114.33	35.40	23.38	23.28	32.27	1540.03	CMSDAY
Mean	0.38	0.34	3.13	3.96	11.14	17.82	6.21	3.81	1.14	0.75	0.83	1.04	4.22	CMS
Max	2.08	1.00	26.20	9.04	46.04	45.32	14.60	13.93	1.64	0.96	1.54	7.25	46.04	CMS
Min	0.13	0.13	0.24	0.78	3.09	7.05	1.76	1.54	0.76	0.56	0.00	0.12	0.00	CMS
Runoff	0.98	0.91	8.12	10.62	29.85	46.18	16.65	9.88	3.06	2.02	2.01	2.79	133.06	MCM

Momentary Peak 110.32 CMS. at 206.44 m. (MSL.) at 18.00 Hours , on Aug 16 , 2014

Runoff Yield 10.17 Liters/Second/Square KM. Momentary Peak Yield 265.831 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 17 - 24 - 54 N Long 100 - 07 - 58 E

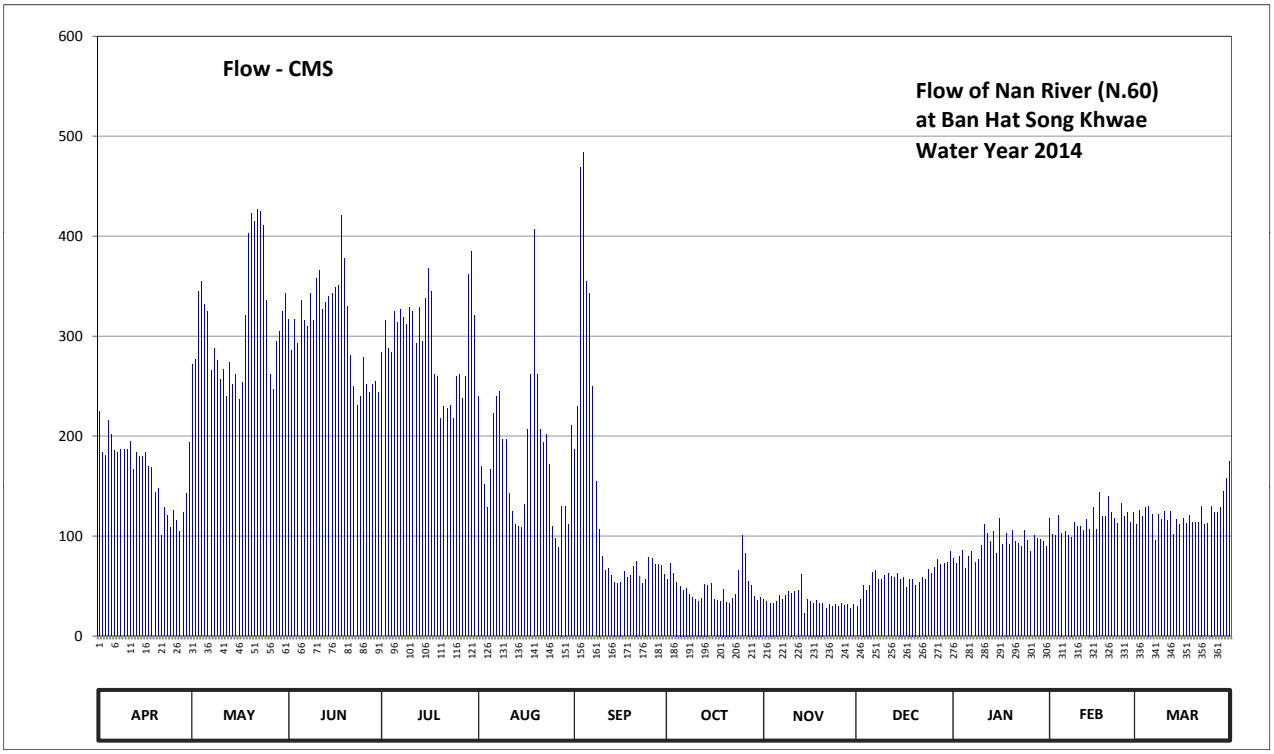
Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

	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 Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Sirikit Dam reservior.		
	Stage-discharge relation defined by 21 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.05	50.33	50.58	50.40	50.14	49.82	48.82	48.63	48.55	49.02	49.34	49.29	
2	49.80	50.36	50.41	50.57	49.71	50.08	48.98	48.61	48.63	48.98	49.22	49.40	
3	49.78	50.73	50.58	50.42	49.59	51.37	48.88	48.59	48.77	49.04	49.21	49.35	
4	50.00	50.78	50.45	50.40	49.42	51.44	48.80	48.59	48.72	49.09	49.36	49.42	
5	49.91	50.66	50.68	50.62	49.69	50.78	48.76	48.61	48.77	48.93	49.23	49.43	
6	49.81	50.62	50.57	50.56	50.04	50.72	48.72	48.67	48.89	49.04	49.24	49.37	
7	49.80	50.29	50.54	50.63	50.14	50.20	48.74	48.63	48.91	49.08	49.21	49.17	
8	49.82	50.42	50.72	50.59	50.17	49.61	48.68	48.67	48.82	48.99	49.20	49.37	
9	49.82	50.35	50.57	50.55	49.88	49.26	48.65	48.71	48.82	49.01	49.31	49.33	
10	49.82	50.24	50.80	50.64	49.88	49.04	48.63	48.69	48.86	49.13	49.28	49.39	
11	49.87	50.30	50.84	50.62	49.52	48.91	48.61	48.71	48.88	49.29	49.28	49.32	
12	49.69	50.14	50.63	50.45	49.39	48.93	48.64	48.72	48.85	49.23	49.25	49.39	
13	49.80	50.34	50.67	50.64	49.29	48.86	48.78	48.87	48.84	49.16	49.33	49.22	
14	49.77	50.21	50.70	50.46	49.28	48.80	48.77	48.47	48.88	49.24	49.26	49.33	
15	49.77	50.27	50.72	50.69	49.27	48.79	48.79	48.63	48.83	49.06	49.42	49.29	
16	49.80	50.12	50.75	50.85	49.44	48.80	48.63	48.61	48.84	49.34	49.26	49.34	
17	49.71	50.22	50.76	50.73	49.94	48.90	48.62	48.59	48.75	49.14	49.53	49.30	
18	49.70	50.60	51.12	50.27	50.27	48.84	48.61	48.62	48.83	49.23	49.35	49.36	
19	49.53	51.03	50.90	50.26	51.05	48.86	48.73	48.59	48.83	49.14	49.35	49.31	
20	49.56	51.13	50.65	50.01	50.27	48.95	48.60	48.59	48.77	49.25	49.50	49.31	
21	49.21	51.09	50.38	50.08	49.94	49.00	48.59	48.53	48.80	49.16	49.38	49.31	
22	49.42	51.15	50.20	50.07	49.86	48.86	48.64	48.57	48.84	49.15	49.34	49.43	
23	49.36	51.14	50.09	50.09	49.91	48.79	48.68	48.55	48.83	49.12	49.30	49.29	
24	49.27	51.07	50.14	50.01	49.72	48.83	48.91	48.57	48.92	49.25	49.45	49.30	
25	49.40	50.68	50.37	50.26	49.28	49.03	49.21	48.55	48.88	49.17	49.35	49.43	
26	49.32	50.27	50.21	50.27	49.19	49.02	49.06	48.59	48.94	49.08	49.38	49.38	
27	49.24	50.18	50.16	50.13	49.11	48.97	48.81	48.56	49.01	49.21	49.31	49.38	
28	49.38	50.46	50.21	50.26	49.43	48.97	48.77	48.57	48.97	49.19	49.38	49.42	
29	49.52	50.51	50.23	50.82	49.43	48.96	48.66	48.53	48.98	49.18		49.54	
30	49.86	50.62	50.16	50.94	49.29	48.87	48.62	48.57	48.99	49.16		49.63	
31		50.72		50.60	49.97		48.65		49.08	49.12		49.74	
Mean	49.66	50.55	50.53	50.45	49.73	49.34	48.74	48.61	48.85	49.13	49.32	49.37	
Max	50.05	51.15	51.12	50.94	51.05	51.44	49.21	48.87	49.08	49.34	49.53	49.74	51.44
Min	49.21	50.12	50.09	50.01	49.11	48.79	48.59	48.47	48.55	48.93	49.20	49.17	48.47

Annual Max Momentary Gage Height	51.59	m. (MSL.) ,	at 06.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	48.50	m. (MSL.) ,	River Bed	44.81	m. (MSL.)
Left Bank Elevation	60.33	m. (MSL.) ,			
Right Bank Elevation	59.84	m. (MSL.) ,	Drainage Area	18447	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	224.50	272.10	317.30	284.00	239.80	187.20	56.10	37.00	29.50	77.40	117.90	111.15		
2	184.00	277.20	285.85	315.45	170.05	229.60	72.90	35.00	37.00	72.90	101.70	126.00		
3	180.90	345.05	317.30	287.70	151.65	469.15	62.40	33.10	51.00	79.80	100.35	119.25		
4	216.00	354.30	293.25	284.00	128.70	483.20	54.00	33.10	46.00	85.80	120.60	128.70		
5	201.60	332.10	335.80	324.70	166.95	354.30	50.00	35.00	51.00	67.65	103.05	130.05		
6	185.60	324.70	315.45	313.60	222.80	343.20	46.00	41.00	63.45	79.80	104.40	121.95		
7	184.00	265.30	309.90	326.55	239.80	250.00	48.00	37.00	65.55	84.60	100.35	95.40		
8	187.20	287.70	343.20	319.15	244.90	154.55	42.00	41.00	56.10	73.95	99.00	121.95		
9	187.20	275.50	315.45	311.75	196.80	107.10	39.00	45.00	56.10	76.20	113.85	116.55		
10	187.20	256.80	358.00	328.40	196.80	79.80	37.00	43.00	60.30	90.60	109.80	124.65		
11	195.20	267.00	365.80	324.70	142.20	65.55	35.00	45.00	62.40	111.15	109.80	115.20		
12	166.95	239.80	326.55	293.25	124.65	67.65	38.00	46.00	59.25	103.05	105.75	124.65		
13	184.00	273.80	333.95	328.40	111.15	60.30	52.00	61.35	58.20	94.20	116.55	101.70		
14	179.35	251.70	339.50	295.10	109.80	54.00	51.00	22.30	62.40	104.40	107.10	116.55		
15	179.35	261.90	343.20	337.65	108.45	53.00	53.00	37.00	57.15	82.20	128.70	111.15		
16	184.00	236.40	348.75	367.75	131.40	54.00	37.00	35.00	58.20	117.90	107.10	117.90		
17	170.05	253.40	350.60	345.05	206.40	64.50	36.00	33.10	49.00	91.80	143.55	112.50		
18	168.50	321.00	420.40	261.90	261.90	58.20	35.00	36.00	57.15	103.05	119.25	120.60		
19	143.55	402.85	377.50	260.20	406.75	60.30	47.00	33.10	57.15	91.80	119.25	113.85		
20	147.60	422.35	330.25	217.70	261.90	69.75	34.00	33.10	51.00	105.75	139.50	113.85		
21	100.35	414.55	280.60	229.60	206.40	75.00	33.10	27.70	54.00	94.20	123.30	113.85		
22	128.70	426.25	250.00	227.90	193.60	60.30	38.00	31.30	58.20	93.00	117.90	130.05		
23	120.60	424.30	231.30	231.30	201.60	53.00	42.00	29.50	57.15	89.40	112.50	111.15		
24	108.45	410.65	239.80	217.70	171.60	57.15	65.55	31.30	66.60	105.75	132.75	112.50		
25	126.00	335.80	278.90	260.20	109.80	78.60	100.35	29.50	62.40	95.40	119.25	130.05		
26	115.20	261.90	251.70	261.90	97.80	77.40	82.20	33.10	68.70	84.60	123.30	123.30		
27	104.40	246.60	243.20	238.10	88.20	71.85	55.05	30.40	76.20	100.35	113.85	123.30		
28	123.30	295.10	251.70	260.20	130.05	71.85	51.00	31.30	71.85	97.80	123.30	128.70		
29	142.20	304.35	255.10	361.90	130.05	70.80	40.00	27.70	72.90	96.60		144.90		
30	193.60	324.70	243.20	385.30	111.15	61.35	36.00	31.30	73.95	94.20		157.65		
31		343.20		321.00	211.20		39.00		84.60	89.40		174.70		
Total	4919.55	9708.35	9253.50	9122.10	5474.30	3942.65	1507.65	1065.25	1834.45	2834.70	3233.70	3793.75	56689.95	CMSDAY
Mean	163.99	313.17	308.45	294.26	176.59	131.42	48.63	35.51	59.18	91.44	115.49	122.38	155.31	CMS
Max	224.50	426.25	420.40	385.30	406.75	483.20	100.35	61.35	84.60	117.90	143.55	174.70	483.20	CMS
Min	100.35	236.40	231.30	217.70	88.20	53.00	33.10	22.30	29.50	67.65	99.00	95.40	22.30	CMS
Runoff	425.05	838.80	799.50	788.15	472.98	340.65	130.26	92.04	158.50	244.92	279.39	327.78	4898.01	MCM

Momentary Peak 513.95 CMS. at 51.59 m. (MSL.) at 06.00 Hours , on Sep 4 , 2014

Runoff Yield 8.42 Liters/Second/Square KM. Momentary Peak Yield 27.861 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

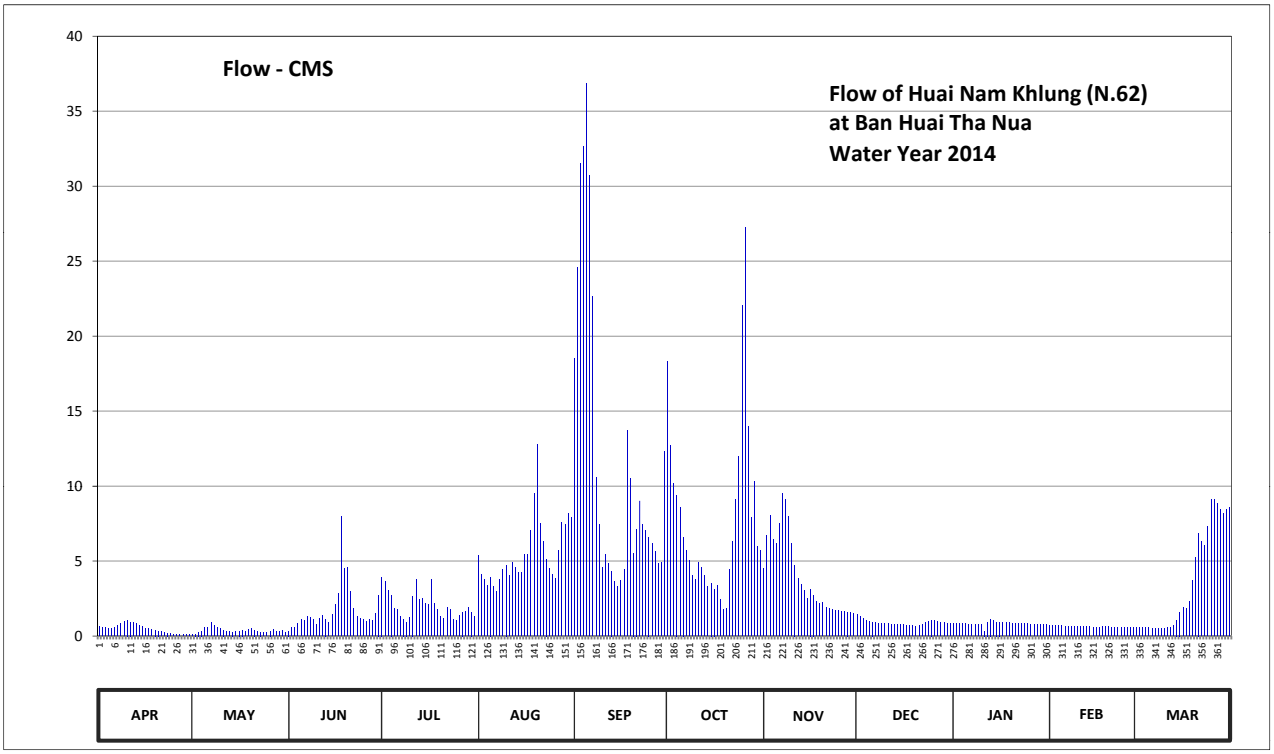
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.24	190.97	191.12	191.78	191.96	193.28	193.26	191.85	191.42	191.29	191.25	191.21	
2	191.22	191.02	191.21	191.74	191.80	193.77	192.73	192.11	191.40	191.29	191.25	191.21	
3	191.21	191.08	191.21	191.67	191.76	194.28	192.48	192.26	191.37	191.28	191.25	191.21	
4	191.20	191.12	191.28	191.63	191.71	194.36	192.40	192.08	191.33	191.28	191.25	191.21	
5	191.20	191.21	191.35	191.49	191.78	194.64	192.31	192.05	191.32	191.28	191.25	191.21	
6	191.21	191.22	191.33	191.48	191.70	194.22	192.10	192.20	191.31	191.27	191.24	191.20	
7	191.25	191.30	191.40	191.40	191.66	193.62	192.00	192.41	191.30	191.27	191.24	191.20	
8	191.29	191.25	191.38	191.36	191.76	192.52	191.92	192.37	191.29	191.26	191.24	191.20	
9	191.32	191.21	191.35	191.31	191.84	192.19	191.79	192.25	191.29	191.26	191.24	191.20	
10	191.34	191.20	191.26	191.39	191.88	191.86	191.76	192.05	191.28	191.26	191.24	191.20	
11	191.31	191.15	191.37	191.62	191.79	191.97	191.90	191.88	191.28	191.12	191.23	191.21	
12	191.30	191.11	191.41	191.76	191.90	191.89	191.86	191.77	191.27	191.31	191.23	191.21	
13	191.28	191.10	191.36	191.59	191.86	191.83	191.79	191.72	191.27	191.36	191.23	191.25	
14	191.25	191.08	191.30	191.60	191.82	191.74	191.70	191.67	191.26	191.33	191.23	191.34	
15	191.23	191.11	191.42	191.55	191.82	191.70	191.73	191.60	191.26	191.31	191.22	191.45	
16	191.20	191.12	191.53	191.53	191.97	191.75	191.68	191.68	191.26	191.31	191.22	191.50	
17	191.19	191.15	191.64	191.76	191.97	191.84	191.71	191.63	191.25	191.30	191.22	191.49	
18	191.16	191.11	192.25	191.55	192.15	192.83	191.59	191.57	191.25	191.30	191.23	191.57	
19	191.15	191.17	191.85	191.48	192.41	192.51	191.48	191.54	191.25	191.30	191.23	191.75	
20	191.12	191.20	191.86	191.40	192.74	191.98	191.49	191.56	191.24	191.29	191.23	191.94	
21	191.10	191.15	191.66	191.37	192.20	192.16	191.84	191.50	191.25	191.29	191.22	192.13	
22	191.07	191.11	191.49	191.50	192.07	192.36	192.07	191.49	191.27	191.28	191.22	192.07	
23	191.05	191.08	191.40	191.48	191.93	192.19	192.37	191.48	191.30	191.28	191.22	192.04	
24	191.03	191.06	191.37	191.35	191.85	192.15	192.66	191.47	191.32	191.28	191.22	192.18	
25	191.01	191.06	191.35	191.33	191.80	192.10	193.57	191.47	191.34	191.28	191.21	192.37	
26	191.00	191.12	191.32	191.41	191.77	192.05	193.97	191.46	191.33	191.27	191.21	192.37	
27	190.99	191.16	191.35	191.45	192.00	191.99	192.86	191.46	191.32	191.27	191.22	192.34	
28	190.99	191.11	191.33	191.46	192.21	191.89	192.24	191.45	191.30	191.27	191.21	192.30	
29	190.98	191.10	191.43	191.50	192.19	191.90	192.49	191.44	191.30	191.26		192.27	
30	190.97	191.13	191.63	191.45	192.27	192.69	192.03	191.43	191.29	191.26		192.30	
31		191.06		191.40	192.24		192.00		191.29	191.26		192.31	
Mean	191.16	191.13	191.44	191.51	191.96	192.54	192.19	191.76	191.30	191.28	191.23	191.66	
Max	191.34	191.30	192.25	191.78	192.74	194.64	193.97	192.41	191.42	191.36	191.25	192.37	194.64
Min	190.97	190.97	191.12	191.31	191.66	191.70	191.48	191.43	191.24	191.12	191.21	191.20	190.97

Annual Max Momentary Gage Height 194.71 m. (MSL.) , at 06.00 Hours , on Sep 5 , 2014

Zero Gage at Bottom Elevation 190.31 m. (MSL.) , River Bed 190.81 m. (MSL.)

Left Bank Elevation 196.90 m. (MSL.) ,

Right Bank Elevation 196.87 m. (MSL.) , Drainage Area 353 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.66	0.09	0.34	3.94	5.38	18.52	18.29	4.50	1.42	0.86	0.70	0.54		
2	0.58	0.14	0.54	3.62	4.10	24.61	12.70	6.69	1.30	0.86	0.70	0.54		
3	0.54	0.26	0.54	3.06	3.78	31.52	10.20	8.07	1.18	0.82	0.70	0.54		
4	0.50	0.34	0.82	2.74	3.38	32.64	9.40	6.42	1.02	0.82	0.70	0.54		
5	0.50	0.54	1.10	1.84	3.94	36.84	8.55	6.15	0.98	0.82	0.70	0.54		
6	0.54	0.58	1.02	1.78	3.30	30.68	6.60	7.50	0.94	0.78	0.66	0.50		
7	0.70	0.90	1.30	1.30	2.98	22.66	5.70	9.50	0.90	0.78	0.66	0.50		
8	0.86	0.70	1.22	1.14	3.78	10.60	5.06	9.12	0.86	0.74	0.66	0.50		
9	0.98	0.54	1.10	0.94	4.42	7.41	4.02	7.98	0.86	0.74	0.66	0.50		
10	1.06	0.50	0.74	1.26	4.74	4.58	3.78	6.15	0.82	0.74	0.66	0.50		
11	0.94	0.40	1.18	2.66	4.02	5.46	4.90	4.74	0.82	0.34	0.62	0.54		
12	0.90	0.32	1.36	3.78	4.90	4.82	4.58	3.86	0.78	0.94	0.62	0.54		
13	0.82	0.30	1.14	2.44	4.58	4.34	4.02	3.46	0.78	1.14	0.62	0.70		
14	0.70	0.26	0.90	2.50	4.26	3.62	3.30	3.06	0.74	1.02	0.62	1.06		
15	0.62	0.32	1.42	2.20	4.26	3.30	3.54	2.50	0.74	0.94	0.58	1.60		
16	0.50	0.34	2.08	2.08	5.46	3.70	3.14	3.14	0.74	0.94	0.58	1.90		
17	0.48	0.40	2.82	3.78	5.46	4.42	3.38	2.74	0.70	0.90	0.58	1.84		
18	0.42	0.32	7.98	2.20	7.05	13.70	2.44	2.32	0.70	0.90	0.62	2.32		
19	0.40	0.44	4.50	1.78	9.50	10.50	1.78	2.14	0.70	0.90	0.62	3.70		
20	0.34	0.50	4.58	1.30	12.80	5.54	1.84	2.26	0.66	0.86	0.62	5.22		
21	0.30	0.40	2.98	1.18	7.50	7.14	4.42	1.90	0.70	0.86	0.58	6.87		
22	0.24	0.32	1.84	1.90	6.33	9.02	6.33	1.84	0.78	0.82	0.58	6.33		
23	0.20	0.26	1.30	1.78	5.14	7.41	9.12	1.78	0.90	0.82	0.58	6.06		
24	0.16	0.22	1.18	1.10	4.50	7.05	12.00	1.72	0.98	0.82	0.58	7.32		
25	0.12	0.22	1.10	1.02	4.10	6.60	22.03	1.72	1.06	0.82	0.54	9.12		
26	0.10	0.34	0.98	1.36	3.86	6.15	27.21	1.66	1.02	0.78	0.54	9.12		
27	0.10	0.42	1.10	1.60	5.70	5.62	14.00	1.66	0.98	0.78	0.58	8.83		
28	0.10	0.32	1.02	1.66	7.60	4.82	7.88	1.60	0.90	0.78	0.54	8.45		
29	0.09	0.30	1.48	1.90	7.41	4.90	10.30	1.54	0.90	0.74		8.17		
30	0.09	0.36	2.74	1.60	8.17	12.30	5.97	1.48	0.86	0.74		8.45		
31		0.22		1.30	7.88		5.70		0.86	0.74		8.55		
Total	14.54	11.57	52.40	62.74	170.28	350.47	242.18	119.20	27.58	25.54	17.40	111.89	1205.79	CMSDAY
Mean	0.48	0.37	1.75	2.02	5.49	11.68	7.81	3.97	0.89	0.82	0.62	3.61	3.30	CMS
Max	1.06	0.90	7.98	3.94	12.80	36.84	27.21	9.50	1.42	1.14	0.70	9.12	36.84	CMS
Min	0.09	0.09	0.34	0.94	2.98	3.30	1.78	1.48	0.66	0.34	0.54	0.50	0.09	CMS
Runoff	1.26	1.00	4.53	5.42	14.71	30.28	20.92	10.30	2.38	2.21	1.50	9.67	104.18	MCM

Momentary Peak 37.96 CMS. at 194.71 m. (MSL.) at 06.00 Hours , on Sep 5 , 2014

Runoff Yield 9.36 Liters/Second/Square KM. Momentary Peak Yield 107.535 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

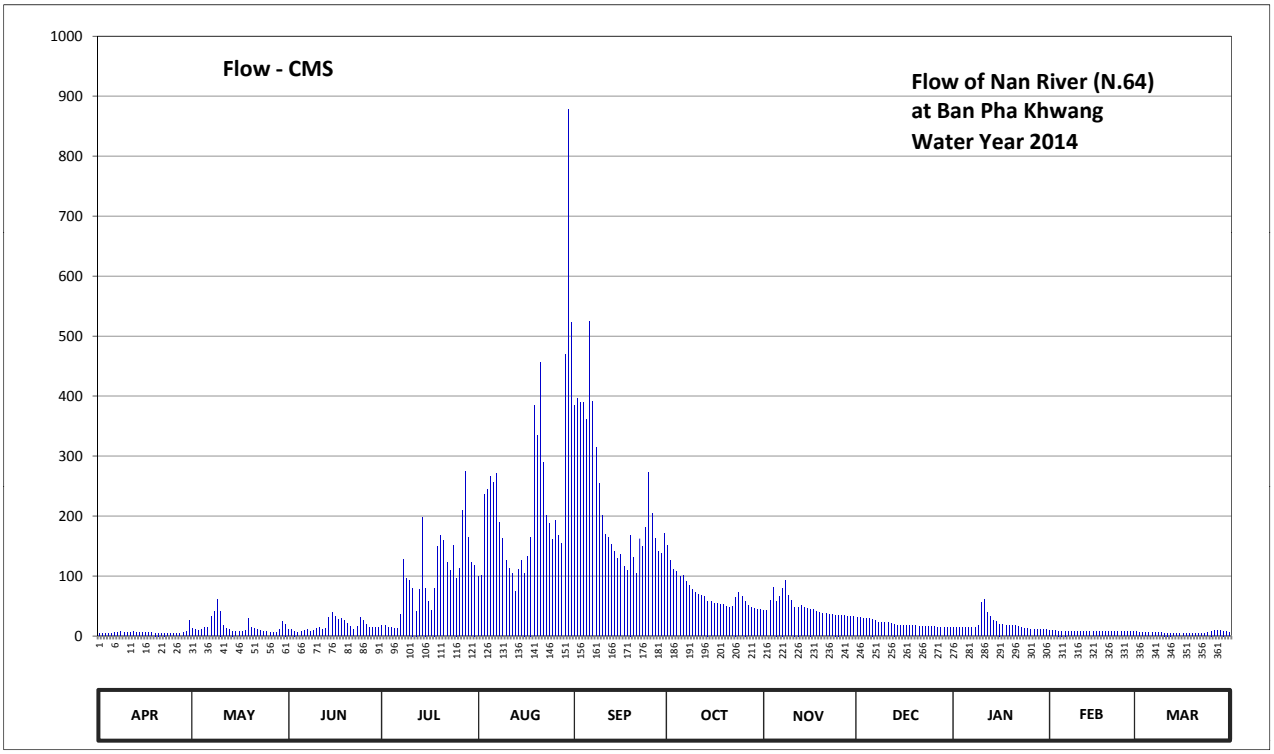
Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	**Amphoe** Mueang	**Changwat** Nan
Drainge Area	3,476 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+210.900 m. (MSL.)		
Bench Mark	B.M.- Temporary.		
Location BM	On right bank at the approach of the bridge.		**Elevation** +223.555 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 48 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.55	211.71	211.67	211.75	212.48	214.76	212.91	211.99	211.88	211.72	211.66	211.61	
2	211.54	211.68	211.67	211.76	212.50	214.86	212.70	211.99	211.88	211.72	211.65	211.60	
3	211.54	211.66	211.64	211.72	213.60	214.81	212.58	212.14	211.87	211.72	211.65	211.60	
4	211.54	211.69	211.60	211.73	213.67	214.81	212.55	212.33	211.87	211.72	211.64	211.60	
5	211.56	211.73	211.62	211.71	213.85	214.59	212.48	212.13	211.87	211.72	211.64	211.60	
6	211.58	211.73	211.66	211.70	213.76	215.81	212.50	212.20	211.86	211.72	211.64	211.60	
7	211.58	211.89	211.67	211.93	213.89	214.82	212.41	212.32	211.84	211.72	211.63	211.60	
8	211.62	211.97	211.61	212.72	213.22	214.23	212.35	212.43	211.80	211.72	211.63	211.60	
9	211.60	212.15	211.65	212.45	213.00	213.75	212.30	212.22	211.80	211.75	211.63	211.58	
10	211.59	211.98	211.70	212.42	212.70	213.32	212.25	212.14	211.80	212.11	211.63	211.57	
11	211.59	211.75	211.72	212.32	212.59	213.06	212.23	212.04	211.80	212.16	211.62	211.57	
12	211.61	211.70	211.68	211.98	212.52	213.01	212.21	212.04	211.79	211.95	211.62	211.57	
13	211.60	211.68	211.70	212.30	212.27	212.92	212.20	212.06	211.78	211.90	211.62	211.56	
14	211.59	211.64	211.88	213.29	212.58	212.83	212.13	212.03	211.76	211.84	211.61	211.56	
15	211.58	211.62	211.96	212.32	212.70	212.73	212.12	212.02	211.76	211.82	211.61	211.56	
16	211.58	211.61	211.89	212.12	212.53	212.78	212.10	212.01	211.76	211.78	211.61	211.56	
17	211.58	211.63	211.85	211.99	212.76	212.62	212.09	212.00	211.76	211.77	211.62	211.56	
18	211.59	211.66	211.87	212.32	213.02	212.57	212.08	211.97	211.75	211.75	211.62	211.56	
19	211.57	211.87	211.83	212.89	214.77	213.05	212.08	211.95	211.75	211.75	211.62	211.56	
20	211.57	211.73	211.79	213.04	214.38	212.74	212.05	211.94	211.75	211.75	211.62	211.56	
21	211.56	211.71	211.74	212.97	215.30	212.52	212.03	211.94	211.74	211.75	211.62	211.56	
22	211.57	211.67	211.68	212.68	214.04	213.00	212.05	211.93	211.74	211.74	211.62	211.56	
23	211.55	211.65	211.74	212.57	213.31	212.89	212.19	211.93	211.74	211.73	211.62	211.56	
24	211.55	211.61	211.88	212.91	213.21	213.15	212.26	211.92	211.74	211.70	211.62	211.58	
25	211.55	211.61	211.83	212.46	212.99	213.90	212.20	211.92	211.74	211.70	211.62	211.64	
26	211.55	211.59	211.77	212.59	213.25	213.34	212.13	211.91	211.74	211.69	211.61	211.65	
27	211.56	211.58	211.73	213.38	213.04	213.00	212.06	211.91	211.73	211.69	211.61	211.65	
28	211.59	211.60	211.72	213.91	212.93	212.82	212.03	211.90	211.73	211.69	211.61	211.65	
29	211.63	211.68	211.73	213.01	215.41	212.80	212.02	211.90	211.73	211.69		211.64	
30	211.83	211.82	211.72	212.68	218.29	213.07	212.00	211.90	211.73	211.68		211.61	
31		211.78		212.64	215.80		212.00		211.73	211.68		211.60	
Mean	211.58	211.72	211.74	212.46	213.56	213.49	212.24	212.04	211.78	211.77	211.63	211.59	
Max	211.83	212.15	211.96	213.91	218.29	215.81	212.91	212.43	211.88	212.16	211.66	211.65	218.29
Min	211.54	211.58	211.60	211.70	212.27	212.52	212.00	211.90	211.73	211.68	211.61	211.56	211.54

Annual Max Momentary Gage Height	219.26	m. (MSL.) ,	at 07.00 Hours , on Aug 30, 2014		
Zero Gage at Bottom Elevation	210.90	m. (MSL.) ,	River Bed	211.03	m. (MSL.)
Left Bank Elevation	226.43	m. (MSL.) ,			
Right Bank Elevation	224.10	m. (MSL.) ,	Drainage Area	3476	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.35	13.00	10.26	17.00	99.10	383.80	151.47	42.90	30.80	14.00	9.68	6.78		
2	3.98	10.84	10.26	18.00	101.50	396.80	125.75	42.90	30.80	14.00	9.10	6.20		
3	3.98	9.68	8.52	14.00	236.00	390.30	111.10	59.40	29.70	14.00	9.10	6.20		
4	3.98	11.42	6.20	15.00	244.57	390.30	107.50	81.28	29.70	14.00	8.52	6.20		
5	4.72	15.00	7.36	13.00	266.63	361.70	99.10	58.30	29.70	14.00	8.52	6.20		
6	5.46	15.00	9.68	12.00	255.60	524.35	101.50	66.00	28.60	14.00	8.52	6.20		
7	5.46	31.90	10.26	36.30	271.52	391.60	90.70	80.10	26.40	14.00	7.94	6.20		
8	7.36	40.70	6.78	128.20	189.45	314.90	83.63	93.10	22.00	14.00	7.94	6.20		
9	6.20	60.50	9.10	95.50	162.50	254.37	77.75	68.35	22.00	17.00	7.94	5.46		
10	5.83	41.80	12.00	91.90	125.75	201.70	71.88	59.40	22.00	56.10	7.94	5.09		
11	5.83	17.00	14.00	80.10	112.30	169.85	69.52	48.40	22.00	61.60	7.36	5.09		
12	6.78	12.00	10.84	41.80	103.90	163.72	67.18	48.40	21.00	38.50	7.36	5.09		
13	6.20	10.84	12.00	77.75	74.23	152.70	66.00	50.60	20.00	33.00	7.36	4.72		
14	5.83	8.52	30.80	198.02	111.10	141.67	58.30	47.30	18.00	26.40	6.78	4.72		
15	5.46	7.36	39.60	80.10	125.75	129.42	57.20	46.20	18.00	24.20	6.78	4.72		
16	5.46	6.78	31.90	57.20	105.10	135.55	55.00	45.10	18.00	20.00	6.78	4.72		
17	5.46	7.94	27.50	42.90	133.10	115.95	53.90	44.00	18.00	19.00	7.36	4.72		
18	5.83	9.68	29.70	80.10	164.95	109.90	52.80	40.70	17.00	17.00	7.36	4.72		
19	5.09	29.70	25.30	149.02	385.10	168.62	52.80	38.50	17.00	17.00	7.36	4.72		
20	5.09	15.00	21.00	167.40	334.40	130.65	49.50	37.40	17.00	17.00	7.36	4.72		
21	4.72	13.00	16.00	158.82	455.50	103.90	47.30	37.40	16.00	17.00	7.36	4.72		
22	5.09	10.26	10.84	123.30	290.20	162.50	49.50	36.30	16.00	16.00	7.36	4.72		
23	4.35	9.10	16.00	109.90	200.47	149.02	64.90	36.30	16.00	15.00	7.36	4.72		
24	4.35	6.78	30.80	151.47	188.23	180.87	73.05	35.20	16.00	12.00	7.36	5.46		
25	4.35	6.78	25.30	96.70	161.28	272.75	66.00	35.20	16.00	12.00	7.36	8.52		
26	4.35	5.83	19.00	112.30	193.12	204.15	58.30	34.10	16.00	11.42	6.78	9.10		
27	4.72	5.46	15.00	209.05	167.40	162.50	50.60	34.10	15.00	11.42	6.78	9.10		
28	5.83	6.20	14.00	273.98	153.92	140.45	47.30	33.00	15.00	11.42	6.78	9.10		
29	7.94	10.84	15.00	163.72	470.35	138.00	46.20	33.00	15.00	11.42		8.52		
30	25.30	24.20	14.00	123.30	877.05	171.08	44.00	33.00	15.00	10.84		6.78		
31		20.00		118.40	523.00		44.00		15.00	10.84		6.20		
Total	179.35	493.11	509.00	3056.23	7283.07	6713.07	2193.73	1445.93	628.70	598.16	214.20	185.61	23500.16	CMSDAY
Mean	5.98	15.91	16.97	98.59	234.94	223.77	70.77	48.20	20.28	19.30	7.65	5.99	64.38	CMS
Max	25.30	60.50	39.60	273.98	877.05	524.35	151.47	93.10	30.80	61.60	9.68	9.10	877.05	CMS
Min	3.98	5.46	6.20	12.00	74.23	103.90	44.00	33.00	15.00	10.84	6.78	4.72	3.98	CMS
Runoff	15.50	42.61	43.98	264.06	629.26	580.01	189.54	124.93	54.32	51.68	18.51	16.04	2030.41	MCM

Momentary Peak 1019.00 CMS. at 219.26 m. (MSL.) at 07.00 Hours , on Aug 30 , 2014

Runoff Yield 18.52 Liters/Second/Square KM. Momentary Peak Yield 293.153 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

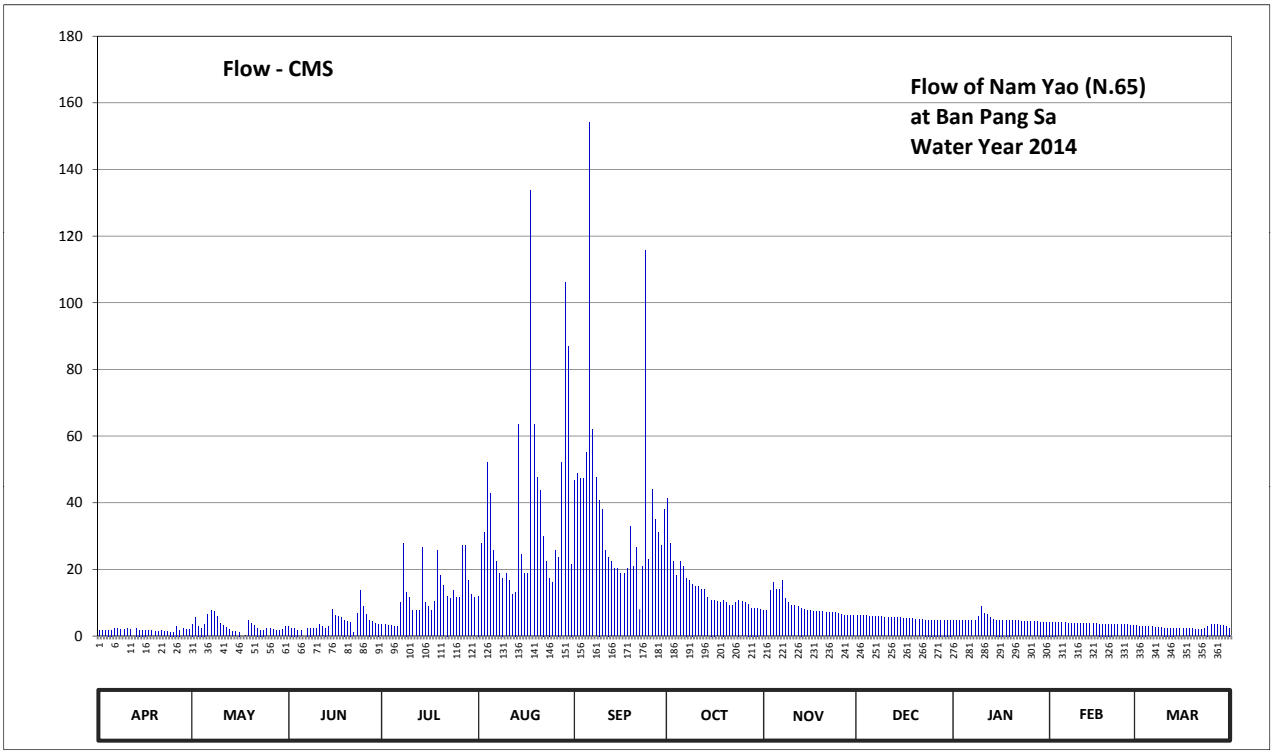
Location : on right bank at the bridge on highway.

	Ban Pang Sa		**Amphoe** Tha Wang Pha	**Changwat** Nan	
Drainge Area	621 sq.km.				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+248.891 m. (MSL.)				
Bench Mark	B.M.- H.D.				
Location BM	On right bank about 20 meters from the top staff gage.			**Elevation**	+257.381 m. (MSL.)
Gage Reading Frequency	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 Flot	-				
Rated by Current Meter	1996 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.43	249.53	249.49	249.52	249.80	250.37	250.23	249.69	249.64	249.58	249.56	249.51	
2	249.43	249.62	249.47	249.52	250.07	250.42	250.07	249.69	249.64	249.58	249.56	249.50	
3	249.43	249.50	249.47	249.51	250.11	250.38	249.99	249.84	249.64	249.58	249.56	249.50	
4	249.44	249.47	249.44	249.51	250.50	250.38	249.93	249.90	249.64	249.58	249.55	249.50	
5	249.44	249.53	249.43	249.49	250.27	250.58	249.99	249.85	249.63	249.58	249.55	249.49	
6	249.46	249.65	249.27	249.49	250.04	252.47	249.97	249.85	249.63	249.58	249.55	249.49	
7	249.46	249.69	249.47	249.75	249.99	250.75	249.92	249.91	249.63	249.58	249.54	249.48	
8	249.45	249.68	249.47	250.07	249.94	250.39	249.91	249.78	249.63	249.58	249.54	249.48	
9	249.45	249.63	249.46	249.83	249.92	250.22	249.89	249.75	249.63	249.63	249.54	249.48	
10	249.46	249.54	249.46	249.79	249.94	250.18	249.87	249.73	249.62	249.72	249.54	249.47	
11	249.45	249.51	249.52	249.69	249.91	250.04	249.87	249.73	249.62	249.66	249.54	249.47	
12	249.28	249.48	249.49	249.69	249.81	250.01	249.85	249.72	249.62	249.65	249.54	249.47	
13	249.47	249.45	249.47	249.69	249.83	249.99	249.85	249.71	249.62	249.62	249.54	249.47	
14	249.44	249.42	249.49	250.05	250.79	249.96	249.79	249.70	249.62	249.60	249.54	249.46	
15	249.44	249.42	249.70	249.75	250.02	249.96	249.77	249.69	249.62	249.59	249.54	249.46	
16	249.44	249.41	249.64	249.72	249.94	249.94	249.77	249.69	249.61	249.59	249.54	249.46	
17	249.43	249.26	249.63	249.69	249.94	249.94	249.76	249.68	249.61	249.59	249.53	249.46	
18	249.43	249.31	249.62	249.76	252.13	249.96	249.75	249.68	249.61	249.59	249.53	249.46	
19	249.42	249.58	249.59	250.04	250.79	250.13	249.77	249.68	249.61	249.59	249.53	249.46	
20	249.42	249.54	249.57	249.93	250.39	249.97	249.75	249.68	249.60	249.58	249.53	249.45	
21	249.43	249.51	249.56	249.88	250.29	250.05	249.73	249.67	249.60	249.58	249.53	249.45	
22	249.42	249.47	249.40	249.80	250.10	249.70	249.73	249.67	249.60	249.58	249.52	249.45	
23	249.42	249.44	249.66	249.78	249.99	249.97	249.75	249.67	249.59	249.57	249.52	249.46	
24	249.41	249.44	249.84	249.84	249.92	251.83	249.77	249.67	249.59	249.57	249.52	249.50	
25	249.41	249.46	249.72	249.79	249.90	250.00	249.76	249.66	249.59	249.57	249.52	249.52	
26	249.50	249.46	249.65	249.79	250.04	250.30	249.75	249.65	249.59	249.57	249.52	249.52	
27	249.44	249.45	249.59	250.06	250.01	250.15	249.74	249.64	249.59	249.57	249.51	249.52	
28	249.46	249.43	249.57	250.06	250.50	250.11	249.71	249.64	249.59	249.57	249.51	249.51	
29	249.45	249.43	249.54	249.91	251.64	250.06	249.71	249.64	249.59	249.56		249.51	
30	249.45	249.45	249.53	249.81	251.26	250.18	249.71	249.64	249.59	249.56		249.49	
31		249.49		249.79	249.98		249.70		249.59	249.56		249.47	
Mean	249.44	249.49	249.54	249.77	250.25	250.28	249.83	249.72	249.61	249.59	249.54	249.48	
Max	249.50	249.69	249.84	250.07	252.13	252.47	250.23	249.91	249.64	249.72	249.56	249.52	252.47
Min	249.28	249.26	249.27	249.49	249.80	249.70	249.70	249.64	249.59	249.56	249.51	249.45	249.26

Annual Max Momentary Gage Height	254.09	m. (MSL.) ,	at 15.00 Hours , on Aug 18 , 2014		
Zero Gage at Bottom Elevation	248.89	m. (MSL.) ,	River Bed	249.02	m. (MSL.)
Left Bank Elevation	256.71	m. (MSL.) ,			
Right Bank Elevation	256.70	m. (MSL.) ,	Drainage Area	621	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	3.60	2.80	3.40	12.00	46.80	41.20	7.70	6.20	4.60	4.20	3.20		
2	1.60	5.60	2.40	3.40	27.90	48.80	27.90	7.70	6.20	4.60	4.20	3.00		
3	1.60	3.00	2.40	3.20	31.00	47.20	22.30	13.60	6.20	4.60	4.20	3.00		
4	1.80	2.40	1.80	3.20	52.00	47.20	18.10	16.00	6.20	4.60	4.00	3.00		
5	1.80	3.60	1.60	2.80	42.80	55.20	22.30	14.00	5.90	4.60	4.00	2.80		
6	2.20	6.50	0.00	2.80	25.80	154.20	20.90	14.00	5.90	4.60	4.00	2.80		
7	2.20	7.70	2.40	10.00	22.30	62.00	17.40	16.70	5.90	4.60	3.80	2.60		
8	2.00	7.40	2.40	27.90	18.80	47.60	16.70	11.20	5.90	4.60	3.80	2.60		
9	2.00	5.90	2.20	13.20	17.40	40.80	15.60	10.00	5.90	5.90	3.80	2.60		
10	2.20	3.80	2.20	11.60	18.80	38.00	14.80	9.20	5.60	8.80	3.80	2.40		
11	2.00	3.20	3.40	7.70	16.70	25.80	14.80	9.20	5.60	6.80	3.80	2.40		
12	0.00	2.60	2.80	7.70	12.40	23.70	14.00	8.80	5.60	6.50	3.80	2.40		
13	2.40	2.00	2.40	7.70	13.20	22.30	14.00	8.40	5.60	5.60	3.80	2.40		
14	1.80	1.40	2.80	26.50	63.60	20.20	11.60	8.00	5.60	5.00	3.80	2.20		
15	1.80	1.40	8.00	10.00	24.40	20.20	10.80	7.70	5.60	4.80	3.80	2.20		
16	1.80	1.20	6.20	8.80	18.80	18.80	10.80	7.70	5.30	4.80	3.80	2.20		
17	1.60	0.00	5.90	7.70	18.80	18.80	10.40	7.40	5.30	4.80	3.60	2.20		
18	1.60	0.10	5.60	10.40	133.80	20.20	10.00	7.40	5.30	4.80	3.60	2.20		
19	1.40	4.60	4.80	25.80	63.60	33.00	10.80	7.40	5.30	4.80	3.60	2.20		
20	1.40	3.80	4.40	18.10	47.60	20.90	10.00	7.40	5.00	4.60	3.60	2.00		
21	1.60	3.20	4.20	15.20	43.60	26.50	9.20	7.10	5.00	4.60	3.60	2.00		
22	1.40	2.40	1.00	12.00	30.00	8.00	9.20	7.10	5.00	4.60	3.40	2.00		
23	1.40	1.80	6.80	11.20	22.30	20.90	10.00	7.10	4.80	4.40	3.40	2.20		
24	1.20	1.80	13.60	13.60	17.40	115.80	10.80	7.10	4.80	4.40	3.40	3.00		
25	1.20	2.20	8.80	11.60	16.00	23.00	10.40	6.80	4.80	4.40	3.40	3.40		
26	3.00	2.20	6.50	11.60	25.80	44.00	10.00	6.50	4.80	4.40	3.40	3.40		
27	1.80	2.00	4.80	27.20	23.70	35.00	9.60	6.20	4.80	4.40	3.20	3.40		
28	2.20	1.60	4.40	27.20	52.00	31.00	8.40	6.20	4.80	4.40	3.20	3.20		
29	2.00	1.60	3.80	16.70	106.00	27.20	8.40	6.20	4.80	4.20		3.20		
30	2.00	2.00	3.60	12.40	87.00	38.00	8.40	6.20	4.80	4.20		2.80		
31		2.80		11.60	21.60		8.00		4.80	4.20		2.40		
Total	52.60	93.40	124.00	382.20	1127.10	1181.10	436.80	266.00	167.30	152.20	104.00	81.40	4168.10	CMSDAY
Mean	1.75	3.01	4.13	12.33	36.36	39.37	14.09	8.87	5.40	4.91	3.71	2.63	11.42	CMS
Max	3.00	7.70	13.60	27.90	133.80	154.20	41.20	16.70	6.20	8.80	4.20	3.40	154.20	CMS
Min	0.00	0.00	0.00	2.80	12.00	8.00	8.00	6.20	4.80	4.20	3.20	2.00	0.00	CMS
Runoff	4.55	8.07	10.71	33.02	97.38	102.05	37.74	22.98	14.46	13.15	8.99	7.03	360.12	MCM

Momentary Peak 262.30 CMS. at 254.09 m. (MSL.) at 15.00 Hours , on Aug 18 , 2014

Runoff Yield 18.39 Liters/Second/Square KM. Momentary Peak Yield 422.383 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

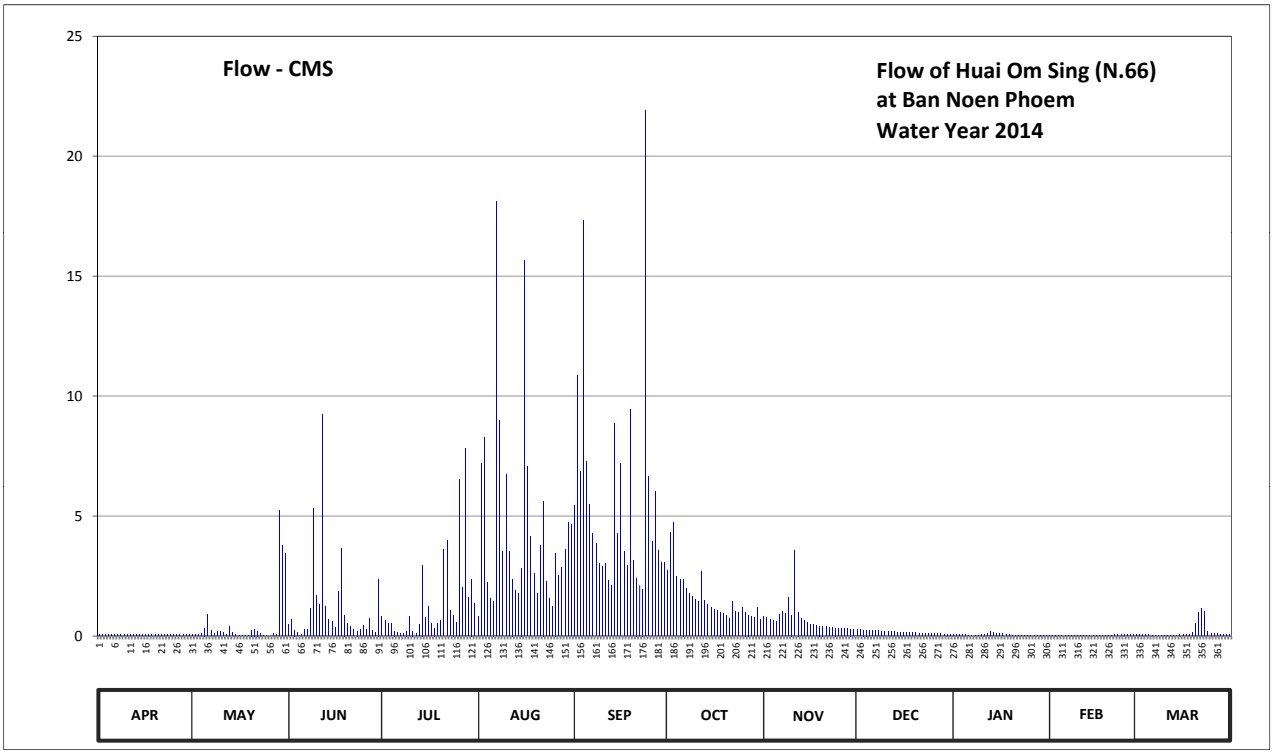
Location : on right bank at Ban Om Sing.

	Ban Noen Phoem	**Amphoe** Nakhon Thai	**Changwat** Phitsanulok
Drainge Area	152 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+201.220 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On right bank about 8 meters from the top staff gage.	**Elevation**	+208.617 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.42	202.42	202.74	202.92	202.91	204.34	203.63	202.92	202.60	202.41	202.32	202.38	
2	202.42	202.42	202.85	202.84	204.68	205.24	204.07	202.89	202.60	202.40	202.32	202.38	
3	202.42	202.42	202.59	202.78	204.86	204.62	204.18	202.86	202.59	202.39	202.32	202.37	
4	202.42	202.48	202.50	202.76	203.47	205.97	203.55	202.84	202.59	202.38	202.31	202.37	
5	202.42	202.65	202.42	202.56	203.24	204.70	203.51	202.82	202.58	202.37	202.31	202.37	
6	202.42	202.96	202.61	202.49	203.20	204.35	203.52	202.96	202.58	202.36	202.31	202.36	
7	202.42	202.58	202.60	202.47	206.05	204.06	203.39	203.02	202.57	202.36	202.30	202.36	
8	202.42	202.48	203.07	202.44	204.97	203.95	203.32	202.98	202.57	202.35	202.30	202.36	
9	202.42	202.55	204.31	202.56	203.86	203.72	203.27	203.26	202.55	202.35	202.30	202.36	
10	202.42	202.53	203.29	202.91	204.60	203.68	203.22	202.95	202.55	202.38	202.29	202.35	
11	202.42	202.49	203.14	202.56	203.86	203.72	203.19	203.87	202.54	202.43	202.29	202.35	
12	202.42	202.42	205.01	202.48	203.52	203.50	203.61	203.01	202.54	202.48	202.29	202.35	
13	202.42	202.70	203.10	202.74	203.36	203.43	203.21	202.88	202.53	202.53	202.29	202.36	
14	202.42	202.50	202.85	203.70	203.32	204.95	203.14	202.83	202.52	202.50	202.29	202.36	
15	202.42	202.40	202.82	202.90	203.66	204.06	203.08	202.79	202.52	202.47	202.30	202.38	
16	202.42	202.34	202.66	203.11	205.80	204.68	203.05	202.75	202.51	202.45	202.30	202.39	
17	202.42	202.29	203.34	202.78	204.66	203.86	203.04	202.75	202.51	202.44	202.31	202.39	
18	202.42	202.28	203.89	202.65	204.03	203.69	203.01	202.73	202.50	202.39	202.32	202.39	
19	202.42	202.28	202.95	202.76	203.59	205.04	202.98	202.71	202.49	202.37	202.32	202.51	
20	202.42	202.59	202.77	202.84	203.32	203.75	202.94	202.71	202.49	202.36	202.33	202.76	
21	202.42	202.62	202.70	203.88	203.93	203.53	202.87	202.69	202.48	202.34	202.35	203.00	
22	202.42	202.56	202.61	203.98	204.38	203.43	203.19	202.67	202.48	202.34	202.37	203.07	
23	202.42	202.46	202.56	203.04	203.48	203.38	203.02	202.66	202.47	202.33	202.41	203.02	
24	202.42	202.35	202.61	202.95	203.24	206.41	203.00	202.65	202.47	202.33	202.41	202.55	
25	202.42	202.28	202.73	202.80	203.11	204.58	203.09	202.64	202.45	202.34	202.40	202.47	
26	202.42	202.22	202.60	204.56	203.84	203.97	203.01	202.64	202.45	202.34	202.39	202.46	
27	202.42	202.44	202.87	203.40	203.56	204.46	202.95	202.63	202.44	202.34	202.39	202.45	
28	202.42	202.39	202.57	204.79	203.67	203.87	202.92	202.63	202.44	202.33	202.39	202.40	
29	202.42	204.29	202.51	203.25	203.88	203.73	202.89	202.62	202.43	202.33		202.39	
30	202.42	203.93	203.52	203.52	204.18	203.73	203.08	202.61	202.43	202.33		202.38	
31		203.83		203.16	204.16		202.85		202.42	202.32		202.37	
Mean	202.42	202.62	202.96	203.05	203.95	204.21	203.22	202.83	202.51	202.38	202.33	202.47	
Max	202.42	204.29	205.01	204.79	206.05	206.41	204.18	203.87	202.60	202.53	202.41	203.07	206.41
Min	202.42	202.22	202.42	202.44	202.91	203.38	202.85	202.61	202.42	202.32	202.29	202.35	202.22

Annual Max Momentary Gage Height	206.72	m. (MSL.) ,	at 15.00 Hours , on Sep 24 , 2014		
Zero Gage at Bottom Elevation	201.22	m. (MSL.) ,	River Bed	201.97	m. (MSL.)
Left Bank Elevation	208.46	m. (MSL.) ,			
Right Bank Elevation	208.46	m. (MSL.) ,	Drainage Area	152	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.08	0.47	0.82	0.80	5.44	2.74	0.82	0.26	0.07	0.03	0.05		
2	0.08	0.08	0.68	0.66	7.19	10.86	4.31	0.76	0.26	0.06	0.03	0.05		
3	0.08	0.08	0.25	0.54	8.27	6.85	4.74	0.70	0.25	0.06	0.03	0.05		
4	0.08	0.12	0.14	0.51	2.23	17.30	2.48	0.66	0.25	0.05	0.02	0.05		
5	0.08	0.33	0.08	0.21	1.56	7.30	2.35	0.62	0.24	0.05	0.02	0.05		
6	0.08	0.90	0.27	0.13	1.46	5.49	2.38	0.90	0.24	0.04	0.02	0.04		
7	0.08	0.24	0.26	0.12	18.13	4.27	1.99	1.03	0.22	0.04	0.02	0.04		
8	0.08	0.12	1.15	0.09	8.98	3.86	1.78	0.94	0.22	0.04	0.02	0.04		
9	0.08	0.20	5.31	0.21	3.54	3.03	1.64	1.62	0.20	0.04	0.02	0.04		
10	0.08	0.18	1.69	0.80	6.74	2.90	1.51	0.88	0.20	0.05	0.02	0.04		
11	0.08	0.13	1.32	0.21	3.54	3.03	1.44	3.57	0.19	0.08	0.02	0.04		
12	0.08	0.08	9.25	0.12	2.38	2.32	2.67	1.00	0.19	0.12	0.02	0.04		
13	0.08	0.40	1.22	0.47	1.90	2.11	1.49	0.74	0.18	0.18	0.02	0.04		
14	0.08	0.14	0.68	2.96	1.78	8.85	1.32	0.64	0.16	0.14	0.02	0.04		
15	0.08	0.06	0.62	0.78	2.83	4.27	1.17	0.56	0.16	0.12	0.02	0.05		
16	0.08	0.04	0.34	1.24	15.66	7.19	1.10	0.49	0.15	0.10	0.02	0.06		
17	0.08	0.02	1.84	0.54	7.08	3.54	1.08	0.49	0.15	0.09	0.02	0.06		
18	0.08	0.02	3.64	0.33	4.15	2.93	1.00	0.45	0.14	0.06	0.03	0.06		
19	0.08	0.02	0.88	0.51	2.61	9.44	0.94	0.42	0.13	0.05	0.03	0.15		
20	0.08	0.25	0.53	0.66	1.78	3.14	0.86	0.42	0.13	0.04	0.03	0.51		
21	0.08	0.29	0.40	3.61	3.79	2.42	0.72	0.39	0.12	0.04	0.04	0.98		
22	0.08	0.21	0.27	3.97	5.63	2.11	1.44	0.36	0.12	0.04	0.05	1.15		
23	0.08	0.11	0.21	1.08	2.26	1.96	1.03	0.34	0.12	0.03	0.07	1.03		
24	0.08	0.04	0.27	0.88	1.56	21.91	0.98	0.33	0.12	0.03	0.07	0.20		
25	0.08	0.02	0.45	0.58	1.24	6.64	1.20	0.32	0.10	0.04	0.06	0.12		
26	0.08	0.00	0.26	6.53	3.46	3.93	1.00	0.32	0.10	0.04	0.06	0.11		
27	0.08	0.09	0.72	2.02	2.51	6.02	0.88	0.30	0.09	0.04	0.06	0.10		
28	0.08	0.06	0.22	7.84	2.86	3.57	0.82	0.30	0.09	0.03	0.06	0.06		
29	0.08	5.22	0.15	1.59	3.61	3.07	0.76	0.29	0.08	0.03		0.06		
30	0.08	3.79	2.38	2.38	4.74	3.07	1.17	0.27	0.08	0.03		0.05		
31		3.43		1.36	4.66		0.68		0.08	0.03		0.05		
Total	2.40	16.75	35.95	43.75	138.93	168.82	49.67	20.93	5.02	1.86	0.93	5.41	490.42	CMSDAY
Mean	0.08	0.54	1.20	1.41	4.48	5.63	1.60	0.70	0.16	0.06	0.03	0.17	1.34	CMS
Max	0.08	5.22	9.25	7.84	18.13	21.91	4.74	3.57	0.26	0.18	0.07	1.15	21.91	CMS
Min	0.08	0.00	0.08	0.09	0.80	1.96	0.68	0.27	0.08	0.03	0.02	0.04	0.00	CMS
Runoff	0.21	1.45	3.11	3.78	12.00	14.59	4.29	1.81	0.43	0.16	0.08	0.47	42.37	MCM

Momentary Peak 25.38 CMS. at 206.72 m. (MSL.) at 15.00 Hours , on Sep 24 , 2014

Runoff Yield 8.84 Liters/Second/Square KM. Momentary Peak Yield 166.974 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Koei Chai, Nakhon Sawan (N.67)

Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

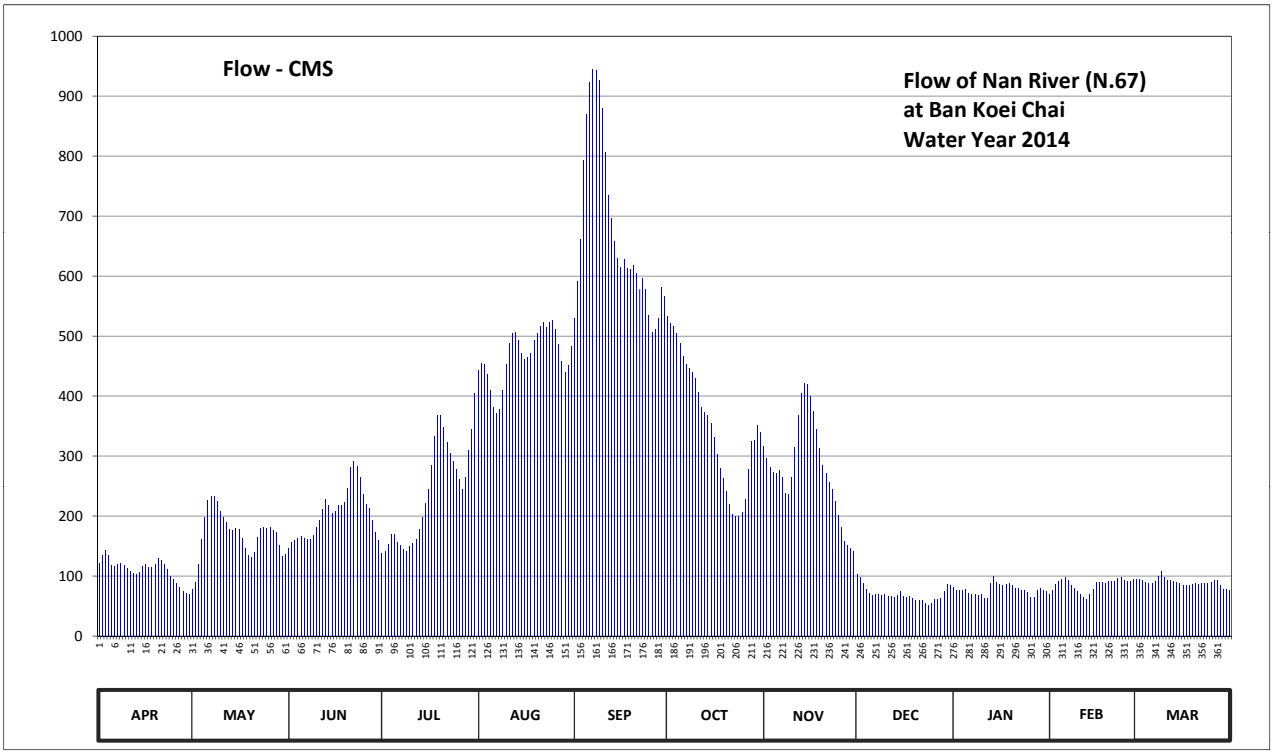
Location : on right bank at the bridge near Wat Koei Chai Nua

	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	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the gage observe's house			**Elevation**	+27.470 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1997 to date				
Rating Operation					
Period of Rating	1997 to date				
Rated by Flot	-				
Rated by Current Meter	1997 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Flow effected by Mae Yom side flow.				
	Stage-discharge relation defined by 54 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.44	18.88	19.71	19.62	22.42	23.27	23.29	21.34	19.21	18.93	18.76	19.10	
2	19.59	19.05	19.83	19.65	22.56	23.74	23.19	21.17	19.15	18.85	18.85	19.11	
3	19.67	19.41	19.86	19.79	22.54	24.22	23.15	21.04	19.02	18.86	19.00	19.09	
4	19.58	19.87	19.89	19.98	22.32	24.98	23.05	20.97	18.89	18.86	19.06	19.05	
5	19.40	20.26	19.94	19.98	22.07	25.36	22.90	20.96	18.79	18.88	19.11	19.02	
6	19.37	20.54	19.89	19.83	21.85	25.61	22.69	21.00	18.75	18.78	19.14	19.03	
7	19.41	20.61	19.87	19.76	21.77	25.73	22.53	20.89	18.77	18.77	19.08	19.06	
8	19.44	20.60	19.88	19.69	21.82	25.72	22.45	20.65	18.77	18.76	18.97	19.17	
9	19.40	20.52	19.96	19.66	22.06	25.63	22.37	20.63	18.75	18.75	18.91	19.28	
10	19.34	20.35	20.09	19.75	22.54	25.41	22.23	20.89	18.77	18.77	18.84	19.15	
11	19.28	20.26	20.20	19.81	22.90	25.05	22.04	21.32	18.72	18.67	18.77	19.08	
12	19.23	20.17	20.39	19.88	23.05	24.67	21.85	21.75	18.71	18.67	18.68	19.08	
13	19.20	20.06	20.55	20.05	23.07	24.44	21.78	22.03	18.68	19.01	18.63	19.06	
14	19.24	20.04	20.46	20.26	22.94	24.20	21.75	22.16	18.73	19.17	18.77	19.05	
15	19.37	20.07	20.32	20.49	22.73	24.01	21.64	22.15	18.84	19.05	18.88	19.03	
16	19.42	20.05	20.36	20.72	22.63	23.91	21.46	21.99	18.71	18.99	19.05	18.98	
17	19.36	19.90	20.45	21.07	22.67	24.00	21.22	21.80	18.70	18.98	19.04	18.97	
18	19.35	19.71	20.46	21.47	22.74	23.89	21.03	21.57	18.72	19.00	19.04	18.97	
19	19.42	19.59	20.51	21.75	22.94	23.88	20.88	21.31	18.66	19.01	19.01	19.00	
20	19.52	19.54	20.73	21.75	23.05	23.93	20.68	21.07	18.62	18.98	19.07	19.01	
21	19.48	19.63	21.05	21.59	23.15	23.83	20.47	20.96	18.62	18.90	19.07	19.00	
22	19.42	19.91	21.12	21.39	23.21	23.64	20.31	20.82	18.61	18.91	19.06	19.02	
23	19.32	20.08	21.06	21.24	23.14	23.77	20.27	20.71	18.56	18.86	19.13	19.03	
24	19.17	20.09	20.90	21.12	23.21	23.64	20.28	20.53	18.51	18.86	19.15	19.01	
25	19.10	20.07	20.64	21.02	23.24	23.31	20.34	20.29	18.56	18.82	19.09	19.04	
26	19.03	20.09	20.48	20.87	23.11	23.07	20.55	20.09	18.63	18.69	19.06	19.09	
27	18.94	20.04	20.41	20.71	22.88	23.11	21.01	19.85	18.63	18.70	19.06	19.08	
28	18.84	20.00	20.21	20.90	22.58	23.26	21.40	19.76	18.66	18.86	19.10	18.97	
29	18.78	19.77	20.00	21.28	22.37	23.67	21.42	19.72	18.84	18.90		18.89	
30	18.76	19.57	19.86	21.57	22.51	23.55	21.62	19.66	18.99	18.87		18.88	
31		19.61		22.03	22.85		21.53		18.98	18.84		18.85	
Mean	19.30	19.95	20.30	20.60	22.67	24.22	21.66	20.97	18.76	18.87	18.98	19.04	
Max	19.67	20.61	21.12	22.03	23.24	25.73	23.29	22.16	19.21	19.17	19.15	19.28	25.73
Min	18.76	18.88	19.71	19.62	21.77	23.07	20.27	19.66	18.51	18.67	18.63	18.85	18.51

Annual Max Momentary Gage Height	25.74	m. (MSL.) ,	at 13.00 Hours , on Sep 7 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	14.13	m. (MSL.)
Left Bank Elevation	28.92	m. (MSL.) ,			
Right Bank Elevation	28.21	m. (MSL.) ,	Drainage Area	57384	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	121.60	77.60	145.90	137.80	443.60	530.40	532.80	316.80	102.80	81.10	69.20	94.00		
2	135.10	90.00	156.70	140.50	455.40	591.60	520.80	296.40	98.00	75.50	75.50	94.80		
3	142.30	118.90	159.40	153.10	453.60	661.20	516.00	280.80	87.60	76.20	86.00	93.20		
4	134.20	160.30	162.10	170.20	436.40	792.20	504.50	272.70	78.30	76.20	90.80	90.00		
5	118.00	198.00	166.60	170.20	410.10	868.60	488.00	271.60	71.30	77.60	94.80	87.60		
6	115.60	226.00	162.10	156.70	381.50	922.77	467.10	276.00	68.50	70.60	97.20	88.40		
7	118.90	233.10	160.30	150.40	371.10	944.00	452.70	263.90	69.90	69.90	92.40	90.80		
8	121.60	232.00	161.20	144.10	377.60	942.23	446.00	237.50	69.90	69.20	83.90	99.60		
9	118.00	224.00	168.40	141.40	408.80	926.31	439.90	235.30	68.50	68.50	79.70	108.40		
10	113.20	207.00	181.00	149.50	453.60	879.20	429.40	263.90	69.90	69.90	74.80	98.00		
11	108.40	198.00	192.00	154.90	488.00	805.50	406.20	314.40	66.40	62.90	69.90	92.40		
12	104.40	189.00	211.00	161.20	504.50	734.90	381.50	368.50	65.70	62.90	63.60	92.40		
13	102.00	178.00	227.00	177.00	506.70	696.40	372.40	404.90	63.60	86.80	60.10	90.80		
14	105.20	176.00	218.00	198.00	492.40	658.00	368.50	421.80	67.10	99.60	69.90	90.00		
15	115.60	179.00	204.00	221.00	471.00	629.50	354.20	420.50	74.80	90.00	77.60	88.40		
16	119.80	177.00	208.00	245.20	461.70	615.40	331.20	399.70	65.70	85.30	90.00	84.60		
17	114.80	163.00	217.00	284.40	465.30	628.00	302.40	375.00	65.00	84.60	89.20	83.90		
18	114.00	145.90	218.00	332.40	472.00	612.60	279.60	345.10	66.40	86.00	89.20	83.90		
19	119.80	135.10	223.00	368.50	492.40	611.20	262.80	313.20	62.20	86.80	86.80	86.00		
20	128.80	130.60	246.30	368.50	504.50	618.20	240.80	284.40	59.40	84.60	91.60	86.80		
21	125.20	138.70	282.00	347.70	516.00	604.20	219.00	271.60	59.40	79.00	91.60	86.00		
22	119.80	163.90	290.40	322.80	523.20	578.20	203.00	256.20	58.70	79.70	90.80	87.60		
23	111.60	180.00	283.20	304.80	514.80	595.80	199.00	244.10	55.20	76.20	96.40	88.40		
24	99.60	181.00	265.00	290.40	523.20	578.20	200.00	225.00	51.70	76.20	98.00	86.80		
25	94.00	179.00	236.40	278.40	526.80	535.30	206.00	201.00	55.20	73.40	93.20	89.20		
26	88.40	181.00	220.00	261.70	511.20	506.70	227.00	181.00	60.10	64.30	90.80	93.20		
27	81.80	176.00	213.00	244.10	486.00	511.20	277.20	158.50	60.10	65.00	90.80	92.40		
28	74.80	172.00	193.00	265.00	457.20	529.20	324.00	150.40	62.20	76.20	94.00	83.90		
29	70.60	151.30	172.00	309.60	439.90	582.10	326.40	146.80	74.80	79.00		78.30		
30	69.20	133.30	159.40	345.10	450.90	566.50	351.60	141.40	85.30	76.90		77.60		
31		136.90		404.90	483.00		339.90		84.60	74.80		75.50		
Total	3306.30	5231.60	6102.40	7399.50	14482.40	20255.61	10969.90	8338.40	2148.30	2384.90	2377.80	2762.90	85760.00	CMSDAY
Mean	110.21	168.76	203.41	238.69	467.17	675.19	353.87	277.95	69.30	76.93	84.92	89.13	234.96	CMS
Max	142.30	233.10	290.40	404.90	526.80	944.00	532.80	421.80	102.80	99.60	98.00	108.40	944.00	CMS
Min	69.20	77.60	145.90	137.80	371.10	506.70	199.00	141.40	51.70	62.90	60.10	75.50	51.70	CMS
Runoff	285.66	452.01	527.25	639.32	1251.28	1750.09	947.80	720.44	185.61	206.06	205.44	238.72	7409.66	MCM

Momentary Peak 945.77 CMS. at 25.74 m. (MSL.) at 13.00 Hours , on Sep 7 , 2014

Runoff Yield 4.09 Liters/Second/Square KM. Momentary Peak Yield 16.481 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Tha Takhian , Phitsanulok (N.68)

Lat 16 - 52 - 15 N Long 100 - 14 - 36 E

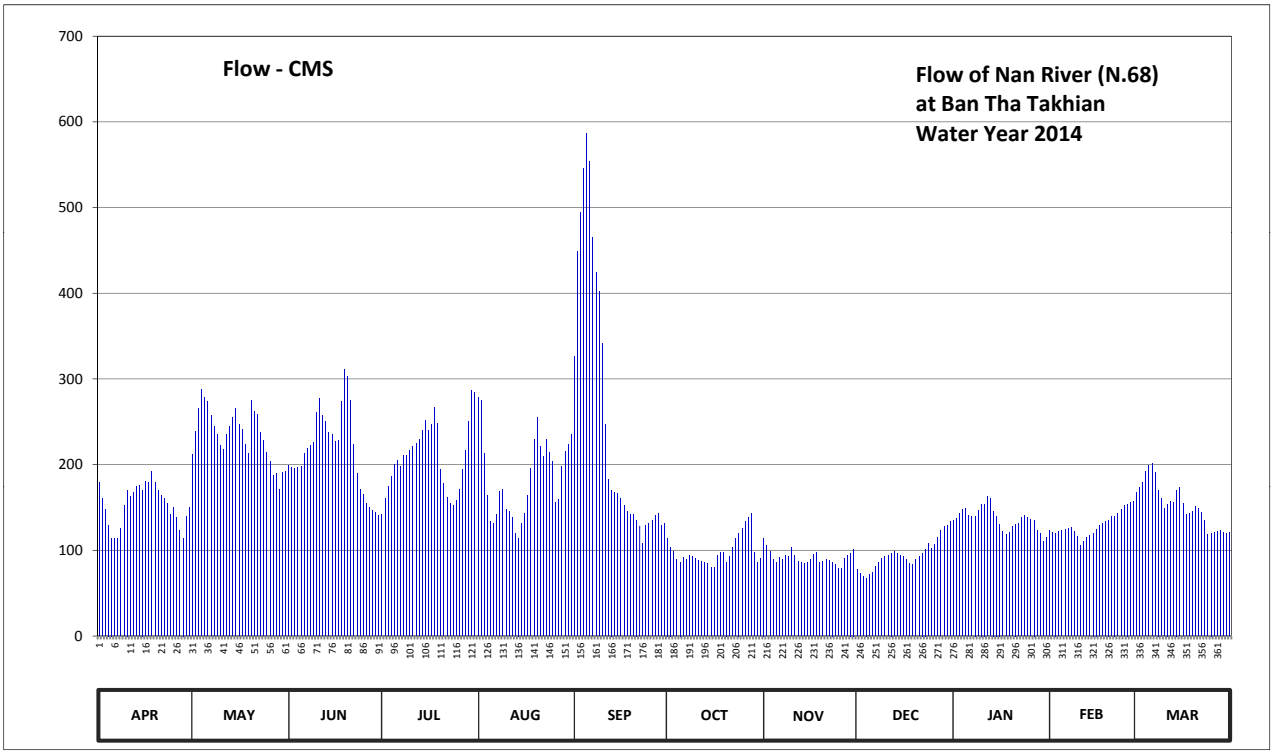
Location : on right bank at Ban Tha Takhian.

	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 Flot	-		
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 30 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.56	37.87	37.75	37.20	38.48	38.90	36.91	36.91	36.47	37.12	37.00	37.45	
2	37.38	38.12	37.73	37.38	38.45	39.89	36.80	36.82	36.41	37.15	36.98	37.51	
3	37.26	38.36	37.72	37.52	37.88	40.24	36.73	36.73	36.36	37.21	36.97	37.57	
4	37.07	38.56	37.73	37.63	37.42	40.63	36.61	36.61	36.34	37.26	36.99	37.69	
5	36.91	38.48	37.74	37.77	37.11	40.93	36.58	36.57	36.40	37.27	37.00	37.75	
6	36.90	38.43	37.88	37.81	37.09	40.69	36.65	36.65	36.43	37.19	37.01	37.78	
7	36.90	38.29	37.94	37.74	37.20	40.02	36.61	36.61	36.52	37.17	37.03	37.68	
8	37.03	38.17	37.97	37.86	37.46	39.70	36.68	36.67	36.57	37.18	37.04	37.48	
9	37.30	38.08	38.00	37.86	37.49	39.52	36.66	36.66	36.63	37.25	36.99	37.39	
10	37.48	37.97	38.32	37.92	37.26	39.03	36.63	36.79	36.66	37.32	36.93	37.27	
11	37.41	37.93	38.47	37.96	37.23	38.19	36.60	36.68	36.68	37.32	36.82	37.32	
12	37.45	38.08	38.29	37.99	37.16	37.60	36.59	36.59	36.71	37.41	36.87	37.35	
13	37.52	38.17	38.22	38.03	36.96	37.48	36.57	36.57	36.74	37.39	36.92	37.34	
14	37.53	38.27	38.11	38.13	36.91	37.45	36.56	36.56	36.70	37.24	36.94	37.48	
15	37.48	38.36	38.08	38.23	37.09	37.44	36.50	36.57	36.67	37.18	36.97	37.51	
16	37.58	38.19	38.01	38.13	37.21	37.38	36.50	36.62	36.66	37.08	37.02	37.33	
17	37.56	38.14	38.02	38.19	37.42	37.30	36.67	36.69	36.61	36.99	37.06	37.20	
18	37.69	37.98	38.43	38.37	37.72	37.23	36.72	36.72	36.56	36.95	37.09	37.21	
19	37.57	37.88	38.77	38.20	38.03	37.20	36.72	36.57	36.54	36.98	37.11	37.23	
20	37.47	38.45	38.70	37.71	38.27	37.20	36.58	36.59	36.62	37.05	37.13	37.29	
21	37.42	38.33	38.45	37.55	37.96	37.13	36.66	36.62	36.66	37.08	37.17	37.27	
22	37.39	38.30	37.98	37.40	37.85	37.06	36.79	36.60	36.71	37.09	37.18	37.22	
23	37.33	38.11	37.66	37.33	38.03	36.84	36.90	36.58	36.77	37.16	37.21	37.12	
24	37.20	38.02	37.49	37.30	37.89	37.06	36.97	36.54	36.84	37.19	37.26	36.95	
25	37.28	37.89	37.43	37.36	37.80	37.09	37.03	36.49	36.78	37.16	37.30	36.97	
26	37.16	37.80	37.33	37.49	37.34	37.12	37.11	36.49	36.83	37.14	37.32	36.98	
27	37.00	37.64	37.28	37.71	37.37	37.19	37.16	36.63	36.92	37.13	37.34	36.99	
28	36.91	37.66	37.25	37.92	37.74	37.21	37.21	36.68	37.00	37.00	37.35	37.00	
29	37.17	37.49	37.22	38.22	37.91	37.06	36.72	36.71	37.05	36.96		36.98	
30	37.28	37.68	37.19	38.55	37.98	37.09	36.57	36.77	37.06	36.87		36.96	
31		37.69		38.53	38.08		36.63		37.11	36.92		36.98	
Mean	37.31	38.08	37.91	37.84	37.61	38.16	36.73	36.64	36.68	37.14	37.07	37.30	
Max	37.69	38.56	38.77	38.55	38.48	40.93	37.21	36.91	37.11	37.41	37.35	37.78	40.93
Min	36.90	37.49	37.19	37.20	36.91	36.84	36.50	36.49	36.34	36.87	36.82	36.95	36.34

Annual Max Momentary Gage Height	41.06	m. (MSL.) ,	at 06.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	35.00	m. (MSL.) ,	River Bed	32.86	m. (MSL.)
Left Bank Elevation	48.36	m. (MSL.) ,			
Right Bank Elevation	48.35	m. (MSL.) ,	Drainage Area	25018	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	178.80	211.70	198.75	142.00	278.80	326.50	114.45	114.45	77.60	134.40	123.00	167.25		
2	160.00	239.20	196.65	160.00	275.50	448.70	104.00	105.90	72.80	137.25	121.10	173.55		
3	148.00	265.60	195.60	174.60	212.80	494.20	98.40	98.40	69.20	143.00	120.15	179.85		
4	129.65	287.60	196.65	186.15	164.10	546.05	88.80	88.80	67.80	148.00	122.05	192.45		
5	114.45	278.80	197.70	200.85	133.45	586.55	86.40	85.60	72.00	149.00	123.00	198.75		
6	113.50	273.30	212.80	205.10	131.55	554.15	92.00	92.00	74.40	141.05	123.95	201.90		
7	113.50	257.90	219.40	197.70	142.00	465.60	88.80	88.80	81.60	139.15	125.85	191.40		
8	125.85	244.70	222.70	210.60	168.30	424.50	94.40	93.60	85.60	140.10	126.80	170.40		
9	152.00	234.80	226.00	210.60	171.45	402.00	92.80	92.80	90.40	147.00	122.05	161.00		
10	170.40	222.70	261.20	217.20	148.00	341.60	90.40	103.20	92.80	154.00	116.35	149.00		
11	163.05	218.30	277.70	221.60	145.00	246.90	88.00	94.40	94.40	154.00	105.90	154.00		
12	167.25	234.80	257.90	224.90	138.20	183.00	87.20	87.20	96.80	163.05	110.65	157.00		
13	174.60	244.70	250.20	229.30	119.20	170.40	85.60	85.60	99.20	161.00	115.40	156.00		
14	175.65	255.70	238.10	240.30	114.45	167.25	84.80	84.80	96.00	146.00	117.30	170.40		
15	170.40	265.60	234.80	251.30	131.55	166.20	80.00	85.60	93.60	140.10	120.15	173.55		
16	180.90	246.90	227.10	240.30	143.00	160.00	80.00	89.60	92.80	130.60	124.90	155.00		
17	178.80	241.40	228.20	246.90	164.10	152.00	93.60	95.20	88.80	122.05	128.70	142.00		
18	192.45	223.80	273.30	266.70	195.60	145.00	97.60	97.60	84.80	118.25	131.55	143.00		
19	179.85	212.80	311.55	248.00	229.30	142.00	97.60	85.60	83.20	121.10	133.45	145.00		
20	169.35	275.50	303.50	194.55	255.70	142.00	86.40	87.20	89.60	127.75	135.35	151.00		
21	164.10	262.30	275.50	177.75	221.60	135.35	92.80	89.60	92.80	130.60	139.15	149.00		
22	161.00	259.00	223.80	162.00	209.50	128.70	103.20	88.00	96.80	131.55	140.10	144.00		
23	155.00	238.10	189.30	155.00	229.30	107.80	113.50	86.40	101.60	138.20	143.00	134.40		
24	142.00	228.20	171.45	152.00	213.90	128.70	120.15	83.20	107.80	141.05	148.00	118.25		
25	150.00	213.90	165.15	158.00	204.00	131.55	125.85	79.20	102.40	138.20	152.00	120.15		
26	138.20	204.00	155.00	171.45	156.00	134.40	133.45	79.20	106.85	136.30	154.00	121.10		
27	123.00	187.20	150.00	194.55	159.00	141.05	138.20	90.40	115.40	135.35	156.00	122.05		
28	114.45	189.30	147.00	217.20	197.70	143.00	143.00	94.40	123.00	123.00	157.00	123.00		
29	139.15	171.45	144.00	250.20	216.10	128.70	97.60	96.80	127.75	119.20		121.10		
30	150.00	191.40	141.05	286.50	223.80	131.55	85.60	101.60	128.70	110.65		119.20		
31		192.45		284.30	234.80		90.40		133.45	115.40		121.10		
Total	4595.35	7273.10	6492.05	6477.60	5727.75	7575.40	3075.00	2745.15	2939.95	4236.35	3636.90	4725.85	59500.45	CMSDAY
Mean	153.18	234.62	216.40	208.95	184.77	252.51	99.19	91.50	94.84	136.66	129.89	152.45	163.01	CMS
Max	192.45	287.60	311.55	286.50	278.80	586.55	143.00	114.45	133.45	163.05	157.00	201.90	586.55	CMS
Min	113.50	171.45	141.05	142.00	114.45	107.80	80.00	79.20	67.80	110.65	105.90	118.25	67.80	CMS
Runoff	397.04	628.40	560.91	559.67	494.88	654.52	265.68	237.18	254.01	366.02	314.23	408.31	5140.84	MCM

Momentary Peak 604.10 CMS. at 41.06 m. (MSL.) at 06.00 Hours , on Sep 5 , 2014

Runoff Yield 6.52 Liters/Second/Square KM. Momentary Peak Yield 24.147 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)

Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

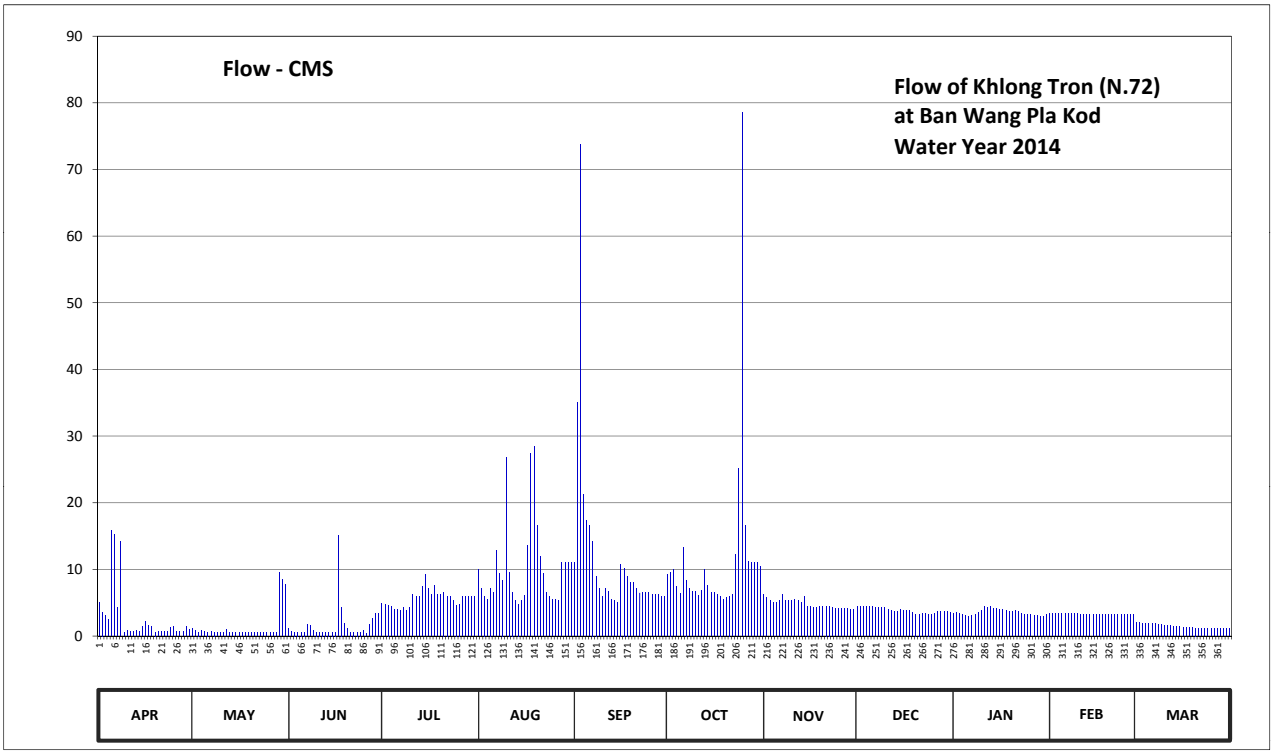
Location : on right bank at Ban Wang Pla Kod.

	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 mean of 5 readings				
Period of Available Gage Records	2005 to date				
Rating Operation					
Period of Rating	2005 to date				
Rated by Flot	-				
Rated by Current Meter	2005 to date				
Stability of Channel Regimes	Rather unstable because of backwater effect.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.42	61.02	61.02	63.61	63.94	63.99	63.90	63.72	63.54	63.40	63.39	62.84	
2	61.29	60.97	60.93	63.59	63.79	64.48	63.92	63.68	63.54	63.42	63.39	62.79	
3	61.24	60.92	60.92	63.58	63.70	65.00	63.94	63.64	63.54	63.39	63.39	62.75	
4	61.19	60.96	60.92	63.54	63.66	64.26	63.81	63.62	63.54	63.37	63.39	62.69	
5	62.20	60.94	60.92	63.49	63.80	64.18	63.73	63.62	63.54	63.31	63.39	62.66	
6	62.16	60.92	60.92	63.49	63.74	64.16	64.06	63.64	63.54	63.26	63.39	62.63	
7	61.35	60.94	61.09	63.47	64.05	64.09	63.86	63.72	63.53	63.31	63.39	62.61	
8	62.09	60.92	61.07	63.52	63.91	63.89	63.79	63.64	63.53	63.36	63.39	62.56	
9	60.90	60.91	60.97	63.46	63.86	63.79	63.76	63.64	63.52	63.41	63.39	62.54	
10	60.96	60.90	60.92	63.52	64.36	63.69	63.76	63.64	63.52	63.46	63.39	62.46	
11	60.94	60.90	60.92	63.72	63.92	63.79	63.71	63.66	63.48	63.54	63.36	62.39	
12	60.94	60.99	60.92	63.69	63.75	63.76	63.77	63.64	63.46	63.53	63.36	62.32	
13	60.96	60.90	60.92	63.69	63.64	63.66	63.94	63.62	63.45	63.54	63.36	62.29	
14	60.94	60.90	60.92	63.81	63.60	63.64	63.82	63.69	63.44	63.51	63.36	62.24	
15	61.06	60.90	60.92	63.90	63.64	63.62	63.74	63.56	63.48	63.50	63.36	62.19	
16	61.14	60.90	60.92	63.79	63.71	63.98	63.74	63.54	63.47	63.48	63.36	62.11	
17	61.07	60.90	62.15	63.72	64.07	63.95	63.72	63.52	63.46	63.48	63.36	62.09	
18	61.05	60.90	61.36	63.82	64.37	63.89	63.70	63.53	63.46	63.46	63.34	62.07	
19	60.92	60.90	61.11	63.72	64.39	63.84	63.66	63.56	63.41	63.45	63.34	62.03	
20	60.95	60.90	61.02	63.72	64.16	63.84	63.68	63.54	63.37	63.44	63.34	61.99	
21	60.95	60.90	60.92	63.75	64.02	63.79	63.70	63.56	63.37	63.46	63.34	61.96	
22	60.95	60.90	60.92	63.70	63.91	63.74	63.72	63.56	63.38	63.43	63.34	61.89	
23	60.95	60.90	60.92	63.69	63.74	63.74	64.03	63.53	63.39	63.40	63.34	61.89	
24	61.03	60.90	60.92	63.64	63.69	63.74	64.33	63.51	63.37	63.37	63.34	61.89	
25	61.06	60.90	60.96	63.58	63.66	63.74	65.18	63.50	63.34	63.35	63.34	61.89	
26	60.94	60.90	61.13	63.60	63.66	63.72	64.16	63.50	63.39	63.33	63.34	61.89	
27	60.95	60.90	62.58	63.69	63.64	63.72	64.00	63.50	63.43	63.31	63.34	61.89	
28	60.95	60.90	63.14	63.69	63.99	63.72	63.99	63.50	63.44	63.27	63.34	61.90	
29	61.05	61.77	63.39	63.69	63.99	63.69	63.99	63.49	63.44	63.24		61.90	
30	60.99	61.69	63.39	63.69	63.99	63.69	63.99	63.49	63.43	63.24		61.90	
31		61.64		63.69	63.99		63.96		63.41	63.34		61.90	
Mean	61.15	60.99	61.30	63.65	63.88	63.89	63.91	63.59	63.46	63.40	63.36	62.23	
Max	62.20	61.77	63.39	63.90	64.39	65.00	65.18	63.72	63.54	63.54	63.39	62.84	65.18
Min	60.90	60.90	60.92	63.46	63.60	63.62	63.66	63.49	63.34	63.24	63.34	61.89	60.90

Annual Max Momentary Gage Height	65.33	m. (MSL.) ,	at 06.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	60.89	m. (MSL.) ,	River Bed	59.14	m. (MSL.)
Left Bank Elevation	68.22	m. (MSL.) ,			
Right Bank Elevation	68.24	m. (MSL.) ,	Drainage Area	225	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.04	1.16	1.16	4.92	10.00	11.00	9.20	6.24	4.38	3.40	3.37	2.08		
2	3.59	0.85	0.65	4.73	7.08	35.00	9.60	5.76	4.38	3.54	3.37	1.99		
3	3.04	0.60	0.60	4.66	6.00	73.80	10.00	5.28	4.38	3.37	3.37	1.95		
4	2.52	0.80	0.60	4.38	5.52	21.30	7.40	5.04	4.38	3.31	3.37	1.89		
5	15.80	0.70	0.60	4.03	7.20	17.32	6.36	5.04	4.38	3.13	3.37	1.86		
6	15.20	0.60	0.60	4.03	6.48	16.64	13.24	5.28	4.38	2.98	3.37	1.83		
7	4.25	0.70	1.72	3.89	12.90	14.26	8.40	6.24	4.31	3.13	3.37	1.81		
8	14.15	0.60	1.56	4.24	9.40	9.00	7.08	5.28	4.31	3.28	3.37	1.76		
9	0.50	0.55	0.85	3.82	8.40	7.08	6.72	5.28	4.24	3.47	3.37	1.74		
10	0.80	0.50	0.60	4.24	26.80	5.88	6.72	5.28	4.24	3.82	3.37	1.66		
11	0.70	0.50	0.60	6.24	9.60	7.08	6.12	5.52	3.96	4.38	3.28	1.59		
12	0.70	0.95	0.60	5.88	6.60	6.72	6.84	5.28	3.82	4.31	3.28	1.52		
13	0.80	0.50	0.60	5.88	5.28	5.52	10.00	5.04	3.75	4.38	3.28	1.49		
14	0.70	0.50	0.60	7.40	4.80	5.28	7.60	5.88	3.68	4.17	3.28	1.44		
15	1.48	0.50	0.60	9.20	5.28	5.04	6.48	4.52	3.96	4.10	3.28	1.39		
16	2.12	0.50	0.60	7.08	6.12	10.80	6.48	4.38	3.89	3.96	3.28	1.31		
17	1.56	0.50	15.05	6.24	13.58	10.20	6.24	4.24	3.82	3.96	3.28	1.29		
18	1.40	0.50	4.36	7.60	27.35	9.00	6.00	4.31	3.82	3.82	3.22	1.27		
19	0.60	0.50	1.88	6.24	28.45	8.00	5.52	4.52	3.47	3.75	3.22	1.23		
20	0.75	0.50	1.16	6.24	16.64	8.00	5.76	4.38	3.31	3.68	3.22	1.19		
21	0.75	0.50	0.60	6.60	11.88	7.08	6.00	4.52	3.31	3.82	3.22	1.16		
22	0.75	0.50	0.60	6.00	9.40	6.48	6.24	4.52	3.34	3.61	3.22	1.09		
23	0.75	0.50	0.60	5.88	6.48	6.48	12.22	4.31	3.37	3.40	3.22	1.09		
24	1.24	0.50	0.60	5.28	5.88	6.48	25.15	4.17	3.31	3.31	3.22	1.09		
25	1.48	0.50	0.80	4.66	5.52	6.48	78.48	4.10	3.22	3.25	3.22	1.09		
26	0.70	0.50	0.33	4.80	5.52	6.24	16.64	4.10	3.37	3.19	3.22	1.09		
27	0.75	0.50	1.78	5.88	5.28	6.24	11.20	4.10	3.61	3.13	3.22	1.09		
28	0.75	0.50	2.68	5.88	11.00	6.24	11.00	4.10	3.68	3.01	3.22	1.10		
29	1.40	9.58	3.37	5.88	11.00	5.88	11.00	4.03	3.68	2.92		1.10		
30	0.95	8.46	3.37	5.88	11.00	5.88	11.00	4.03	3.61	2.92		1.10		
31		7.76		5.88	11.00		10.40		3.47	3.22		1.10		
Total	85.22	42.31	49.72	173.56	317.44	350.40	351.09	144.77	118.83	109.72	92.08	44.39	1879.53	CMSDAY
Mean	2.84	1.36	1.66	5.60	10.24	11.68	11.33	4.83	3.83	3.54	3.29	1.43	5.15	CMS
Max	15.80	9.58	15.05	9.20	28.45	73.80	78.48	6.24	4.38	4.38	3.37	2.08	78.48	CMS
Min	0.50	0.50	0.33	3.82	4.80	5.04	5.52	4.03	3.22	2.92	3.22	1.09	0.33	CMS
Runoff	7.36	3.66	4.30	15.00	27.43	30.28	30.33	12.51	10.27	9.48	7.96	3.84	162.39	MCM

Momentary Peak 82.38 CMS. at 65.33 m. (MSL.) at 06.00 Hours , on Sep 3 , 2014

Runoff Yield 22.89 Liters/Second/Square KM. Momentary Peak Yield 366.133 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Khek River at Ban Tan Tawan , Phetchabun (N.73)

Lat 16 - 33 - 24 N Long 100 - 53 - 44 E

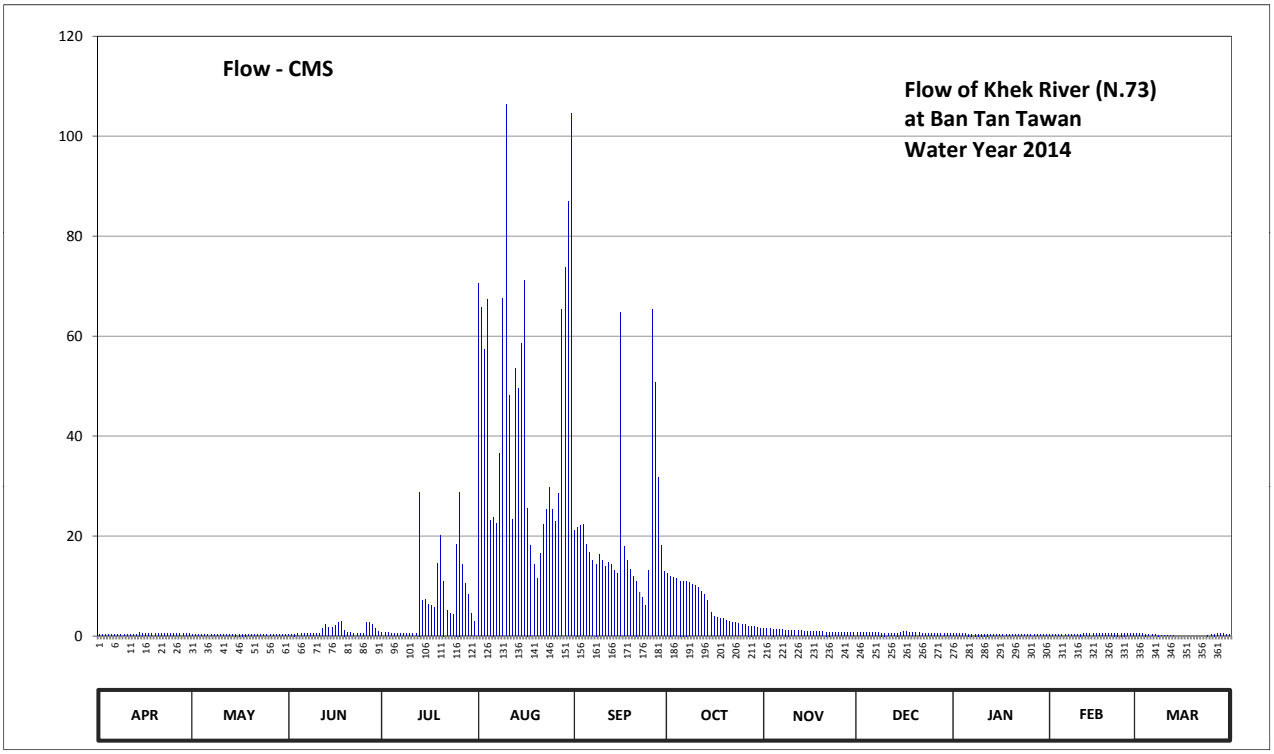
Location : on right bank at Ban Tan Tawan.

	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** +694.038 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2002 to date		
Rating Operation			
Period of Rating	2002 to date		
Rated by Flot	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Fairly stable with variable water surface slop.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.55	685.56	685.58	685.73	689.39	687.55	687.03	685.93	685.73	685.63	685.54	685.67	
2	685.55	685.56	685.58	685.72	689.24	687.59	687.00	685.93	685.73	685.63	685.54	685.65	
3	685.54	685.56	685.61	685.71	688.98	687.61	686.98	685.93	685.73	685.62	685.54	685.63	
4	685.54	685.56	685.62	685.69	689.29	687.63	686.96	685.92	685.72	685.62	685.53	685.61	
5	685.54	685.57	685.63	685.68	687.71	687.39	686.93	685.91	685.72	685.62	685.53	685.58	
6	685.54	685.57	685.64	685.67	687.78	687.30	686.93	685.89	685.72	685.61	685.53	685.56	
7	685.53	685.57	685.65	685.66	687.66	687.21	686.93	685.89	685.71	685.61	685.56	685.53	
8	685.54	685.57	685.66	685.65	688.26	687.16	686.91	685.88	685.71	685.61	685.57	685.51	
9	685.55	685.58	685.67	685.64	689.30	687.28	686.88	685.88	685.70	685.60	685.58	685.49	
10	685.56	685.58	685.68	685.63	690.29	687.21	686.86	685.86	685.70	685.60	685.59	685.47	
11	685.54	685.58	685.69	685.63	688.68	687.13	686.83	685.86	685.69	685.60	685.61	685.45	
12	685.54	685.59	685.94	685.68	687.74	687.18	686.78	685.85	685.69	685.60	685.63	685.43	
13	685.54	685.59	686.07	687.95	688.86	687.15	686.73	685.85	685.68	685.59	685.65	685.41	
14	685.74	685.59	685.98	686.63	688.73	687.07	686.63	685.84	685.70	685.59	685.66	685.39	
15	685.65	685.60	685.99	686.64	689.02	687.03	686.39	685.84	685.77	685.59	685.67	685.37	
16	685.68	685.60	686.05	686.55	689.41	689.21	686.28	685.83	685.81	685.59	685.68	685.35	
17	685.66	685.60	686.12	686.53	687.85	687.37	686.26	685.83	685.83	685.58	685.68	685.33	
18	685.66	685.60	686.16	686.49	687.38	687.21	686.23	685.83	685.77	685.58	685.68	685.33	
19	685.66	685.58	685.88	687.17	687.15	687.09	686.23	685.83	685.73	685.58	685.69	685.33	
20	685.66	685.58	685.78	687.50	686.96	686.99	686.18	685.81	685.73	685.58	685.69	685.33	
21	685.66	685.57	685.73	686.93	687.29	686.93	686.16	685.80	685.71	685.58	685.69	685.34	
22	685.66	685.57	685.68	686.43	687.63	686.77	686.13	685.79	685.69	685.58	685.70	685.36	
23	685.66	685.56	685.67	686.36	687.84	686.67	686.13	685.78	685.68	685.57	685.70	685.40	
24	685.66	685.56	685.66	686.33	687.98	686.53	686.10	685.77	685.67	685.57	685.70	685.51	
25	685.67	685.56	685.65	687.40	687.84	687.07	686.08	685.75	685.66	685.57	685.70	685.58	
26	685.67	685.56	686.14	687.95	687.70	689.23	686.06	685.75	685.65	685.56	685.69	685.60	
27	685.68	685.55	686.13	687.15	687.94	688.77	686.03	685.74	685.64	685.56	685.68	685.63	
28	685.68	685.55	686.07	686.90	689.23	688.06	686.03	685.74	685.63	685.56	685.68	685.69	
29	685.68	685.54	685.95	686.72	689.48	687.38	686.01	685.73	685.63	685.55		685.63	
30	685.68	685.54	685.83	686.37	689.83	687.06	685.98	685.73	685.63	685.55		685.59	
31		685.53		686.16	690.25		685.93		685.63	685.55		685.53	
Mean	685.62	685.57	685.82	686.40	688.47	687.39	686.47	685.83	685.70	685.59	685.63	685.49	
Max	685.74	685.60	686.16	687.95	690.29	689.23	687.03	685.93	685.83	685.63	685.70	685.69	690.29
Min	685.53	685.53	685.58	685.63	686.96	686.53	685.93	685.73	685.63	685.55	685.53	685.33	685.33

Annual Max Momentary Gage Height	690.76	m. (MSL.) ,	at 06.00 Hours , on Aug 10 , 2014		
Zero Gage at Bottom Elevation	684.53	m. (MSL.) ,	River Bed	685.50	m. (MSL.)
Left Bank Elevation	691.71	m. (MSL.) ,			
Right Bank Elevation	691.16	m. (MSL.) ,	Drainage Area	213	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.32	0.36	0.66	70.48	21.10	12.45	1.45	0.66	0.46	0.28	0.54		
2	0.30	0.32	0.36	0.64	65.68	21.82	12.00	1.45	0.66	0.46	0.28	0.50		
3	0.28	0.32	0.42	0.62	57.36	22.10	11.72	1.45	0.66	0.44	0.28	0.46		
4	0.28	0.32	0.44	0.58	67.28	22.30	11.44	1.40	0.64	0.44	0.26	0.42		
5	0.28	0.34	0.46	0.56	23.10	18.23	11.02	1.35	0.64	0.44	0.26	0.36		
6	0.28	0.34	0.48	0.54	23.80	16.70	11.02	1.25	0.64	0.42	0.26	0.32		
7	0.26	0.34	0.50	0.52	22.60	15.17	11.02	1.25	0.62	0.42	0.32	0.26		
8	0.28	0.34	0.52	0.50	36.62	14.40	10.74	1.20	0.62	0.42	0.34	0.22		
9	0.30	0.36	0.54	0.48	67.60	16.36	10.32	1.20	0.60	0.40	0.36	0.18		
10	0.32	0.36	0.56	0.46	106.32	15.17	10.04	1.10	0.60	0.40	0.38	0.14		
11	0.28	0.36	0.58	0.46	48.12	13.95	9.62	1.10	0.58	0.40	0.42	0.10		
12	0.28	0.38	1.50	0.56	23.40	14.70	8.96	1.05	0.58	0.40	0.46	0.06		
13	0.28	0.38	2.29	28.80	53.52	14.25	8.36	1.05	0.56	0.38	0.50	0.02		
14	0.68	0.38	1.70	7.16	49.57	13.05	7.16	1.00	0.60	0.38	0.52	0.00		
15	0.50	0.40	1.75	7.28	58.64	12.45	4.72	1.00	0.74	0.38	0.54	0.00		
16	0.56	0.40	2.15	6.30	71.17	64.72	3.84	0.95	0.85	0.38	0.56	0.00		
17	0.52	0.40	2.64	6.10	25.60	17.89	3.68	0.95	0.95	0.36	0.56	0.00		
18	0.52	0.40	2.92	5.70	18.06	15.17	3.44	0.95	0.74	0.36	0.56	0.00		
19	0.52	0.36	1.20	14.55	14.25	13.35	3.44	0.95	0.66	0.36	0.58	0.00		
20	0.52	0.36	0.76	20.20	11.44	11.86	3.06	0.85	0.66	0.36	0.58	0.00		
21	0.52	0.34	0.66	11.02	16.53	11.02	2.92	0.80	0.62	0.36	0.58	0.00		
22	0.52	0.34	0.56	5.10	22.30	8.84	2.71	0.78	0.58	0.36	0.60	0.00		
23	0.52	0.32	0.54	4.48	25.28	7.64	2.71	0.76	0.56	0.34	0.60	0.00		
24	0.52	0.32	0.52	4.24	29.76	6.10	2.50	0.74	0.54	0.34	0.60	0.22		
25	0.54	0.32	0.50	18.40	25.28	13.05	2.36	0.70	0.52	0.34	0.60	0.36		
26	0.54	0.32	2.78	28.80	23.00	65.36	2.22	0.70	0.50	0.32	0.58	0.40		
27	0.56	0.30	2.71	14.25	28.48	50.73	2.01	0.68	0.48	0.32	0.56	0.46		
28	0.56	0.30	2.29	10.60	65.36	31.78	2.01	0.68	0.46	0.32	0.56	0.58		
29	0.56	0.28	1.55	8.24	73.76	18.06	1.87	0.66	0.46	0.30		0.46		
30	0.56	0.28	0.95	4.56	86.86	12.90	1.70	0.66	0.46	0.30		0.38		
31		0.26		2.92	104.62		1.45		0.46	0.30		0.26		
Total	12.94	10.56	35.19	215.28	1415.84	600.22	192.51	30.11	18.90	11.66	12.98	6.70	2562.89	CMSDAY
Mean	0.43	0.34	1.17	6.94	45.67	20.01	6.21	1.00	0.61	0.38	0.46	0.22	7.02	CMS
Max	0.68	0.40	2.92	28.80	106.32	65.36	12.45	1.45	0.95	0.46	0.60	0.58	106.32	CMS
Min	0.26	0.26	0.36	0.46	11.44	6.10	1.45	0.66	0.46	0.30	0.26	0.00	0.00	CMS
Runoff	1.12	0.91	3.04	18.60	122.33	51.86	16.63	2.60	1.63	1.01	1.12	0.58	221.43	MCM

Momentary Peak 126.48 CMS. at 690.76 m. (MSL.) at 06.00 Hours , on Aug 10 , 2014

Runoff Yield 32.97 Liters/Second/Square KM. Momentary Peak Yield 593.803 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Bang Krathum , Phitsanulok (N.74)

Lat 16 - 34 - 38 N Long 100 - 14 - 33 E

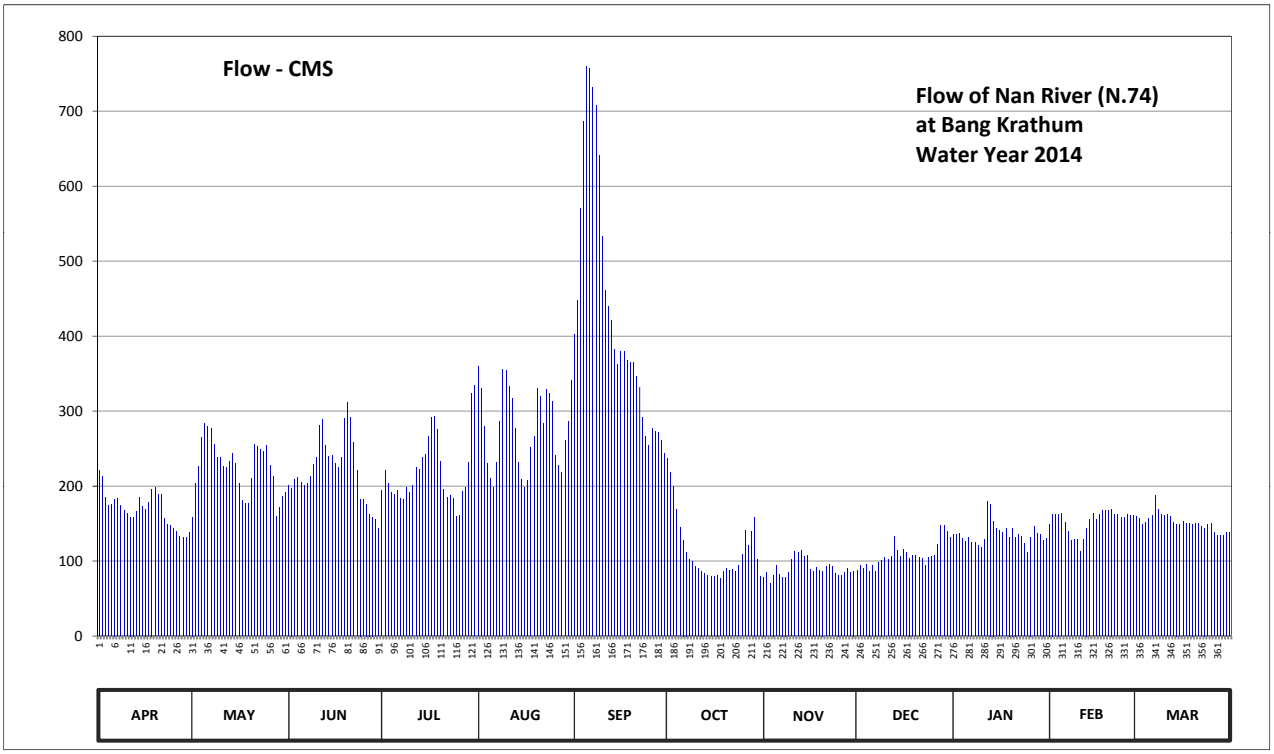
Location : on left bank at Bang Krathum.

	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 Flot	-				
Rated by Current Meter	2001 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.10	31.54	31.92	31.86	33.18	33.48	32.23	30.72	30.82	31.31	31.45	31.55	
2	32.03	31.95	31.89	32.10	32.96	33.79	32.07	30.78	30.89	31.31	31.58	31.52	
3	31.78	32.14	31.99	31.95	32.57	34.62	31.91	30.62	30.85	31.33	31.57	31.44	
4	31.68	32.46	32.01	31.84	32.18	35.37	31.63	30.75	30.90	31.26	31.58	31.47	
5	31.69	32.61	31.96	31.82	32.00	35.83	31.41	30.89	30.81	31.22	31.59	31.52	
6	31.76	32.57	31.92	31.86	31.90	35.81	31.24	30.76	30.89	31.27	31.47	31.56	
7	31.77	32.55	31.94	31.77	32.19	35.66	31.08	30.72	30.81	31.21	31.36	31.80	
8	31.68	32.39	32.03	31.75	32.63	35.51	30.98	30.72	30.94	31.21	31.23	31.63	
9	31.62	32.24	32.17	31.90	33.15	35.08	30.95	30.79	30.97	31.17	31.25	31.57	
10	31.59	32.24	32.25	31.84	33.14	34.37	30.88	30.98	31.01	31.14	31.25	31.56	
11	31.54	32.14	32.58	31.92	32.98	33.88	30.84	31.09	30.98	31.25	31.09	31.57	
12	31.54	32.13	32.65	32.13	32.86	33.74	30.81	31.07	31.02	31.73	31.25	31.55	
13	31.61	32.20	32.38	32.11	32.55	33.61	30.77	31.10	31.29	31.70	31.40	31.47	
14	31.78	32.29	32.26	32.24	32.19	33.34	30.74	31.02	31.10	31.49	31.51	31.45	
15	31.67	32.18	32.27	32.28	31.99	33.20	30.73	31.04	31.02	31.39	31.59	31.44	
16	31.64	31.95	32.18	32.47	31.90	33.32	30.73	30.83	31.11	31.37	31.51	31.48	
17	31.72	31.74	32.13	32.67	31.98	33.32	30.75	30.81	31.07	31.34	31.57	31.46	
18	31.88	31.71	32.24	32.68	32.36	33.23	30.70	30.86	31.00	31.39	31.62	31.46	
19	31.90	31.71	32.66	32.54	32.47	33.21	30.80	30.82	31.03	31.28	31.62	31.45	
20	31.81	32.00	32.82	32.20	32.96	33.21	30.84	30.81	31.03	31.40	31.62	31.46	
21	31.81	32.39	32.67	31.87	32.88	33.08	30.82	30.87	31.01	31.28	31.64	31.46	
22	31.52	32.37	32.41	31.78	32.61	32.97	30.83	30.90	30.99	31.31	31.57	31.42	
23	31.44	32.33	32.09	31.80	32.95	32.67	30.80	30.88	30.89	31.29	31.57	31.40	
24	31.43	32.31	31.76	31.77	32.91	32.47	30.89	30.77	31.01	31.20	31.53	31.44	
25	31.39	32.38	31.75	31.55	32.83	32.38	31.05	30.75	31.02	31.07	31.53	31.46	
26	31.36	32.15	31.70	31.56	32.27	32.55	31.37	30.74	31.03	31.28	31.57	31.34	
27	31.29	32.03	31.58	31.85	32.15	32.52	31.17	30.78	31.18	31.42	31.56	31.30	
28	31.27	31.55	31.54	31.90	32.07	32.51	31.36	30.84	31.43	31.33	31.56	31.30	
29	31.27	31.66	31.51	32.19	32.43	32.43	31.54	30.78	31.43	31.32		31.30	
30	31.34	31.79	31.39	32.91	32.63	32.29	30.98	30.81	31.35	31.24		31.34	
31		31.84		32.99	33.04		30.73		31.28	31.26		31.34	
Mean	31.63	32.11	32.09	32.07	32.55	33.65	31.08	30.84	31.04	31.32	31.49	31.47	
Max	32.10	32.61	32.82	32.99	33.18	35.83	32.23	31.10	31.43	31.73	31.64	31.80	35.83
Min	31.27	31.54	31.39	31.55	31.90	32.29	30.70	30.62	30.81	31.07	31.09	31.30	30.62

Annual Max Momentary Gage Height	35.89	m. (MSL.) ,	at 18.00 Hours , on Sep 5 , 2014		
Zero Gage at Bottom Elevation	29.36	m. (MSL.) ,	River Bed	28.04	m. (MSL.)
Left Bank Elevation	44.40	m. (MSL.) ,			
Right Bank Elevation	44.46	m. (MSL.) ,	Drainage Area	25489	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	221.50	158.70	200.80	193.90	360.30	402.60	236.60	78.80	87.80	135.00	149.25	159.75		
2	213.45	204.25	197.35	221.50	330.60	447.55	218.05	84.20	94.10	135.00	162.90	156.60		
3	184.80	226.10	208.85	204.25	279.10	570.10	199.65	69.80	90.50	137.00	161.85	148.20		
4	173.80	264.80	211.15	191.60	230.70	686.35	168.30	81.50	95.00	130.00	162.90	151.35		
5	174.90	284.30	205.40	189.30	210.00	759.95	145.05	94.10	86.90	126.00	163.95	156.60		
6	182.60	279.10	200.80	193.90	198.50	756.65	128.00	82.40	94.10	131.00	151.35	160.80		
7	183.70	276.50	203.10	183.70	231.85	731.90	112.00	78.80	86.90	125.00	140.00	187.00		
8	173.80	255.80	213.45	181.50	286.90	708.05	102.20	78.80	98.60	125.00	127.00	168.30		
9	167.20	237.80	229.55	198.50	356.25	641.40	99.50	85.10	101.30	121.00	129.00	161.85		
10	163.95	237.80	239.00	191.60	354.90	532.50	93.20	102.20	105.00	118.00	129.00	160.80		
11	158.70	226.10	280.40	200.80	333.30	460.60	89.60	113.00	102.20	129.00	113.00	161.85		
12	158.70	224.95	289.50	224.95	317.10	440.30	86.90	111.00	106.00	179.30	129.00	159.75		
13	166.10	233.00	254.60	222.65	276.50	421.45	83.30	114.00	133.00	176.00	144.00	151.35		
14	184.80	243.80	240.20	237.80	231.85	382.60	80.60	106.00	114.00	153.45	155.55	149.25		
15	172.70	230.70	241.40	242.60	208.85	363.00	79.70	108.00	106.00	143.00	163.95	148.20		
16	169.40	204.25	230.70	266.10	198.50	379.80	79.70	88.70	115.00	141.00	155.55	152.40		
17	178.20	180.40	224.95	292.10	207.70	379.80	81.50	86.90	111.00	138.00	161.85	150.30		
18	196.20	177.10	237.80	293.40	252.20	367.20	77.00	91.40	104.00	143.00	167.20	150.30		
19	198.50	177.10	290.80	275.20	266.10	364.40	86.00	87.80	107.00	132.00	167.20	149.25		
20	188.15	210.00	311.70	233.00	330.60	364.40	89.60	86.90	107.00	144.00	167.20	150.30		
21	188.15	255.80	292.10	195.05	319.80	346.80	87.80	92.30	105.00	132.00	169.40	150.30		
22	156.60	253.40	258.30	184.80	284.30	331.95	88.70	95.00	103.10	135.00	161.85	146.10		
23	148.20	248.60	220.35	187.00	329.25	292.10	86.00	93.20	94.10	133.00	161.85	144.00		
24	147.15	246.20	182.60	183.70	323.85	266.10	94.10	83.30	105.00	124.00	157.65	148.20		
25	143.00	254.60	181.50	159.75	313.05	254.60	109.00	81.50	106.00	111.00	157.65	150.30		
26	140.00	227.25	176.00	160.80	241.40	276.50	141.00	80.60	107.00	132.00	161.85	138.00		
27	133.00	213.45	162.90	192.75	227.25	272.60	121.00	84.20	122.00	146.10	160.80	134.00		
28	131.00	159.75	158.70	198.50	218.05	271.30	140.00	89.60	147.15	137.00	160.80	134.00		
29	131.00	171.60	155.55	231.85	260.90	260.90	158.70	84.20	147.15	136.00		134.00		
30	138.00	185.90	143.00	323.85	286.90	243.80	102.20	86.90	139.00	128.00		138.00		
31		191.60		334.65	341.40		79.70		132.00	130.00		138.00		
Total	5067.25	6940.70	6642.50	6791.05	8607.95	12977.25	3544.65	2700.20	3352.90	4205.85	4293.55	4689.10	69812.95	CMSDAY
Mean	168.91	223.89	221.42	219.07	277.68	432.57	114.34	90.01	108.16	135.67	153.34	151.26	191.27	CMS
Max	221.50	284.30	311.70	334.65	360.30	759.95	236.60	114.00	147.15	179.30	169.40	187.00	759.95	CMS
Min	131.00	158.70	143.00	159.75	198.50	243.80	77.00	69.80	86.90	111.00	113.00	134.00	69.80	CMS
Runoff	437.81	599.68	573.91	586.75	743.73	1121.23	306.26	233.30	289.69	363.39	370.96	405.14	6031.84	MCM

Momentary Peak 769.85 CMS. at 35.89 m. (MSL.) at 18.00 Hours , on Sep 5 , 2014

Runoff Yield 7.50 Liters/Second/Square KM. Momentary Peak Yield 30.203 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nam Wa at Tha Li Bridge , Nan (N.75)

Lat 18 - 33 - 00 N Long 100 - 48 - 41 E

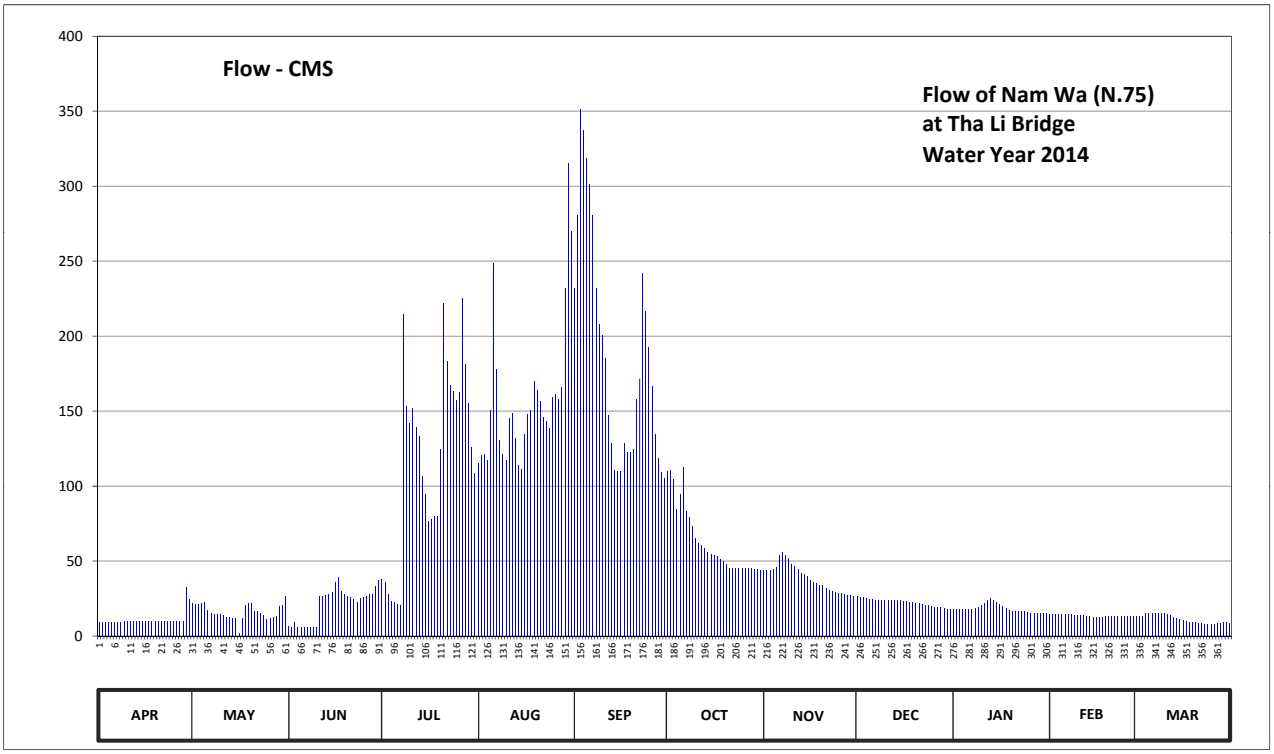
Location : on left bank at the bridge.

	Ban Tha Li Bridge	**Amphoe** Wiang Sa	**Changwat** Nan
Drainge Area	2,170 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+182.805 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the approach of the bridge.		**Elevation** +196.616 m. (MSL.)
Gage Reading Frequency	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 Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 44 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.09	184.41	183.99	184.74	185.88	187.17	185.81	184.85	184.52	184.33	184.24	184.20	
2	184.09	184.40	183.96	184.70	185.95	187.63	185.82	184.85	184.51	184.33	184.24	184.20	
3	184.09	184.40	184.08	184.56	185.96	188.24	185.74	184.85	184.51	184.33	184.24	184.20	
4	184.09	184.41	183.95	184.45	185.91	188.12	185.47	184.86	184.50	184.33	184.24	184.25	
5	184.09	184.44	183.95	184.44	186.31	187.96	185.61	184.88	184.49	184.33	184.23	184.26	
6	184.09	184.31	183.94	184.40	187.33	187.81	185.85	185.01	184.48	184.33	184.23	184.26	
7	184.09	184.25	183.94	184.38	186.63	187.63	185.45	185.04	184.47	184.33	184.23	184.26	
8	184.09	184.24	183.95	187.00	186.08	187.17	185.40	185.01	184.46	184.34	184.23	184.26	
9	184.11	184.23	183.95	186.34	185.96	186.93	185.31	184.98	184.46	184.35	184.22	184.26	
10	184.11	184.23	183.95	186.21	185.91	186.86	185.19	184.91	184.46	184.38	184.22	184.25	
11	184.10	184.21	184.53	186.33	186.25	186.70	185.13	184.89	184.46	184.41	184.21	184.23	
12	184.10	184.19	184.53	186.18	186.29	186.27	185.11	184.86	184.46	184.46	184.21	184.21	
13	184.10	184.18	184.54	186.11	186.09	186.05	185.08	184.81	184.46	184.50	184.20	184.19	
14	184.10	184.17	184.56	185.77	185.86	185.82	185.04	184.80	184.46	184.46	184.20	184.17	
15	184.10	184.16	184.58	185.61	185.83	185.81	185.02	184.78	184.46	184.43	184.19	184.15	
16	184.10	183.74	184.70	185.36	186.12	185.81	185.01	184.73	184.45	184.40	184.19	184.13	
17	184.11	184.16	184.76	185.38	186.28	186.05	185.00	184.71	184.45	184.37	184.19	184.11	
18	184.11	184.38	184.60	185.41	186.31	185.98	184.97	184.69	184.44	184.34	184.19	184.09	
19	184.11	184.41	184.56	185.41	186.54	185.98	184.95	184.67	184.43	184.31	184.20	184.09	
20	184.11	184.42	184.52	186.01	186.47	186.01	184.91	184.67	184.42	184.29	184.20	184.08	
21	184.11	184.29	184.51	187.07	186.38	186.40	184.87	184.63	184.41	184.29	184.20	184.07	
22	184.11	184.29	184.48	186.68	186.26	186.56	184.87	184.61	184.40	184.29	184.20	184.06	
23	184.10	184.25	184.44	186.51	186.23	187.26	184.87	184.59	184.39	184.28	184.20	184.04	
24	184.10	184.21	184.50	186.46	186.17	187.02	184.87	184.58	184.38	184.28	184.20	184.03	
25	184.10	184.15	184.51	186.39	186.41	186.78	184.87	184.57	184.37	184.27	184.20	184.03	
26	184.10	184.16	184.53	186.45	186.44	186.50	184.87	184.57	184.36	184.26	184.20	184.03	
27	184.10	184.19	184.56	187.10	186.40	186.12	184.87	184.56	184.35	184.26	184.20	184.05	
28	184.10	184.20	184.55	186.66	186.49	185.93	184.87	184.54	184.35	184.26	184.20	184.06	
29	184.64	184.37	184.66	186.37	187.17	185.80	184.86	184.54	184.34	184.25		184.08	
30	184.49	184.39	184.73	186.02	187.93	185.75	184.86	184.53	184.33	184.25		184.08	
31		184.53		185.79	187.53		184.85		184.33	184.25		184.07	
Mean	184.13	184.27	184.37	185.82	186.37	186.67	185.14	184.75	184.43	184.33	184.21	184.14	
Max	184.64	184.53	184.76	187.10	187.93	188.24	185.85	185.04	184.52	184.50	184.24	184.26	188.24
Min	184.09	183.74	183.94	184.38	185.83	185.75	184.85	184.53	184.33	184.25	184.19	184.03	183.74

Annual Max Momentary Gage Height	188.26	m. (MSL.) ,	at 10.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	182.80	m. (MSL.) ,	River Bed	180.84	m. (MSL.)
Left Bank Elevation	196.56	m. (MSL.) ,			
Right Bank Elevation	196.48	m. (MSL.) ,	Drainage Area	2170	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.23	21.42	6.57	37.70	115.00	232.21	109.75	44.00	26.16	18.06	14.52	13.00		
2	9.23	21.00	5.88	35.50	120.25	280.45	110.50	44.00	25.68	18.06	14.52	13.00		
3	9.23	21.00	8.96	28.08	121.00	351.20	104.50	44.00	25.68	18.06	14.52	13.00		
4	9.23	21.42	5.65	23.10	117.25	337.10	84.25	44.60	25.20	18.06	14.52	14.90		
5	9.23	22.68	5.65	22.68	150.35	318.40	94.75	45.80	24.78	18.06	14.14	15.28		
6	9.23	17.22	5.42	21.00	248.87	301.15	112.75	53.65	24.36	18.06	14.14	15.28		
7	9.23	14.90	5.42	20.16	177.96	280.45	82.75	55.60	23.94	18.06	14.14	15.28		
8	9.23	14.52	5.65	214.50	130.80	232.21	79.00	53.65	23.52	18.48	14.14	15.28		
9	9.85	14.14	5.65	152.90	121.00	207.59	73.15	51.80	23.52	18.90	13.76	15.28		
10	9.85	14.14	5.65	141.85	117.25	200.67	65.35	47.60	23.52	20.16	13.76	14.90		
11	9.50	13.38	26.64	152.05	145.25	184.87	61.45	46.40	23.52	21.42	13.38	14.14		
12	9.50	12.65	26.64	139.30	148.65	146.95	60.15	44.60	23.52	23.52	13.38	13.38		
13	9.50	12.30	27.12	133.35	131.65	128.25	58.20	41.60	23.52	25.20	13.00	12.65		
14	9.50	11.95	28.08	106.75	113.50	110.50	55.60	41.00	23.52	23.52	13.00	11.95		
15	9.50	11.60	29.04	94.75	111.25	109.75	54.30	39.90	23.52	22.26	12.65	11.25		
16	9.50	1.72	35.50	76.40	134.20	109.75	53.65	37.15	23.10	21.00	12.65	10.55		
17	9.85	11.60	38.80	77.70	147.80	128.25	53.00	36.05	23.10	19.74	12.65	9.85		
18	9.85	20.16	30.00	79.75	150.35	122.50	51.20	34.95	22.68	18.48	12.65	9.23		
19	9.85	21.42	28.08	79.75	169.90	122.50	50.00	33.85	22.26	17.22	13.00	9.23		
20	9.85	21.84	26.16	124.85	163.95	124.85	47.60	33.85	21.84	16.42	13.00	8.96		
21	9.85	16.42	25.68	221.79	156.30	158.00	45.20	31.65	21.42	16.42	13.00	8.69		
22	9.85	16.42	24.36	182.90	146.10	171.60	45.20	30.55	21.00	16.42	13.00	8.42		
23	9.50	14.90	22.68	167.35	143.55	241.58	45.20	29.52	20.58	16.04	13.00	7.88		
24	9.50	13.38	25.20	163.10	138.45	216.58	45.20	29.04	20.16	16.04	13.00	7.61		
25	9.50	11.25	25.68	157.15	158.85	192.77	45.20	28.56	19.74	15.66	13.00	7.61		
26	9.50	11.60	26.64	162.25	161.40	166.50	45.20	28.56	19.32	15.28	13.00	7.61		
27	9.50	12.65	28.08	224.92	158.00	134.20	45.20	28.08	18.90	15.28	13.00	8.15		
28	9.50	13.00	27.60	180.92	165.65	118.75	45.20	27.12	18.90	15.28	13.00	8.42		
29	32.20	19.74	33.30	155.45	232.21	109.00	44.60	27.12	18.48	14.90		8.96		
30	24.78	20.58	37.15	125.70	314.95	105.25	44.60	26.64	18.06	14.90		8.96		
31		26.64		108.25	269.71		44.00		18.06	14.90		8.69		
Total	323.62	497.64	632.93	3611.90	4881.40	5643.83	1956.70	1160.89	691.56	563.86	375.52	347.39	20687.24	CMSDAY
Mean	10.79	16.05	21.10	116.51	157.46	188.13	63.12	38.70	22.31	18.19	13.41	11.21	56.68	CMS
Max	32.20	26.64	38.80	224.92	314.95	351.20	112.75	55.60	26.16	25.20	14.52	15.28	351.20	CMS
Min	9.23	1.72	5.42	20.16	111.25	105.25	44.00	26.64	18.06	14.90	12.65	7.61	1.72	CMS
Runoff	27.96	43.00	54.69	312.07	421.75	487.63	169.06	100.30	59.75	48.72	32.45	30.01	1787.38	MCM

Momentary Peak 353.55 CMS. at 188.26 m. (MSL.) at 10.00 Hours , on Sep 3 , 2014

Runoff Yield 26.12 Liters/Second/Square KM. Momentary Peak Yield 162.926 Liters/Second/Square KM.

WATER YEAR : 2014

NAN RIVER BASIN

Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

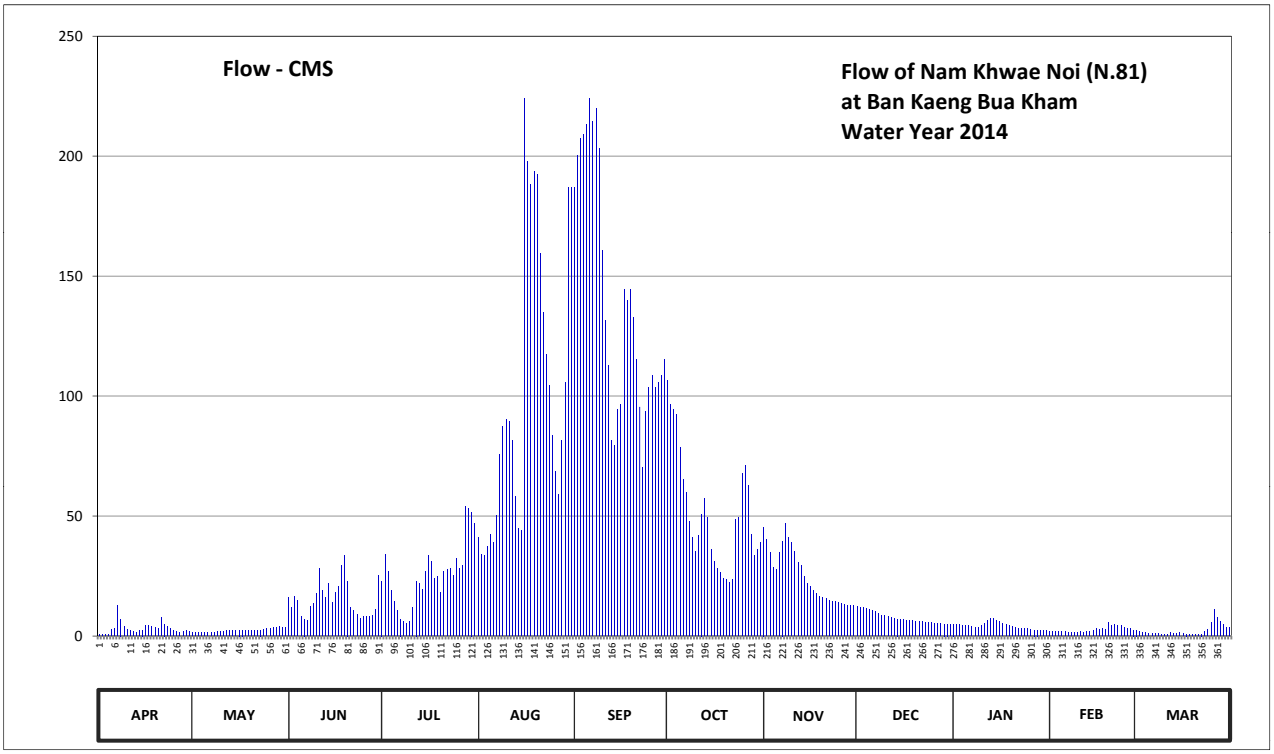
Location : on left bank at Ban Kaeng Bua Kham.

	Ban Kaeng Bua Kham	**Amphoe** Chat Trakan	**Changwat** Phitsanulok
Drainge Area	3,120 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+160.260 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank near the gage site.	**Elevation**	+167.292 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	2012 to date		
Rating Operation			
Period of Rating	2012 to date		
Rated by Flot	-		
Rated by Current Meter	2012 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.26	161.34	161.79	161.91	162.20	163.61	162.94	162.26	161.70	161.50	161.37	161.40	
2	161.24	161.33	161.69	162.10	162.10	163.71	162.84	162.19	161.69	161.49	161.36	161.35	
3	161.22	161.33	161.80	161.98	162.09	163.76	162.82	162.11	161.69	161.49	161.36	161.32	
4	161.21	161.32	161.76	161.84	162.15	163.77	162.80	162.01	161.68	161.48	161.36	161.33	
5	161.41	161.33	161.60	161.75	162.22	163.80	162.66	161.99	161.67	161.48	161.35	161.31	
6	161.43	161.33	161.57	161.66	162.17	163.88	162.51	162.11	161.66	161.47	161.35	161.30	
7	161.71	161.34	161.55	161.57	162.32	163.81	162.44	162.18	161.65	161.46	161.34	161.29	
8	161.57	161.34	161.70	161.54	162.63	163.85	162.29	162.28	161.63	161.44	161.34	161.29	
9	161.46	161.35	161.73	161.51	162.75	163.73	162.20	162.20	161.61	161.45	161.33	161.25	
10	161.41	161.36	161.82	161.53	162.78	163.41	162.12	162.17	161.61	161.48	161.33	161.24	
11	161.38	161.37	162.00	161.69	162.77	163.17	162.21	162.12	161.60	161.51	161.35	161.24	
12	161.36	161.38	161.84	161.91	162.69	163.00	162.33	162.04	161.59	161.55	161.34	161.32	
13	161.33	161.38	161.79	161.89	162.42	162.69	162.41	162.02	161.58	161.58	161.35	161.31	
14	161.39	161.39	161.89	161.85	162.25	162.67	162.31	161.94	161.57	161.58	161.35	161.31	
15	161.40	161.39	161.74	161.98	162.24	162.82	162.13	161.89	161.56	161.55	161.39	161.32	
16	161.48	161.40	161.83	162.09	163.88	162.84	162.05	161.87	161.56	161.53	161.42	161.30	
17	161.47	161.40	161.87	162.05	163.69	163.28	162.00	161.84	161.55	161.51	161.41	161.27	
18	161.46	161.39	162.02	161.93	163.62	163.24	161.97	161.82	161.55	161.49	161.42	161.26	
19	161.44	161.38	162.09	161.94	163.66	163.28	161.93	161.80	161.55	161.47	161.41	161.25	
20	161.43	161.38	161.91	161.83	163.65	163.18	161.92	161.79	161.54	161.46	161.52	161.25	
21	161.59	161.38	161.69	161.98	163.40	163.02	161.90	161.78	161.53	161.44	161.48	161.25	
22	161.50	161.39	161.66	161.99	163.20	162.83	161.92	161.76	161.53	161.42	161.49	161.27	
23	161.46	161.40	161.62	162.00	163.04	162.57	162.30	161.75	161.52	161.42	161.48	161.37	
24	161.43	161.41	161.58	161.95	162.92	162.81	162.31	161.75	161.52	161.42	161.47	161.41	
25	161.39	161.42	161.60	162.07	162.71	162.91	162.54	161.74	161.52	161.42	161.44	161.52	
26	161.36	161.43	161.60	162.00	162.55	162.96	162.58	161.73	161.51	161.41	161.43	161.67	
27	161.33	161.44	161.60	162.02	162.43	162.91	162.48	161.72	161.51	161.40	161.43	161.59	
28	161.35	161.45	161.61	162.37	162.69	162.93	162.22	161.71	161.51	161.40	161.40	161.54	
29	161.38	161.46	161.67	162.36	162.93	162.96	162.09	161.71	161.50	161.39		161.49	
30	161.35	161.45	161.95	162.34	163.61	163.02	162.13	161.71	161.50	161.38		161.44	
31		161.44		162.28	163.61		162.17		161.49	161.38		161.44	
Mean	161.41	161.38	161.75	161.93	162.82	163.21	162.31	161.93	161.58	161.47	161.40	161.35	
Max	161.71	161.46	162.09	162.37	163.88	163.88	162.94	162.28	161.70	161.58	161.52	161.67	163.88
Min	161.21	161.32	161.55	161.51	162.09	162.57	161.90	161.71	161.49	161.38	161.33	161.24	161.21

Annual Max Momentary Gage Height	163.96	m. (MSL.) ,	at 15.00 Hours , on Aug 18 , 2014		
Zero Gage at Bottom Elevation	160.26	m. (MSL.) ,	River Bed	160.08	m. (MSL.)
Left Bank Elevation	167.09	m. (MSL.) ,			
Right Bank Elevation	167.01	m. (MSL.) ,	Drainage Area	3120	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	1.60	16.07	22.92	41.00	186.85	106.70	45.50	12.25	5.00	2.05	2.50		
2	0.70	1.45	11.82	34.00	34.00	200.40	96.50	40.30	11.82	4.75	1.90	1.75		
3	0.60	1.45	16.50	27.00	33.42	207.40	94.50	34.70	11.82	4.75	1.90	1.30		
4	0.55	1.30	14.80	18.83	37.50	208.80	92.50	28.75	11.40	4.50	1.90	1.45		
5	2.75	1.45	8.00	14.37	42.50	213.00	78.70	27.58	10.97	4.50	1.75	1.15		
6	3.25	1.45	7.10	10.55	38.90	224.20	65.35	34.70	10.55	4.25	1.75	1.00		
7	12.68	1.60	6.50	7.10	50.10	214.40	59.70	39.60	10.12	4.00	1.60	0.95		
8	7.10	1.60	12.25	6.20	75.85	220.00	47.75	47.00	9.27	3.50	1.60	0.95		
9	4.00	1.75	13.52	5.30	87.50	203.20	41.00	41.00	8.42	3.75	1.45	0.75		
10	2.75	1.90	17.67	5.90	90.50	160.75	35.40	38.90	8.42	4.50	1.45	0.70		
11	2.20	2.05	28.17	11.82	89.50	131.70	41.75	35.40	8.00	5.30	1.75	0.70		
12	1.90	2.20	18.83	22.92	81.55	113.00	50.90	30.50	7.70	6.50	1.60	1.30		
13	1.45	2.20	16.07	21.75	58.10	81.55	57.30	29.33	7.40	7.40	1.75	1.15		
14	2.35	2.35	21.75	19.42	44.75	79.65	49.30	24.67	7.10	7.40	1.75	1.15		
15	2.50	2.35	13.95	27.00	44.00	94.50	36.10	21.75	6.80	6.50	2.35	1.30		
16	4.50	2.50	18.25	33.42	224.20	96.50	31.08	20.58	6.80	5.90	3.00	1.00		
17	4.25	2.50	20.58	31.08	197.65	144.60	28.17	18.83	6.50	5.30	2.75	0.85		
18	4.00	2.35	29.33	24.08	188.20	139.80	26.42	17.67	6.50	4.75	3.00	0.80		
19	3.50	2.20	33.42	24.67	193.60	144.60	24.08	16.50	6.50	4.25	2.75	0.75		
20	3.25	2.20	22.92	18.25	192.25	132.80	23.50	16.07	6.20	4.00	5.60	0.75		
21	7.70	2.20	11.82	27.00	159.50	115.20	22.33	15.65	5.90	3.50	4.50	0.75		
22	5.00	2.35	10.55	27.58	135.00	95.50	23.50	14.80	5.90	3.00	4.75	0.85		
23	4.00	2.50	8.85	28.17	117.40	70.45	48.50	14.37	5.60	3.00	4.50	2.05		
24	3.25	2.75	7.40	25.25	104.60	93.50	49.30	14.37	5.60	3.00	4.25	2.75		
25	2.35	3.00	8.00	32.25	83.50	103.55	67.90	13.95	5.60	3.00	3.50	5.60		
26	1.90	3.25	8.00	28.17	68.75	108.80	71.30	13.52	5.30	2.75	3.25	10.97		
27	1.45	3.50	8.00	29.33	58.90	103.55	62.90	13.10	5.30	2.50	3.25	7.70		
28	1.75	3.75	8.42	54.10	81.55	105.65	42.50	12.68	5.30	2.50	2.50	6.20		
29	2.20	4.00	10.97	53.30	105.65	108.80	33.42	12.68	5.00	2.35		4.75		
30	1.75	3.75	25.25	51.70	186.85	115.20	36.10	12.68	5.00	2.20		3.50		
31		3.50		47.00	186.85		38.90		4.75	2.20		3.50		
Total	96.43	73.00	454.76	790.43	3133.62	4217.90	1583.35	747.13	233.79	130.80	74.15	70.87	11606.23	CMSDAY
Mean	3.21	2.35	15.16	25.50	101.08	140.60	51.08	24.90	7.54	4.22	2.65	2.29	31.80	CMS
Max	12.68	4.00	33.42	54.10	224.20	224.20	106.70	47.00	12.25	7.40	5.60	10.97	224.20	CMS
Min	0.55	1.30	6.50	5.30	33.42	70.45	22.33	12.68	4.75	2.20	1.45	0.70	0.55	CMS
Runoff	8.33	6.31	39.29	68.29	270.75	364.43	136.80	64.55	20.20	11.30	6.41	6.12	1002.78	MCM

Momentary Peak 235.40 CMS. at 163.96 m. (MSL.) at 15.00 Hours , on Aug 18 , 2014

Runoff Yield 10.19 Liters/Second/Square KM. Momentary Peak Yield 75.449 Liters/Second/Square KM.

WATER YEAR : 2014

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

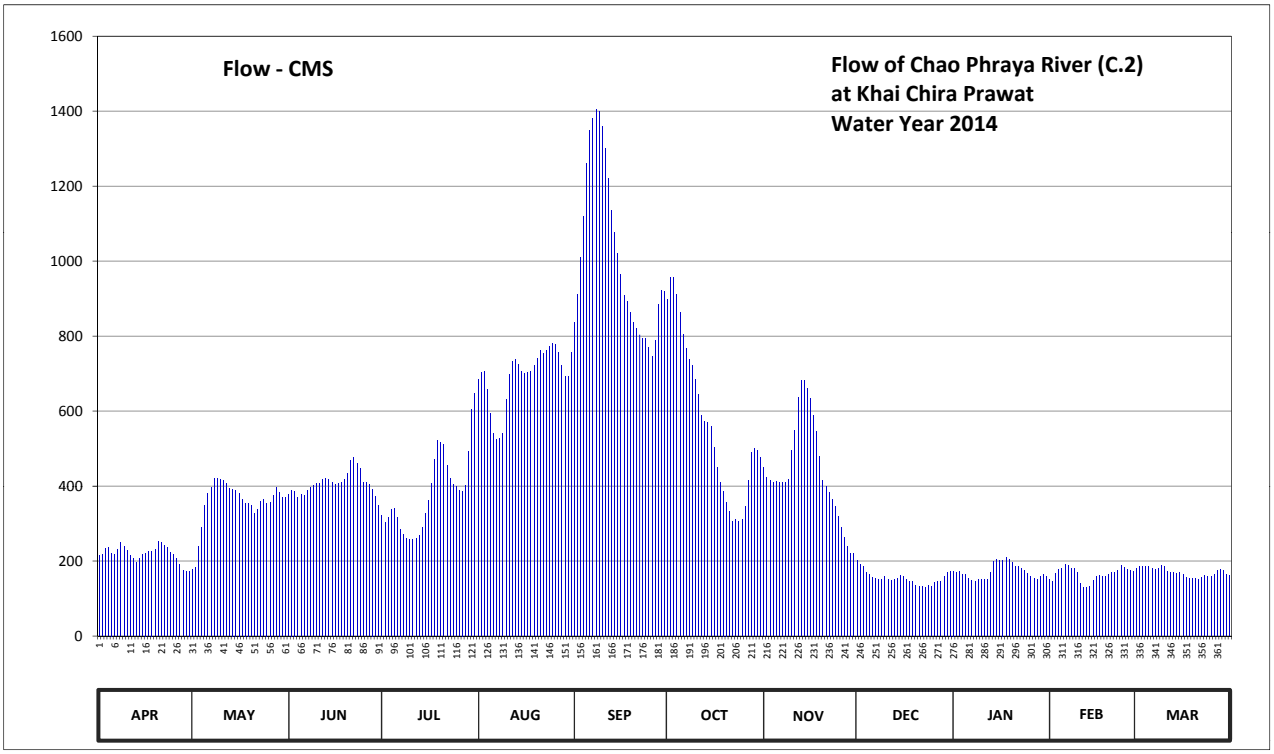
Location : on left bank at Ban Phai Lom

	Ban Phai Lom	**Amphoe** Mueang		**Changwat** Nakhon Sawan	
Drainge Area	109,973 sq.km.				
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 Flot	-				
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 42 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.04	17.83	18.77	18.54	19.87	20.34	20.52	19.17	17.96	17.81	17.68	17.85	
2	18.05	17.86	18.84	18.46	19.93	20.56	20.69	19.09	17.90	17.79	17.65	17.87	
3	18.13	18.16	18.82	18.52	19.94	20.84	20.69	19.03	17.87	17.80	17.77	17.87	
4	18.14	18.40	18.74	18.61	19.79	21.14	20.56	18.98	17.79	17.75	17.83	17.87	
5	18.07	18.65	18.77	18.62	19.58	21.52	20.42	19.01	17.75	17.76	17.85	17.87	
6	18.05	18.78	18.76	18.52	19.43	21.75	20.24	18.98	17.71	17.69	17.90	17.84	
7	18.12	18.88	18.83	18.38	19.38	21.84	20.13	18.98	17.69	17.66	17.89	17.83	
8	18.21	19.06	18.88	18.31	19.39	21.90	20.04	18.98	17.68	17.65	17.85	17.85	
9	18.16	19.06	18.92	18.26	19.43	21.89	19.99	19.04	17.68	17.68	17.84	17.89	
10	18.11	19.05	18.97	18.25	19.70	21.78	19.87	19.30	17.72	17.68	17.78	17.88	
11	18.04	19.03	18.97	18.25	19.91	21.63	19.74	19.45	17.68	17.68	17.62	17.80	
12	17.99	18.96	19.04	18.26	20.02	21.42	19.56	19.72	17.66	17.68	17.55	17.78	
13	17.94	18.87	19.07	18.30	20.04	21.19	19.52	19.86	17.68	17.79	17.55	17.78	
14	17.99	18.86	19.05	18.40	20.00	21.02	19.51	19.86	17.69	17.95	17.56	17.77	
15	18.05	18.84	18.98	18.56	19.94	20.87	19.48	19.80	17.74	17.98	17.66	17.79	
16	18.07	18.79	18.94	18.71	19.92	20.71	19.32	19.71	17.72	17.96	17.73	17.76	
17	18.09	18.72	18.97	18.96	19.93	20.55	19.17	19.56	17.68	17.97	17.74	17.71	
18	18.10	18.68	18.99	19.23	19.94	20.50	18.98	19.44	17.65	18.01	17.72	17.69	
19	18.12	18.68	19.05	19.37	19.99	20.42	18.82	19.25	17.64	17.98	17.72	17.69	
20	18.22	18.65	19.12	19.36	20.05	20.34	18.69	19.03	17.58	17.93	17.76	17.69	
21	18.21	18.56	19.22	19.34	20.11	20.29	18.58	18.91	17.56	17.87	17.79	17.68	
22	18.17	18.61	19.24	19.18	20.09	20.24	18.47	18.80	17.57	17.87	17.79	17.71	
23	18.15	18.70	19.20	19.07	20.11	20.21	18.49	18.72	17.55	17.84	17.82	17.74	
24	18.08	18.72	19.16	18.95	20.15	20.21	18.47	18.64	17.58	17.82	17.89	17.72	
25	18.05	18.68	18.99	18.90	20.17	20.14	18.49	18.53	17.57	17.77	17.86	17.72	
26	18.00	18.69	18.98	18.83	20.16	20.06	18.64	18.40	17.63	17.72	17.83	17.76	
27	17.90	18.76	18.94	18.82	20.10	20.20	19.02	18.28	17.65	17.69	17.82	17.82	
28	17.82	18.88	18.86	18.93	19.99	20.48	19.28	18.16	17.64	17.68	17.81	17.83	
29	17.80	18.80	18.75	19.29	19.90	20.59	19.31	18.07	17.72	17.73		17.82	
30	17.81	18.74	18.65	19.61	19.90	20.58	19.30	18.06	17.78	17.75		17.75	
31		18.74		19.75	20.10		19.24		17.81	17.73		17.74	
Mean	18.06	18.70	18.95	18.79	19.90	20.84	19.46	19.03	17.69	17.80	17.76	17.79	
Max	18.22	19.06	19.24	19.75	20.17	21.90	20.69	19.86	17.96	18.01	17.90	17.89	21.90
Min	17.80	17.83	18.65	18.25	19.38	20.06	18.47	18.06	17.55	17.65	17.55	17.68	17.55

Annual Max Momentary Gage Height	21.91	m. (MSL.) ,	at 19.00 Hours , on Sep 8 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	13.43	m. (MSL.)
Left Bank Elevation	25.26	m. (MSL.) ,			
Right Bank Elevation	26.46	m. (MSL.) ,	Drainage Area	109973	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	215.60	177.40	376.80	321.60	684.40	837.60	898.80	450.64	200.80	173.80	151.60	181.00		
2	217.50	182.80	389.60	303.20	703.60	912.40	956.60	424.60	190.00	170.30	146.50	184.60		
3	233.00	239.00	386.80	316.80	706.80	1010.40	956.60	416.20	184.60	172.00	166.90	184.60		
4	235.00	290.00	369.60	338.40	659.00	1118.40	912.40	409.20	170.30	163.50	177.40	184.60		
5	221.30	348.00	376.80	340.80	594.96	1259.60	864.80	413.40	163.50	165.20	181.00	184.60		
6	217.50	379.20	374.40	316.80	542.16	1347.00	803.60	409.20	156.70	153.30	190.00	179.20		
7	231.00	395.20	388.20	285.60	524.56	1381.20	767.60	409.20	153.30	148.20	188.20	177.40		
8	249.10	420.40	395.20	270.20	528.08	1404.00	738.80	409.20	151.60	146.50	181.00	181.00		
9	239.00	420.40	400.80	259.60	542.16	1400.20	722.80	417.60	151.60	151.60	179.20	188.20		
10	229.00	419.00	407.80	257.50	632.00	1358.40	684.40	496.40	158.40	151.60	168.60	186.40		
11	215.60	416.20	407.80	257.50	697.20	1301.40	644.00	549.20	151.60	151.60	141.40	172.00		
12	206.20	406.40	417.60	259.60	732.40	1221.60	587.92	638.00	148.20	151.60	130.00	168.60		
13	197.20	393.80	421.80	268.00	738.80	1136.40	573.84	681.20	151.60	170.30	130.00	168.60		
14	206.20	392.40	419.00	290.00	726.00	1075.20	570.32	681.20	153.30	199.00	131.60	166.90		
15	217.50	389.60	409.20	326.40	706.80	1021.20	559.76	662.00	161.80	204.40	148.20	170.30		
16	221.30	381.60	403.60	362.40	700.40	963.60	503.44	635.00	158.40	200.80	160.10	165.20		
17	225.10	364.80	407.80	406.40	703.60	909.00	450.64	587.92	151.60	202.60	161.80	156.70		
18	227.00	355.20	410.60	471.76	706.80	892.00	409.20	545.68	146.50	209.90	158.40	153.30		
19	231.00	355.20	419.00	521.04	722.80	864.80	386.80	478.80	144.80	204.40	158.40	153.30		
20	251.20	348.00	433.04	517.52	742.00	837.60	357.60	416.20	134.80	195.40	165.20	153.30		
21	249.10	326.40	468.24	510.48	761.20	820.60	331.20	399.40	131.60	184.60	170.30	151.60		
22	241.00	338.40	475.28	454.16	754.80	803.60	305.40	384.00	133.20	184.60	170.30	156.70		
23	237.00	360.00	461.20	421.80	761.20	793.40	309.80	364.80	130.00	179.20	175.60	161.80		
24	223.20	364.80	447.12	405.00	774.00	793.40	305.40	345.60	134.80	175.60	188.20	158.40		
25	217.50	355.20	410.60	398.00	780.40	770.80	309.80	319.20	133.20	166.90	182.80	158.40		
26	208.00	357.60	409.20	388.20	777.20	745.20	345.60	290.00	143.10	158.40	177.40	165.20		
27	190.00	374.40	403.60	386.80	758.00	790.00	414.80	263.80	146.50	153.30	175.60	175.60		
28	175.60	395.20	392.40	402.20	722.80	885.20	489.36	239.00	144.80	151.60	173.80	177.40		
29	172.00	384.00	372.00	492.88	694.00	922.60	499.92	221.30	158.40	160.10		175.60		
30	173.80	369.60	348.00	605.00	694.00	919.20	496.40	219.40	168.60	163.50		163.50		
31		369.60		647.00	758.00		475.28		173.80	160.10		161.80		
Total	6573.50	11069.80	12203.08	11802.64	21530.12	30496.00	17632.88	13177.34	4781.40	5323.90	4629.50	5265.80	144485.97	CMSDAY
Mean	219.12	357.09	406.77	380.73	694.52	1016.53	568.80	439.24	154.24	171.74	165.34	169.86	395.85	CMS
Max	251.20	420.40	475.28	647.00	780.40	1404.00	956.60	681.20	200.80	209.90	190.00	188.20	1404.00	CMS
Min	172.00	177.40	348.00	257.50	524.56	745.20	305.40	219.40	130.00	146.50	130.00	151.60	130.00	CMS
Runoff	567.95	956.431	1054.346	1019.748	1860.202	2634.85	1523.48	1138.52	413.113	459.985	399.99	454.965	12483.588	MCM

Momentary Peak 1407.80 CMS. at 21.91 m. (MSL.) at 15.00 Hours , on Seo 8 , 2014

Runoff Yield 3.60 Liters/Second/Square KM. Momentary Peak Yield 12.801 Liters/Second/Square KM.

WATER YEAR : 2014

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

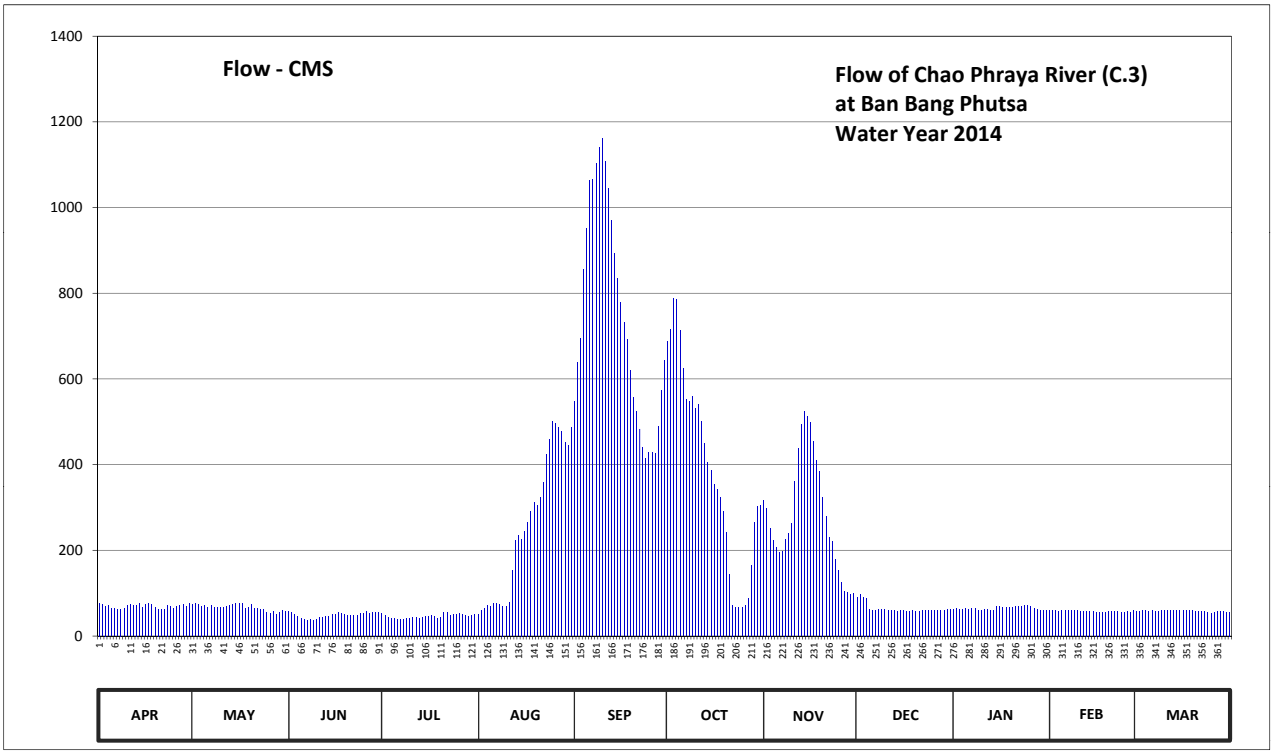
Location : on right bank at Ban Bang Phutsa

	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 Flot	-		
Rated by Current Meter	1950 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.26	2.21	1.96	1.87	1.81	5.73	6.41	4.41	2.43	2.03	1.99	1.96	
2	2.22	2.23	1.90	1.76	1.99	6.18	6.54	4.29	2.51	2.07	2.00	1.97	
3	2.16	2.20	1.83	1.66	2.09	6.44	6.85	3.98	2.44	2.04	1.99	1.98	
4	2.17	2.16	1.72	1.62	2.19	7.12	6.84	3.76	2.41	2.03	1.97	2.00	
5	2.08	2.17	1.63	1.61	2.16	7.50	6.52	3.63	2.05	2.06	2.00	1.97	
6	2.07	2.10	1.57	1.60	2.23	7.90	6.12	3.54	2.00	2.05	2.01	2.00	
7	2.04	2.18	1.54	1.58	2.24	7.91	5.75	3.57	2.01	2.06	2.01	1.95	
8	2.05	2.10	1.55	1.59	2.20	8.04	5.73	3.79	2.05	2.08	2.01	1.97	
9	2.06	2.12	1.54	1.64	2.16	8.17	5.79	3.89	2.04	2.01	1.99	2.00	
10	2.17	2.10	1.57	1.64	2.14	8.24	5.65	4.06	2.04	2.00	1.98	2.00	
11	2.20	2.12	1.68	1.66	2.27	8.06	5.69	4.70	2.01	2.02	1.97	2.00	
12	2.17	2.15	1.66	1.66	3.17	7.84	5.49	5.14	1.98	2.05	1.96	1.99	
13	2.19	2.19	1.73	1.64	3.76	7.57	5.21	5.45	1.99	2.00	1.97	1.99	
14	2.23	2.20	1.71	1.69	3.85	7.27	4.96	5.61	1.94	2.00	1.97	2.00	
15	2.11	2.23	1.79	1.70	3.79	7.04	4.85	5.55	1.98	2.13	1.94	1.99	
16	2.20	2.23	1.83	1.70	3.92	6.81	4.65	5.47	2.01	2.14	1.92	1.99	
17	2.23	2.25	1.89	1.76	4.08	6.61	4.58	5.23	1.97	2.10	1.92	1.99	
18	2.22	2.08	1.84	1.71	4.24	6.43	4.47	4.99	1.97	2.12	1.91	1.99	
19	2.11	2.12	1.80	1.61	4.38	6.10	4.24	4.83	2.01	2.11	1.92	1.98	
20	2.05	2.20	1.75	1.68	4.34	5.78	3.91	4.47	1.97	2.11	1.93	1.94	
21	2.04	2.08	1.74	1.88	4.46	5.61	3.07	4.16	1.97	2.15	1.95	1.93	
22	2.04	2.08	1.75	1.90	4.68	5.39	2.19	3.81	2.00	2.16	1.96	1.96	
23	2.19	2.04	1.76	1.77	5.06	5.16	2.11	3.74	2.00	2.16	1.93	1.95	
24	2.13	2.05	1.84	1.80	5.26	5.01	2.12	3.40	1.99	2.18	1.91	1.91	
25	2.06	1.89	1.86	1.81	5.48	5.10	2.11	3.18	2.00	2.17	1.92	1.86	
26	2.16	1.86	1.93	1.85	5.46	5.09	2.18	2.87	1.98	2.13	1.94	1.90	
27	2.18	1.96	1.86	1.83	5.41	5.08	2.41	2.59	2.00	2.07	1.92	1.94	
28	2.20	1.83	1.89	1.77	5.36	5.42	3.28	2.57	2.00	2.03	1.98	1.94	
29	2.14	1.89	1.92	1.73	5.22	5.87	4.07	2.51	2.00	2.00		1.94	
30	2.24	1.99	1.89	1.78	5.18	6.21	4.32	2.54	2.04	2.00		1.88	
31		1.97		1.81	5.41		4.34		2.02	2.00		1.92	
Mean	2.15	2.10	1.76	1.72	3.74	6.56	4.60	4.06	2.06	2.07	1.96	1.96	
Max	2.26	2.25	1.96	1.90	5.48	8.24	6.85	5.61	2.51	2.18	2.01	2.00	8.24
Min	2.04	1.83	1.54	1.58	1.81	5.01	2.11	2.51	1.94	2.00	1.91	1.86	1.54

Annual Max Momentary Gage Height	8.28	m. (MSL.) ,	at 05.00 Hours , on Sep. 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.16	m. (MSL.)
Left Bank Elevation	13.40	m. (MSL.) ,			
Right Bank Elevation	13.72	m. (MSL.) ,	Drainage Area	118752	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	77.20	73.70	58.00	53.50	50.50	547.70	688.20	315.50	90.40	61.80	59.50	58.00		
2	74.40	75.10	55.00	48.00	59.50	637.80	716.80	297.50	96.80	64.20	60.00	58.50		
3	70.20	73.00	51.50	43.00	65.40	694.80	788.00	252.20	91.20	62.40	59.50	59.00		
4	70.90	70.20	46.00	41.00	72.30	855.00	785.60	222.80	88.80	61.80	58.50	60.00		
5	64.80	70.90	41.50	40.50	70.20	950.00	712.40	205.90	63.00	63.60	60.00	58.50		
6	64.20	66.00	38.50	40.00	75.10	1062.00	625.20	194.80	60.00	63.00	60.60	60.00		
7	62.40	71.60	37.00	39.00	75.80	1064.80	551.50	198.40	60.60	63.60	60.60	57.50		
8	63.00	66.00	37.50	39.50	73.00	1101.60	547.70	226.70	63.00	64.80	60.60	58.50		
9	63.60	67.40	37.00	42.00	70.20	1139.30	559.10	239.70	62.40	60.60	59.50	60.00		
10	70.90	66.00	38.50	42.00	68.80	1160.00	532.50	263.40	62.40	60.00	59.00	60.00		
11	73.00	67.40	44.00	43.00	77.90	1107.40	540.10	362.00	60.60	61.20	58.50	60.00		
12	70.90	69.50	43.00	43.00	153.00	1045.20	502.10	437.20	59.00	63.00	58.00	59.50		
13	72.30	72.30	46.50	42.00	222.80	969.60	449.80	494.50	59.50	60.00	58.50	59.50		
14	75.10	73.00	45.50	44.50	234.50	892.50	406.20	524.90	57.00	60.00	58.50	60.00		
15	66.70	75.10	49.50	45.00	226.70	835.00	387.50	513.50	59.00	68.10	57.00	59.50		
16	73.00	75.10	51.50	45.00	243.80	778.40	353.50	498.30	60.60	68.80	56.00	59.50		
17	75.10	76.50	54.50	48.00	266.20	732.30	341.80	453.40	58.50	66.00	56.00	59.50		
18	74.40	64.80	52.00	45.50	290.00	692.60	324.50	411.30	58.50	67.40	55.50	59.50		
19	66.70	67.40	50.00	40.50	311.00	621.00	290.00	384.10	60.60	66.70	56.00	59.00		
20	63.00	73.00	47.50	44.00	305.00	557.20	242.40	324.50	58.50	66.70	56.50	57.00		
21	62.40	64.80	47.00	54.00	323.00	524.90	143.30	278.00	58.50	69.50	57.50	56.50		
22	62.40	64.80	47.50	55.00	358.60	483.10	72.30	229.30	60.00	70.20	58.00	58.00		
23	72.30	62.40	48.00	48.50	423.20	440.80	66.70	220.20	60.00	70.20	56.50	57.50		
24	68.10	63.00	52.00	50.00	458.80	414.70	67.40	178.00	59.50	71.60	55.50	55.50		
25	63.60	54.50	53.00	50.50	500.20	430.00	66.70	154.00	60.00	70.90	56.00	53.00		
26	70.20	53.00	56.50	52.50	496.40	428.30	71.60	125.60	59.00	68.10	57.00	55.00		
27	71.60	58.00	53.00	51.50	486.90	426.60	88.80	103.20	60.00	64.20	56.00	57.00		
28	73.00	51.50	54.50	48.50	477.40	488.80	164.80	101.60	60.00	61.80	59.00	57.00		
29	68.80	54.50	56.00	46.50	451.60	574.30	264.80	96.80	60.00	60.00		57.00		
30	75.80	59.50	54.50	49.00	444.40	644.20	302.00	99.20	62.40	60.00		54.00		
31		58.50		50.50	486.90		305.00		61.20	60.00		56.00		
Total	2080.00	2058.50	1446.50	1425.50	7919.10	22299.90	11958.30	8406.50	1991.00	2000.20	1623.80	1799.50	65008.80	CMSDAY
Mean	69.33	66.40	48.22	45.98	255.45	743.33	385.75	280.22	64.23	64.52	57.99	58.05	178.11	CMS
Max	77.20	76.50	58.00	55.00	500.20	1160.00	788.00	524.90	96.80	71.60	60.60	60.00	1160.00	CMS
Min	62.40	51.50	37.00	39.00	50.50	414.70	66.70	96.80	57.00	60.00	55.50	53.00	37.00	CMS
Runoff	179.712	177.854	124.978	123.163	684.21	1926.71	1033.20	726.32	172.02	172.82	140.30	155.48	5616.76	MCM

Momentary Peak 1172.00 CMS. at 8.28 m. (MSL.) at 05.00 Hours , on Sep 10 , 2014

Runoff Yield 1.50 Liters/Second/Square KM. Momentary Peak Yield 9.869 Liters/Second/Square KM.

WATER YEAR : 2014

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

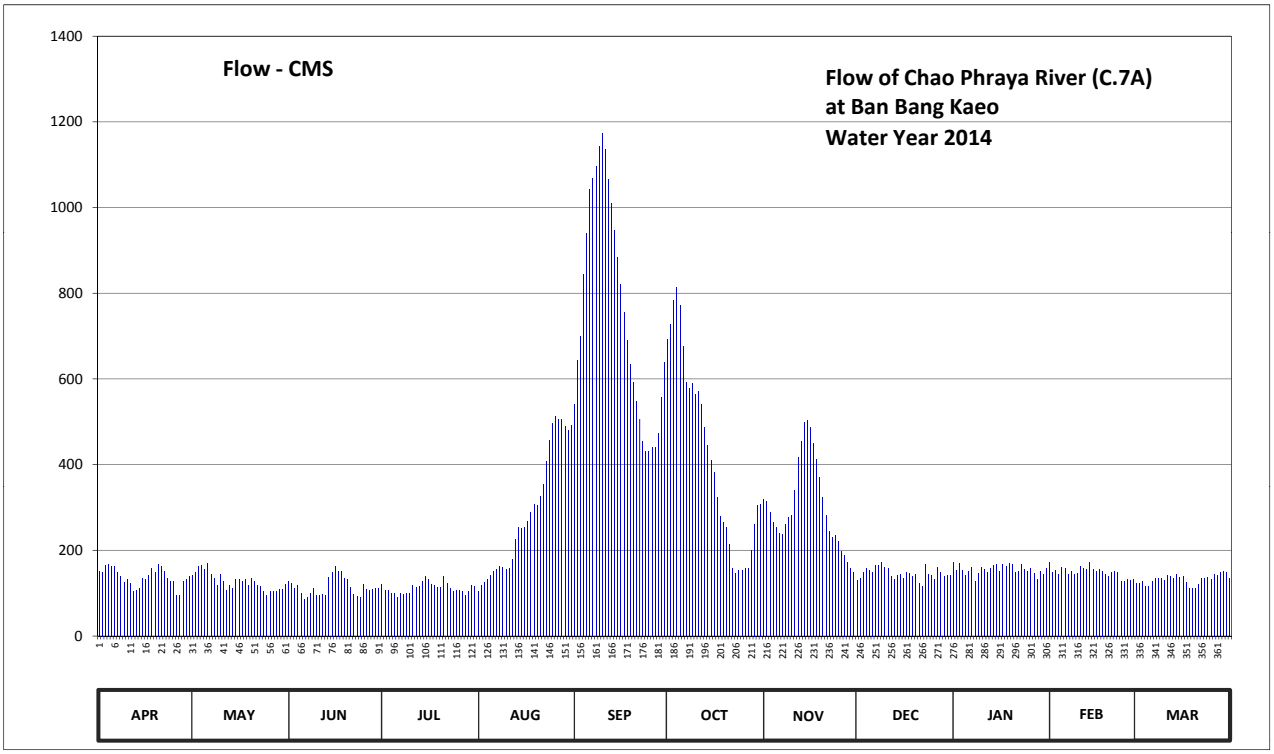
Location : on left bank at Ban Bang Kaco

	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 mean of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.79	0.72	0.62	0.58	0.46	2.74	3.36	1.74	0.64	0.92	0.93	0.59	
2	0.78	0.78	0.59	0.47	0.56	3.16	3.49	1.72	0.67	0.81	0.77	0.59	
3	0.88	0.86	0.51	0.47	0.61	3.38	3.71	1.58	0.78	0.91	0.81	0.63	
4	0.89	0.88	0.56	0.43	0.66	3.94	3.82	1.45	0.84	0.81	0.75	0.55	
5	0.87	0.82	0.43	0.43	0.73	4.31	3.66	1.38	0.81	0.72	0.85	0.54	
6	0.87	0.91	0.32	0.36	0.79	4.70	3.29	1.31	0.78	0.79	0.83	0.63	
7	0.77	0.75	0.35	0.42	0.82	4.80	2.95	1.30	0.88	0.85	0.75	0.67	
8	0.71	0.68	0.42	0.41	0.87	4.91	2.90	1.43	0.88	0.62	0.79	0.67	
9	0.61	0.56	0.51	0.43	0.85	5.09	2.94	1.52	0.92	0.76	0.75	0.68	
10	0.65	0.74	0.39	0.43	0.82	5.20	2.84	1.54	0.85	0.85	0.76	0.64	
11	0.60	0.62	0.39	0.56	0.84	5.06	2.87	1.85	0.83	0.82	0.86	0.73	
12	0.46	0.47	0.41	0.52	0.96	4.79	2.74	2.20	0.70	0.77	0.83	0.70	
13	0.47	0.56	0.40	0.54	1.23	4.58	2.52	2.38	0.66	0.83	0.82	0.68	
14	0.50	0.51	0.69	0.62	1.38	4.33	2.33	2.57	0.72	0.88	0.93	0.74	
15	0.68	0.65	0.78	0.70	1.37	4.09	2.17	2.59	0.74	0.90	0.82	0.69	
16	0.65	0.65	0.86	0.66	1.38	3.85	2.05	2.52	0.68	0.79	0.80	0.70	
17	0.73	0.63	0.80	0.57	1.46	3.60	1.77	2.35	0.77	0.89	0.82	0.61	
18	0.83	0.65	0.79	0.56	1.58	3.35	1.53	2.18	0.76	0.86	0.80	0.50	
19	0.77	0.56	0.67	0.52	1.68	3.13	1.45	1.99	0.70	0.91	0.74	0.51	
20	0.90	0.68	0.65	0.52	1.67	2.95	1.39	1.77	0.75	0.89	0.71	0.51	
21	0.87	0.63	0.52	0.70	1.78	2.77	1.16	1.54	0.60	0.78	0.77	0.58	
22	0.79	0.56	0.41	0.59	1.92	2.60	0.84	1.34	0.54	0.79	0.80	0.67	
23	0.68	0.55	0.37	0.51	2.16	2.38	0.76	1.26	0.90	0.89	0.77	0.67	
24	0.62	0.46	0.36	0.45	2.39	2.27	0.81	1.28	0.74	0.82	0.63	0.69	
25	0.62	0.39	0.58	0.48	2.56	2.27	0.81	1.20	0.73	0.80	0.62	0.66	
26	0.38	0.45	0.49	0.48	2.63	2.31	0.84	1.07	0.65	0.84	0.66	0.75	
27	0.40	0.45	0.47	0.46	2.60	2.31	0.83	1.03	0.85	0.76	0.64	0.73	
28	0.63	0.46	0.49	0.39	2.60	2.46	1.09	0.93	0.78	0.65	0.65	0.77	
29	0.66	0.49	0.51	0.45	2.53	2.81	1.43	0.84	0.70	0.80		0.80	
30	0.70	0.49	0.51	0.56	2.49	3.15	1.67	0.78	0.72	0.75		0.77	
31		0.57		0.54	2.54		1.69		0.73	0.83		0.67	
Mean	0.69	0.62	0.53	0.51	1.51	3.58	2.12	1.62	0.75	0.82	0.77	0.66	
Max	0.90	0.91	0.86	0.70	2.63	5.20	3.82	2.59	0.92	0.92	0.93	0.80	5.20
Min	0.38	0.39	0.32	0.36	0.46	2.27	0.76	0.78	0.54	0.62	0.62	0.50	0.32

Annual Max Momentary Gage Height	5.23	m. (MSL.) ,	at 11.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-6.89	m. (MSL.)
Left Bank Elevation	10.04	m. (MSL.) ,			
Right Bank Elevation	9.98	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	150.60	140.80	126.80	121.20	104.40	540.29	693.60	318.00	129.60	171.20	172.80	122.60		
2	149.20	149.20	122.60	105.80	118.40	642.29	727.40	314.00	133.80	153.60	147.80	122.60		
3	164.80	161.60	111.40	105.80	125.40	698.80	784.60	288.40	149.20	169.60	153.60	128.20		
4	166.40	164.80	118.40	100.20	132.40	844.40	813.20	265.00	158.40	153.60	145.00	117.00		
5	163.20	155.20	100.20	100.20	142.20	940.60	771.60	252.40	153.60	140.80	160.00	115.60		
6	163.20	169.60	86.40	91.20	150.60	1042.00	675.40	239.80	149.20	150.60	156.80	128.20		
7	147.80	145.00	90.00	98.80	155.20	1068.00	591.29	238.00	164.80	160.00	145.00	133.80		
8	139.40	135.20	98.80	97.40	163.20	1096.60	579.14	261.40	164.80	126.80	150.60	133.80		
9	125.40	118.40	111.40	100.20	160.00	1143.40	588.86	277.60	171.20	146.40	145.00	135.20		
10	131.00	143.60	94.80	100.20	155.20	1172.00	564.57	281.20	160.00	160.00	146.40	129.60		
11	124.00	126.80	94.80	118.40	158.40	1135.60	571.86	340.00	156.80	155.20	161.60	142.20		
12	104.40	105.80	97.40	112.80	177.60	1065.40	540.29	416.00	138.00	147.80	156.80	138.00		
13	105.80	118.40	96.00	115.60	225.40	1010.80	486.86	455.60	132.40	156.80	155.20	135.20		
14	110.00	111.40	136.60	126.80	252.40	945.80	444.60	499.00	140.80	164.80	172.80	143.60		
15	135.20	131.00	149.20	138.00	250.60	883.40	409.40	503.86	143.60	168.00	155.20	136.60		
16	131.00	131.00	161.60	132.40	252.40	821.00	383.00	486.86	135.20	150.60	152.00	138.00		
17	142.20	128.20	152.00	119.80	266.80	756.00	324.00	449.00	147.80	166.40	155.20	125.40		
18	156.80	131.00	150.60	118.40	288.40	691.00	279.40	411.60	146.40	161.60	152.00	110.00		
19	147.80	118.40	133.80	112.80	306.40	635.00	265.00	369.80	138.00	169.60	143.60	111.40		
20	168.00	135.20	131.00	112.80	304.60	591.29	254.20	324.00	145.00	166.40	139.40	111.40		
21	163.20	128.20	112.80	138.00	326.00	547.57	212.80	281.20	124.00	149.20	147.80	121.20		
22	150.60	118.40	97.40	122.60	354.40	506.29	158.40	245.20	115.60	150.60	152.00	133.80		
23	135.20	117.00	92.40	111.40	407.20	455.60	146.40	230.80	168.00	166.40	147.80	133.80		
24	126.80	104.40	91.20	103.00	457.80	431.40	153.60	234.40	143.60	155.20	128.20	136.60		
25	126.80	94.80	121.20	107.20	496.57	431.40	153.60	220.00	142.20	152.00	126.80	132.40		
26	93.60	103.00	108.60	107.20	513.57	440.20	158.40	196.60	131.00	158.40	132.40	145.00		
27	96.00	103.00	105.80	104.40	506.29	440.20	156.80	189.40	160.00	146.40	129.60	142.20		
28	128.20	104.40	108.60	94.80	506.29	473.20	200.20	172.80	149.20	131.00	131.00	147.80		
29	132.40	108.60	111.40	103.00	489.29	557.29	261.40	158.40	138.00	152.00		152.00		
30	138.00	108.60	111.40	118.40	479.80	639.86	304.60	149.20	140.80	145.00		147.80		
31		119.80		115.60	491.71		308.20		142.20	156.80		133.80		
Total	4117.00	3930.80	3424.60	3454.40	8918.92	22646.68	12962.67	9069.52	4513.20	4802.80	4162.40	4084.80	86087.79	CMSDAY
Mean	137.23	126.80	114.15	111.43	287.71	754.89	418.15	302.32	145.59	154.93	148.66	131.77	235.86	CMS
Max	168.00	169.60	161.60	138.00	513.57	1172.00	813.20	503.86	171.20	171.20	172.80	152.00	1172.00	CMS
Min	93.60	94.80	86.40	91.20	104.40	431.40	146.40	149.20	115.60	126.80	126.80	110.00	86.40	CMS
Runoff	355.709	339.621	295.885	298.46	770.60	1956.673	1119.975	783.61	389.94	414.962	359.631	352.927	7437.985	MCM

Momentary Peak 1180.40 CMS. at 5.23 m. (MSL.) at 11.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

Ban Bang Luang **Amphoe** Sanphaya **Changwat** Chai Nat

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 Flot	-
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 35 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

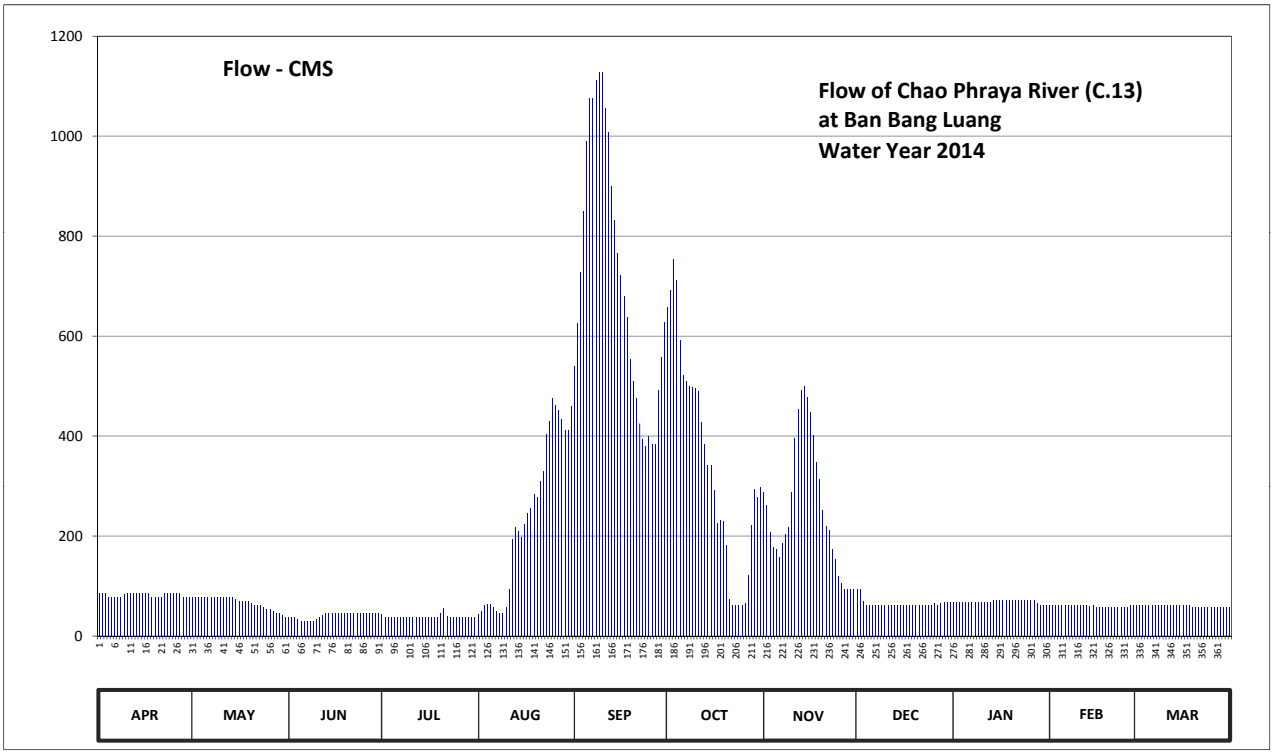
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.20	6.10	5.60	5.66	5.66	9.35	9.91	7.94	6.30	5.96	5.90	5.90	
2	6.20	6.10	5.60	5.60	5.73	9.76	10.05	7.78	6.30	5.96	5.90	5.90	
3	6.20	6.10	5.60	5.60	5.89	10.20	10.31	7.40	5.98	5.96	5.90	5.90	
4	6.10	6.10	5.54	5.60	5.92	10.69	10.13	7.16	5.90	5.96	5.90	5.90	
5	6.10	6.10	5.50	5.60	5.92	11.19	9.61	7.12	5.90	5.96	5.90	5.90	
6	6.10	6.10	5.50	5.60	5.84	11.48	9.26	6.99	5.90	5.96	5.90	5.90	
7	6.10	6.10	5.50	5.60	5.73	11.48	9.20	7.23	5.90	5.96	5.90	5.90	
8	6.10	6.10	5.50	5.60	5.70	11.60	9.15	7.36	5.90	5.96	5.90	5.90	
9	6.16	6.10	5.50	5.60	5.70	11.65	9.14	7.46	5.90	5.96	5.90	5.90	
10	6.20	6.10	5.54	5.60	5.83	11.65	9.13	7.94	5.90	5.96	5.90	5.90	
11	6.20	6.10	5.60	5.60	6.29	11.41	9.10	8.58	5.90	5.96	5.90	5.90	
12	6.20	6.10	5.64	5.60	7.29	11.25	8.75	8.90	5.90	5.96	5.90	5.90	
13	6.20	6.10	5.70	5.60	7.46	10.87	8.51	9.11	5.90	5.96	5.90	5.90	
14	6.20	6.10	5.70	5.60	7.41	10.62	8.28	9.15	5.90	6.01	5.86	5.90	
15	6.20	6.04	5.70	5.60	7.32	10.36	8.28	9.03	5.90	6.02	5.90	5.90	
16	6.20	6.00	5.70	5.60	7.51	10.17	7.97	8.87	5.90	6.02	5.84	5.90	
17	6.20	6.00	5.70	5.60	7.66	10.00	7.52	8.61	5.90	6.02	5.84	5.90	
18	6.10	6.00	5.70	5.60	7.73	9.82	7.56	8.31	5.90	6.02	5.84	5.90	
19	6.10	6.00	5.70	5.60	7.92	9.42	7.55	8.11	5.90	6.02	5.84	5.85	
20	6.10	5.94	5.70	5.68	7.88	9.20	7.19	7.71	5.90	6.02	5.84	5.84	
21	6.10	5.90	5.70	5.81	8.09	9.02	6.05	7.48	5.90	6.02	5.84	5.84	
22	6.20	5.90	5.70	5.61	8.20	8.74	5.90	7.42	5.90	6.02	5.84	5.84	
23	6.20	5.90	5.70	5.60	8.62	8.56	5.90	7.12	5.90	6.02	5.84	5.84	
24	6.20	5.84	5.70	5.60	8.77	8.49	5.90	6.94	5.90	6.02	5.84	5.84	
25	6.20	5.80	5.70	5.60	9.02	8.60	5.90	6.61	5.90	6.02	5.84	5.84	
26	6.20	5.80	5.70	5.60	8.94	8.51	5.93	6.44	5.94	6.02	5.84	5.84	
27	6.20	5.74	5.70	5.60	8.89	8.51	6.62	6.29	5.90	6.02	5.89	5.84	
28	6.10	5.70	5.70	5.60	8.79	9.11	7.49	6.30	5.94	5.94	5.90	5.84	
29	6.10	5.70	5.70	5.60	8.66	9.44	7.98	6.30	5.96	5.90		5.84	
30	6.10	5.64	5.70	5.60	8.66	9.77	7.88	6.30	5.96	5.90		5.84	
31		5.60		5.60	8.93		8.01		5.96	5.90		5.84	
Mean	6.16	5.96	5.64	5.61	7.35	10.03	8.07	7.60	5.94	5.98	5.87	5.88	
Max	6.20	6.10	5.70	5.81	9.02	11.65	10.31	9.15	6.30	6.02	5.90	5.90	11.65
Min	6.10	5.60	5.50	5.60	5.66	8.49	5.90	6.29	5.90	5.90	5.84	5.84	5.50

Annual Max Momentary Gage Height 11.65 m. (MSL.) , at 15.00 Hours , on Sep 8 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.23 m. (MSL.)

Left Bank Elevation 16.78 m. (MSL.) ,

Right Bank Elevation 18.35 m. (MSL.) , Drainage Area 117187 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	86.00	78.00	38.00	42.80	42.80	540.00	658.40	286.40	94.00	66.80	62.00	62.00		
2	86.00	78.00	38.00	38.00	48.40	625.20	692.00	262.00	94.00	66.80	62.00	62.00		
3	86.00	78.00	38.00	38.00	61.20	728.00	754.40	208.00	68.40	66.80	62.00	62.00		
4	78.00	78.00	33.20	38.00	63.60	849.40	711.20	177.20	62.00	66.80	62.00	62.00		
5	78.00	78.00	30.00	38.00	63.60	989.20	592.20	172.40	62.00	66.80	62.00	62.00		
6	78.00	78.00	30.00	38.00	57.20	1076.00	522.00	157.90	62.00	66.80	62.00	62.00		
7	78.00	78.00	30.00	38.00	48.40	1076.00	510.00	185.90	62.00	66.80	62.00	62.00		
8	78.00	78.00	30.00	38.00	46.00	1112.00	500.00	202.80	62.00	66.80	62.00	62.00		
9	82.80	78.00	30.00	38.00	46.00	1127.00	498.00	216.40	62.00	66.80	62.00	62.00		
10	86.00	78.00	33.20	38.00	56.40	1127.00	496.00	286.40	62.00	66.80	62.00	62.00		
11	86.00	78.00	38.00	38.00	93.20	1055.00	490.00	396.40	62.00	66.80	62.00	62.00		
12	86.00	78.00	41.20	38.00	193.70	1007.00	427.00	454.00	62.00	66.80	62.00	62.00		
13	86.00	78.00	46.00	38.00	216.40	899.60	383.80	492.00	62.00	66.80	62.00	62.00		
14	86.00	78.00	46.00	38.00	209.40	831.20	342.60	500.00	62.00	70.80	58.80	62.00		
15	86.00	73.20	46.00	38.00	197.60	766.40	342.60	477.40	62.00	71.60	62.00	62.00		
16	86.00	70.00	46.00	38.00	223.40	720.80	291.20	448.60	62.00	71.60	57.20	62.00		
17	86.00	70.00	46.00	38.00	244.40	680.00	224.80	401.80	62.00	71.60	57.20	62.00		
18	78.00	70.00	46.00	38.00	254.50	638.40	230.40	347.80	62.00	71.60	57.20	62.00		
19	78.00	70.00	46.00	38.00	283.20	554.00	229.00	313.70	62.00	71.60	57.20	58.00		
20	78.00	65.20	46.00	44.40	277.00	510.00	180.80	251.50	62.00	71.60	57.20	57.20		
21	78.00	62.00	46.00	54.80	310.40	475.60	74.00	219.20	62.00	71.60	57.20	57.20		
22	86.00	62.00	46.00	38.80	329.00	425.20	62.00	210.80	62.00	71.60	57.20	57.20		
23	86.00	62.00	46.00	38.00	403.60	392.80	62.00	172.40	62.00	71.60	57.20	57.20		
24	86.00	57.20	46.00	38.00	430.60	380.20	62.00	152.40	62.00	71.60	57.20	57.20		
25	86.00	54.00	46.00	38.00	475.60	400.00	62.00	119.90	62.00	71.60	57.20	57.20		
26	86.00	54.00	46.00	38.00	461.20	383.80	64.40	105.20	65.20	71.60	57.20	57.20		
27	86.00	49.20	46.00	38.00	452.20	383.80	120.80	93.20	62.00	71.60	61.20	57.20		
28	78.00	46.00	46.00	38.00	434.20	492.00	220.60	94.00	65.20	65.20	62.00	57.20		
29	78.00	46.00	46.00	38.00	410.80	558.00	292.80	94.00	66.80	62.00		57.20		
30	78.00	41.20	46.00	38.00	410.80	627.40	277.00	94.00	66.80	62.00		57.20		
31		38.00		38.00	459.40		297.60		66.80	62.00		57.20		
Total	2480.80	2082.00	1237.60	1206.80	7304.20	21431.00	10671.60	7593.70	2013.20	2121.20	1679.20	1860.40	61681.70	CMSDAY
Mean	82.69	67.16	41.25	38.93	235.62	714.37	344.25	253.12	64.94	68.43	59.97	60.01	168.99	CMS
Max	86.00	78.00	46.00	54.80	475.60	1127.00	754.40	500.00	94.00	71.60	62.00	62.00	1127.00	CMS
Min	78.00	38.00	30.00	38.00	42.80	380.20	62.00	93.20	62.00	62.00	57.20	57.20	30.00	CMS
Runoff	214.34	179.89	106.93	104.27	631.08	1851.64	922.03	656.10	173.94	183.27	145.08	160.74	5329.30	MCM

Momentary Peak 1127.00 CMS. at 11.65 m. (MSL.) at 15.00 Hours , on Sep 8 , 2014

Runoff Yield 1.44 Liters/Second/Square KM. Momentary Peak Yield 9.617 Liters/Second/Square KM.

WATER YEAR : 2014

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

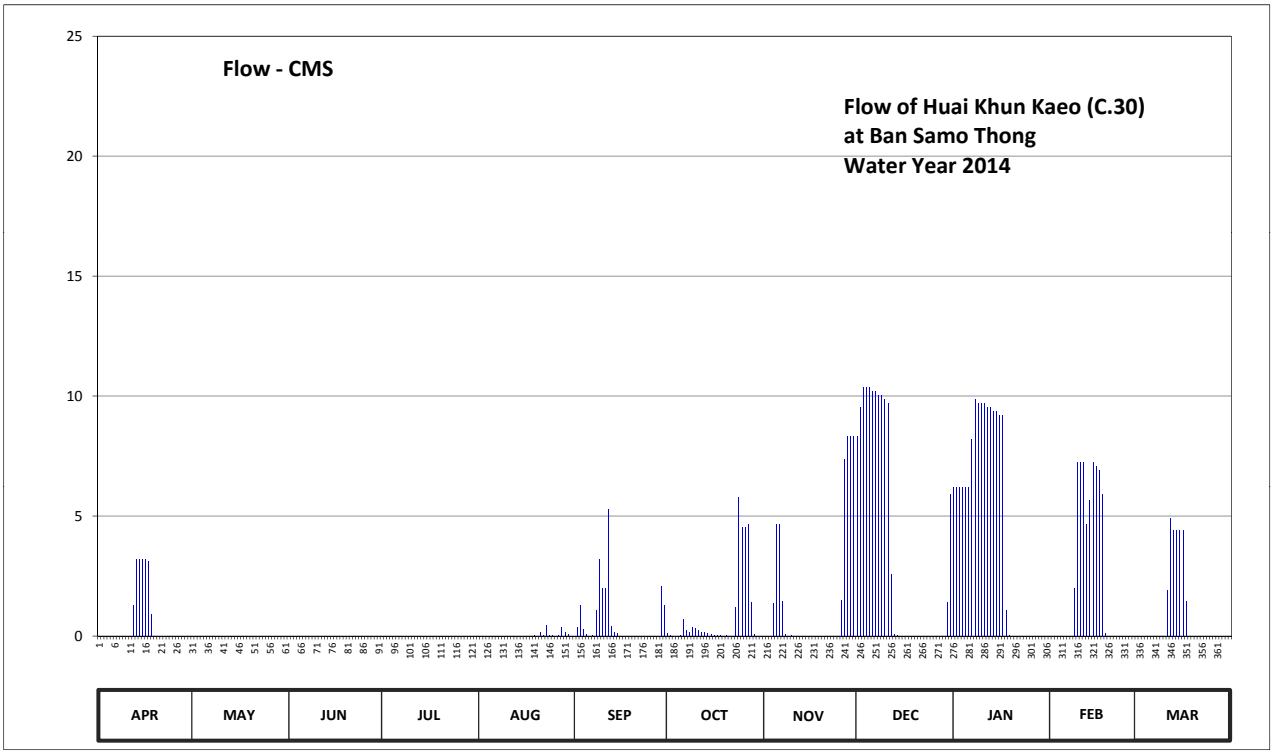
Location : on right bank in front of Wat Samo Thong School

	Ban Samo Thong	**Amphoe** Huai Khot	**Changwat** Uthai Thani		
Drainge Area	227 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On right bank about 60 meters from the top staff gage		**Elevation** +111.590 m. (MSL.)		
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1982 to date				
Rating Operation					
Period of Rating	1983 to date				
Rated by Flot	-				
Rated by Current Meter	1983 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.53	101.48	101.55	101.53	101.55	101.70	101.75	101.69	102.69	102.55	101.60	101.59	
2	101.51	101.48	101.59	101.57	101.56	101.86	101.72	101.68	102.76	102.55	101.60	101.59	
3	101.50	101.49	101.60	101.57	101.56	102.06	101.69	101.67	102.81	102.55	101.60	101.59	
4	101.50	101.55	101.59	101.58	101.56	101.83	101.67	102.07	102.81	102.55	101.60	101.58	
5	101.50	101.55	101.59	101.57	101.55	101.73	101.71	102.43	102.81	102.55	101.59	101.58	
6	101.55	101.55	101.60	101.56	101.55	101.70	101.95	102.43	102.80	102.55	101.58	101.58	
7	101.55	101.55	101.60	101.56	101.57	101.71	101.82	102.09	102.80	102.68	101.58	101.57	
8	101.55	101.61	101.59	101.56	101.59	102.02	101.77	101.74	102.79	102.78	101.57	101.57	
9	101.55	101.58	101.57	101.55	101.60	102.30	101.87	101.70	102.79	102.77	102.16	101.57	
10	101.55	101.54	101.53	101.55	101.60	102.16	101.85	101.71	102.78	102.77	102.62	101.56	
11	101.51	101.51	101.53	101.55	101.59	102.16	101.82	101.70	102.77	102.77	102.62	102.15	
12	102.06	101.50	101.55	101.55	101.59	102.48	101.79	101.68	102.23	102.76	102.62	102.45	
13	102.30	101.50	101.54	101.70	101.58	101.89	101.77	101.67	101.74	102.76	102.43	102.41	
14	102.30	101.50	101.52	101.60	101.61	101.78	101.76	101.66	101.71	102.75	102.51	102.41	
15	102.30	101.54	101.52	101.56	101.62	101.75	101.74	101.66	101.67	102.75	102.62	102.41	
16	102.30	101.55	101.50	101.60	101.60	101.70	101.72	101.65	101.66	102.74	102.61	102.41	
17	102.29	101.54	101.50	101.55	101.60	101.65	101.71	101.65	101.65	102.74	102.60	102.09	
18	101.99	101.54	101.50	101.56	101.58	101.68	101.71	101.66	101.64	102.02	102.53	101.69	
19	101.57	101.57	101.50	101.55	101.72	101.70	101.70	101.66	101.63	101.71	101.75	101.64	
20	101.55	101.56	101.50	101.56	101.68	101.69	101.71	101.65	101.63	101.70	101.68	101.62	
21	101.55	101.55	101.50	101.56	101.79	101.68	101.70	101.64	101.62	101.67	101.65	101.63	
22	101.55	101.54	101.55	101.55	101.72	101.68	101.67	101.64	101.62	101.65	101.66	101.68	
23	101.55	101.51	101.54	101.55	101.90	101.68	102.04	101.64	101.61	101.63	101.66	101.64	
24	101.55	101.50	101.53	101.55	101.72	101.67	102.52	101.63	101.61	101.62	101.64	101.62	
25	101.54	101.50	101.52	101.55	101.72	101.67	102.42	101.63	101.60	101.61	101.61	101.61	
26	101.54	101.50	101.50	101.56	101.70	101.67	102.42	102.10	101.59	101.61	101.60	101.61	
27	101.52	101.52	101.50	101.64	101.72	101.65	102.43	102.63	101.63	101.61	101.60	101.61	
28	101.50	101.54	101.50	101.58	101.87	101.65	102.08	102.69	101.62	101.60	101.59	101.60	
29	101.50	101.55	101.50	101.56	101.77	102.17	101.73	102.69	101.61	101.60		101.67	
30	101.49	101.55	101.48	101.56	101.74	102.06	101.70	102.69	102.08	101.60		101.66	
31		101.55		101.55	101.70		101.70		102.53	101.60		101.60	
Mean	101.69	101.53	101.54	101.57	101.65	101.84	101.86	101.89	102.11	102.22	101.95	101.77	
Max	102.30	101.61	101.60	101.70	101.90	102.48	102.52	102.69	102.81	102.78	102.62	102.45	102.81
Min	101.49	101.48	101.48	101.53	101.55	101.65	101.67	101.63	101.59	101.60	101.57	101.56	101.48

Annual Max Momentary Gage Height	102.97	m. (MSL.) ,	at 15.00 Hours , on Sep 12 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	101.31	m. (MSL.)
Left Bank Elevation	108.29	m. (MSL.) ,			
Right Bank Elevation	108.34	m. (MSL.) ,	Drainage Area	227	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	8.34	6.20	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.34	0.04	0.00	9.52	6.20	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	10.38	6.20	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.26	0.00	1.34	10.38	6.20	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.05	0.02	4.66	10.38	6.20	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.70	4.66	10.20	6.20	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.02	0.23	1.44	10.20	8.18	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	1.06	0.13	0.07	10.03	9.86	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	3.20	0.37	0.00	10.03	9.69	1.98	0.00		
10	0.00	0.00	0.00	0.00	0.00	1.98	0.31	0.02	9.86	9.69	7.22	0.00		
11	0.00	0.00	0.00	0.00	0.00	1.98	0.23	0.00	9.69	9.69	7.22	1.90		
12	1.28	0.00	0.00	0.00	0.00	5.26	0.16	0.00	2.57	9.52	7.22	4.90		
13	3.20	0.00	0.00	0.00	0.00	0.42	0.13	0.00	0.07	9.52	4.66	4.42		
14	3.20	0.00	0.00	0.00	0.00	0.14	0.11	0.00	0.02	9.35	5.64	4.42		
15	3.20	0.00	0.00	0.00	0.00	0.09	0.07	0.00	0.00	9.35	7.22	4.42		
16	3.20	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	9.18	7.06	4.42		
17	3.11	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	9.18	6.90	1.44		
18	0.90	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	1.06	5.92	0.00		
19	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.02	0.09	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.45	0.00	1.17	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.04	0.00	5.78	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.04	0.00	4.54	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	4.54	1.50	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.04	0.00	4.66	7.38	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.37	0.00	1.39	8.34	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.13	2.06	0.05	8.34	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.07	1.28	0.00	8.34	1.39	0.00		0.00		
31		0.00		0.00	0.00		0.00		5.92	0.00		0.00		
Total	18.09	0.00	0.00	0.00	1.38	19.42	24.82	46.09	118.98	141.49	61.13	25.92	457.32	CMSDAY
Mean	0.60	0.00	0.00	0.00	0.04	0.65	0.80	1.54	3.84	4.56	2.18	0.84	1.25	CMS
Max	3.20	0.00	0.00	0.00	0.45	5.26	5.78	8.34	10.38	9.86	7.22	4.90	10.38	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	1.56	0.00	0.00	0.00	0.12	1.68	2.14	3.98	10.28	12.23	5.28	2.24	39.51	MCM

Momentary Peak 13.40 CMS. at 102.97 m. (MSL.) at 15.00 Hours , on Sep 12 , 2014

Runoff Yield 5.52 Liters/Second/Square KM. Momentary Peak Yield 58.911 Liters/Second/Square KM.

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya (C.35)

Lat 14 - 22 - 02 N Long 100 - 31 - 58 E

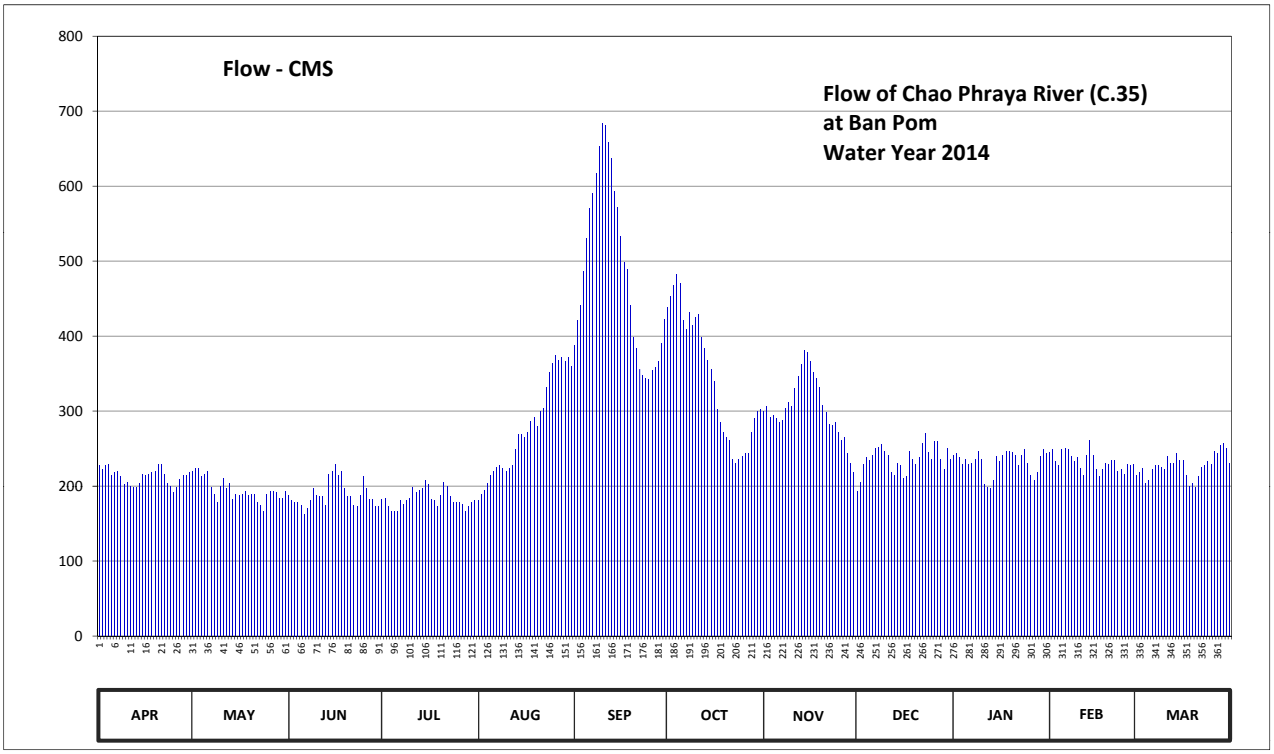
Location : on right bank at Ban Pom

	Ban Pom	**Amphoe** Phra Nakhon Si Ayutthaya	**Changwat** Phra Nakhon Si Ayutthaya
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 right bank near the gage site.		**Elevation** +6.300 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 Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.61	0.43	0.40	0.39	1.48	1.71	1.05	0.46	0.73	0.75	0.58	
2	0.62	0.63	0.39	0.41	0.44	1.63	1.78	1.08	0.53	0.74	0.77	0.60	
3	0.65	0.63	0.38	0.34	0.47	1.72	1.84	1.01	0.66	0.71	0.68	0.63	
4	0.66	0.57	0.38	0.30	0.52	1.92	1.90	1.02	0.71	0.66	0.65	0.52	
5	0.58	0.59	0.35	0.30	0.58	2.10	1.85	1.00	0.69	0.70	0.77	0.54	
6	0.60	0.61	0.28	0.30	0.61	2.26	1.63	0.97	0.73	0.66	0.78	0.62	
7	0.61	0.49	0.33	0.39	0.64	2.34	1.58	0.99	0.78	0.67	0.77	0.65	
8	0.57	0.44	0.39	0.36	0.65	2.44	1.68	1.07	0.79	0.70	0.72	0.65	
9	0.51	0.38	0.48	0.39	0.63	2.58	1.60	1.11	0.81	0.76	0.68	0.64	
10	0.53	0.50	0.43	0.41	0.61	2.69	1.65	1.08	0.76	0.70	0.71	0.62	
11	0.50	0.56	0.42	0.49	0.63	2.68	1.67	1.20	0.73	0.51	0.63	0.72	
12	0.49	0.48	0.42	0.45	0.65	2.60	1.53	1.28	0.60	0.49	0.58	0.67	
13	0.49	0.52	0.35	0.47	0.77	2.52	1.46	1.36	0.58	0.48	0.73	0.67	
14	0.52	0.40	0.59	0.48	0.88	2.35	1.39	1.45	0.67	0.54	0.84	0.74	
15	0.59	0.44	0.61	0.54	0.88	2.27	1.33	1.44	0.65	0.72	0.73	0.69	
16	0.58	0.43	0.66	0.51	0.86	2.11	1.25	1.38	0.56	0.68	0.62	0.69	
17	0.59	0.44	0.58	0.40	0.90	1.97	1.06	1.31	0.57	0.73	0.57	0.58	
18	0.60	0.46	0.61	0.39	0.98	1.93	0.97	1.27	0.76	0.76	0.62	0.50	
19	0.61	0.43	0.48	0.34	1.01	1.72	0.90	1.21	0.70	0.76	0.67	0.52	
20	0.66	0.44	0.42	0.43	0.94	1.53	0.86	1.09	0.66	0.75	0.66	0.49	
21	0.66	0.44	0.42	0.53	1.05	1.46	0.84	1.04	0.71	0.73	0.69	0.57	
22	0.59	0.38	0.35	0.50	1.07	1.33	0.70	0.96	0.82	0.65	0.69	0.64	
23	0.52	0.35	0.34	0.42	1.21	1.29	0.67	0.95	0.89	0.73	0.61	0.65	
24	0.50	0.30	0.43	0.38	1.31	1.27	0.70	0.97	0.75	0.77	0.62	0.68	
25	0.45	0.44	0.57	0.38	1.37	1.26	0.72	0.90	0.70	0.67	0.59	0.66	
26	0.49	0.46	0.48	0.38	1.42	1.32	0.74	0.84	0.83	0.58	0.66	0.76	
27	0.55	0.46	0.40	0.36	1.39	1.34	0.74	0.86	0.83	0.54	0.65	0.74	
28	0.58	0.45	0.40	0.30	1.41	1.38	0.90	0.74	0.70	0.60	0.66	0.80	
29	0.58	0.41	0.34	0.34	1.38	1.49	1.00	0.67	0.62	0.72		0.82	
30	0.60	0.41	0.34	0.38	1.41	1.64	1.05	0.60	0.78	0.77		0.78	
31		0.46		0.39	1.35		1.06		0.70	0.74		0.67	
Mean	0.57	0.47	0.43	0.40	0.92	1.89	1.25	1.06	0.70	0.68	0.68	0.65	
Max	0.66	0.63	0.66	0.54	1.42	2.69	1.90	1.45	0.89	0.77	0.84	0.82	2.69
Min	0.45	0.30	0.28	0.30	0.39	1.26	0.67	0.60	0.46	0.48	0.57	0.49	0.28

Annual Max Momentary Gage Height	2.81	m. (MSL.) ,	at 24.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-7.67	m. (MSL.)
Left Bank Elevation	5.29	m. (MSL.) ,			
Right Bank Elevation	6.76	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	227.00	219.80	187.40	182.00	180.40	387.60	438.20	300.00	192.80	241.40	245.00	214.40		
2	221.60	223.40	180.40	183.80	189.20	420.60	453.60	306.00	205.40	243.20	248.60	218.00		
3	227.00	223.40	178.80	172.40	194.60	440.40	467.60	292.00	228.80	237.80	232.40	223.40		
4	228.80	212.60	178.80	166.00	203.60	486.80	482.00	294.00	237.80	228.80	227.00	203.60		
5	214.40	216.20	174.00	166.00	214.40	530.00	470.00	290.00	234.20	236.00	248.60	207.20		
6	218.00	219.80	162.80	166.00	219.80	569.60	420.60	284.60	241.40	228.80	250.40	221.60		
7	219.80	198.20	170.80	180.40	225.20	590.40	409.60	288.20	250.40	230.60	248.60	227.00		
8	212.60	189.20	180.40	175.60	227.00	616.40	431.60	304.00	252.20	236.00	239.60	227.00		
9	201.80	178.80	196.40	180.40	223.40	652.80	414.00	312.00	255.80	246.80	232.40	225.20		
10	205.40	200.00	187.40	183.80	219.80	683.20	425.00	306.00	246.80	236.00	237.80	221.60		
11	200.00	210.80	185.60	198.20	223.40	680.40	429.40	330.00	241.40	201.80	223.40	239.60		
12	198.20	196.40	185.60	191.00	227.00	658.00	398.60	346.00	218.00	198.20	214.40	230.60		
13	198.20	203.60	174.00	194.60	248.60	637.20	383.20	362.00	214.40	196.40	241.40	230.60		
14	203.60	182.00	216.20	196.40	268.40	593.00	368.00	381.00	230.60	207.20	261.20	243.20		
15	216.20	189.20	219.80	207.20	268.40	572.20	356.00	378.80	227.00	239.60	241.40	234.20		
16	214.40	187.40	228.80	201.80	264.80	532.40	340.00	366.00	210.80	232.40	221.60	234.20		
17	216.20	189.20	214.40	182.00	272.00	498.80	302.00	352.00	212.60	241.40	212.60	214.40		
18	218.00	192.80	219.80	180.40	286.40	489.20	284.60	344.00	246.80	246.80	221.60	200.00		
19	219.80	187.40	196.40	172.40	292.00	440.40	272.00	332.00	236.00	246.80	230.60	203.60		
20	228.80	189.20	185.60	187.40	279.20	398.60	264.80	308.00	228.80	245.00	228.80	198.20		
21	228.80	189.20	185.60	205.40	300.00	383.20	261.20	298.00	237.80	241.40	234.20	212.60		
22	216.20	178.80	174.00	200.00	304.00	356.00	236.00	282.80	257.60	227.00	234.20	225.20		
23	203.60	174.00	172.40	185.60	332.00	348.00	230.60	281.00	270.20	241.40	219.80	227.00		
24	200.00	166.00	187.40	178.80	352.00	344.00	236.00	284.60	245.00	248.60	221.60	232.40		
25	191.00	189.20	212.60	178.80	364.00	342.00	239.60	272.00	236.00	230.60	216.20	228.80		
26	198.20	192.80	196.40	178.80	374.40	354.00	243.20	261.20	259.40	214.40	228.80	246.80		
27	209.00	192.80	182.00	175.60	368.00	358.00	243.20	264.80	259.40	207.20	227.00	243.20		
28	214.40	191.00	182.00	166.00	372.20	366.00	272.00	243.20	236.00	218.00	228.80	254.00		
29	214.40	183.80	172.40	172.40	366.00	389.80	290.00	230.60	221.60	239.60		257.60		
30	218.00	183.80	172.40	178.80	372.20	422.80	300.00	218.00	250.40	248.60		250.40		
31		192.80		180.40	360.00		302.00		236.00	243.20		230.60		
Total	6383.40	6043.60	5660.60	5668.40	8592.40	14541.80	10664.60	9112.80	7321.40	7181.00	6518.00	7026.20	94714.20	CMSDAY
Mean	212.78	194.95	188.69	182.85	277.17	484.73	344.02	303.76	236.17	231.65	232.79	226.65	259.49	CMS
Max	228.80	223.40	228.80	207.20	374.40	683.20	482.00	381.00	270.20	248.60	261.20	257.60	683.20	CMS
Min	191.00	166.00	162.80	166.00	180.40	342.00	230.60	218.00	192.80	196.40	212.60	198.20	162.80	CMS
Runoff	551.53	522.17	489.08	489.75	742.38	1256.41	921.42	787.35	632.57	620.44	563.16	607.06	8183.31	MCM

Momentary Peak 716.80 CMS. at 2.81 m. (MSL.) at 24.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Khlong Bang Luang at Ban Bang Luang Dod, Phra Nakhon Si Ayutthaya (C.36)

Lat 14 - 24 - 50 N Long 100 - 26 - 37 E

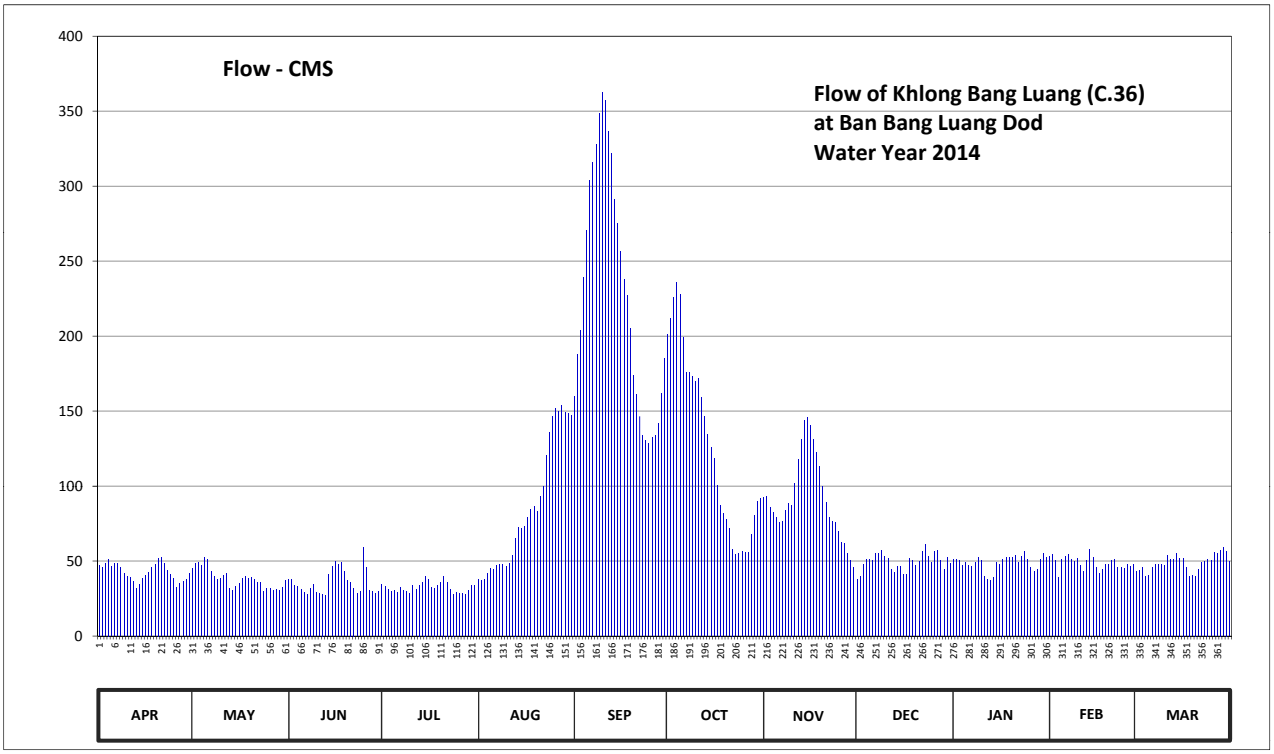
Location : on right bank at the bridge.

	Ban Bang Luang Dod	**Amphoe** Bang Ban		**Changwat** Phra Nakhon Si Ayutthaya	
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 right bank near the top staff gage			**Elevation**	+7.500 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	1983 to date				
Rated by Flot	-				
Rated by Current Meter	1983 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.18	0.06	-0.01	0.06	1.70	2.11	0.89	0.05	0.28	0.32	0.15	
2	0.19	0.24	0.05	-0.04	0.04	1.98	2.22	0.90	0.10	0.29	0.34	0.16	
3	0.24	0.25	-0.02	-0.08	0.05	2.14	2.36	0.81	0.23	0.27	0.27	0.20	
4	0.29	0.22	-0.04	-0.11	0.13	2.49	2.46	0.76	0.28	0.22	0.08	0.10	
5	0.21	0.31	-0.08	-0.09	0.18	2.77	2.38	0.72	0.28	0.25	0.29	0.11	
6	0.24	0.28	-0.13	-0.12	0.17	3.05	2.09	0.67	0.27	0.22	0.32	0.19	
7	0.24	0.15	-0.15	-0.05	0.22	3.15	1.86	0.68	0.35	0.21	0.34	0.23	
8	0.19	0.09	-0.06	-0.09	0.23	3.25	1.86	0.78	0.35	0.25	0.29	0.23	
9	0.13	0.05	-0.01	-0.11	0.23	3.41	1.83	0.84	0.39	0.31	0.26	0.23	
10	0.09	0.07	-0.13	-0.14	0.21	3.52	1.80	0.83	0.32	0.27	0.30	0.22	
11	0.08	0.11	-0.14	-0.03	0.24	3.48	1.82	1.01	0.30	0.09	0.22	0.33	
12	0.03	0.13	-0.15	-0.08	0.33	3.32	1.69	1.21	0.17	0.05	0.15	0.29	
13	-0.06	-0.06	-0.18	-0.02	0.52	3.20	1.55	1.38	0.14	0.04	0.27	0.28	
14	-0.01	-0.09	0.12	0.01	0.62	2.94	1.42	1.52	0.21	0.08	0.40	0.35	
15	0.07	-0.04	0.21	0.10	0.61	2.81	1.31	1.54	0.21	0.25	0.31	0.30	
16	0.11	0.00	0.26	0.06	0.63	2.65	1.22	1.48	0.12	0.23	0.20	0.30	
17	0.14	0.07	0.23	-0.05	0.72	2.48	0.99	1.38	0.12	0.29	0.13	0.19	
18	0.20	0.09	0.25	-0.06	0.79	2.37	0.83	1.27	0.30	0.31	0.17	0.10	
19	0.23	0.07	0.15	-0.03	0.82	2.15	0.75	1.15	0.27	0.31	0.23	0.11	
20	0.30	0.08	0.04	0.01	0.77	1.84	0.70	0.98	0.22	0.31	0.23	0.10	
21	0.31	0.05	0.02	0.10	0.90	1.71	0.61	0.85	0.26	0.33	0.27	0.17	
22	0.24	0.01	-0.06	0.02	0.98	1.55	0.40	0.72	0.38	0.25	0.28	0.25	
23	0.16	0.01	-0.14	-0.08	1.24	1.41	0.34	0.68	0.45	0.32	0.20	0.26	
24	0.12	-0.10	-0.11	-0.15	1.43	1.37	0.35	0.67	0.32	0.38	0.20	0.29	
25	0.07	-0.07	0.42	-0.13	1.55	1.34	0.37	0.58	0.25	0.29	0.18	0.27	
26	-0.05	-0.07	0.19	-0.14	1.61	1.39	0.36	0.47	0.38	0.20	0.23	0.36	
27	0.00	-0.09	-0.09	-0.14	1.59	1.41	0.36	0.46	0.39	0.15	0.21	0.35	
28	0.03	-0.08	-0.10	-0.16	1.63	1.50	0.55	0.35	0.27	0.17	0.23	0.39	
29	0.06	-0.09	-0.14	-0.09	1.58	1.72	0.73	0.27	0.17	0.29		0.42	
30	0.13	-0.05	-0.11	-0.03	1.57	1.95	0.86	0.20	0.31	0.35		0.38	
31		0.04		-0.03	1.56		0.88		0.24	0.31		0.26	
Mean	0.14	0.06	0.01	-0.06	0.75	2.34	1.26	0.87	0.26	0.24	0.25	0.24	
Max	0.31	0.31	0.42	0.10	1.63	3.52	2.46	1.54	0.45	0.38	0.40	0.42	3.52
Min	-0.06	-0.10	-0.18	-0.16	0.04	1.34	0.34	0.20	0.05	0.04	0.08	0.10	-0.18

Annual Max Momentary Gage Height	3.56	m. (MSL.) ,	at 17.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-5.31	m. (MSL.)
Left Bank Elevation	7.05	m. (MSL.) ,			
Right Bank Elevation	7.69	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	47.20	44.80	38.00	34.50	38.00	160.00	201.00	92.20	37.50	50.80	53.20	43.00		
2	45.40	48.40	37.50	33.00	37.00	188.00	212.00	93.00	40.00	51.40	54.40	43.60		
3	48.40	49.00	34.00	31.00	37.50	204.00	226.00	85.80	47.80	50.20	50.20	46.00		
4	51.40	47.20	33.00	29.60	41.80	239.00	236.00	82.20	50.80	47.20	39.00	40.00		
5	46.60	52.60	31.00	30.50	44.80	270.40	228.00	79.40	50.80	49.00	51.40	40.60		
6	48.40	50.80	28.80	29.20	44.20	304.00	199.00	75.90	50.20	47.20	53.20	45.40		
7	48.40	43.00	28.00	32.50	47.20	316.00	176.00	76.60	55.00	46.60	54.40	47.80		
8	45.40	39.50	32.00	30.50	47.80	328.00	176.00	83.60	55.00	49.00	51.40	47.80		
9	41.80	37.50	34.50	29.60	47.80	348.30	173.00	88.20	57.40	52.60	49.60	47.80		
10	39.50	38.50	28.80	28.40	46.60	362.60	170.00	87.40	53.20	50.20	52.00	47.20		
11	39.00	40.60	28.40	33.50	48.40	357.40	172.00	101.80	52.00	39.50	47.20	53.80		
12	36.50	41.80	28.00	31.00	53.80	336.60	159.10	117.80	44.20	37.50	43.00	51.40		
13	32.00	32.00	26.80	34.00	65.40	322.00	146.50	131.40	42.40	37.00	50.20	50.80		
14	34.50	30.50	41.20	35.50	72.40	290.80	134.80	143.80	46.60	39.00	58.00	55.00		
15	38.50	33.00	46.60	40.00	71.70	275.20	125.80	145.60	46.60	49.00	52.60	52.00		
16	40.60	35.00	49.60	38.00	73.10	256.50	118.60	140.20	41.20	47.80	46.00	52.00		
17	42.40	38.50	47.80	32.50	79.40	238.00	100.20	131.40	41.20	51.40	41.80	45.40		
18	46.00	39.50	49.00	32.00	84.30	227.00	87.40	122.60	52.00	52.60	44.20	40.00		
19	47.80	38.50	43.00	33.50	86.60	205.00	81.50	113.00	50.20	52.60	47.80	40.60		
20	52.00	39.00	37.00	35.50	82.90	174.00	78.00	99.40	47.20	52.60	47.80	40.00		
21	52.60	37.50	36.00	40.00	93.00	161.00	71.70	89.00	49.60	53.80	50.20	44.20		
22	48.40	35.50	32.00	36.00	99.40	146.50	58.00	79.40	56.80	49.00	50.80	49.00		
23	43.60	35.50	28.40	31.00	120.20	133.90	54.40	76.60	61.00	53.20	46.00	49.60		
24	41.20	30.00	29.60	28.00	135.70	130.60	55.00	75.90	53.20	56.80	46.00	51.40		
25	38.50	31.50	59.20	28.80	146.50	128.20	56.20	69.60	49.00	51.40	44.80	50.20		
26	32.50	31.50	45.40	28.40	151.90	132.20	55.60	62.20	56.80	46.00	47.80	55.60		
27	35.00	30.50	30.50	28.40	150.10	133.90	55.60	61.60	57.40	43.00	46.60	55.00		
28	36.50	31.00	30.00	27.60	153.70	142.00	67.50	55.00	50.20	44.20	47.80	57.40		
29	38.00	30.50	28.40	30.50	149.20	162.00	80.10	50.20	44.20	51.40		59.20		
30	41.80	32.50	29.60	33.50	148.30	185.00	89.80	46.00	52.60	55.00		56.80		
31		37.00		33.50	147.40		91.40		48.40	52.60		49.60		
Total	1279.90	1182.70	1072.10	1000.00	2646.10	6858.10	3936.20	2756.80	1540.50	1509.60	1367.40	1508.20	26657.60	CMSDAY
Mean	42.66	38.15	35.74	32.26	85.36	228.60	126.97	91.89	49.69	48.70	48.84	48.65	73.03	CMS
Max	52.60	52.60	59.20	40.00	153.70	362.60	236.00	145.60	61.00	56.80	58.00	59.20	362.60	CMS
Min	32.00	30.00	26.80	27.60	37.00	128.20	54.40	46.00	37.50	37.00	39.00	40.00	26.80	CMS
Runoff	110.58	102.19	92.63	86.40	228.62	592.54	340.09	238.19	133.10	130.43	118.14	130.31	2303.22	MCM

Momentary Peak 367.80 CMS. at 3.56 m. (MSL.) at 17.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Khlong Bang Ban at Ban Bang Ban, Phra Nakhon Si Ayutthaya (C.37)

Lat 14 - 21 - 28 N Long 100 - 29 - 03 E

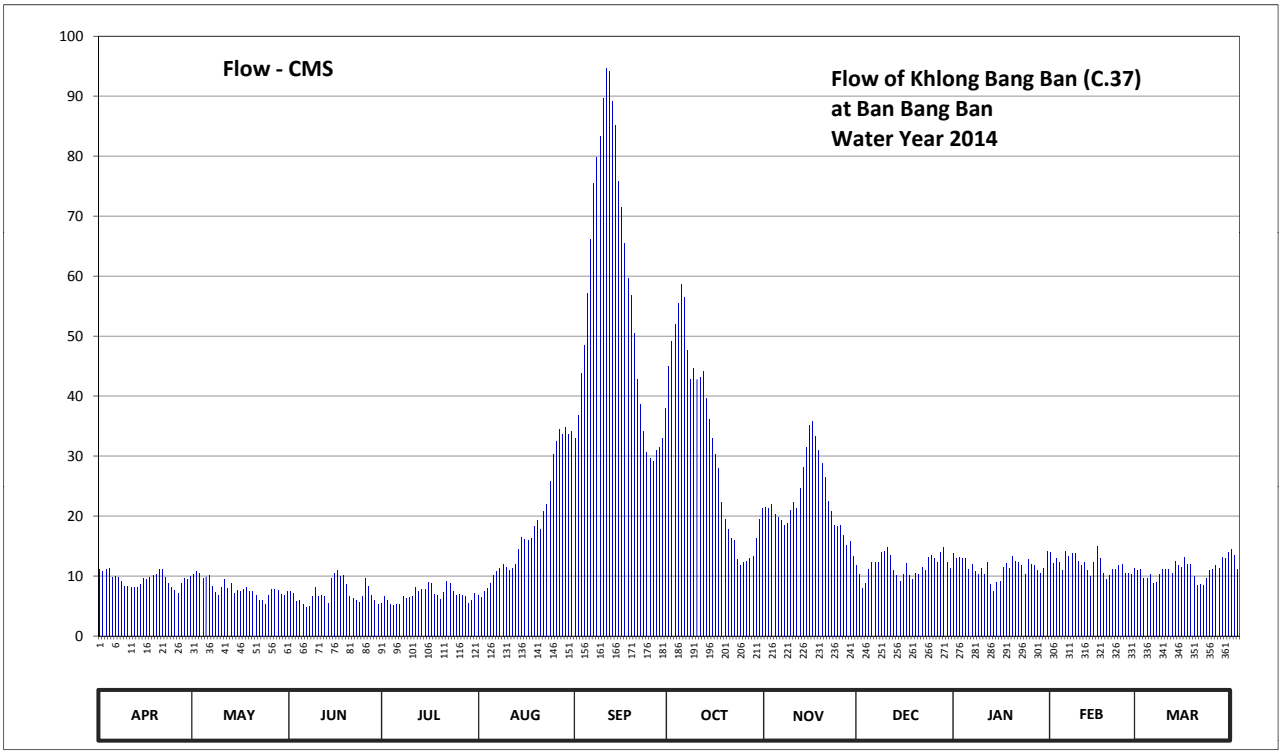
Location : on left bank at the bridge.

	Ban Bang Ban	**Amphoe** Bang Ban	**Changwat** Phra Nakhon Si Ayutthaya
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 top staff gage		**Elevation** +7.703 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	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.33	0.28	0.10	0.04	0.03	1.31	1.66	0.79	0.13	0.43	0.42	0.24	
2	0.31	0.31	0.07	0.00	0.09	1.51	1.74	0.82	0.19	0.42	0.39	0.24	
3	0.33	0.30	-0.02	-0.07	0.13	1.64	1.84	0.75	0.33	0.42	0.32	0.28	
4	0.34	0.24	0.00	-0.09	0.18	1.89	1.93	0.73	0.39	0.33	0.48	0.19	
5	0.25	0.26	-0.07	-0.08	0.27	2.13	1.87	0.71	0.39	0.37	0.44	0.20	
6	0.26	0.27	-0.12	-0.08	0.31	2.36	1.62	0.68	0.39	0.31	0.46	0.29	
7	0.25	0.15	-0.11	0.04	0.34	2.46	1.48	0.69	0.47	0.29	0.46	0.33	
8	0.21	0.08	0.04	0.02	0.37	2.54	1.53	0.78	0.48	0.34	0.40	0.33	
9	0.15	0.05	0.14	0.03	0.35	2.68	1.48	0.83	0.51	0.28	0.36	0.33	
10	0.15	0.14	0.04	0.04	0.32	2.79	1.49	0.79	0.45	0.39	0.39	0.30	
11	0.14	0.23	0.05	0.14	0.34	2.78	1.52	0.92	0.32	0.17	0.32	0.40	
12	0.14	0.13	0.04	0.09	0.37	2.67	1.39	1.04	0.27	0.10	0.26	0.36	
13	0.14	0.19	-0.06	0.12	0.50	2.58	1.29	1.15	0.21	0.20	0.39	0.35	
14	0.17	0.07	0.24	0.12	0.60	2.37	1.20	1.26	0.29	0.21	0.52	0.43	
15	0.24	0.11	0.30	0.20	0.58	2.26	1.11	1.28	0.38	0.35	0.42	0.37	
16	0.23	0.10	0.32	0.18	0.57	2.11	1.03	1.21	0.27	0.38	0.30	0.37	
17	0.25	0.12	0.26	0.06	0.59	1.96	0.83	1.13	0.23	0.34	0.23	0.26	
18	0.27	0.14	0.27	0.05	0.67	1.88	0.72	1.06	0.30	0.44	0.27	0.16	
19	0.28	0.10	0.17	0.01	0.71	1.70	0.65	0.98	0.29	0.40	0.33	0.17	
20	0.33	0.09	0.04	0.08	0.65	1.48	0.59	0.84	0.35	0.39	0.33	0.16	
21	0.33	0.05	0.02	0.21	0.77	1.36	0.57	0.77	0.32	0.36	0.36	0.24	
22	0.25	0.00	-0.01	0.18	0.82	1.23	0.41	0.68	0.43	0.29	0.37	0.32	
23	0.18	0.00	-0.04	0.10	0.96	1.12	0.36	0.67	0.45	0.41	0.30	0.33	
24	0.14	-0.08	0.04	0.05	1.11	1.09	0.39	0.68	0.42	0.37	0.30	0.36	
25	0.11	0.05	0.24	0.06	1.18	1.07	0.40	0.61	0.39	0.36	0.28	0.34	
26	0.07	0.12	0.15	0.05	1.24	1.13	0.42	0.53	0.47	0.32	0.34	0.43	
27	0.19	0.12	0.05	0.04	1.22	1.15	0.44	0.56	0.51	0.30	0.32	0.42	
28	0.24	0.11	0.00	-0.05	1.25	1.20	0.59	0.44	0.39	0.34	0.33	0.47	
29	0.23	0.06	-0.07	0.00	1.22	1.34	0.72	0.36	0.34	0.48		0.50	
30	0.26	0.05	-0.06	0.07	1.23	1.54	0.79	0.29	0.46	0.47		0.45	
31		0.10		0.05	1.20		0.80		0.42	0.38		0.33	
Mean	0.23	0.13	0.07	0.05	0.65	1.84	1.06	0.80	0.36	0.34	0.36	0.32	
Max	0.34	0.31	0.32	0.21	1.25	2.79	1.93	1.28	0.51	0.48	0.52	0.50	2.79
Min	0.07	-0.08	-0.12	-0.09	0.03	1.07	0.36	0.29	0.13	0.10	0.23	0.16	-0.12

Annual Max Momentary Gage Height	2.85	m. (MSL.) ,	at 03.00 Hours , on Sep 11 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-3.59	m. (MSL.)
Left Bank Elevation	6.78	m. (MSL.) ,			
Right Bank Elevation	6.76	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.10	10.20	7.50	6.60	6.45	36.85	49.10	21.25	7.95	13.10	12.90	9.60		
2	10.70	10.70	7.05	6.00	7.35	43.85	51.90	22.00	8.85	12.90	12.30	9.60		
3	11.10	10.50	5.80	5.30	7.95	48.40	55.40	20.25	11.10	12.90	10.90	10.20		
4	11.30	9.60	6.00	5.10	8.70	57.15	58.55	19.75	12.30	11.10	14.10	8.85		
5	9.75	9.90	5.30	5.20	10.05	66.20	56.45	19.25	12.30	11.90	13.30	9.00		
6	9.90	10.05	4.80	5.20	10.70	75.40	47.70	18.50	12.30	10.70	13.70	10.35		
7	9.75	8.25	4.90	6.60	11.30	79.70	42.80	18.75	13.90	10.35	13.70	11.10		
8	9.15	7.20	6.60	6.30	11.90	83.30	44.55	21.00	14.10	11.30	12.50	11.10		
9	8.25	6.75	8.10	6.45	11.50	89.60	42.80	22.25	14.70	10.20	11.70	11.10		
10	8.25	8.10	6.60	6.60	10.90	94.55	43.15	21.25	13.50	12.30	12.30	10.50		
11	8.10	9.45	6.75	8.10	11.30	94.10	44.20	24.60	10.90	8.55	10.90	12.50		
12	8.10	7.95	6.60	7.35	11.90	89.15	39.65	28.20	10.05	7.50	9.90	11.70		
13	8.10	8.85	5.40	7.80	14.50	85.10	36.15	31.50	9.15	9.00	12.30	11.50		
14	8.55	7.05	9.60	7.80	16.50	75.80	33.00	35.10	10.35	9.15	14.90	13.10		
15	9.60	7.65	10.50	9.00	16.10	71.40	30.30	35.80	12.10	11.50	12.90	11.90		
16	9.45	7.50	10.90	8.70	15.90	65.40	27.90	33.35	10.05	12.10	10.50	11.90		
17	9.75	7.80	9.90	6.90	16.30	59.60	22.25	30.90	9.45	11.30	9.45	9.90		
18	10.05	8.10	10.05	6.75	18.25	56.80	19.50	28.80	10.50	13.30	10.05	8.40		
19	10.20	7.50	8.55	6.15	19.25	50.50	17.75	26.40	10.35	12.50	11.10	8.55		
20	11.10	7.35	6.60	7.20	17.75	42.80	16.30	22.50	11.50	12.30	11.10	8.40		
21	11.10	6.75	6.30	9.15	20.75	38.60	15.90	20.75	10.90	11.70	11.70	9.60		
22	9.75	6.00	5.90	8.70	22.00	34.05	12.70	18.50	13.10	10.35	11.90	10.90		
23	8.70	6.00	5.60	7.50	25.80	30.60	11.70	18.25	13.50	12.70	10.50	11.10		
24	8.10	5.20	6.60	6.75	30.30	29.70	12.30	18.50	12.90	11.90	10.50	11.70		
25	7.65	6.75	9.60	6.90	32.40	29.10	12.50	16.75	12.30	11.70	10.20	11.30		
26	7.05	7.80	8.25	6.75	34.40	30.90	12.90	15.10	13.90	10.90	11.30	13.10		
27	8.85	7.80	6.75	6.60	33.70	31.50	13.30	15.70	14.70	10.50	10.90	12.90		
28	9.60	7.65	6.00	5.50	34.75	33.00	16.30	13.30	12.30	11.30	11.10	13.90		
29	9.45	6.90	5.30	6.00	33.70	37.90	19.50	11.70	11.30	14.10		14.50		
30	9.90	6.75	5.40	7.05	34.05	44.90	21.25	10.35	13.70	13.90		13.50		
31		7.50		6.75	33.00		21.50		12.90	12.10		11.10		
Total	282.40	245.55	213.20	212.75	589.40	1705.90	949.25	660.30	366.90	355.10	328.60	342.85	6252.20	CMSDAY
Mean	9.41	7.92	7.11	6.86	19.01	56.86	30.62	22.01	11.84	11.45	11.74	11.06	17.13	CMS
Max	11.30	10.70	10.90	9.15	34.75	94.55	58.55	35.80	14.70	14.10	14.90	14.50	94.55	CMS
Min	7.05	5.20	4.80	5.10	6.45	29.10	11.70	10.35	7.95	7.50	9.45	8.40	4.80	CMS
Runoff	24.40	21.22	18.42	18.38	50.92	147.39	82.02	57.05	31.70	30.68	28.39	29.62	540.19	MCM

Momentary Peak 97.25 CMS. at 2.85 m. (MSL.) at 03.00 Hours , on Sep 11 , 2014

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

WATER YEAR : 2014

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

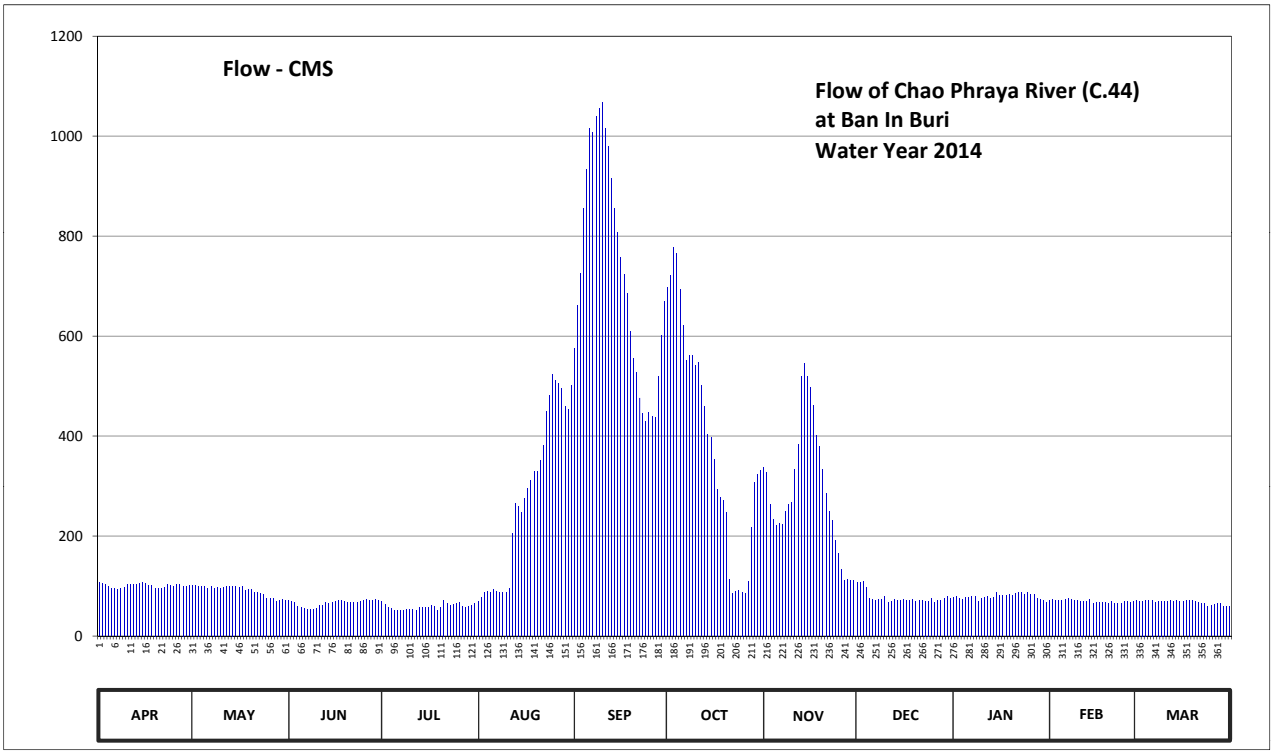
Location : on right bank at the bridge

	Ban	In Buri	**Amphoe** In Buri	**Changwat**	Sing Buri
Drainge Area	118,510 sq.km.				
Type of Gage	Staff gage.				
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	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 Flot	-				
Rated by Current Meter	2005 to date				
Stability of Channel Regimes	Fairly stable				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.23	4.16	3.79	3.76	3.77	7.63	8.27	6.23	4.24	3.86	3.79	3.78	
2	4.21	4.17	3.75	3.68	3.86	8.08	8.40	6.17	4.23	3.88	3.81	3.77	
3	4.19	4.15	3.72	3.60	3.98	8.42	8.69	5.69	4.26	3.85	3.79	3.77	
4	4.14	4.13	3.63	3.54	4.01	9.08	8.63	5.46	4.12	3.81	3.79	3.80	
5	4.08	4.14	3.57	3.50	3.99	9.47	8.25	5.36	3.84	3.87	3.79	3.78	
6	4.09	4.10	3.54	3.50	4.07	9.88	7.87	5.39	3.82	3.87	3.81	3.80	
7	4.07	4.14	3.53	3.49	4.02	9.84	7.50	5.38	3.79	3.90	3.83	3.74	
8	4.08	4.10	3.53	3.50	3.99	10.00	7.55	5.59	3.81	3.88	3.82	3.77	
9	4.12	4.11	3.52	3.53	3.98	10.08	7.55	5.69	3.82	3.77	3.79	3.77	
10	4.19	4.10	3.56	3.52	4.00	10.14	7.44	5.73	3.89	3.84	3.79	3.77	
11	4.20	4.11	3.64	3.52	4.08	9.88	7.48	6.20	3.72	3.86	3.77	3.76	
12	4.19	4.13	3.65	3.50	5.22	9.70	7.22	6.53	3.76	3.90	3.77	3.78	
13	4.20	4.14	3.72	3.57	5.71	9.38	6.98	7.32	3.81	3.84	3.76	3.77	
14	4.22	4.15	3.71	3.59	5.67	9.08	6.65	7.46	3.78	3.86	3.82	3.78	
15	4.23	4.14	3.74	3.57	5.57	8.84	6.61	7.32	3.80	4.00	3.71	3.76	
16	4.22	4.12	3.77	3.60	5.79	8.59	6.34	7.20	3.82	3.92	3.72	3.76	
17	4.17	4.13	3.80	3.65	5.94	8.41	5.93	7.00	3.79	3.91	3.73	3.78	
18	4.16	4.04	3.78	3.61	6.05	8.21	5.80	6.64	3.78	3.92	3.72	3.80	
19	4.10	4.06	3.75	3.50	6.18	7.81	5.76	6.50	3.81	3.93	3.73	3.78	
20	4.08	4.07	3.73	3.58	6.18	7.52	5.57	6.21	3.76	3.92	3.69	3.75	
21	4.08	3.99	3.73	3.80	6.32	7.36	4.32	5.87	3.79	3.96	3.75	3.73	
22	4.12	4.00	3.73	3.69	6.52	7.08	3.96	5.58	3.78	3.99	3.71	3.71	
23	4.19	3.97	3.73	3.64	6.93	6.90	4.01	5.44	3.77	3.99	3.71	3.70	
24	4.17	3.95	3.77	3.66	7.11	6.81	4.03	5.09	3.77	3.94	3.71	3.63	
25	4.14	3.85	3.78	3.70	7.34	6.91	4.00	4.85	3.83	3.99	3.75	3.65	
26	4.18	3.83	3.82	3.73	7.28	6.87	3.96	4.54	3.74	3.94	3.76	3.68	
27	4.19	3.85	3.79	3.63	7.24	6.85	4.26	4.29	3.80	3.93	3.74	3.71	
28	4.15	3.77	3.80	3.59	7.19	7.32	5.32	4.32	3.79	3.84	3.76	3.70	
29	4.13	3.80	3.81	3.61	6.98	7.77	6.02	4.29	3.83	3.81		3.61	
30	4.17	3.82	3.80	3.64	6.95	8.12	6.14	4.28	3.88	3.78		3.61	
31		3.79		3.69	7.22		6.19		3.85	3.73		3.61	
Mean	4.16	4.03	3.71	3.60	5.59	8.40	6.35	5.79	3.85	3.89	3.76	3.74	
Max	4.23	4.17	3.82	3.80	7.34	10.14	8.69	7.46	4.26	4.00	3.83	3.80	10.14
Min	4.07	3.77	3.52	3.49	3.77	6.81	3.96	4.28	3.72	3.73	3.69	3.61	3.49

Annual Max Momentary Gage Height	10.23	m. (MSL.) ,	at 06.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	1.87	m. (MSL.)
Left Bank Elevation	15.99	m. (MSL.) ,			
Right Bank Elevation	15.84	m. (MSL.) ,	Drainage Area	118510	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	106.40	100.80	71.30	69.20	69.90	575.70	697.30	337.50	107.20	76.80	71.30	70.60		
2	104.80	101.60	68.50	63.60	76.80	661.20	722.00	328.50	106.40	78.40	72.80	69.90		
3	103.20	100.00	66.40	58.00	86.40	725.80	778.00	262.70	108.80	76.00	71.30	69.90		
4	99.20	98.40	60.10	54.40	88.80	856.00	766.00	233.20	97.60	72.80	71.30	72.00		
5	94.40	99.20	56.20	52.00	87.20	934.00	693.50	221.20	75.20	77.60	71.30	70.60		
6	95.20	96.00	54.40	52.00	93.60	1016.00	621.30	224.80	73.60	77.60	72.80	72.00		
7	93.60	99.20	53.80	51.40	89.60	1008.00	552.00	223.60	71.30	80.00	74.40	67.80		
8	94.40	96.00	53.80	52.00	87.20	1040.00	561.00	249.70	72.80	78.40	73.60	69.90		
9	97.60	96.80	53.20	53.80	86.40	1056.00	561.00	262.70	73.60	69.90	71.30	69.90		
10	103.20	96.00	55.60	53.20	88.00	1068.00	541.20	267.90	79.20	75.20	71.30	69.90		
11	104.00	96.80	60.80	53.20	94.40	1016.00	548.40	333.00	66.40	76.80	69.90	69.20		
12	103.20	98.40	61.50	52.00	205.20	980.00	501.60	383.80	69.20	80.00	69.90	70.60		
13	104.00	99.20	66.40	56.20	265.30	916.00	458.60	519.60	72.80	75.20	69.20	69.90		
14	105.60	100.00	65.70	57.40	260.10	856.00	403.00	544.80	70.60	76.80	73.60	70.60		
15	106.40	99.20	67.80	56.20	247.10	808.00	396.60	519.60	72.00	88.00	65.70	69.20		
16	105.60	97.60	69.90	58.00	275.70	758.10	354.00	498.00	73.60	81.60	66.40	69.20		
17	101.60	98.40	72.00	61.50	295.60	723.90	294.20	462.00	71.30	80.80	67.10	70.60		
18	100.80	91.20	70.60	58.70	311.00	685.90	277.00	401.40	70.60	81.60	66.40	72.00		
19	96.00	92.80	68.50	52.00	330.00	609.90	271.80	379.00	72.80	82.40	67.10	70.60		
20	94.40	93.60	67.10	56.80	330.00	555.60	247.10	334.50	69.20	81.60	64.30	68.50		
21	94.40	87.20	67.10	72.00	351.00	526.80	113.80	286.10	71.30	84.80	68.50	67.10		
22	97.60	88.00	67.10	64.30	382.20	476.40	84.80	248.40	70.60	87.20	65.70	65.70		
23	103.20	85.60	67.10	60.80	450.10	445.00	88.80	230.80	69.90	87.20	65.70	65.00		
24	101.60	84.00	69.90	62.20	481.80	429.70	90.40	190.90	69.90	83.20	65.70	60.10		
25	99.20	76.00	70.60	65.00	523.20	446.70	88.00	165.00	74.40	87.20	68.50	61.50		
26	102.40	74.40	73.60	67.10	512.40	439.90	84.80	134.00	67.80	83.20	69.20	63.60		
27	103.20	76.00	71.30	60.10	505.20	436.50	108.80	111.20	72.00	82.40	67.80	65.70		
28	100.00	69.90	72.00	57.40	496.20	519.60	216.40	113.80	71.30	75.20	69.20	65.00		
29	98.40	72.00	72.80	58.70	458.60	602.30	306.80	111.20	74.40	72.80		58.70		
30	101.60	73.60	72.00	60.80	453.50	668.80	324.00	110.40	78.40	70.60		58.70		
31		71.30		64.30	501.60		331.50		76.00	67.10		58.70		
Total	3015.20	2809.20	1967.10	1814.30	8584.10	21841.80	12083.70	8689.30	2370.20	2448.40	1941.30	2092.70	69657.30	CMSDAY
Mean	100.51	90.62	65.57	58.53	276.91	728.06	389.80	289.64	76.46	78.98	69.33	67.51	190.84	CMS
Max	106.40	101.60	73.60	72.00	523.20	1068.00	778.00	544.80	108.80	88.00	74.40	72.00	1068.00	CMS
Min	93.60	69.90	53.20	51.40	69.90	429.70	84.80	110.40	66.40	67.10	64.30	58.70	51.40	CMS
Runoff	260.513	242.72	169.96	156.76	741.67	1887.13	1044.03	750.76	204.785	211.542	167.728	180.809	6018.391	MCM

Momentary Peak 1086.00 CMS. at 10.23 m. (MSL.) at 06.00 Hours , on Sep 10 , 2014

Runoff Yield 1.61 Liters/Second/Square KM. Momentary Peak Yield 9.164 Liters/Second/Square KM.

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Nam Chieo, Sing Buri (C.45)

Lat 14 - 48 - 31 N Long 100 - 27 - 09 E

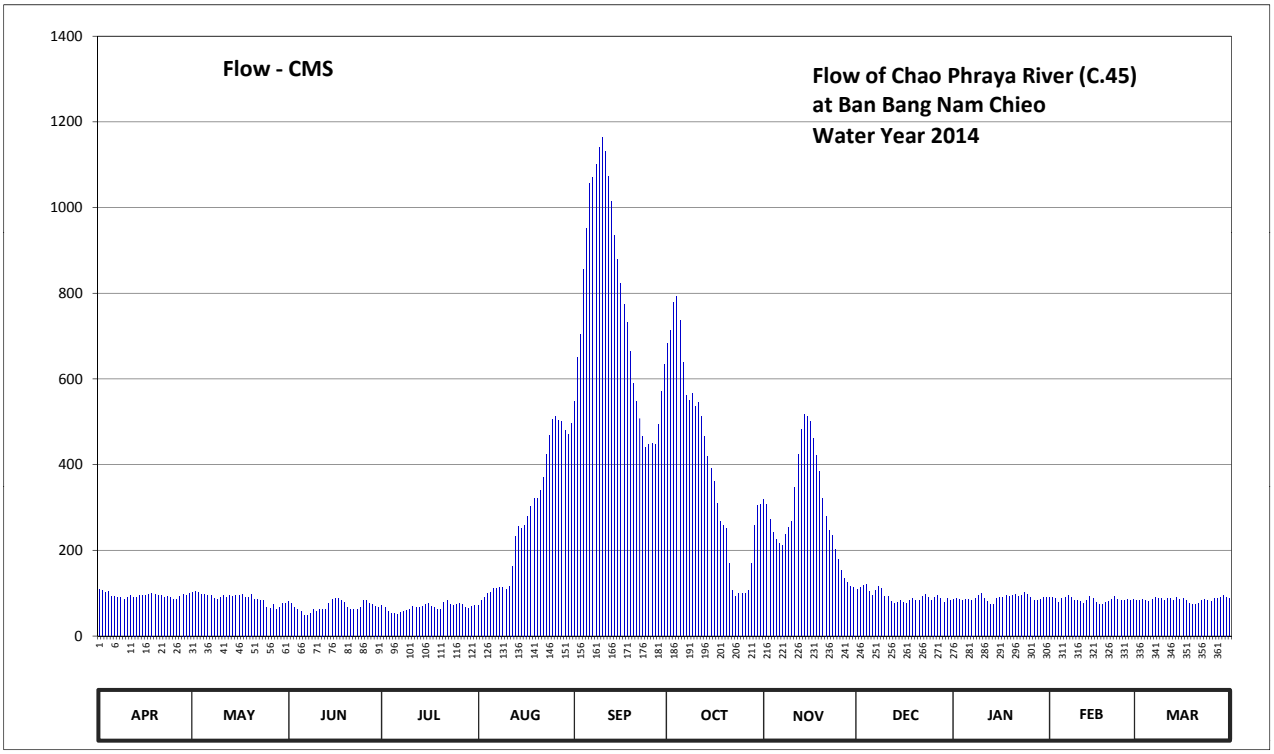
Location : on left bank at Ban Bang Nam Chieo

	Ban Bang Nam Chieo	**Amphoe** Prom Buri		**Changwat** Sing Buri	
Drainge Area	Flood Plain				
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**	+10.460 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	2012 to date				
Rating Operation					
Period of Rating	2012 to date				
Rated by Flot	-				
Rated by Current Meter	2012 to date				
Stability of Channel Regimes	Fairly stable				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.99	0.94	0.72	0.63	0.63	3.79	4.42	2.54	0.99	0.77	0.82	0.75	
2	0.97	0.96	0.68	0.59	0.74	4.28	4.55	2.47	1.05	0.79	0.82	0.75	
3	0.94	0.94	0.60	0.49	0.83	4.51	4.84	2.24	1.08	0.78	0.79	0.78	
4	0.95	0.89	0.54	0.45	0.91	5.16	4.90	2.05	1.10	0.75	0.71	0.74	
5	0.85	0.89	0.48	0.44	0.93	5.54	4.66	1.94	0.95	0.78	0.80	0.72	
6	0.84	0.88	0.39	0.42	1.01	5.96	4.23	1.86	0.86	0.78	0.83	0.78	
7	0.82	0.86	0.39	0.47	1.02	6.02	3.86	1.84	0.97	0.76	0.86	0.81	
8	0.81	0.80	0.43	0.48	1.05	6.14	3.81	2.02	1.07	0.79	0.82	0.80	
9	0.78	0.78	0.53	0.52	1.03	6.30	3.88	2.12	1.01	0.87	0.76	0.79	
10	0.82	0.81	0.48	0.54	1.00	6.39	3.74	2.22	0.85	0.91	0.76	0.74	
11	0.87	0.88	0.53	0.61	1.06	6.26	3.78	2.71	0.84	0.79	0.73	0.80	
12	0.83	0.83	0.55	0.60	1.47	6.03	3.62	3.15	0.73	0.72	0.69	0.79	
13	0.83	0.88	0.54	0.60	1.98	5.80	3.38	3.47	0.69	0.65	0.75	0.76	
14	0.87	0.85	0.67	0.61	2.14	5.48	3.12	3.65	0.71	0.65	0.85	0.81	
15	0.87	0.87	0.77	0.66	2.11	5.26	2.97	3.63	0.75	0.79	0.80	0.77	
16	0.87	0.87	0.79	0.67	2.16	5.02	2.80	3.56	0.71	0.83	0.71	0.79	
17	0.89	0.89	0.80	0.62	2.30	4.82	2.48	3.35	0.67	0.83	0.65	0.74	
18	0.92	0.83	0.76	0.59	2.44	4.64	2.22	3.13	0.75	0.86	0.66	0.67	
19	0.89	0.82	0.71	0.53	2.56	4.34	2.16	2.92	0.79	0.85	0.71	0.66	
20	0.87	0.90	0.59	0.54	2.56	3.99	2.10	2.55	0.75	0.86	0.72	0.65	
21	0.87	0.78	0.55	0.71	2.67	3.80	1.52	2.30	0.75	0.89	0.78	0.67	
22	0.83	0.78	0.53	0.75	2.84	3.60	0.98	2.08	0.84	0.84	0.84	0.76	
23	0.85	0.74	0.54	0.66	3.14	3.38	0.85	1.99	0.89	0.88	0.78	0.77	
24	0.82	0.75	0.60	0.64	3.39	3.23	0.92	1.77	0.81	0.93	0.76	0.75	
25	0.78	0.59	0.74	0.66	3.59	3.28	0.91	1.60	0.74	0.90	0.74	0.73	
26	0.77	0.56	0.76	0.67	3.63	3.29	0.91	1.38	0.83	0.83	0.77	0.80	
27	0.84	0.66	0.67	0.66	3.58	3.28	0.97	1.23	0.86	0.76	0.75	0.80	
28	0.90	0.53	0.65	0.59	3.56	3.53	1.52	1.15	0.79	0.74	0.78	0.83	
29	0.88	0.59	0.62	0.56	3.45	3.91	2.15	1.06	0.70	0.78		0.87	
30	0.92	0.69	0.60	0.62	3.40	4.20	2.45	1.05	0.79	0.83		0.83	
31		0.67		0.64	3.54		2.47		0.76	0.82		0.79	
Mean	0.86	0.80	0.61	0.59	2.15	4.71	2.81	2.30	0.84	0.81	0.77	0.76	
Max	0.99	0.96	0.80	0.75	3.63	6.39	4.90	3.65	1.10	0.93	0.86	0.87	6.39
Min	0.77	0.53	0.39	0.42	0.63	3.23	0.85	1.05	0.67	0.65	0.65	0.65	0.39

Annual Max Momentary Gage Height	6.43	m. (MSL.) ,	at 11.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.77	m. (MSL.)
Left Bank Elevation	10.87	m. (MSL.) ,			
Right Bank Elevation	11.01	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	107.90	102.40	80.00	71.00	71.00	546.90	682.60	318.40	107.90	85.00	90.00	83.00		
2	105.70	104.60	76.00	67.00	82.00	650.60	712.50	307.20	114.50	87.00	90.00	83.00		
3	102.40	102.40	68.00	57.10	91.00	703.30	779.60	271.00	117.80	86.00	87.00	86.00		
4	103.50	97.00	62.00	53.50	99.10	856.40	794.00	242.50	120.00	83.00	79.00	82.00		
5	93.00	97.00	56.20	52.60	101.30	950.00	737.80	226.60	103.50	86.00	88.00	80.00		
6	92.00	96.00	48.10	50.80	110.10	1055.00	639.60	215.40	94.00	86.00	91.00	86.00		
7	90.00	94.00	48.10	55.30	111.20	1070.00	561.60	212.60	105.70	84.00	94.00	89.00		
8	89.00	88.00	51.70	56.20	114.50	1100.00	551.10	238.00	116.70	87.00	90.00	88.00		
9	86.00	86.00	61.00	60.00	112.30	1140.00	565.80	253.00	110.10	95.00	84.00	87.00		
10	90.00	89.00	56.20	62.00	109.00	1162.50	536.40	268.00	93.00	99.10	84.00	82.00		
11	95.00	96.00	61.00	69.00	115.60	1130.00	544.80	346.70	92.00	87.00	81.00	88.00		
12	91.00	91.00	63.00	68.00	163.40	1072.50	512.00	425.00	81.00	80.00	77.00	87.00		
13	91.00	96.00	62.00	68.00	232.20	1015.00	466.40	483.30	77.00	73.00	83.00	84.00		
14	95.00	93.00	75.00	69.00	256.00	935.00	419.60	518.00	79.00	73.00	93.00	89.00		
15	95.00	95.00	85.00	74.00	251.50	880.40	392.60	514.00	83.00	87.00	88.00	85.00		
16	95.00	95.00	87.00	75.00	259.00	822.80	362.00	500.40	79.00	91.00	79.00	87.00		
17	97.00	97.00	88.00	70.00	280.00	774.80	308.80	461.00	75.00	91.00	73.00	82.00		
18	100.20	91.00	84.00	67.00	302.40	733.20	268.00	421.40	83.00	94.00	74.00	75.00		
19	97.00	90.00	79.00	61.00	321.60	664.20	259.00	383.60	87.00	93.00	79.00	74.00		
20	95.00	98.00	67.00	62.00	321.60	588.90	250.00	320.00	83.00	94.00	80.00	73.00		
21	95.00	86.00	63.00	79.00	339.90	549.00	169.60	280.00	83.00	97.00	86.00	75.00		
22	91.00	86.00	61.00	83.00	369.20	508.00	106.80	247.00	92.00	92.00	92.00	84.00		
23	93.00	82.00	62.00	74.00	423.20	466.40	93.00	233.60	97.00	96.00	86.00	85.00		
24	90.00	83.00	68.00	72.00	468.20	439.40	100.20	202.80	89.00	101.30	84.00	83.00		
25	86.00	67.00	82.00	74.00	506.10	448.40	99.10	180.00	82.00	98.00	82.00	81.00		
26	85.00	64.00	84.00	75.00	514.00	450.20	99.10	152.60	91.00	91.00	85.00	88.00		
27	92.00	74.00	75.00	74.00	504.20	448.40	105.70	134.60	94.00	84.00	83.00	88.00		
28	98.00	61.00	73.00	67.00	500.40	494.70	169.60	125.50	87.00	82.00	86.00	91.00		
29	96.00	67.00	70.00	64.00	479.50	572.10	257.50	115.60	78.00	86.00		95.00		
30	100.20	77.00	68.00	70.00	470.00	633.00	304.00	114.50	87.00	91.00		91.00		
31		75.00		72.00	496.60		307.20		84.00	90.00		87.00		
Total	2836.90	2720.40	2064.30	2072.50	8576.10	22861.10	12156.00	8712.30	2866.20	2749.40	2368.00	2618.00	72601.20	CMSDAY
Mean	94.56	87.75	68.81	66.85	276.65	762.04	392.13	290.41	92.46	88.69	84.57	84.45	198.91	CMS
Max	107.90	104.60	88.00	83.00	514.00	1162.50	794.00	518.00	120.00	101.30	94.00	95.00	1162.50	CMS
Min	85.00	61.00	48.10	50.80	71.00	439.40	93.00	114.50	75.00	73.00	73.00	73.00	48.10	CMS
Runoff	245.11	235.04	178.36	179.06	740.98	1975.20	1050.28	752.74	247.64	237.55	204.60	226.20	6272.74	MCM

Momentary Peak 1172.80 CMS. at 6.43 m. (MSL.) at 11.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Chaiyo, Ang Thong (C.46)

Lat 14 - 42 - 59 N Long 100 - 26 - 22 E

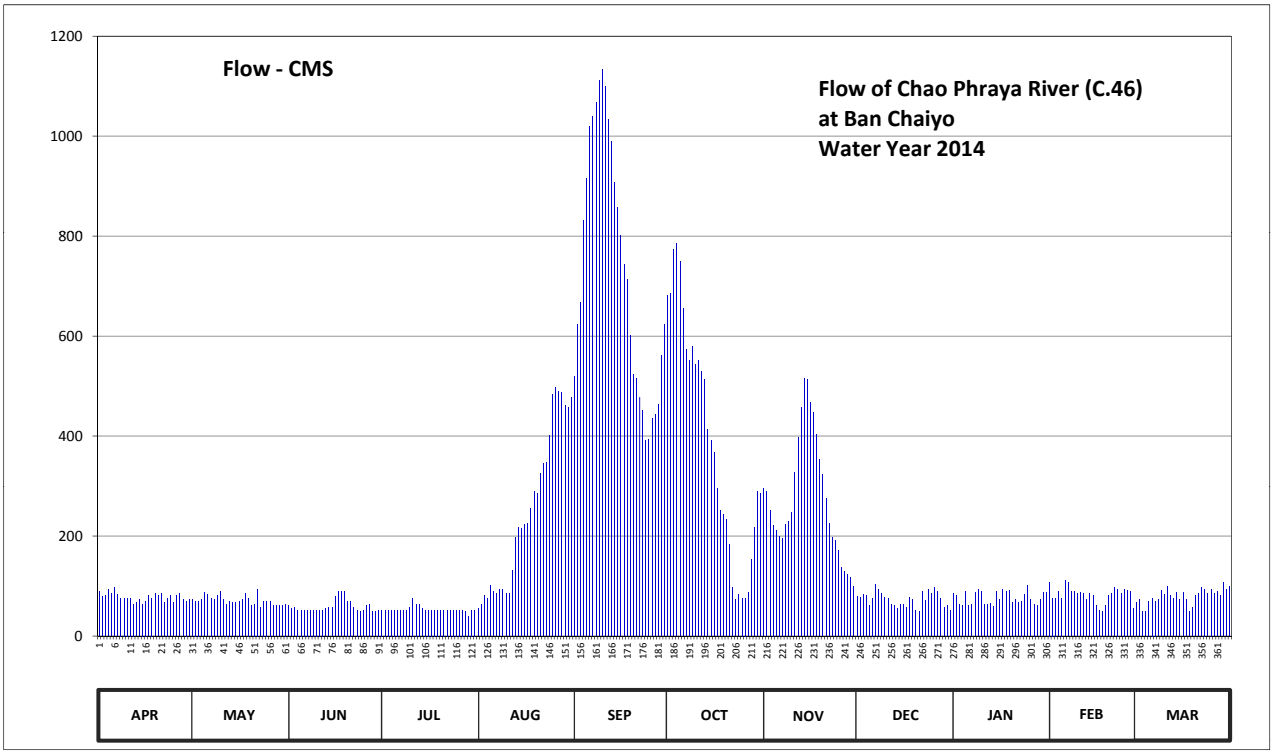
Location : on right bank at Ban Chaiyo

	Ban Chaiyo	**Amphoe** Chaiyo	**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 right bank near the gage site		**Elevation** +10.660 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2012 to date		
Rating Operation			
Period of Rating	2012 to date		
Rated by Flot	-		
Rated by Current Meter	2012 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.68	0.58	0.50	0.53	3.15	3.88	2.03	0.72	0.77	0.93	0.63	
2	0.72	0.65	0.53	0.50	0.59	3.63	3.90	2.00	0.71	0.73	0.70	0.68	
3	0.73	0.65	0.55	0.50	0.74	3.82	4.28	1.80	0.75	0.60	0.70	0.48	
4	0.82	0.67	0.50	0.50	0.69	4.52	4.33	1.63	0.73	0.57	0.80	0.47	
5	0.77	0.78	0.50	0.50	0.88	4.86	4.18	1.57	0.57	0.80	0.70	0.65	
6	0.85	0.75	0.50	0.50	0.80	5.28	3.77	1.50	0.70	0.58	0.95	0.70	
7	0.75	0.70	0.50	0.50	0.77	5.36	3.40	1.47	0.89	0.59	0.92	0.65	
8	0.70	0.67	0.50	0.50	0.82	5.47	3.30	1.64	0.82	0.78	0.80	0.68	
9	0.70	0.73	0.50	0.50	0.82	5.64	3.43	1.67	0.77	0.82	0.80	0.81	
10	0.70	0.80	0.50	0.55	0.77	5.73	3.26	1.77	0.71	0.80	0.77	0.75	
11	0.70	0.67	0.50	0.70	0.77	5.60	3.30	2.20	0.69	0.59	0.78	0.86	
12	0.60	0.60	0.50	0.60	1.08	5.33	3.20	2.55	0.59	0.60	0.77	0.73	
13	0.63	0.65	0.53	0.60	1.48	5.16	3.12	2.85	0.58	0.61	0.68	0.69	
14	0.67	0.63	0.55	0.53	1.60	4.83	2.63	3.13	0.53	0.56	0.77	0.78	
15	0.60	0.62	0.55	0.50	1.59	4.63	2.52	3.12	0.59	0.80	0.73	0.68	
16	0.65	0.65	0.72	0.50	1.64	4.40	2.40	2.90	0.60	0.67	0.57	0.78	
17	0.73	0.67	0.80	0.50	1.65	4.15	2.03	2.80	0.54	0.82	0.50	0.67	
18	0.70	0.77	0.80	0.50	1.82	4.02	1.80	2.58	0.71	0.80	0.47	0.47	
19	0.77	0.70	0.80	0.50	2.00	3.53	1.75	2.33	0.67	0.81	0.58	0.55	
20	0.73	0.57	0.65	0.50	1.98	3.17	1.70	2.18	0.49	0.63	0.73	0.73	
21	0.77	0.60	0.65	0.50	2.19	3.13	1.40	1.93	0.48	0.67	0.77	0.77	
22	0.63	0.83	0.55	0.50	2.29	2.95	0.85	1.65	0.80	0.63	0.85	0.85	
23	0.70	0.55	0.50	0.50	2.30	2.82	0.68	1.48	0.66	0.65	0.83	0.83	
24	0.73	0.65	0.47	0.50	2.57	2.52	0.75	1.45	0.82	0.75	0.76	0.76	
25	0.63	0.65	0.50	0.50	2.98	2.53	0.70	1.33	0.76	0.88	0.83	0.83	
26	0.73	0.65	0.57	0.50	3.05	2.74	0.70	1.12	0.85	0.68	0.81	0.77	
27	0.77	0.57	0.60	0.50	3.01	2.78	0.78	1.07	0.80	0.60	0.79	0.80	
28	0.68	0.57	0.47	0.47	3.00	2.88	1.22	1.03	0.69	0.57	0.53	0.73	
29	0.65	0.57	0.47	0.40	2.87	3.35	1.60	1.00	0.54	0.67		0.92	
30	0.68	0.58	0.50	0.50	2.85	3.63	2.00	0.87	0.57	0.78		0.82	
31		0.60		0.50	2.95		1.98		0.50	0.78		0.87	
Mean	0.71	0.66	0.56	0.51	1.71	4.05	2.41	1.89	0.67	0.70	0.74	0.72	
Max	0.85	0.83	0.80	0.70	3.05	5.73	4.33	3.13	0.89	0.88	0.95	0.92	5.73
Min	0.60	0.55	0.47	0.40	0.53	2.52	0.68	0.87	0.48	0.56	0.47	0.47	0.40

Annual Max Momentary Gage Height	5.75	m. (MSL.) ,	at 12.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.83	m. (MSL.)
Left Bank Elevation	10.66	m. (MSL.) ,			
Right Bank Elevation	10.36	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	90.00	73.60	61.60	52.00	55.60	519.50	681.40	294.70	78.80	85.80	108.20	67.60		
2	78.80	70.00	55.60	52.00	62.80	623.90	686.00	289.00	77.40	80.20	76.00	73.60		
3	80.20	70.00	58.00	52.00	81.60	667.60	773.40	252.00	83.00	64.00	76.00	49.60		
4	92.80	72.40	52.00	52.00	74.80	830.80	785.20	222.10	80.20	60.40	90.00	48.40		
5	85.80	87.20	52.00	52.00	101.20	915.00	750.40	211.90	60.40	90.00	76.00	70.00		
6	97.00	83.00	52.00	52.00	90.00	1020.00	656.10	200.00	76.00	61.60	111.00	76.00		
7	83.00	76.00	52.00	52.00	85.80	1040.00	573.00	194.90	102.60	62.80	106.80	70.00		
8	76.00	72.40	52.00	52.00	92.80	1067.50	551.00	223.80	92.80	87.20	90.00	73.60		
9	76.00	80.20	52.00	52.00	92.80	1110.40	579.60	228.90	85.80	92.80	90.00	91.40		
10	76.00	90.00	52.00	58.00	85.80	1133.80	542.60	246.60	77.40	90.00	85.80	83.00		
11	76.00	72.40	52.00	76.00	85.80	1100.00	551.00	328.00	74.80	62.80	87.20	98.40		
12	64.00	64.00	52.00	64.00	130.80	1032.50	530.00	398.00	62.80	64.00	85.80	80.20		
13	67.60	70.00	55.60	64.00	196.60	990.00	513.20	458.00	61.60	65.20	73.60	74.80		
14	72.40	67.60	58.00	55.60	217.00	907.50	414.00	515.30	55.60	59.20	85.80	87.20		
15	64.00	66.40	58.00	52.00	215.30	857.50	392.00	513.20	62.80	90.00	80.20	73.60		
16	70.00	70.00	78.80	52.00	223.80	802.00	368.00	468.00	64.00	72.40	60.40	87.20		
17	80.20	72.40	90.00	52.00	225.50	743.50	294.70	448.00	56.80	92.80	52.00	72.40		
18	76.00	85.80	90.00	52.00	255.60	713.60	252.00	404.00	77.40	90.00	48.40	48.40		
19	85.80	76.00	90.00	52.00	289.00	601.60	243.00	354.00	72.40	91.40	61.60	58.00		
20	80.20	60.40	70.00	52.00	285.20	523.70	234.00	324.00	50.80	67.60	80.20	80.20		
21	85.80	64.00	70.00	52.00	326.00	515.30	183.00	275.70	49.60	72.40	85.80	85.80		
22	67.60	94.20	58.00	52.00	346.00	478.00	97.00	225.50	90.00	67.60	97.00	97.00		
23	76.00	58.00	52.00	52.00	348.00	452.00	73.60	196.60	71.20	70.00	94.20	94.20		
24	80.20	70.00	48.40	52.00	402.00	392.00	83.00	191.50	92.80	83.00	84.40	84.40		
25	67.60	70.00	52.00	52.00	484.00	394.00	76.00	171.10	84.40	101.20	94.20	94.20		
26	80.20	70.00	60.40	52.00	498.50	436.00	76.00	137.20	97.00	73.60	91.40	85.80		
27	85.80	60.40	64.00	52.00	490.10	444.00	87.20	129.20	90.00	64.00	88.60	90.00		
28	73.60	60.40	48.40	48.40	488.00	464.00	153.20	122.80	74.80	60.40	55.60	80.20		
29	70.00	60.40	48.40	40.00	462.00	562.00	217.00	118.00	56.80	72.40		106.80		
30	73.60	61.60	52.00	52.00	458.00	623.90	289.00	99.80	60.40	87.20		92.80		
31		64.00		52.00	478.00		285.20		52.00	87.20		99.80		
Total	2332.20	2212.80	1787.20	1654.00	7728.40	21961.60	11990.80	8241.80	2272.40	2369.20	2316.20	2474.60	67341.20	CMSDAY
Mean	77.74	71.38	59.57	53.35	249.30	732.05	386.80	274.73	73.30	76.43	82.72	79.83	184.50	CMS
Max	97.00	94.20	90.00	76.00	498.50	1133.80	785.20	515.30	102.60	101.20	111.00	106.80	1133.80	CMS
Min	64.00	58.00	48.40	40.00	55.60	392.00	73.60	99.80	49.60	59.20	48.40	48.40	40.00	CMS
Runoff	201.50	191.19	154.41	142.91	667.73	1897.48	1036.01	712.09	196.34	204.70	200.12	213.81	5818.28	MCM

Momentary Peak 1139.00 CMS. at 5.75 m. (MSL.) at 12.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Pa Mok, Ang Thong (C.47)

Lat 14 - 30 - 54 N Long 100 - 27 - 59 E

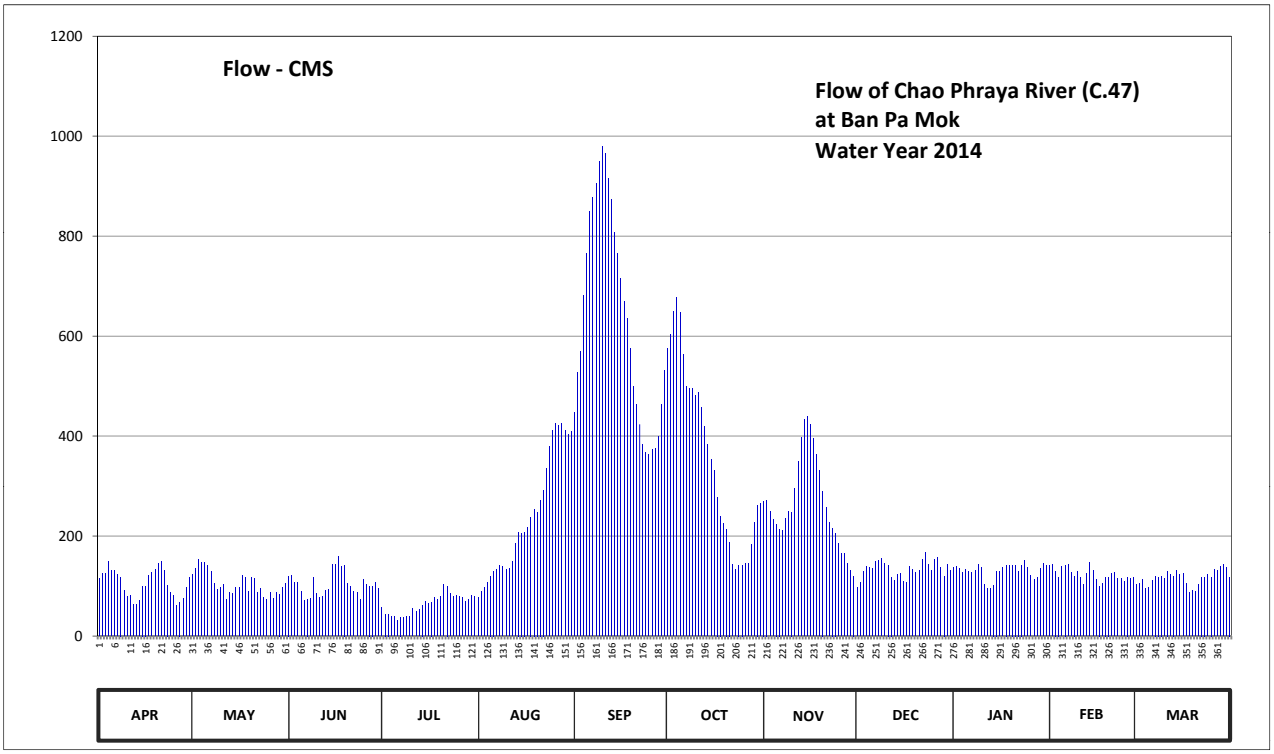
Location : on right bank at Ban Pa Mok

	Ban Pa Mok	**Amphoe** Pa Mok		**Changwat** Ang Thong	
Drainge Area	Flood Plain				
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 gage site			**Elevation**	+10.850 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	2012 to date				
Rating Operation					
Period of Rating	2012 to date				
Rated by Flot	-				
Rated by Current Meter	2012 to date				
Stability of Channel Regimes	Fairly stable				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	1.02	1.00	0.56	0.76	2.59	3.12	1.80	0.87	1.10	1.12	0.91	
2	1.03	1.09	1.01	0.45	0.83	2.92	3.23	1.81	0.93	1.11	1.14	0.92	
3	1.03	1.19	0.93	0.45	0.87	3.10	3.41	1.70	1.05	1.09	1.06	0.96	
4	1.17	1.16	0.93	0.41	0.93	3.53	3.51	1.62	1.11	1.04	0.99	0.86	
5	1.07	1.16	0.83	0.41	1.00	3.85	3.40	1.57	1.10	1.08	1.11	0.87	
6	1.07	1.12	0.71	0.34	1.06	4.17	3.07	1.52	1.09	1.05	1.13	0.95	
7	1.02	1.05	0.74	0.40	1.08	4.28	2.81	1.51	1.17	1.04	1.14	1.00	
8	0.99	0.92	0.75	0.39	1.12	4.38	2.79	1.63	1.18	1.07	1.04	0.99	
9	0.84	0.85	0.98	0.41	1.11	4.54	2.79	1.70	1.21	1.14	1.00	1.00	
10	0.77	0.87	0.81	0.41	1.08	4.65	2.73	1.69	1.15	1.10	1.05	0.97	
11	0.78	0.91	0.76	0.54	1.09	4.60	2.76	1.92	1.13	0.91	0.98	1.06	
12	0.61	0.73	0.77	0.50	1.17	4.42	2.63	2.17	0.99	0.86	0.91	1.02	
13	0.62	0.82	0.84	0.52	1.37	4.27	2.47	2.38	0.95	0.86	1.03	1.00	
14	0.70	0.81	0.85	0.60	1.49	4.01	2.32	2.53	1.02	0.90	1.16	1.07	
15	0.89	0.87	1.14	0.68	1.48	3.85	2.19	2.56	1.03	1.06	1.07	1.02	
16	0.89	0.87	1.14	0.64	1.49	3.66	2.09	2.49	0.94	1.05	0.96	1.03	
17	1.01	1.01	1.23	0.67	1.54	3.48	1.84	2.37	0.93	1.10	0.89	0.92	
18	1.04	0.98	1.11	0.76	1.64	3.35	1.65	2.23	1.11	1.13	0.92	0.82	
19	1.08	0.83	1.13	0.72	1.72	3.12	1.58	2.09	1.08	1.12	0.99	0.84	
20	1.15	0.98	0.92	0.77	1.69	2.81	1.52	1.90	1.04	1.13	0.99	0.83	
21	1.17	0.97	0.88	0.91	1.81	2.66	1.39	1.74	1.07	1.13	1.03	0.91	
22	1.07	0.82	0.83	0.89	1.91	2.49	1.14	1.59	1.19	1.06	1.04	0.99	
23	0.90	0.86	0.82	0.81	2.11	2.32	1.08	1.53	1.27	1.13	0.97	0.99	
24	0.82	0.76	0.73	0.77	2.31	2.25	1.13	1.48	1.14	1.18	0.97	1.02	
25	0.78	0.72	0.96	0.78	2.44	2.23	1.13	1.37	1.07	1.10	0.94	0.99	
26	0.59	0.82	0.91	0.77	2.50	2.28	1.15	1.26	1.20	1.01	0.99	1.08	
27	0.67	0.75	0.89	0.76	2.48	2.29	1.15	1.26	1.22	0.96	0.97	1.07	
28	0.75	0.82	0.89	0.68	2.50	2.39	1.36	1.15	1.10	0.98	0.98	1.11	
29	0.87	0.80	0.93	0.72	2.44	2.66	1.59	1.07	1.00	1.09		1.14	
30	0.98	0.87	0.86	0.78	2.41	2.94	1.76	1.00	1.14	1.15		1.10	
31		0.92		0.77	2.43		1.78		1.07	1.12		0.99	
Mean	0.91	0.91	0.91	0.62	1.61	3.34	2.15	1.75	1.08	1.06	1.02	0.98	
Max	1.17	1.19	1.23	0.91	2.50	4.65	3.51	2.56	1.27	1.18	1.16	1.14	4.65
Min	0.59	0.72	0.71	0.34	0.76	2.23	1.08	1.00	0.87	0.86	0.89	0.82	0.34

Annual Max Momentary Gage Height	4.68	m. (MSL.) ,	at 15.00 Hours , on Sep 10 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-1.08	m. (MSL.)
Left Bank Elevation	10.03	m. (MSL.) ,			
Right Bank Elevation	10.85	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	114.60	123.40	120.00	57.20	76.80	447.60	575.20	270.00	96.60	137.00	140.40	103.80		
2	125.10	135.30	121.70	44.00	89.40	526.80	603.80	272.00	107.40	138.70	143.80	105.60		
3	125.10	152.30	107.40	44.00	96.60	570.00	650.60	250.00	128.50	135.30	130.20	112.80		
4	148.90	147.20	107.40	39.20	107.40	681.80	676.60	234.00	138.70	126.80	118.20	94.80		
5	131.90	147.20	89.40	39.20	120.00	765.00	648.00	224.00	137.00	133.60	138.70	96.60		
6	131.90	140.40	71.53	31.40	130.20	848.20	562.80	214.00	135.30	128.50	142.10	111.00		
7	123.40	128.50	74.13	38.00	133.60	876.80	500.40	212.00	148.90	126.80	143.80	120.00		
8	118.20	105.60	75.00	36.90	140.40	904.40	495.60	236.00	150.60	131.90	126.80	118.20		
9	91.20	93.00	116.40	39.20	138.70	949.20	495.60	250.00	155.80	143.80	120.00	120.00		
10	78.60	96.60	85.80	39.20	133.60	980.00	481.20	248.00	145.50	137.00	128.50	114.60		
11	80.40	103.80	76.80	54.80	135.30	966.00	488.40	294.40	142.10	103.80	116.40	130.20		
12	62.87	73.27	78.60	50.00	148.90	915.60	457.20	349.40	118.20	94.80	103.80	123.40		
13	63.73	87.60	91.20	52.40	184.60	874.20	418.80	397.20	111.00	94.80	125.10	120.00		
14	70.67	85.80	93.00	62.00	208.00	806.60	382.80	433.20	123.40	102.00	147.20	131.90		
15	100.20	96.60	143.80	68.93	206.00	765.00	353.80	440.40	125.10	130.20	131.90	123.40		
16	100.20	96.60	143.80	65.47	208.00	715.60	331.80	423.60	109.20	128.50	112.80	125.10		
17	121.70	121.70	159.40	68.07	218.00	668.80	278.00	394.80	107.40	137.00	100.20	105.60		
18	126.80	116.40	138.70	76.80	238.00	635.00	240.00	362.60	138.70	142.10	105.60	87.60		
19	133.60	89.40	142.10	72.40	254.00	575.20	226.00	331.80	133.60	140.40	118.20	91.20		
20	145.50	116.40	105.60	78.60	248.00	500.40	214.00	290.00	126.80	142.10	118.20	89.40		
21	148.90	114.60	98.40	103.80	272.00	464.40	188.20	258.00	131.90	142.10	125.10	103.80		
22	131.90	87.60	89.40	100.20	292.20	423.60	143.80	228.00	152.30	130.20	126.80	118.20		
23	102.00	94.80	87.60	85.80	336.20	382.80	133.60	216.00	166.60	142.10	114.60	118.20		
24	87.60	76.80	73.27	78.60	380.40	367.00	142.10	206.00	143.80	150.60	114.60	123.40		
25	80.40	72.40	112.80	80.40	411.60	362.60	142.10	184.60	131.90	137.00	109.20	118.20		
26	60.80	87.60	103.80	78.60	426.00	373.60	145.50	164.80	154.00	121.70	118.20	133.60		
27	68.07	75.00	100.20	76.80	421.20	375.80	145.50	164.80	157.60	112.80	114.60	131.90		
28	75.00	87.60	100.20	68.93	426.00	399.60	182.80	145.50	137.00	116.40	116.40	138.70		
29	96.60	84.00	107.40	72.40	411.60	464.40	228.00	131.90	120.00	135.30		143.80		
30	116.40	96.60	94.80	80.40	404.40	531.60	262.00	120.00	143.80	145.50		137.00		
31		105.60		78.60	409.20		266.00		131.90	140.40		118.20		
Total	3162.24	3239.67	3109.63	1962.30	7406.30	19117.60	11060.20	7947.00	4150.60	4029.20	3451.40	3610.20	72246.34	CMSDAY
Mean	105.41	104.51	103.65	63.30	238.91	637.25	356.78	264.90	133.89	129.97	123.26	116.46	197.94	CMS
Max	148.90	152.30	159.40	103.80	426.00	980.00	676.60	440.40	166.60	150.60	147.20	143.80	980.00	CMS
Min	60.80	72.40	71.53	31.40	76.80	362.60	133.60	120.00	96.60	94.80	100.20	87.60	31.40	CMS
Runoff	273.22	279.91	268.67	169.54	639.90	1651.76	955.60	686.62	358.61	348.12	298.20	311.92	6242.08	MCM

Momentary Peak 988.40 CMS. at 4.68 m. (MSL.) at 15.00 Hours , on Sep 10 , 2014

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

WATER YEAR : 2014

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

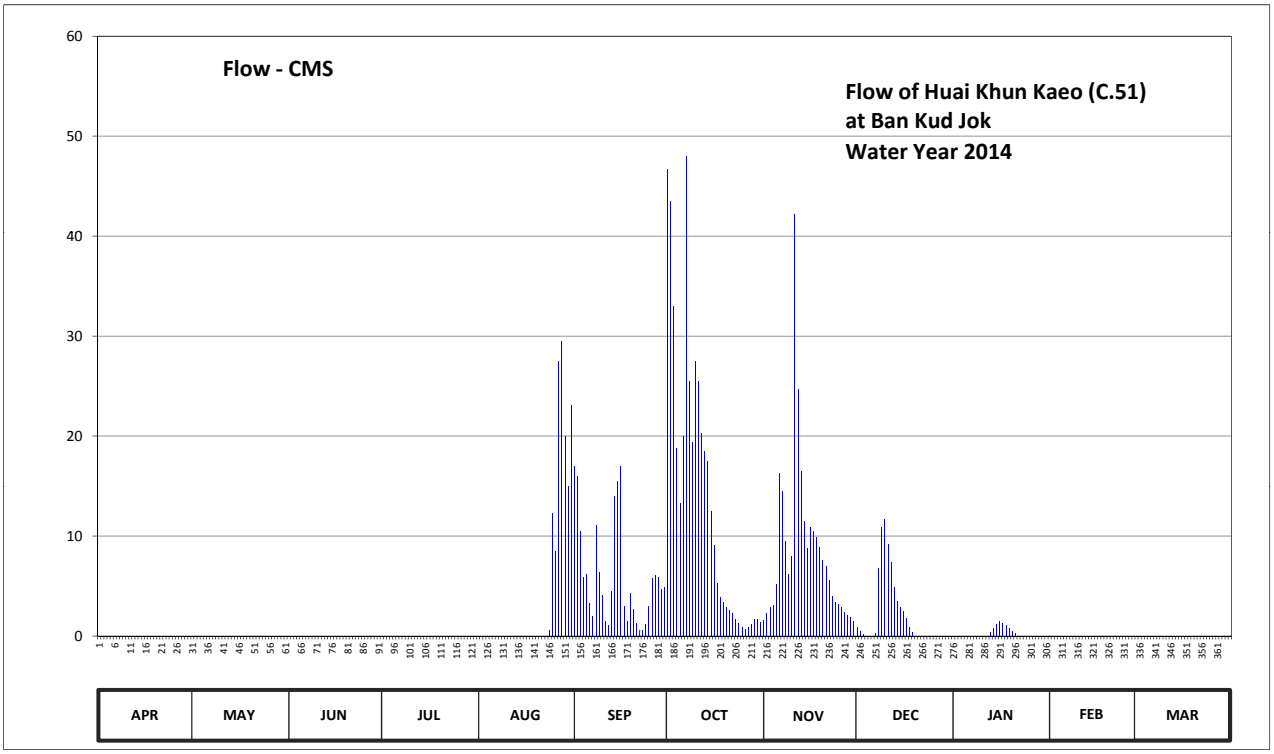
Location : on left bank at the bridge

	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. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the bridge		**Elevation** +37.426 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 5 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.34	29.34	29.34	29.34	29.34	32.14	32.78	31.16	31.09	30.55	30.56	29.34	
2	29.34	29.34	29.34	29.34	29.34	32.10	32.73	31.23	31.05	30.57	30.49	29.34	
3	29.34	29.34	29.34	29.34	29.34	31.85	32.55	31.29	31.02	30.60	30.41	29.34	
4	29.34	29.34	29.34	29.34	29.34	31.56	32.21	31.31	30.95	30.65	30.32	29.34	
5	29.34	29.34	29.34	29.34	29.34	31.58	31.99	31.51	30.93	30.67	30.25	29.34	
6	29.34	29.34	29.34	29.34	29.34	31.33	32.25	32.11	30.90	30.71	30.21	29.34	
7	29.34	29.34	29.34	29.34	29.34	31.20	32.80	32.04	31.03	30.78	30.12	29.34	
8	29.34	29.34	29.34	29.34	29.34	31.88	32.40	31.80	31.62	30.83	30.02	29.34	
9	29.34	29.34	29.34	29.34	29.34	31.59	32.23	31.58	31.87	30.87	29.94	29.34	
10	29.34	29.34	29.34	29.34	29.34	31.41	32.44	31.70	31.91	30.90	29.84	29.34	
11	29.34	29.34	29.34	29.34	29.34	31.15	32.40	32.71	31.78	30.95	29.74	29.34	
12	29.34	29.34	29.34	29.34	29.34	31.11	32.26	32.38	31.66	31.00	29.64	29.34	
13	29.34	29.34	29.34	29.34	29.34	31.45	32.20	32.12	31.49	31.04	29.57	29.34	
14	29.34	29.34	29.34	29.34	29.34	32.02	32.16	31.90	31.35	31.08	29.51	29.34	
15	29.34	29.34	29.34	29.34	29.34	32.08	31.95	31.75	31.29	31.12	29.46	29.34	
16	29.34	29.34	29.34	29.34	29.34	32.14	31.77	31.87	31.25	31.15	29.39	29.34	
17	29.34	29.34	29.34	29.34	29.34	31.30	31.52	31.85	31.18	31.13	29.34	29.34	
18	29.34	29.34	29.34	29.34	29.34	31.15	31.39	31.82	31.09	31.11	29.30	29.34	
19	29.34	29.34	29.34	29.34	29.34	31.43	31.34	31.76	31.04	31.08	29.26	29.34	
20	29.34	29.34	29.34	29.34	29.34	31.27	31.29	31.67	30.98	31.05	29.49	29.34	
21	29.34	29.34	29.34	29.34	29.34	31.13	31.26	31.63	30.89	31.03	29.49	29.34	
22	29.34	29.34	29.34	29.34	29.34	31.06	31.23	31.54	30.84	31.00	29.49	29.34	
23	29.34	29.34	29.34	29.34	29.93	31.06	31.17	31.40	30.79	30.96	29.49	29.34	
24	29.34	29.34	29.34	29.34	31.06	31.12	31.13	31.34	30.76	30.91	29.49	29.34	
25	29.34	29.34	29.34	29.34	31.94	31.30	31.09	31.32	30.72	30.88	29.49	29.34	
26	29.34	29.34	29.34	29.34	31.73	31.55	31.07	31.29	30.67	30.84	29.49	29.34	
27	29.34	29.34	29.34	29.34	32.44	31.57	31.09	31.24	30.63	30.79	29.49	29.34	
28	29.34	29.34	29.34	29.34	32.48	31.56	31.12	31.21	30.59	30.75	29.49	29.34	
29	14.67	29.34	14.67	29.34	32.25	31.47	31.17	31.19	30.58	30.72		14.67	
30	29.34	14.67	29.34	14.67	32.06	31.49	31.17	31.15	30.58	30.69		29.34	
31		29.34		29.34	32.34		31.14		30.56	30.66		29.34	
Mean	28.85	28.87	28.85	28.87	30.06	31.50	31.78	31.63	31.07	30.87	29.74	28.87	
Max	29.34	29.34	29.34	29.34	32.48	32.14	32.80	32.71	31.91	31.15	30.56	29.34	32.80
Min	14.67	14.67	14.67	14.67	29.34	31.06	31.07	31.15	30.56	30.55	29.26	14.67	14.67

Annual Max Momentary Gage Height	32.83	m. (MSL.) ,	at 06.00 Hours , on Oct 7 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	29.49	m. (MSL.)
Left Bank Elevation	37.41	m. (MSL.) ,			
Right Bank Elevation	37.35	m. (MSL.) ,	Drainage Area	1059	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	17.00	46.70	1.60	0.90	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	16.00	43.45	2.30	0.50	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	10.50	33.00	2.90	0.20	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	5.90	18.80	3.10	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	6.20	13.30	5.15	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	3.30	20.00	16.25	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	2.00	48.00	14.50	0.30	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	11.10	25.50	9.50	6.80	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	6.35	19.40	6.20	10.90	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	4.10	27.50	8.00	11.70	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	1.50	25.50	42.15	9.20	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	1.10	20.30	24.70	7.40	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	4.50	18.50	16.50	4.90	0.40	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	14.00	17.50	11.50	3.50	0.80	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	15.50	12.50	8.75	2.90	1.20	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	17.00	9.05	10.90	2.50	1.50	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	3.00	5.30	10.50	1.80	1.30	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	1.50	3.90	9.90	0.90	1.10	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	4.30	3.40	8.90	0.40	0.80	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	2.70	2.90	7.55	0.00	0.50	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	1.30	2.60	6.95	0.00	0.30	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.60	2.30	5.60	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.60	1.70	4.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.60	1.20	1.30	3.40	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	12.30	3.00	0.90	3.20	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	8.45	5.75	0.70	2.90	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	27.50	6.05	0.90	2.40	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	29.50	5.90	1.20	2.10	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	20.00	4.70	1.70	1.90	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	15.00	4.90	1.70	1.50	0.00	0.00		0.00		
31		0.00		0.00	23.10		1.40		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	136.45	181.55	430.90	254.80	64.80	7.90	0.00	0.00	1076.40	CMSDAY
Mean	0.00	0.00	0.00	0.00	4.40	6.05	13.90	8.49	2.09	0.25	0.00	0.00	2.95	CMS
Max	0.00	0.00	0.00	0.00	29.50	17.00	48.00	42.15	11.70	1.50	0.00	0.00	48.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.60	0.70	1.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	11.79	15.69	37.23	22.02	5.60	0.68	0.00	0.00	93.00	MCM

Momentary Peak 50.10 CMS. at 32.83 m. (MSL.) at 06.00 Hours , on Oct 7 , 2014

Runoff Yield 2.78 Liters/Second/Square KM. Momentary Peak Yield 47.309 Liters/Second/Square KM.

WATER YEAR : 2014

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

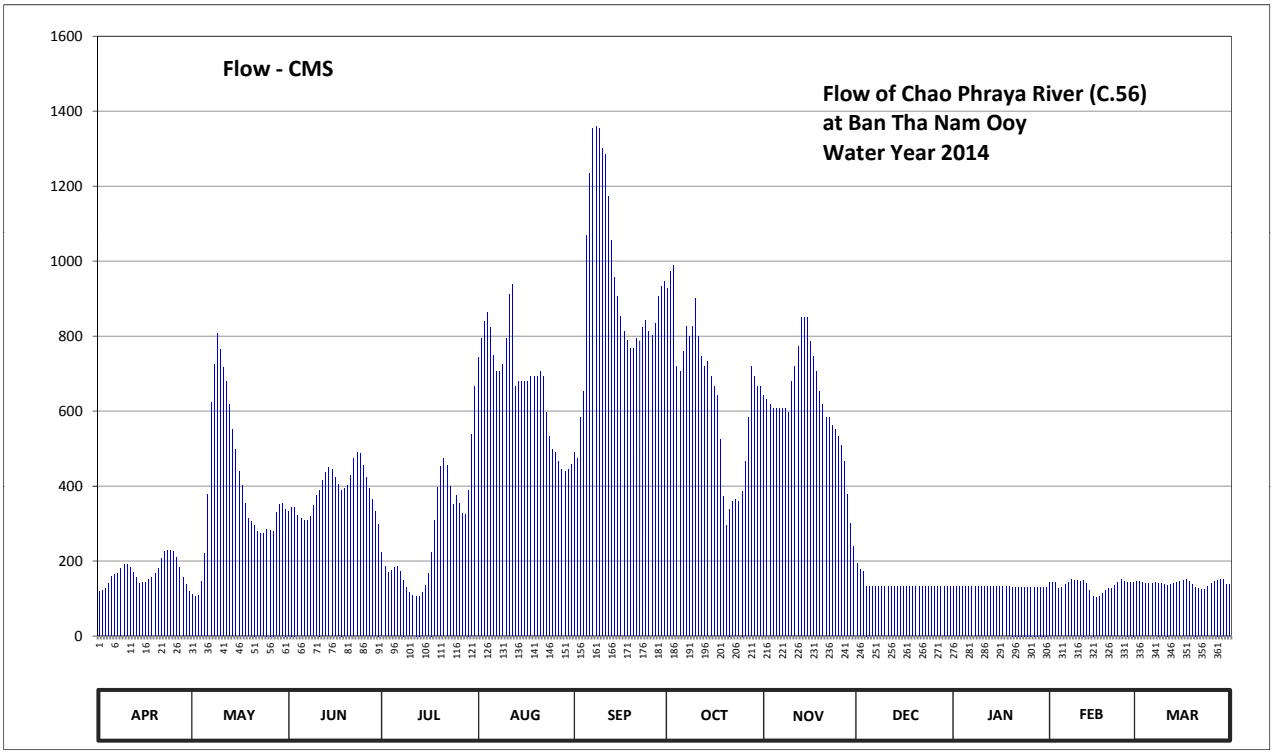
Location : on left bank at Ban Tha Nam Ooy

	Ban Tha Nam Ooy	**Amphoe** Phayuha Khiti		**Changwat** Nakhon Sawan	
Drainge Area	Flood Plain				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+0.000 m. (M.S.L.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank at the bridge			**Elevation**	+21.898 m. (M.S.L.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2008 to date				
Rating Operation					
Period of Rating	2008 to date				
Rated by Flot	-				
Rated by Current Meter	2008 to date				
Stability of Channel Regimes	Fairly stable because of backwater effect.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.35	14.28	15.44	14.99	16.53	16.73	16.89	16.88	15.97	15.43	14.53	14.69	
2	14.37	14.22	15.48	14.81	16.63	16.71	16.97	16.87	15.79	15.43	14.53	14.70	
3	14.40	14.25	15.48	14.71	16.72	16.83	17.00	16.86	15.61	15.43	14.53	14.76	
4	14.51	14.56	15.40	14.74	16.77	16.89	16.94	16.85	15.47	15.43	14.40	14.78	
5	14.64	14.98	15.37	14.79	16.69	17.13	16.93	16.85	15.44	15.43	14.43	14.80	
6	14.67	15.59	15.35	14.81	16.54	17.37	16.97	16.85	15.44	15.43	14.50	14.80	
7	14.69	16.26	15.35	14.73	16.45	17.53	17.01	16.85	15.44	15.43	14.54	14.76	
8	14.77	16.49	15.39	14.58	16.45	17.54	17.00	16.85	15.44	15.43	14.60	14.77	
9	14.84	16.66	15.49	14.43	16.49	17.53	17.01	16.84	15.44	15.43	14.65	14.81	
10	14.84	16.57	15.58	14.31	16.63	17.46	17.04	16.91	15.44	15.43	14.67	14.86	
11	14.79	16.47	15.63	14.25	16.86	17.44	17.00	16.94	15.44	15.43	14.69	14.88	
12	14.71	16.39	15.71	14.24	16.91	17.29	16.96	16.98	15.44	15.43	14.64	14.85	
13	14.62	16.25	15.77	14.24	16.90	17.11	16.94	17.02	15.44	15.43	14.51	14.78	
14	14.51	16.09	15.81	14.31	16.91	16.94	16.95	17.02	15.43	15.43	14.37	14.74	
15	14.53	15.95	15.80	14.48	16.91	16.85	16.92	17.02	15.43	15.43	14.24	14.69	
16	14.53	15.78	15.73	14.69	16.91	16.75	16.90	16.99	15.43	15.43	14.21	14.66	
17	14.60	15.67	15.68	15.00	16.91	16.67	16.88	16.96	15.43	15.43	14.22	14.62	
18	14.63	15.51	15.63	15.35	16.92	16.62	16.77	16.93	15.43	15.43	14.29	14.55	
19	14.69	15.37	15.64	15.65	16.92	16.58	16.54	16.89	15.43	15.43	14.36	14.49	
20	14.77	15.34	15.67	15.82	16.92	16.58	16.34	16.86	15.43	15.42	14.40	14.44	
21	14.92	15.30	15.75	15.88	16.93	16.63	16.46	16.83	15.43	15.42	14.41	14.40	
22	15.01	15.23	15.88	15.83	16.92	16.62	16.51	16.83	15.43	15.42	14.47	14.38	
23	15.02	15.21	15.93	15.66	16.84	16.69	16.52	16.81	15.43	15.42	14.53	14.38	
24	15.02	15.21	15.92	15.50	16.78	16.73	16.51	16.80	15.43	15.42	14.59	14.45	
25	15.01	15.26	15.83	15.58	16.74	16.67	16.57	16.78	15.43	15.42	14.68	14.52	
26	14.93	15.25	15.73	15.51	16.73	16.65	16.70	16.75	15.43	15.42	14.72	14.55	
27	14.80	15.24	15.64	15.42	16.70	16.71	16.83	16.70	15.43	15.42	14.75	14.58	
28	14.62	15.43	15.55	15.41	16.67	16.85	16.94	16.55	15.43	15.42	14.72	14.61	
29	14.49	15.50	15.44	15.63	16.66	16.90	16.92	16.36	15.43	15.42		14.62	
30	14.35	15.51	15.31	16.05	16.67	16.92	16.90	16.18	15.43	15.42		14.86	
31		15.46		16.36	16.69		16.90		15.43	15.42		14.85	
Mean	14.69	15.53	15.61	15.09	16.75	16.93	16.83	16.83	15.47	15.43	14.51	14.67	
Max	15.02	16.66	15.93	16.36	16.93	17.54	17.04	17.02	15.97	15.43	14.75	14.88	17.54
Min	14.35	14.22	15.31	14.24	16.45	16.58	16.34	16.18	15.43	15.42	14.21	14.38	14.21

Annual Max Momentary Gage Height	17.57	m. (MSL.) ,	at 22.00 Hours , on Sep 7 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	7.74	m. (MSL.)
Left Bank Elevation	23.09	m. (MSL.) ,			
Right Bank Elevation	23.55	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	120.00	111.60	333.20	221.80	744.40	490.50	928.60	642.00	194.00	131.50	142.20	145.70		
2	122.40	104.40	344.40	185.80	793.00	473.50	973.20	630.50	177.43	131.50	142.20	145.00		
3	126.00	108.00	344.40	169.60	838.40	584.50	990.00	619.00	173.23	131.50	142.20	142.00		
4	139.40	146.40	322.00	174.40	864.40	653.50	719.00	607.50	133.50	131.50	126.00	141.00		
5	158.40	219.60	314.20	182.40	823.00	1068.00	705.50	607.50	132.00	131.50	129.60	140.00		
6	163.20	377.00	309.00	185.80	749.20	1232.50	759.50	607.50	132.00	131.50	138.00	140.00		
7	166.40	623.20	309.00	172.80	707.00	1352.50	825.00	607.50	132.00	131.50	143.60	142.00		
8	179.20	725.40	319.40	149.20	707.00	1360.00	800.00	607.50	132.00	131.50	152.00	141.50		
9	191.20	808.00	347.20	129.60	725.40	1352.50	825.00	596.00	132.00	131.50	148.50	139.50		
10	191.20	763.60	374.00	115.20	793.00	1300.00	900.00	678.50	132.00	131.50	147.10	137.00		
11	182.40	716.20	389.60	108.00	912.40	1285.00	800.00	719.00	132.00	131.50	145.70	136.00		
12	169.60	679.60	415.40	106.80	939.60	1173.00	746.00	773.00	132.00	131.50	149.20	137.50		
13	155.20	619.00	435.80	106.80	665.00	1056.00	719.00	850.00	132.00	131.50	139.40	141.00		
14	139.40	552.20	449.40	115.20	678.50	956.40	732.50	850.00	131.50	131.50	122.40	143.00		
15	142.20	499.00	446.00	135.60	678.50	907.00	692.00	850.00	131.50	131.50	106.80	145.70		
16	142.20	439.20	422.20	166.40	678.50	854.00	665.00	786.50	131.50	131.50	103.20	147.80		
17	152.00	402.40	405.60	224.00	678.50	813.00	642.00	746.00	131.50	131.50	104.40	150.60		
18	156.80	353.00	389.60	309.00	692.00	788.00	524.50	705.50	131.50	131.50	112.80	145.00		
19	166.40	314.20	392.80	396.00	692.00	768.40	373.00	653.50	131.50	131.50	121.20	136.80		
20	179.20	306.40	402.40	452.80	692.00	768.40	294.00	619.00	131.50	131.00	126.00	130.80		
21	206.40	296.00	429.00	473.20	705.50	793.00	339.00	584.50	131.50	131.00	127.20	126.00		
22	226.20	277.80	473.20	456.20	692.00	788.00	359.50	584.50	131.50	131.00	134.40	123.60		
23	228.40	272.60	491.40	399.20	596.00	823.00	364.00	561.50	131.50	131.00	142.20	123.60		
24	228.40	272.60	487.60	350.00	533.00	843.60	359.50	550.00	131.50	131.00	150.60	132.00		
25	226.20	285.60	456.20	374.00	499.00	813.00	386.50	533.00	131.50	131.00	146.40	140.80		
26	208.60	283.00	422.20	353.00	490.50	803.00	465.00	507.50	131.50	131.00	144.00	145.00		
27	184.00	280.40	392.80	327.60	465.00	833.20	584.50	465.00	131.50	131.00	142.50	149.20		
28	155.20	330.40	365.00	324.80	445.50	907.00	719.00	377.50	131.50	131.00	144.00	151.30		
29	136.80	350.00	333.20	389.60	439.00	934.00	692.00	301.00	131.50	131.00		150.60		
30	120.00	353.00	298.60	537.00	445.50	945.20	665.00	240.00	131.50	131.00		137.00		
31		338.80		666.40	458.50		665.00		131.50	131.00		137.50		
Total	5063.00	12208.60	11614.80	8458.20	20821.30	27719.70	20212.80	18460.50	4233.16	4070.50	3773.80	4344.50	140980.88	CMSDAY
Mean	168.77	393.83	387.16	272.85	671.65	923.99	652.03	615.35	136.55	131.31	134.78	140.15	386.25	CMS
Max	228.40	808.00	491.40	666.40	939.60	1360.00	990.00	850.00	194.00	131.50	152.00	151.30	1360.00	CMS
Min	120.00	104.40	298.60	106.80	439.00	473.50	294.00	240.00	131.50	131.00	103.20	123.60	103.20	CMS
Runoff	437.44	1054.82	1003.52	730.79	1798.96	2394.98	1746.39	1594.99	365.75	351.69	326.06	375.37	12180.75	MCM

Momentary Peak 1382.50 CMS. at 17.57 m. (MSL.) at 22.00 Hours , on Sep 7 , 2014

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

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Khlong Kratong at Ban Nong Bua, Chai Nat (C.58)

Lat 15 - 18 - 30 N Long 100 - 02 - 57 E

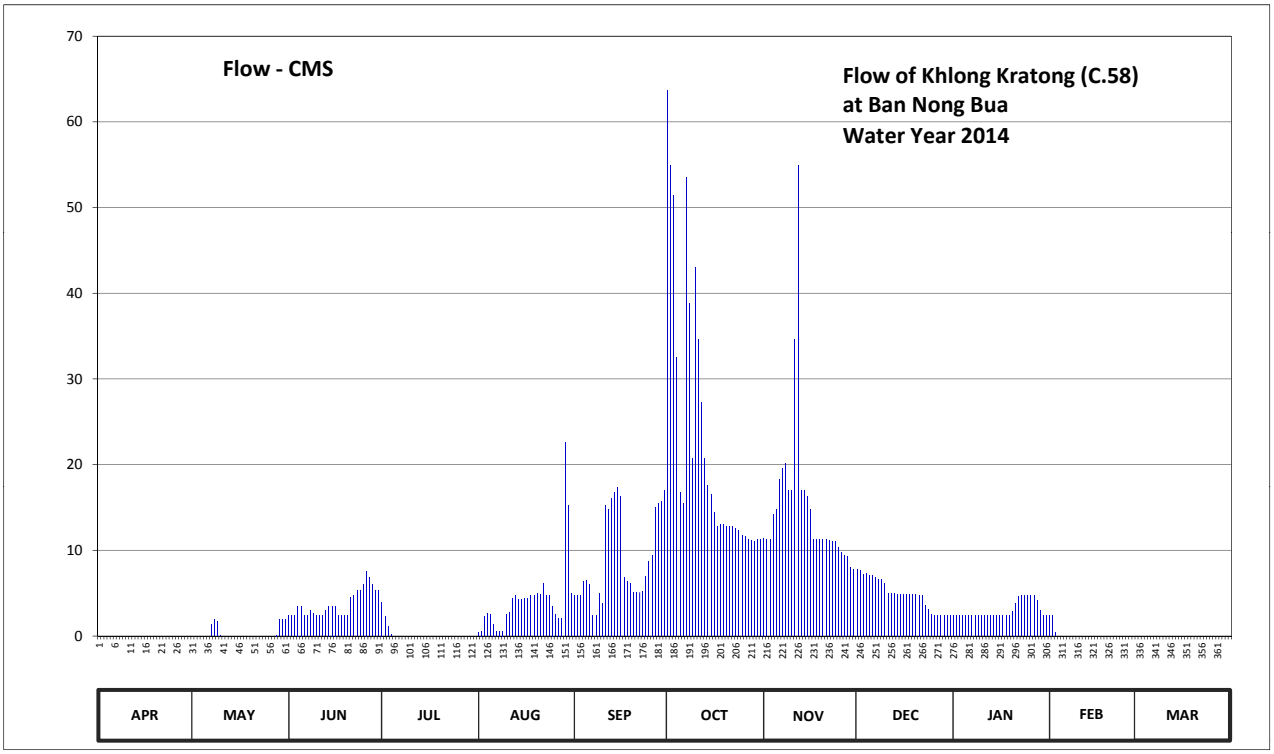
Location : on right bank at Ban Nong Bua.

	Ban Nong Bua	**Amphoe** Wat Sing		**Changwat** Chai Nat	
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 right bank at the bridge			**Elevation**	+19.970 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 Flot	-				
Rated by Current Meter	2008 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.12	15.00	16.30	16.44	16.07	16.54	18.80	17.81	17.49	16.27	16.18	15.22	
2	15.12	15.00	16.30	16.29	16.10	16.53	18.54	17.80	17.48	16.24	16.14	15.22	
3	15.12	15.00	16.30	16.17	16.29	16.60	18.49	17.80	17.43	16.25	16.07	15.24	
4	15.14	15.00	16.40	16.03	16.32	17.27	18.40	17.97	17.44	16.24	15.99	15.25	
5	15.14	15.00	16.40	15.91	16.31	17.29	18.09	18.00	17.41	16.24	15.92	15.27	
6	15.15	15.46	16.30	15.84	16.20	17.20	18.03	18.14	17.41	16.25	15.90	15.27	
7	15.15	16.19	16.30	15.77	16.09	16.26	18.50	18.18	17.36	16.26	15.85	15.28	
8	15.14	16.25	16.35	15.69	16.10	16.24	18.43	18.20	17.31	16.26	15.80	15.30	
9	15.14	16.23	16.32	15.62	16.10	16.80	18.21	18.10	17.31	16.25	15.74	15.30	
10	15.12	16.01	16.30	15.55	16.31	16.43	18.45	18.10	17.22	16.25	15.69	15.32	
11	15.12	16.00	16.30	15.48	16.33	18.02	18.41	18.41	16.80	16.16	15.62	15.32	
12	15.12	16.00	16.30	15.42	16.47	18.00	18.33	18.54	16.79	16.14	15.58	15.29	
13	15.14	15.74	16.35	15.37	16.50	18.06	18.21	18.10	16.76	16.14	15.51	15.27	
14	15.11	15.58	16.40	15.35	16.46	18.09	18.12	18.10	16.71	16.14	15.45	15.23	
15	15.01	15.31	16.40	15.32	16.46	18.11	18.08	18.07	16.70	16.16	15.39	15.20	
16	15.00	15.25	16.40	15.30	16.47	18.07	17.98	18.00	16.65	16.17	15.33	15.11	
17	15.00	15.22	16.30	15.30	16.47	17.37	17.90	17.80	16.69	16.19	15.27	14.83	
18	15.00	15.20	16.30	15.30	16.50	17.28	17.91	17.80	16.67	16.22	15.23	14.83	
19	15.00	15.19	16.30	15.35	16.50	17.24	17.91	17.80	16.64	16.30	15.20	14.83	
20	15.00	15.01	16.30	15.65	16.52	16.90	17.90	17.80	16.65	16.34	15.20	14.83	
21	15.00	15.02	16.48	15.72	16.51	16.92	17.90	17.80	16.60	16.43	15.21	14.83	
22	15.00	15.24	16.50	15.65	16.61	16.90	17.90	17.79	16.51	16.49	15.21	14.83	
23	15.00	15.29	16.55	15.60	16.50	16.93	17.88	17.78	16.41	16.53	15.21	14.83	
24	15.00	15.25	16.55	15.60	16.50	17.40	17.87	17.78	16.36	16.56	15.22	15.24	
25	15.00	15.31	16.60	15.51	16.40	17.59	17.83	17.73	16.31	16.58	15.22	15.30	
26	15.00	15.96	16.70	15.46	16.31	17.66	17.82	17.69	16.27	16.60	15.22	15.32	
27	15.00	16.00	16.65	15.45	16.27	18.01	17.80	17.66	16.29	16.52	15.23	15.36	
28	15.00	16.02	16.60	15.37	16.27	18.03	17.79	17.64	16.29	16.45	15.23	15.38	
29	15.00	16.25	16.55	15.40	18.25	18.04	17.78	17.52	16.30	16.35		15.45	
30	15.00	16.25	16.55	15.47	18.02	18.10	17.80	17.50	16.30	16.28		15.43	
31		16.25		15.87	16.79		17.80		16.30	16.26		15.44	
Mean	15.06	15.56	16.41	15.62	16.48	17.33	18.09	17.91	16.80	16.31	15.53	15.19	
Max	15.15	16.25	16.70	16.44	18.25	18.11	18.80	18.54	17.49	16.60	16.18	15.45	18.80
Min	15.00	15.00	16.30	15.30	16.07	16.24	17.78	17.50	16.27	16.14	15.20	14.83	14.83

Annual Max Momentary Gage Height	18.81	m. (MSL.) ,	at 06.00 Hours , on Oct 1 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	14.82	m. (MSL.)
Left Bank Elevation	20.09	m. (MSL.) ,			
Right Bank Elevation	20.05	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.40	3.98	0.42	4.74	63.70	11.45	7.72	2.40	2.39	0.00		
2	0.00	0.00	2.40	2.30	0.60	4.73	54.86	11.30	7.64	2.39	2.38	0.00		
3	0.00	0.00	2.40	1.16	2.30	4.80	51.40	11.30	7.24	2.40	0.42	0.00		
4	0.00	0.00	3.50	0.18	2.62	6.35	32.50	14.20	7.32	2.39	0.00	0.00		
5	0.00	0.00	3.50	0.00	2.51	6.45	16.78	14.80	7.08	2.39	0.00	0.00		
6	0.00	0.00	2.40	0.00	1.40	6.00	15.46	18.28	7.08	2.40	0.00	0.00		
7	0.00	1.32	2.40	0.00	0.54	2.40	53.50	19.56	6.80	2.40	0.00	0.00		
8	0.00	1.90	2.95	0.00	0.60	2.39	38.80	20.20	6.55	2.40	0.00	0.00		
9	0.00	1.70	2.62	0.00	0.60	5.00	20.68	17.00	6.55	2.40	0.00	0.00		
10	0.00	0.06	2.40	0.00	2.51	3.86	43.00	17.00	6.10	2.40	0.00	0.00		
11	0.00	0.00	2.40	0.00	2.73	15.24	34.60	34.60	5.00	2.39	0.00	0.00		
12	0.00	0.00	2.40	0.00	4.34	14.80	27.25	54.86	4.99	2.38	0.00	0.00		
13	0.00	0.00	2.95	0.00	4.70	16.12	20.68	17.00	4.96	2.38	0.00	0.00		
14	0.00	0.00	3.50	0.00	4.22	16.78	17.64	17.00	4.91	2.38	0.00	0.00		
15	0.00	0.00	3.50	0.00	4.22	17.32	16.56	16.34	4.90	2.39	0.00	0.00		
16	0.00	0.00	3.50	0.00	4.34	16.34	14.40	14.80	4.85	2.39	0.00	0.00		
17	0.00	0.00	2.40	0.00	4.34	6.85	12.80	11.30	4.89	2.39	0.00	0.00		
18	0.00	0.00	2.40	0.00	4.70	6.40	13.00	11.30	4.87	2.39	0.00	0.00		
19	0.00	0.00	2.40	0.00	4.70	6.20	13.00	11.30	4.84	2.40	0.00	0.00		
20	0.00	0.00	2.40	0.00	4.96	5.10	12.80	11.30	4.85	2.84	0.00	0.00		
21	0.00	0.00	4.46	0.00	4.83	5.14	12.80	11.30	4.80	3.86	0.00	0.00		
22	0.00	0.00	4.70	0.00	6.16	5.10	12.80	11.16	4.71	4.58	0.00	0.00		
23	0.00	0.00	5.35	0.00	4.70	5.16	12.50	11.02	3.62	4.73	0.00	0.00		
24	0.00	0.00	5.35	0.00	4.70	7.00	12.35	11.02	3.06	4.76	0.00	0.00		
25	0.00	0.00	6.00	0.00	3.50	8.70	11.75	10.32	2.51	4.78	0.00	0.00		
26	0.00	0.00	7.60	0.00	2.51	9.46	11.60	9.79	2.40	4.80	0.00	0.00		
27	0.00	0.00	6.80	0.00	2.10	15.02	11.30	9.46	2.40	4.72	0.00	0.00		
28	0.00	0.12	6.00	0.00	2.10	15.46	11.16	9.24	2.40	4.10	0.00	0.00		
29	0.00	1.90	5.35	0.00	22.60	15.68	11.02	8.00	2.40	2.95		0.00		
30	0.00	1.90	5.35	0.00	15.24	17.00	11.30	7.80	2.40	2.40		0.00		
31		1.90		0.00	4.99		11.30		2.40	2.40		0.00		
Total	0.00	10.80	111.78	7.62	130.78	271.59	703.29	454.00	152.24	92.38	5.19	0.00	1939.67	CMSDAY
Mean	0.00	0.35	3.73	0.25	4.22	9.05	22.69	15.13	4.91	2.98	0.19	0.00	5.31	CMS
Max	0.00	1.90	7.60	3.98	22.60	17.32	63.70	54.86	7.72	4.80	2.39	0.00	63.70	CMS
Min	0.00	0.00	2.40	0.00	0.42	2.39	11.02	7.80	2.40	2.38	0.00	0.00	0.00	CMS
Runoff	0.00	0.93	9.66	0.66	11.30	23.47	60.76	39.23	13.15	7.98	0.45	0.00	167.59	MCM

Momentary Peak 64.06 CMS. at 18.81 m. (MSL.) at 06.00 Hours , on Oct 1 , 2014

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

WATER YEAR : 2014

LOP BURI RIVER BASIN

Lop Buri River at Ban Pho Kaoton , Sing Buri (L.2B)

Lat 14 - 45 - 37 N Long 100 - 36 - 15 E

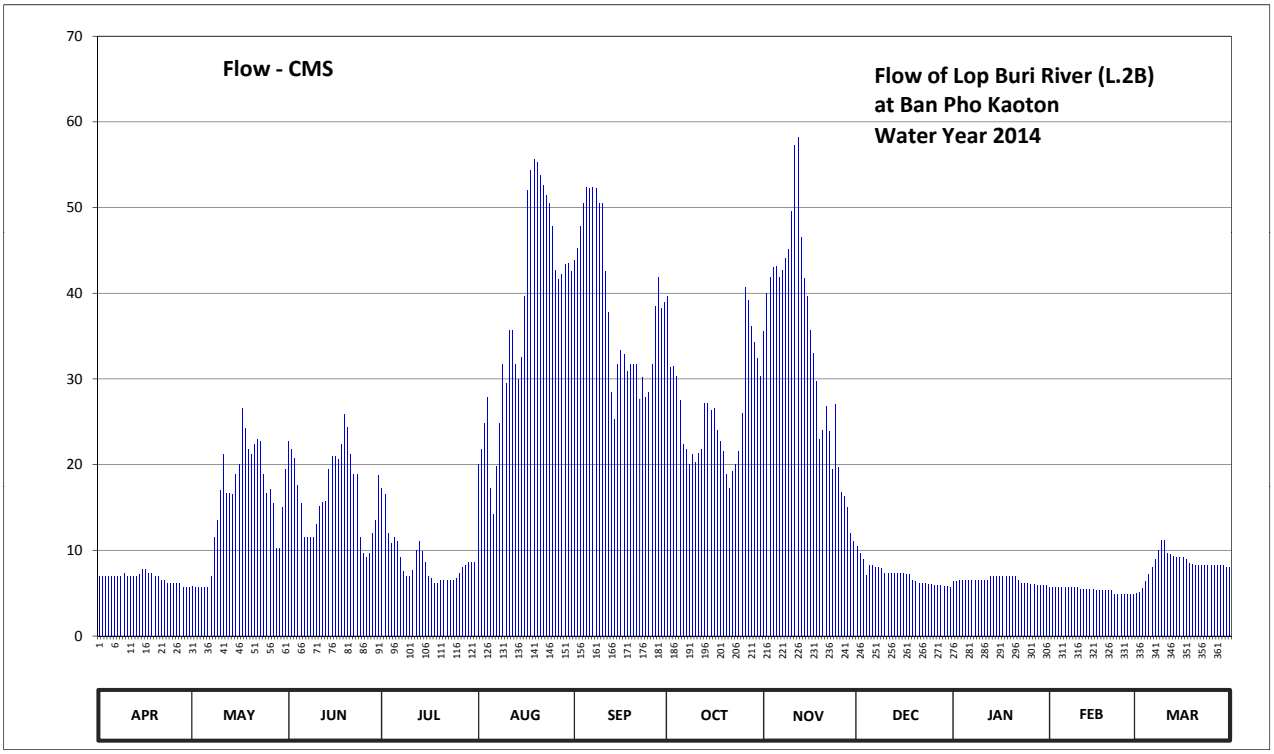
Location : on right bank at Ban Pho Kaoton.

	Ban Pho Kaoton	**Amphoe** Mueang	**Changwat** Sing Buri
Drainge Area	3,307 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage buiding		**Elevation** +5.210 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	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 5 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.36	3.03	2.55	2.80	4.60	4.33	4.04	1.90	1.43	1.35	1.26	
2	1.50	1.35	2.95	2.48	2.95	4.69	3.73	4.35	1.80	1.43	1.35	1.28	
3	1.50	1.35	2.86	2.05	3.20	4.85	3.74	4.48	1.73	1.45	1.35	1.33	
4	1.50	1.35	2.58	1.93	3.45	5.00	3.65	4.55	1.52	1.45	1.35	1.43	
5	1.50	1.35	2.39	2.00	2.55	5.10	3.43	4.56	1.65	1.45	1.35	1.53	
6	1.50	1.35	2.00	1.95	2.27	5.09	3.00	4.48	1.65	1.45	1.35	1.63	
7	1.50	1.50	2.00	1.75	2.78	5.10	2.95	4.53	1.62	1.45	1.35	1.73	
8	1.50	2.00	2.00	1.57	3.20	5.09	2.80	4.62	1.62	1.45	1.35	1.84	
9	1.55	2.20	2.00	1.50	3.75	5.00	2.90	4.68	1.61	1.45	1.34	1.96	
10	1.50	2.53	2.15	1.50	3.58	5.00	2.82	4.95	1.55	1.45	1.34	1.97	
11	1.50	2.90	2.36	1.58	4.05	4.52	2.91	5.35	1.55	1.45	1.32	1.80	
12	1.50	2.50	2.40	1.84	4.05	4.20	2.95	5.40	1.55	1.45	1.32	1.79	
13	1.50	2.50	2.41	1.95	3.75	3.50	3.40	4.77	1.55	1.50	1.32	1.76	
14	1.53	2.48	2.75	1.83	3.62	3.24	3.40	4.47	1.55	1.50	1.32	1.75	
15	1.60	2.70	2.88	1.69	3.82	3.75	3.33	4.33	1.55	1.50	1.32	1.75	
16	1.60	2.80	2.88	1.50	4.33	3.88	3.35	4.05	1.55	1.50	1.30	1.75	
17	1.55	3.35	2.85	1.48	5.08	3.84	3.13	3.85	1.53	1.50	1.30	1.73	
18	1.55	3.15	3.00	1.40	5.20	3.69	3.03	3.60	1.53	1.50	1.30	1.68	
19	1.50	2.95	3.29	1.40	5.27	3.75	2.93	3.05	1.45	1.50	1.30	1.66	
20	1.50	2.90	3.16	1.45	5.25	3.75	2.70	3.13	1.43	1.50	1.30	1.65	
21	1.45	3.00	2.90	1.45	5.17	3.75	2.55	3.37	1.40	1.50	1.30	1.65	
22	1.45	3.05	2.70	1.45	5.11	3.44	2.73	3.12	1.40	1.45	1.25	1.65	
23	1.40	3.03	2.70	1.45	5.05	3.64	2.80	2.75	1.40	1.40	1.25	1.65	
24	1.40	2.70	2.00	1.45	5.00	3.45	2.93	3.39	1.39	1.40	1.24	1.65	
25	1.40	2.50	1.80	1.48	4.85	3.50	3.30	2.77	1.39	1.40	1.24	1.65	
26	1.40	2.54	1.75	1.55	4.53	3.75	4.40	2.51	1.38	1.39	1.24	1.65	
27	1.40	2.39	1.80	1.63	4.46	4.25	4.30	2.46	1.37	1.39	1.24	1.65	
28	1.35	1.87	2.05	1.65	4.50	4.48	4.08	2.35	1.37	1.38	1.24	1.65	
29	1.35	1.87	2.20	1.69	4.57	4.23	3.95	2.05	1.36	1.38		1.65	
30	1.35	2.35	2.69	1.69	4.58	4.28	3.81	1.95	1.36	1.37		1.63	
31		2.75		1.69	4.52		3.65		1.35	1.37		1.63	
Mean	1.48	2.34	2.48	1.70	4.11	4.21	3.32	3.80	1.52	1.44	1.31	1.66	
Max	1.60	3.35	3.29	2.55	5.27	5.10	4.40	5.40	1.90	1.50	1.35	1.97	5.40
Min	1.35	1.35	1.75	1.40	2.27	3.24	2.55	1.95	1.35	1.37	1.24	1.26	1.24

Annual Max Momentary Gage Height	5.59	m. (MSL.) ,	at 06.00 Hours , on Nov 12 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	0.67	m. (MSL.)
Left Bank Elevation	9.82	m. (MSL.) ,			
Right Bank Elevation	9.81	m. (MSL.) ,	Drainage Area	3307	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.90	5.78	22.76	17.25	20.00	43.80	39.65	35.56	10.50	6.34	5.70	4.98		
2	6.90	5.70	21.80	16.48	21.80	45.24	31.39	39.95	9.60	6.34	5.70	5.14		
3	6.90	5.70	20.72	12.00	24.80	47.85	31.52	41.90	8.97	6.50	5.70	5.54		
4	6.90	5.70	17.58	10.80	27.80	50.50	30.35	43.00	7.08	6.50	5.70	6.34		
5	6.90	5.70	15.49	11.50	17.25	52.40	27.56	43.16	8.25	6.50	5.70	7.17		
6	6.90	5.70	11.50	11.00	14.20	52.21	22.40	41.90	8.25	6.50	5.70	8.07		
7	6.90	6.90	11.50	9.15	19.78	52.40	21.80	42.68	7.98	6.50	5.70	8.97		
8	6.90	11.50	11.50	7.53	24.80	52.21	20.00	44.12	7.98	6.50	5.70	9.96		
9	7.35	13.50	11.50	6.90	31.65	50.50	21.20	45.08	7.89	6.50	5.62	11.10		
10	6.90	17.03	13.00	6.90	29.44	50.50	20.24	49.60	7.35	6.50	5.62	11.20		
11	6.90	21.20	15.16	7.62	35.70	42.52	21.32	57.20	7.35	6.50	5.46	9.60		
12	6.90	16.70	15.60	9.96	35.70	37.80	21.80	58.20	7.35	6.50	5.46	9.51		
13	6.90	16.70	15.71	11.00	31.65	28.40	27.20	46.52	7.35	6.90	5.46	9.24		
14	7.17	16.48	19.45	9.87	29.96	25.28	27.20	41.75	7.35	6.90	5.46	9.15		
15	7.80	18.90	20.96	8.61	32.56	31.65	26.36	39.65	7.35	6.90	5.46	9.15		
16	7.80	20.00	20.96	6.90	39.65	33.34	26.60	35.70	7.35	6.90	5.30	9.15		
17	7.35	26.60	20.60	6.74	52.02	32.82	23.96	32.95	7.17	6.90	5.30	8.97		
18	7.35	24.20	22.40	6.10	54.30	30.87	22.76	29.70	7.17	6.90	5.30	8.52		
19	6.90	21.80	25.88	6.10	55.63	31.65	21.56	23.00	6.50	6.90	5.30	8.34		
20	6.90	21.20	24.32	6.50	55.25	31.65	18.90	23.96	6.34	6.90	5.30	8.25		
21	6.50	22.40	21.20	6.50	53.73	31.65	17.25	26.84	6.10	6.90	5.30	8.25		
22	6.50	23.00	18.90	6.50	52.59	27.68	19.23	23.84	6.10	6.50	4.90	8.25		
23	6.10	22.76	18.90	6.50	51.45	30.22	20.00	19.45	6.10	6.10	4.90	8.25		
24	6.10	18.90	11.50	6.50	50.50	27.80	21.56	27.08	6.02	6.10	4.82	8.25		
25	6.10	16.70	9.60	6.74	47.85	28.40	26.00	19.67	6.02	6.10	4.82	8.25		
26	6.10	17.14	9.15	7.35	42.68	31.65	40.70	16.81	5.94	6.02	4.82	8.25		
27	6.10	15.49	9.60	8.07	41.60	38.50	39.20	16.26	5.86	6.02	4.82	8.25		
28	5.70	10.23	12.00	8.25	42.20	41.90	36.12	15.05	5.86	5.94	4.82	8.25		
29	5.70	10.23	13.50	8.61	43.32	38.22	34.30	12.00	5.78	5.94		8.25		
30	5.70	15.05	18.79	8.61	43.48	38.92	32.43	11.00	5.78	5.86		8.07		
31		19.45		8.61	42.52		30.35		5.70	5.86		8.07		
Total	202.02	478.34	501.53	271.15	1165.86	1158.53	820.91	1003.58	220.39	200.22	149.84	258.74	6431.11	CMSDAY
Mean	6.73	15.43	16.72	8.75	37.61	38.62	26.48	33.45	7.11	6.46	5.35	8.35	17.62	CMS
Max	7.80	26.60	25.88	17.25	55.63	52.40	40.70	58.20	10.50	6.90	5.70	11.20	58.20	CMS
Min	5.70	5.70	9.15	6.10	14.20	25.28	17.25	11.00	5.70	5.86	4.82	4.98	4.82	CMS
Runoff	17.46	41.33	43.33	23.43	100.73	100.10	70.93	86.71	19.04	17.30	12.95	22.36	555.65	MCM

Momentary Peak 62.09 CMS. at 5.59 m. (MSL.) at 06.00 Hours , on Nov 12 , 2014

Runoff Yield 5.33 Liters/Second/Square KM. Momentary Peak Yield 18.775 Liters/Second/Square KM.

WATER YEAR : 2014

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

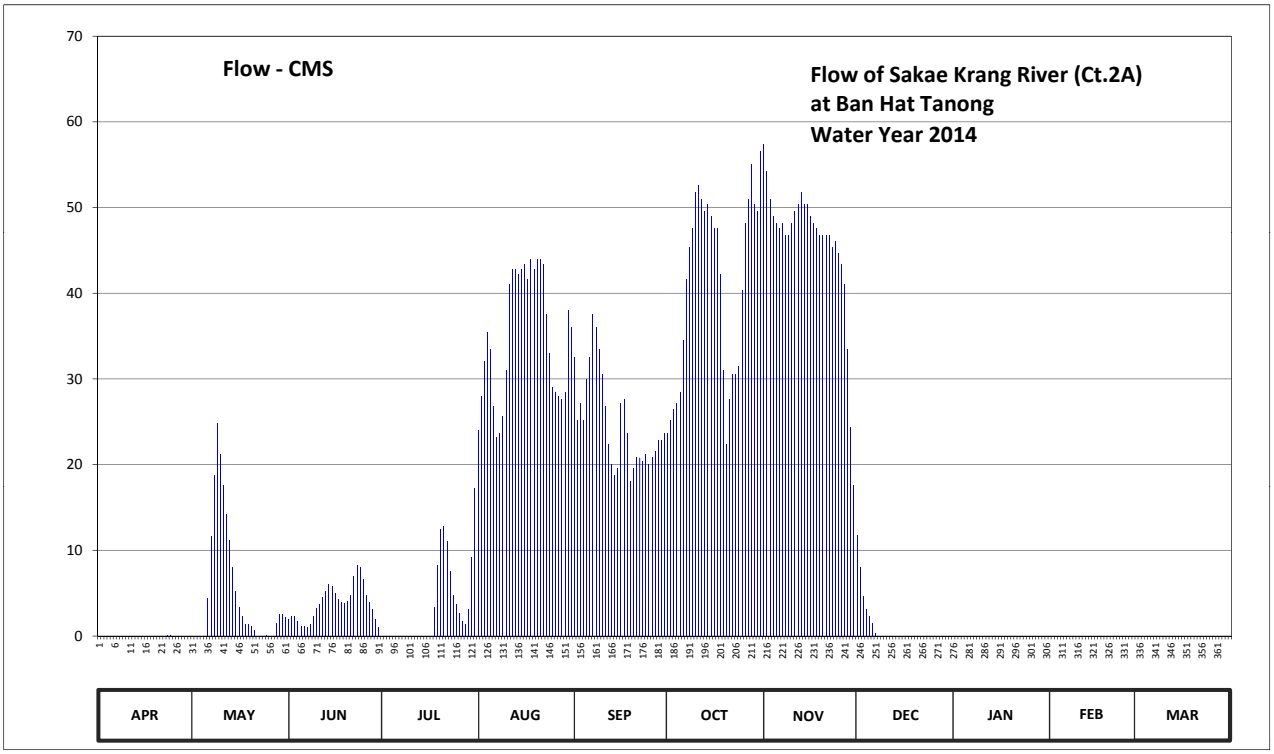
Location : on left bank at Ban Hat Tanong.

	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 Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 1 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.35	14.26	15.20	14.96	16.20	16.39	16.19	16.78	15.84	14.50	14.34	14.57	
2	14.36	14.25	15.23	14.80	16.30	16.23	16.23	16.74	15.65	14.54	14.27	14.61	
3	14.42	14.38	15.23	14.71	16.38	16.28	16.26	16.70	15.46	14.56	14.23	14.64	
4	14.53	14.59	15.17	14.74	16.45	16.23	16.28	16.67	15.31	14.57	14.27	14.66	
5	14.63	14.99	15.11	14.80	16.41	16.34	16.31	16.66	15.23	14.55	14.34	14.68	
6	14.66	15.44	15.11	14.80	16.27	16.39	16.43	16.65	15.15	14.57	14.39	14.66	
7	14.69	15.83	15.10	14.71	16.18	16.49	16.56	16.66	15.03	14.54	14.43	14.65	
8	14.77	16.07	15.13	14.57	16.19	16.46	16.62	16.64	14.93	14.51	14.47	14.66	
9	14.84	16.22	15.23	14.43	16.24	16.41	16.65	16.64	14.83	14.51	14.50	14.70	
10	14.84	16.13	15.32	14.32	16.36	16.35	16.71	16.66	14.75	14.48	14.51	14.75	
11	14.78	16.04	15.37	14.26	16.55	16.27	16.72	16.68	14.71	14.44	14.43	14.77	
12	14.71	15.94	15.45	14.24	16.58	16.16	16.70	16.69	14.66	14.39	14.30	14.71	
13	14.61	15.81	15.51	14.22	16.58	16.10	16.68	16.71	14.60	14.37	14.18	14.66	
14	14.51	15.65	15.55	14.30	16.57	16.07	16.69	16.69	14.56	14.43	14.06	14.61	
15	14.57	15.51	15.54	14.47	16.58	16.09	16.67	16.69	14.53	14.50	14.03	14.56	
16	14.56	15.34	15.50	14.68	16.59	16.28	16.65	16.67	14.53	14.61	14.04	14.54	
17	14.61	15.23	15.43	14.98	16.56	16.29	16.65	16.66	14.53	14.67	14.10	14.48	
18	14.64	15.13	15.39	15.34	16.60	16.19	16.57	16.65	14.48	14.75	14.15	14.42	
19	14.70	15.13	15.38	15.66	16.58	16.05	16.36	16.64	14.45	14.83	14.18	14.36	
20	14.79	15.11	15.40	15.87	16.60	16.09	16.16	16.64	14.44	14.87	14.22	14.31	
21	14.93	15.07	15.47	15.89	16.60	16.12	16.29	16.64	14.39	14.83	14.25	14.27	
22	15.00	15.00	15.60	15.80	16.59	16.12	16.35	16.64	14.34	14.80	14.30	14.26	
23	15.01	14.97	15.66	15.63	16.49	16.11	16.35	16.62	14.30	14.75	14.36	14.29	
24	15.01	14.98	15.65	15.48	16.40	16.13	16.37	16.63	14.26	14.71	14.43	14.34	
25	15.00	15.01	15.58	15.37	16.32	16.10	16.54	16.61	14.20	14.60	14.51	14.39	
26	14.93	15.00	15.48	15.26	16.31	16.12	16.66	16.59	14.22	14.50	14.55	14.41	
27	14.79	15.00	15.39	15.17	16.30	16.14	16.70	16.55	14.24	14.39	14.56	14.45	
28	14.61	15.15	15.31	15.14	16.29	16.17	16.75	16.41	14.27	14.31	14.55	14.53	
29	14.52	15.25	15.20	15.31	16.31	16.17	16.69	16.21	14.29	14.31		14.63	
30	14.39	15.25	15.10	15.71	16.50	16.19	16.68	16.04	14.34	14.34		14.64	
31		15.22		16.03	16.46		16.77		14.43	14.35		14.66	
Mean	14.69	15.26	15.36	15.02	16.43	16.22	16.52	16.62	14.68	14.55	14.32	14.54	
Max	15.01	16.22	15.66	16.03	16.60	16.49	16.77	16.78	15.84	14.87	14.56	14.77	16.78
Min	14.35	14.25	15.10	14.22	16.18	16.05	16.16	16.04	14.20	14.31	14.03	14.26	14.03

Annual Max Momentary Gage Height	16.80	m. (MSL.) ,	at 17.00 Hours , on Oct 31 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	9.06	m. (MSL.)
Left Bank Elevation	21.36	m. (MSL.) ,			
Right Bank Elevation	21.40	m. (MSL.) ,	Drainage Area	3641	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.00	0.00	24.00	32.50	23.60	57.40	11.80	0.00	0.00	0.00		
2	0.00	0.00	2.30	0.00	28.00	25.20	25.20	54.20	8.00	0.00	0.00	0.00		
3	0.00	0.00	2.30	0.00	32.00	27.20	26.40	51.00	4.60	0.00	0.00	0.00		
4	0.00	0.00	1.70	0.00	35.50	25.20	27.20	48.90	3.10	0.00	0.00	0.00		
5	0.00	0.00	1.10	0.00	33.50	30.00	28.50	48.20	2.30	0.00	0.00	0.00		
6	0.00	4.40	1.10	0.00	26.80	32.50	34.50	47.50	1.50	0.00	0.00	0.00		
7	0.00	11.60	1.00	0.00	23.20	37.50	41.60	48.20	0.30	0.00	0.00	0.00		
8	0.00	18.80	1.30	0.00	23.60	36.00	45.40	46.80	0.00	0.00	0.00	0.00		
9	0.00	24.80	2.30	0.00	25.60	33.50	47.50	46.80	0.00	0.00	0.00	0.00		
10	0.00	21.20	3.20	0.00	31.00	30.50	51.80	48.20	0.00	0.00	0.00	0.00		
11	0.00	17.60	3.70	0.00	41.00	26.80	52.60	49.60	0.00	0.00	0.00	0.00		
12	0.00	14.20	4.50	0.00	42.80	22.40	51.00	50.30	0.00	0.00	0.00	0.00		
13	0.00	11.20	5.20	0.00	42.80	20.00	49.60	51.80	0.00	0.00	0.00	0.00		
14	0.00	8.00	6.00	0.00	42.20	18.80	50.30	50.30	0.00	0.00	0.00	0.00		
15	0.00	5.20	5.80	0.00	42.80	19.60	48.90	50.30	0.00	0.00	0.00	0.00		
16	0.00	3.40	5.00	0.00	43.40	27.20	47.50	48.90	0.00	0.00	0.00	0.00		
17	0.00	2.30	4.30	0.00	41.60	27.60	47.50	48.20	0.00	0.00	0.00	0.00		
18	0.00	1.30	3.90	3.40	44.00	23.60	42.20	47.50	0.00	0.00	0.00	0.00		
19	0.00	1.30	3.80	8.20	42.80	18.00	31.00	46.80	0.00	0.00	0.00	0.00		
20	0.00	1.10	4.00	12.40	44.00	19.60	22.40	46.80	0.00	0.00	0.00	0.00		
21	0.00	0.70	4.70	12.80	44.00	20.80	27.60	46.80	0.00	0.00	0.00	0.00		
22	0.00	0.00	7.00	11.00	43.40	20.80	30.50	46.80	0.00	0.00	0.00	0.00		
23	0.10	0.00	8.20	7.60	37.50	20.40	30.50	45.40	0.00	0.00	0.00	0.00		
24	0.10	0.00	8.00	4.80	33.00	21.20	31.50	46.10	0.00	0.00	0.00	0.00		
25	0.00	0.10	6.60	3.70	29.00	20.00	40.40	44.70	0.00	0.00	0.00	0.00		
26	0.00	0.00	4.80	2.60	28.50	20.80	48.20	43.40	0.00	0.00	0.00	0.00		
27	0.00	0.00	3.90	1.70	28.00	21.60	51.00	41.00	0.00	0.00	0.00	0.00		
28	0.00	1.50	3.10	1.40	27.60	22.80	55.00	33.50	0.00	0.00	0.00	0.00		
29	0.00	2.50	2.00	3.10	28.50	22.80	50.30	24.40	0.00	0.00		0.00		
30	0.00	2.50	1.00	9.20	38.00	23.60	49.60	17.60	0.00	0.00		0.00		
31		2.20		17.20	36.00		56.60		0.00	0.00		0.00		
Total	0.20	155.90	113.80	99.10	1084.10	748.50	1265.90	1377.40	31.60	0.00	0.00	0.00	4876.50	CMSDAY
Mean	0.01	5.03	3.79	3.20	34.97	24.95	40.84	45.91	1.02	0.00	0.00	0.00	13.36	CMS
Max	0.10	24.80	8.20	17.20	44.00	37.50	56.60	57.40	11.80	0.00	0.00	0.00	57.40	CMS
Min	0.00	0.00	1.00	0.00	23.20	18.00	22.40	17.60	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.02	13.47	9.83	8.56	93.67	64.67	109.37	119.01	2.73	0.00	0.00	0.00	421.33	MCM

Momentary Peak 59.00 CMS. at 16.80 m. (MSL.) at 17.00 Hours , on Oct 31 , 2014

Runoff Yield 3.67 Liters/Second/Square KM. Momentary Peak Yield 16.204 Liters/Second/Square KM.

WATER YEAR : 2014

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

Lat 15 - 46 - 58 N Long 99 - 40 - 57 E

Location : on left bank at Ban San Chao Kai To.

	Ban San Chao Kai To	**Amphoe** Lat Yao	**Changwat** Nakhon Sawan
Drainge Area	1,386 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+65.880 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the bridge		**Elevation** +72.250 m. (MSL.)
Gage Reading Frequency	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 Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

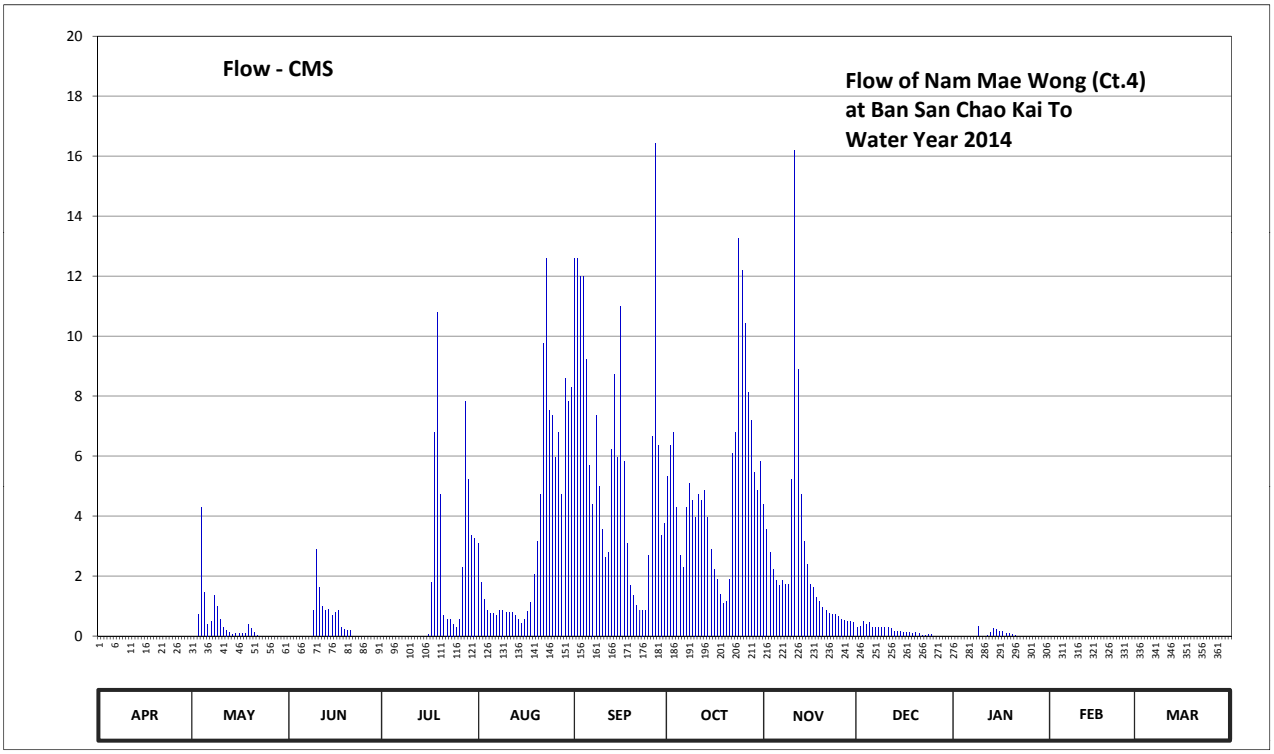
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.00	65.96	65.91	65.92	66.84	67.50	67.05	66.97	66.29	66.07	65.85	65.76	
2	66.00	66.01	65.91	65.93	66.68	67.50	67.13	66.89	66.30	66.10	65.84	65.72	
3	65.98	66.44	65.91	65.92	66.57	67.47	67.16	66.81	66.36	66.06	65.87	65.63	
4	65.96	66.96	65.91	65.93	66.49	67.47	66.96	66.74	66.33	66.05	65.88	65.63	
5	65.99	66.62	65.91	65.92	66.45	67.32	66.80	66.69	66.35	66.05	65.90	65.62	
6	66.01	66.33	65.92	65.92	66.45	67.08	66.75	66.66	66.27	66.02	65.91	65.62	
7	66.00	66.36	65.91	65.91	66.43	66.97	66.96	66.69	66.28	65.99	65.88	65.61	
8	65.99	66.60	66.04	65.91	66.48	67.20	67.03	66.67	66.28	65.97	65.85	65.61	
9	65.97	66.52	66.48	65.91	66.49	67.02	66.98	66.67	66.29	66.30	65.84	65.61	
10	65.96	66.38	66.82	65.91	66.46	66.89	66.93	67.04	66.28	66.09	65.83	65.60	
11	65.95	66.29	66.65	65.91	66.46	66.79	67.00	67.66	66.27	66.09	65.81	65.60	
12	65.95	66.23	66.52	65.90	66.46	66.81	66.98	67.30	66.26	66.12	65.79	65.59	
13	65.95	66.17	66.48	65.91	66.43	67.12	67.01	67.00	66.21	66.18	65.79	65.59	
14	65.97	66.14	66.50	65.94	66.38	67.29	66.93	66.85	66.20	66.26	65.79	65.59	
15	66.03	66.15	66.43	65.98	66.34	67.10	66.82	66.76	66.21	66.24	65.78	65.58	
16	66.00	66.15	66.46	66.14	66.39	67.42	66.74	66.67	66.18	66.21	65.78	65.58	
17	66.00	66.15	66.48	66.68	66.47	67.09	66.70	66.65	66.18	66.19	65.79	65.59	
18	65.99	66.15	66.28	67.16	66.55	66.84	66.61	66.59	66.17	66.16	65.79	65.61	
19	65.98	66.32	66.24	67.41	66.72	66.66	66.54	66.56	66.15	66.15	65.77	65.58	
20	65.96	66.25	66.23	67.00	66.85	66.60	66.56	66.51	66.17	66.13	65.78	65.58	
21	65.95	66.17	66.22	66.43	67.00	66.53	66.70	66.48	66.16	66.11	65.77	65.61	
22	65.95	66.11	66.07	66.39	67.35	66.49	67.11	66.45	66.12	66.08	65.77	65.67	
23	65.94	66.04	65.96	66.39	67.50	66.49	67.16	66.44	66.11	66.06	65.80	65.67	
24	65.94	65.98	65.91	66.33	67.21	66.48	67.53	66.44	66.13	66.05	65.78	65.66	
25	65.94	65.94	65.91	66.29	67.20	66.80	67.48	66.42	66.13	66.02	65.77	65.66	
26	65.94	65.93	65.91	66.39	67.10	67.15	67.39	66.39	66.10	66.00	65.77	65.80	
27	65.93	65.93	65.91	66.75	67.16	67.67	67.25	66.37	66.07	65.97	65.76	66.03	
28	65.93	65.94	65.91	67.23	67.00	67.13	67.19	66.36	66.05	65.92	65.76	66.02	
29	65.95	65.92	65.91	67.04	67.28	66.87	67.06	66.36	66.08	65.88		66.01	
30	65.95	65.92	65.91	66.87	67.23	66.91	67.01	66.35	66.06	65.88		65.98	
31		65.91		66.86	67.26		67.09		66.06	65.90		65.98	
Mean	65.97	66.19	66.15	66.33	66.76	67.02	66.99	66.68	66.20	66.07	65.81	65.69	
Max	66.03	66.96	66.82	67.41	67.50	67.67	67.53	67.66	66.36	66.30	65.91	66.03	67.67
Min	65.93	65.91	65.91	65.90	66.34	66.48	66.54	66.35	66.05	65.88	65.76	65.58	65.58

Annual Max Momentary Gage Height 67.78 m. (MSL.) , at 10.00 Hours , on Sep 27 , 2014

Zero Gage at Bottom Elevation 65.88 m. (MSL.) , River Bed 65.29 m. (MSL.)

Left Bank Elevation 72.18 m. (MSL.) ,

Right Bank Elevation 71.96 m. (MSL.) , Drainage Area 1386 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	3.08	12.60	5.34	4.40	0.30	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	1.79	12.60	6.37	3.55	0.32	0.00	0.00	0.00		
3	0.00	0.72	0.00	0.00	1.21	12.00	6.79	2.79	0.49	0.00	0.00	0.00		
4	0.00	4.29	0.00	0.00	0.87	12.00	4.29	2.22	0.40	0.00	0.00	0.00		
5	0.00	1.45	0.00	0.00	0.75	9.24	2.70	1.84	0.46	0.00	0.00	0.00		
6	0.00	0.40	0.00	0.00	0.75	5.70	2.30	1.68	0.27	0.00	0.00	0.00		
7	0.00	0.49	0.00	0.00	0.69	4.40	4.29	1.84	0.29	0.00	0.00	0.00		
8	0.00	1.34	0.00	0.00	0.84	7.35	5.09	1.73	0.29	0.00	0.00	0.00		
9	0.00	0.99	0.84	0.00	0.87	4.97	4.51	1.73	0.30	0.32	0.00	0.00		
10	0.00	0.54	2.89	0.00	0.78	3.55	3.97	5.21	0.29	0.00	0.00	0.00		
11	0.00	0.30	1.62	0.00	0.78	2.62	4.72	16.18	0.27	0.00	0.00	0.00		
12	0.00	0.20	0.99	0.00	0.78	2.79	4.51	8.90	0.25	0.03	0.00	0.00		
13	0.00	0.11	0.84	0.00	0.69	6.23	4.84	4.72	0.17	0.12	0.00	0.00		
14	0.00	0.06	0.90	0.00	0.54	8.74	3.97	3.17	0.15	0.25	0.00	0.00		
15	0.00	0.08	0.69	0.00	0.43	5.95	2.89	2.38	0.17	0.22	0.00	0.00		
16	0.00	0.08	0.78	0.06	0.57	11.00	2.22	1.73	0.12	0.17	0.00	0.00		
17	0.00	0.08	0.84	1.79	0.81	5.83	1.90	1.62	0.12	0.14	0.00	0.00		
18	0.00	0.08	0.29	6.79	1.12	3.08	1.40	1.30	0.11	0.09	0.00	0.00		
19	0.00	0.38	0.22	10.80	2.06	1.68	1.08	1.16	0.08	0.08	0.00	0.00		
20	0.00	0.24	0.20	4.72	3.17	1.34	1.16	0.94	0.11	0.04	0.00	0.00		
21	0.00	0.11	0.18	0.69	4.72	1.03	1.90	0.84	0.09	0.02	0.00	0.00		
22	0.00	0.02	0.00	0.57	9.75	0.87	6.09	0.75	0.03	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.57	12.60	0.87	6.79	0.72	0.02	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.40	7.51	0.84	13.26	0.72	0.04	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.30	7.35	2.70	12.20	0.66	0.04	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.57	5.95	6.65	10.43	0.57	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	2.30	6.79	16.41	8.13	0.52	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	7.82	4.72	6.37	7.21	0.49	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	5.21	8.59	3.37	5.46	0.49	0.00	0.00		0.00		
30	0.00	0.00	0.00	3.37	7.82	3.76	4.84	0.46	0.00	0.00		0.00		
31		0.00		3.27	8.28		5.83		0.00	0.00		0.00		
Total	0.00	11.96	11.28	49.23	106.66	176.54	156.48	75.31	5.18	1.48	0.00	0.00	594.12	CMSDAY
Mean	0.00	0.39	0.38	1.59	3.44	5.88	5.05	2.51	0.17	0.05	0.00	0.00	1.63	CMS
Max	0.00	4.29	2.89	10.80	12.60	16.41	13.26	16.18	0.49	0.32	0.00	0.00	16.41	CMS
Min	0.00	0.00	0.00	0.00	0.43	0.84	1.08	0.46	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	1.03	0.98	4.25	9.22	15.25	13.52	6.51	0.45	0.13	0.00	0.00	51.33	MCM

Momentary Peak 19.06 CMS. at 67.78 m. (MSL.) at 10.00 Hours , on Sep 27 , 2014

Runoff Yield 1.17 Liters/Second/Square KM. Momentary Peak Yield 13.752 Liters/Second/Square KM.

WATER YEAR : 2014

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

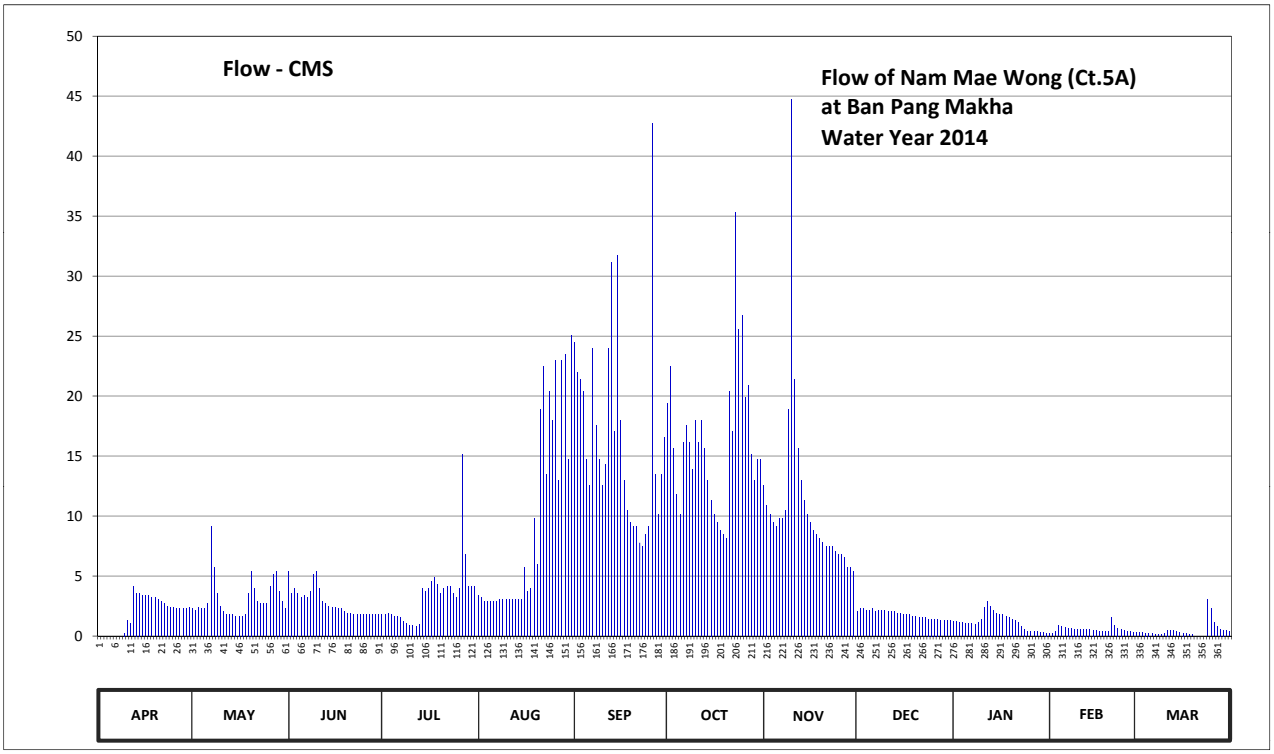
Location : on left bank behind Wat Pang Makha.

	Ban Pang Makha	**Amphoe**	Khanu Woralaksaburi	**Changwat**	Kamphaeng Phet
Drainge Area	977 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	In front of the station office			**Elevation**	+108.090 m. (MSL.)
Gage Reading Frequency	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 Flot	-				
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 18 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.18	103.78	103.94	103.74	103.85	104.40	104.30	104.15	103.76	103.69	103.54	103.56	
2	103.18	103.77	103.86	103.74	103.84	104.35	104.36	104.11	103.78	103.69	103.54	103.56	
3	103.18	103.79	103.88	103.75	103.82	104.34	104.22	104.09	103.78	103.68	103.57	103.56	
4	103.18	103.78	103.86	103.74	103.82	104.32	104.13	104.07	103.77	103.68	103.65	103.55	
5	103.18	103.78	103.84	103.73	103.82	104.20	104.09	104.06	103.77	103.67	103.64	103.55	
6	103.18	103.81	103.85	103.73	103.82	104.15	104.23	104.08	103.78	103.67	103.63	103.54	
7	103.18	104.06	103.84	103.72	103.82	104.39	104.26	104.08	103.76	103.67	103.62	103.53	
8	103.20	103.95	103.87	103.69	103.83	104.26	104.23	104.10	103.77	103.66	103.62	103.53	
9	103.55	103.86	103.93	103.67	103.83	104.20	104.18	104.29	103.77	103.68	103.61	103.52	
10	103.70	103.80	103.94	103.65	103.83	104.15	104.27	104.74	103.77	103.71	103.61	103.54	
11	103.67	103.76	103.88	103.65	103.83	104.19	104.23	104.34	103.76	103.79	103.61	103.60	
12	103.89	103.74	103.82	103.64	103.83	104.39	104.27	104.22	103.76	103.82	103.61	103.59	
13	103.86	103.74	103.81	103.66	103.83	104.52	104.22	104.16	103.76	103.80	103.61	103.59	
14	103.86	103.74	103.80	103.88	103.83	104.25	104.16	104.12	103.75	103.77	103.61	103.57	
15	103.85	103.73	103.79	103.87	103.83	104.53	104.12	104.09	103.75	103.75	103.60	103.56	
16	103.85	103.73	103.79	103.88	103.95	104.27	104.09	104.07	103.74	103.74	103.59	103.55	
17	103.85	103.73	103.78	103.91	103.87	104.16	104.07	104.05	103.74	103.74	103.57	103.54	
18	103.84	103.74	103.78	103.92	103.88	104.10	104.05	104.04	103.74	103.73	103.57	103.53	
19	103.84	103.86	103.76	103.90	104.08	104.07	104.04	104.03	103.73	103.72	103.57	103.52	
20	103.83	103.94	103.75	103.86	103.96	104.06	104.03	104.02	103.73	103.71	103.58	103.50	
21	103.82	103.88	103.75	103.88	104.29	104.06	104.32	104.01	103.72	103.70	103.72	103.47	
22	103.81	103.82	103.74	103.89	104.36	104.02	104.25	104.01	103.72	103.68	103.65	103.44	
23	103.80	103.81	103.74	103.89	104.17	104.01	104.59	104.01	103.72	103.64	103.62	103.47	
24	103.79	103.81	103.74	103.86	104.32	104.04	104.42	104.00	103.71	103.61	103.61	103.83	
25	103.79	103.81	103.74	103.84	104.27	104.06	104.44	103.99	103.71	103.57	103.59	103.78	
26	103.78	103.89	103.74	103.88	104.37	104.71	104.31	103.99	103.71	103.57	103.58	103.68	
27	103.78	103.93	103.74	104.21	104.16	104.17	104.33	103.98	103.71	103.57	103.57	103.64	
28	103.78	103.94	103.74	103.99	104.37	104.09	104.21	103.95	103.70	103.57	103.56	103.61	
29	103.78	103.87	103.74	103.89	104.38	104.17	104.16	103.95	103.70	103.56		103.60	
30	103.79	103.82	103.74	103.89	104.20	104.24	104.20	103.94	103.70	103.56		103.59	
31		103.78		103.89	104.41		104.20		103.70	103.55		103.58	
Mean	103.63	103.82	103.81	103.82	104.02	104.23	104.23	104.09	103.74	103.68	103.60	103.57	
Max	103.89	104.06	103.94	104.21	104.41	104.71	104.59	104.74	103.78	103.82	103.72	103.83	104.74
Min	103.18	103.73	103.74	103.64	103.82	104.01	104.03	103.94	103.70	103.55	103.54	103.44	103.18

Annual Max Momentary Gage Height	105.08	m. (MSL.) ,	at 04.00 Hours , on Sep 26 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	102.36	m. (MSL.)
Left Bank Elevation	110.71	m. (MSL.) ,			
Right Bank Elevation	110.72	m. (MSL.) ,	Drainage Area	977	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.26	5.42	1.78	3.40	24.50	19.40	12.60	2.02	1.22	0.20	0.30		
2	0.00	2.14	3.58	1.78	3.22	21.95	22.46	10.92	2.26	1.22	0.20	0.30		
3	0.00	2.38	3.94	1.90	2.86	21.44	15.64	10.16	2.26	1.14	0.35	0.30		
4	0.00	2.26	3.58	1.78	2.86	20.42	11.76	9.48	2.14	1.14	0.90	0.25		
5	0.00	2.26	3.22	1.66	2.86	14.70	10.16	9.14	2.14	1.06	0.82	0.25		
6	0.00	2.68	3.40	1.66	2.86	12.60	16.11	9.82	2.26	1.06	0.74	0.20		
7	0.00	9.14	3.22	1.54	2.86	23.99	17.52	9.82	2.02	1.06	0.66	0.15		
8	0.00	5.70	3.76	1.22	3.04	17.52	16.11	10.50	2.14	0.98	0.66	0.15		
9	0.25	3.58	5.14	1.06	3.04	14.70	13.86	18.93	2.14	1.14	0.58	0.10		
10	1.30	2.50	5.42	0.90	3.04	12.60	17.99	44.70	2.14	1.42	0.58	0.20		
11	1.06	2.02	3.94	0.90	3.04	14.28	16.11	21.44	2.02	2.38	0.58	0.50		
12	4.12	1.78	2.86	0.82	3.04	23.99	17.99	15.64	2.02	2.86	0.58	0.45		
13	3.58	1.78	2.68	0.98	3.04	31.18	15.64	13.02	2.02	2.50	0.58	0.45		
14	3.58	1.78	2.50	3.94	3.04	17.05	13.02	11.34	1.90	2.14	0.58	0.35		
15	3.40	1.66	2.38	3.76	3.04	31.77	11.34	10.16	1.90	1.90	0.50	0.30		
16	3.40	1.66	2.38	3.94	5.70	17.99	10.16	9.48	1.78	1.78	0.45	0.25		
17	3.40	1.66	2.26	4.58	3.76	13.02	9.48	8.80	1.78	1.78	0.35	0.20		
18	3.22	1.78	2.26	4.86	3.94	10.50	8.80	8.46	1.78	1.66	0.35	0.15		
19	3.22	3.58	2.02	4.30	9.82	9.48	8.46	8.12	1.66	1.54	0.35	0.10		
20	3.04	5.42	1.90	3.58	5.98	9.14	8.12	7.78	1.66	1.42	0.40	0.00		
21	2.86	3.94	1.90	3.94	18.93	9.14	20.42	7.44	1.54	1.30	1.54	0.00		
22	2.68	2.86	1.78	4.12	22.46	7.78	17.05	7.44	1.54	1.14	0.90	0.00		
23	2.50	2.68	1.78	4.12	13.44	7.44	35.31	7.44	1.54	0.82	0.66	0.00		
24	2.38	2.68	1.78	3.58	20.42	8.46	25.60	7.10	1.42	0.58	0.58	3.04		
25	2.38	2.68	1.78	3.22	17.99	9.14	26.70	6.82	1.42	0.35	0.45	2.26		
26	2.26	4.12	1.78	3.94	22.97	42.75	19.91	6.82	1.42	0.35	0.40	1.14		
27	2.26	5.14	1.78	15.17	13.02	13.44	20.93	6.54	1.42	0.35	0.35	0.82		
28	2.26	5.42	1.78	6.82	22.97	10.16	15.17	5.70	1.30	0.35	0.30	0.58		
29	2.26	3.76	1.78	4.12	23.48	13.44	13.02	5.70	1.30	0.30		0.50		
30	2.38	2.86	1.78	4.12	14.70	16.58	14.70	5.42	1.30	0.30		0.45		
31		2.26		4.12	25.05		14.70		1.30	0.25		0.40		
Total	57.79	96.42	83.78	104.21	289.87	501.15	503.64	326.73	55.54	37.49	15.59	14.14	2086.35	CMSDAY
Mean	1.93	3.11	2.79	3.36	9.35	16.70	16.25	10.89	1.79	1.21	0.56	0.46	5.72	CMS
Max	4.12	9.14	5.42	15.17	25.05	42.75	35.31	44.70	2.26	2.86	1.54	3.04	44.70	CMS
Min	0.00	1.66	1.78	0.82	2.86	7.44	8.12	5.42	1.30	0.25	0.20	0.00	0.00	CMS
Runoff	4.99	8.33	7.24	9.00	25.05	43.30	43.51	28.23	4.80	3.24	1.35	1.22	180.26	MCM

Momentary Peak 69.40 CMS. at 105.08 m. (MSL.) at 04.00 Hours , on Sep 26 , 2014

Runoff Yield 5.85 Liters/Second/Square KM. Momentary Peak Yield 71.034 Liters/Second/Square KM.

WATER YEAR : 2014

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

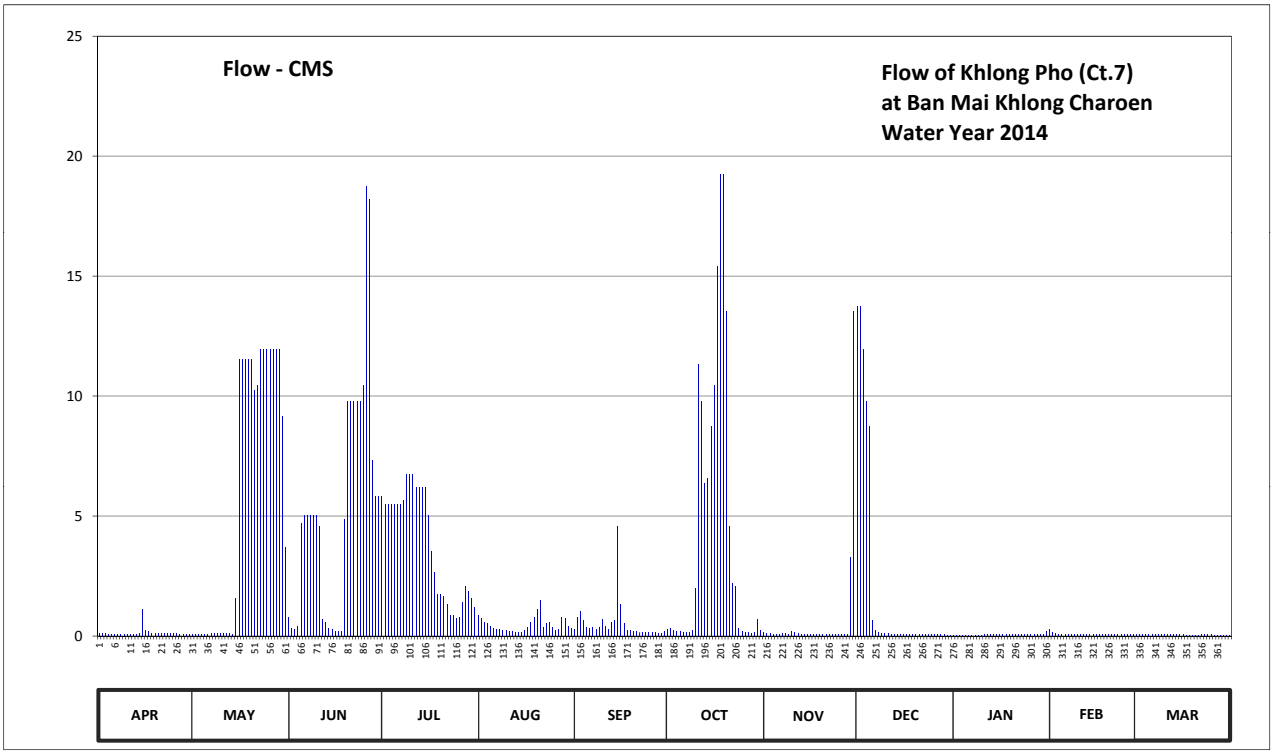
Location : on right bank at Ban Mai Khlong Charoen.

	Ban	Mai Khlong Charoen	**Amphoe** Mae Poen	**Changwat**	Nakhon Sawan
Drainge Area	453	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 sling pole.			**Elevation**	+107.830 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean 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 Flot	-				
Rated by Current Meter	1975 - 1978, 2008 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.09	101.08	101.29	101.70	101.30	101.18	101.19	101.13	102.08	101.04	101.19	101.06	
2	101.09	101.08	101.20	101.68	101.28	101.29	101.20	101.11	102.08	101.04	101.12	101.06	
3	101.09	101.08	101.18	101.68	101.25	101.32	101.17	101.09	102.00	101.04	101.09	101.06	
4	101.08	101.08	101.22	101.68	101.24	101.26	101.15	101.07	101.90	101.04	101.07	101.07	
5	101.08	101.08	101.63	101.68	101.22	101.21	101.14	101.07	101.85	101.04	101.06	101.07	
6	101.08	101.08	101.65	101.68	101.20	101.20	101.13	101.06	101.26	101.04	101.06	101.07	
7	101.08	101.10	101.65	101.68	101.18	101.21	101.13	101.10	101.17	101.04	101.06	101.07	
8	101.08	101.10	101.65	101.69	101.18	101.19	101.13	101.09	101.13	101.04	101.05	101.07	
9	101.08	101.09	101.65	101.75	101.17	101.21	101.16	101.08	101.11	101.04	101.05	101.07	
10	101.07	101.09	101.65	101.75	101.17	101.27	101.42	101.15	101.10	101.04	101.05	101.06	
11	101.07	101.09	101.62	101.75	101.15	101.22	101.97	101.12	101.09	101.05	101.05	101.06	
12	101.07	101.09	101.27	101.72	101.14	101.19	101.90	101.09	101.08	101.05	101.05	101.06	
13	101.07	101.09	101.25	101.72	101.13	101.25	101.73	101.07	101.08	101.05	101.06	101.06	
14	101.10	101.08	101.20	101.72	101.12	101.26	101.74	101.06	101.08	101.05	101.06	101.06	
15	101.33	101.38	101.18	101.72	101.12	101.62	101.85	101.06	101.08	101.05	101.06	101.06	
16	101.17	101.98	101.15	101.65	101.17	101.35	101.93	101.06	101.08	101.05	101.06	101.05	
17	101.14	101.98	101.15	101.55	101.21	101.24	102.15	101.06	101.07	101.05	101.06	101.04	
18	101.11	101.98	101.14	101.48	101.25	101.17	102.30	101.06	101.07	101.05	101.06	101.04	
19	101.10	101.98	101.64	101.40	101.29	101.16	102.30	101.06	101.06	101.05	101.06	101.04	
20	101.10	101.98	101.90	101.40	101.33	101.15	102.07	101.06	101.06	101.05	101.06	101.04	
21	101.10	101.92	101.90	101.39	101.37	101.14	101.62	101.06	101.06	101.05	101.05	101.04	
22	101.09	101.93	101.90	101.35	101.21	101.13	101.44	101.06	101.05	101.05	101.05	101.05	
23	101.09	102.00	101.90	101.30	101.24	101.13	101.43	101.06	101.05	101.05	101.05	101.05	
24	101.09	102.00	101.90	101.30	101.25	101.12	101.20	101.06	101.05	101.05	101.05	101.05	
25	101.09	102.00	101.93	101.28	101.21	101.12	101.15	101.06	101.05	101.05	101.05	101.05	
26	101.09	102.00	102.28	101.29	101.17	101.12	101.12	101.06	101.05	101.05	101.05	101.04	
27	101.08	102.00	102.26	101.36	101.19	101.12	101.12	101.06	101.05	101.05	101.06	101.04	
28	101.08	102.00	101.78	101.43	101.29	101.11	101.11	101.06	101.05	101.05	101.06	101.04	
29	101.08	102.00	101.70	101.41	101.28	101.11	101.13	101.53	101.05	101.05		101.04	
30	101.08	101.87	101.70	101.38	101.22	101.14	101.27	102.07	101.04	101.05		101.04	
31		101.56		101.34	101.20		101.17		101.04	101.15		101.04	
Mean	101.10	101.54	101.58	101.55	101.22	101.21	101.47	101.12	101.22	101.05	101.06	101.05	
Max	101.33	102.00	102.28	101.75	101.37	101.62	102.30	102.07	102.08	101.15	101.19	101.07	102.30
Min	101.07	101.08	101.14	101.28	101.12	101.11	101.11	101.06	101.04	101.04	101.05	101.04	101.04

Annual Max Momentary Gage Height	102.33	m. (MSL.) ,	at 22.00 Hours , on Oct 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	100.94	m. (MSL.)
Left Bank Elevation	108.15	m. (MSL.) ,			
Right Bank Elevation	107.83	m. (MSL.) ,	Drainage Area	453	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	0.08	0.79	5.80	0.85	0.26	0.28	0.16	13.75	0.04	0.28	0.06		
2	0.09	0.08	0.30	5.49	0.74	0.79	0.30	0.12	13.75	0.04	0.14	0.06		
3	0.09	0.08	0.26	5.49	0.58	1.03	0.24	0.09	11.95	0.04	0.09	0.06		
4	0.08	0.08	0.41	5.49	0.52	0.63	0.20	0.07	9.80	0.04	0.07	0.07		
5	0.08	0.08	4.71	5.49	0.41	0.36	0.18	0.07	8.75	0.04	0.06	0.07		
6	0.08	0.08	5.03	5.49	0.30	0.30	0.16	0.06	0.63	0.04	0.06	0.07		
7	0.08	0.10	5.03	5.49	0.26	0.36	0.16	0.10	0.24	0.04	0.06	0.07		
8	0.08	0.10	5.03	5.65	0.26	0.28	0.16	0.09	0.16	0.04	0.05	0.07		
9	0.08	0.09	5.03	6.75	0.24	0.36	0.22	0.08	0.12	0.04	0.05	0.07		
10	0.07	0.09	5.03	6.75	0.24	0.68	1.97	0.20	0.10	0.04	0.05	0.06		
11	0.07	0.09	4.56	6.75	0.20	0.41	11.31	0.14	0.09	0.05	0.05	0.06		
12	0.07	0.09	0.68	6.18	0.18	0.28	9.80	0.09	0.08	0.05	0.05	0.06		
13	0.07	0.09	0.58	6.18	0.16	0.58	6.37	0.07	0.08	0.05	0.06	0.06		
14	0.10	0.08	0.30	6.18	0.14	0.63	6.56	0.06	0.08	0.05	0.06	0.06		
15	1.12	1.57	0.26	6.18	0.14	4.56	8.75	0.06	0.08	0.05	0.06	0.06		
16	0.24	11.52	0.20	5.03	0.24	1.30	10.44	0.06	0.08	0.05	0.06	0.05		
17	0.18	11.52	0.20	3.55	0.36	0.52	15.40	0.06	0.07	0.05	0.06	0.04		
18	0.12	11.52	0.18	2.63	0.58	0.24	19.25	0.06	0.07	0.05	0.06	0.04		
19	0.10	11.52	4.87	1.75	0.79	0.22	19.25	0.06	0.06	0.05	0.06	0.04		
20	0.10	11.52	9.80	1.75	1.12	0.20	13.53	0.06	0.06	0.05	0.06	0.04		
21	0.10	10.23	9.80	1.66	1.48	0.18	4.56	0.06	0.06	0.05	0.05	0.04		
22	0.09	10.44	9.80	1.30	0.36	0.16	2.19	0.06	0.05	0.05	0.05	0.05		
23	0.09	11.95	9.80	0.85	0.52	0.16	2.08	0.06	0.05	0.05	0.05	0.05		
24	0.09	11.95	9.80	0.85	0.58	0.14	0.30	0.06	0.05	0.05	0.05	0.05		
25	0.09	11.95	10.44	0.74	0.36	0.14	0.20	0.06	0.05	0.05	0.05	0.05		
26	0.09	11.95	18.72	0.79	0.24	0.14	0.14	0.06	0.05	0.05	0.05	0.04		
27	0.08	11.95	18.19	1.39	0.28	0.14	0.14	0.06	0.05	0.05	0.06	0.04		
28	0.08	11.95	7.32	2.08	0.79	0.12	0.12	0.06	0.05	0.05	0.06	0.04		
29	0.08	11.95	5.80	1.86	0.74	0.12	0.16	3.27	0.05	0.05		0.04		
30	0.08	9.17	5.80	1.57	0.41	0.18	0.68	13.53	0.04	0.05		0.04		
31		3.69		1.21	0.30		0.24		0.04	0.20		0.04		
Total	3.86	177.56	158.72	118.37	14.37	15.47	135.34	19.04	60.54	1.60	1.91	1.65	708.43	CMSDAY
Mean	0.13	5.73	5.29	3.82	0.46	0.52	4.37	0.63	1.95	0.05	0.07	0.05	1.94	CMS
Max	1.12	11.95	18.72	6.75	1.48	4.56	19.25	13.53	13.75	0.20	0.28	0.07	19.25	CMS
Min	0.07	0.08	0.18	0.74	0.14	0.12	0.12	0.06	0.04	0.04	0.05	0.04	0.04	CMS
Runoff	0.33	15.34	13.71	10.23	1.24	1.34	11.69	1.65	5.23	0.14	0.17	0.14	61.21	MCM

Momentary Peak 20.09 CMS. at 102.33 m. (MSL.) at 22.00 Hours , on Oct 17 , 2014

Runoff Yield 4.28 Liters/Second/Square KM. Momentary Peak Yield 44.339 Liters/Second/Square KM.

WATER YEAR : 2014

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

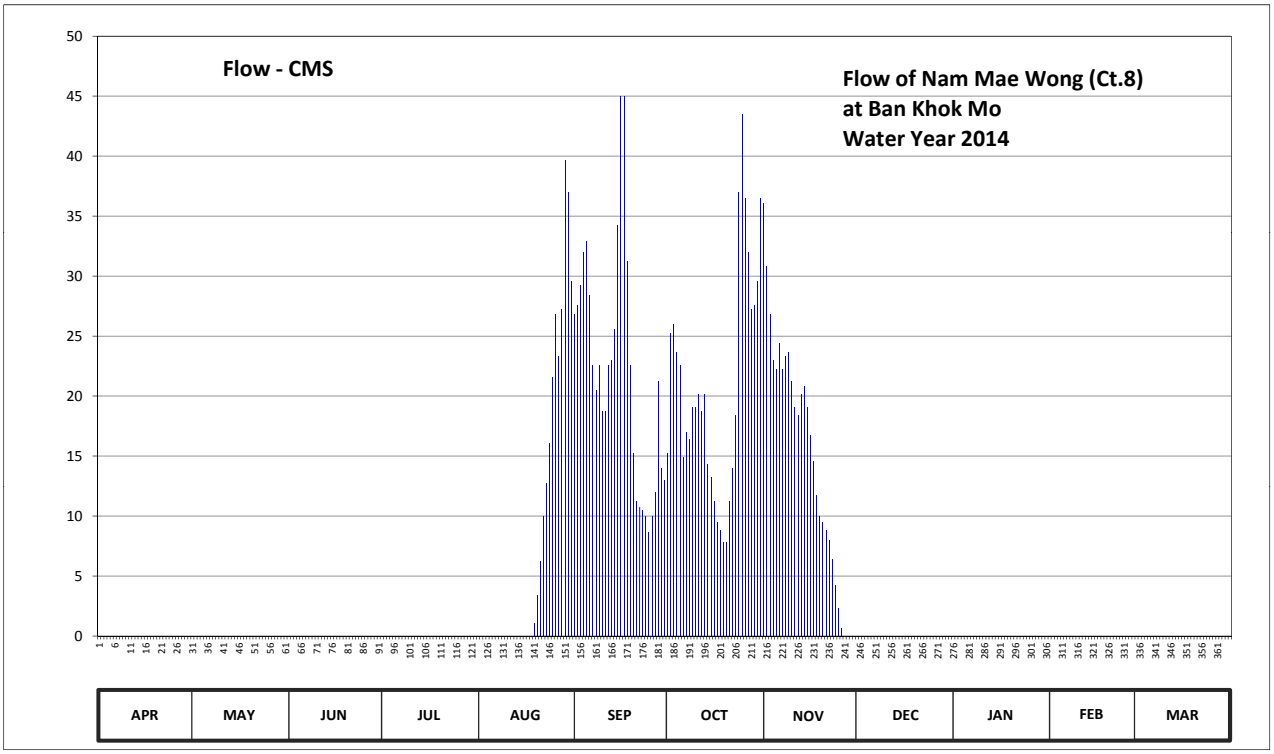
Location : on left bank at Ban Khok Mo.

	Ban Khok Mo	**Amphoe** Thap Than	**Changwat** Uthai Thani
Drainge Area	3,207 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the sling pole		**Elevation** +34.285 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean 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 Flot	-		
Rated by Current Meter	1975 - 1978, 2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.71	26.93	26.65	26.74	25.98	30.67	30.34	30.89	29.04	28.09	27.80	27.21	
2	26.73	27.18	26.72	26.64	25.98	30.69	30.63	30.77	28.90	28.09	27.79	27.15	
3	26.74	27.31	26.78	26.51	25.99	30.73	30.65	30.67	28.74	28.09	27.78	27.11	
4	26.75	27.41	26.82	26.40	26.20	30.80	30.59	30.57	28.56	28.23	27.78	27.07	
5	26.77	27.55	26.80	26.35	26.59	30.82	30.56	30.55	28.44	28.26	27.76	27.03	
6	26.78	27.65	26.80	26.26	26.75	30.71	30.33	30.61	28.38	28.22	27.73	27.01	
7	26.80	27.76	26.79	26.19	26.92	30.56	30.40	30.55	28.41	28.17	27.70	26.99	
8	26.81	27.93	26.77	26.13	27.28	30.50	30.38	30.58	28.45	28.17	27.67	26.98	
9	26.83	27.90	26.77	26.10	27.55	30.56	30.46	30.59	28.42	28.17	27.64	26.96	
10	26.85	27.79	26.76	26.06	27.76	30.45	30.46	30.52	28.39	28.16	27.59	26.96	
11	26.85	27.72	26.75	26.02	27.99	30.45	30.49	30.46	28.38	28.16	27.56	26.95	
12	26.85	27.67	26.75	26.00	28.21	30.56	30.45	30.44	28.34	28.14	27.53	26.93	
13	26.87	27.62	26.76	25.98	28.43	30.57	30.49	30.49	28.33	28.14	27.52	26.91	
14	26.87	27.60	26.78	25.98	28.64	30.64	30.31	30.51	28.33	28.14	27.49	26.88	
15	26.89	27.57	26.78	25.98	28.87	30.85	30.27	30.46	28.33	28.13	27.43	26.86	
16	26.89	27.54	26.79	25.98	29.08	31.08	30.19	30.39	28.32	28.13	27.40	26.86	
17	26.90	27.49	26.81	25.98	29.30	31.08	30.12	30.32	28.31	28.11	27.36	26.84	
18	26.91	27.45	26.83	25.98	29.53	30.78	30.09	30.21	28.28	28.10	27.33	26.84	
19	26.91	27.43	26.84	25.98	29.69	30.56	30.04	30.14	28.27	28.08	27.30	26.83	
20	26.91	27.40	26.86	25.98	29.82	30.34	30.04	30.12	28.25	28.07	27.30	26.83	
21	26.90	27.35	26.87	25.98	29.96	30.19	30.19	30.09	28.22	28.07	27.30	26.83	
22	26.90	27.30	26.88	25.98	30.14	30.17	30.30	30.05	28.20	28.06	27.28	26.83	
23	26.89	27.19	26.85	25.98	30.25	30.16	30.44	29.97	28.17	28.02	27.27	26.83	
24	26.89	27.05	26.84	25.98	30.37	30.14	30.91	29.86	28.17	27.99	27.26	26.83	
25	26.89	26.92	26.82	25.98	30.53	30.08	31.05	29.76	28.15	27.96	27.25	26.82	
26	26.88	26.82	26.80	25.98	30.67	30.14	30.90	29.65	28.13	27.92	27.24	26.82	
27	26.88	26.72	26.80	25.98	30.58	30.22	30.80	29.54	28.12	27.89	27.24	26.82	
28	26.87	26.67	26.79	25.98	30.68	30.52	30.68	29.43	28.12	27.86	27.23	26.82	
29	26.87	26.62	26.77	25.98	30.97	30.30	30.69	29.31	28.13	27.84		26.82	
30	26.85	26.57	26.76	25.98	30.91	30.26	30.74	29.17	28.12	27.82		26.81	
31		26.57		25.98	30.74		30.90		28.11	27.81		26.81	
Mean	26.85	27.31	26.79	26.10	28.79	30.52	30.48	30.22	28.34	28.07	27.48	26.91	
Max	26.91	27.93	26.88	26.74	30.97	31.08	31.05	30.89	29.04	28.26	27.80	27.21	31.08
Min	26.71	26.57	26.65	25.98	25.98	30.08	30.04	29.17	28.11	27.81	27.23	26.81	25.98

Annual Max Momentary Gage Height	31.30	m. (MSL.) ,	at 04.00 Hours , on Sep 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	25.98	m. (MSL.)
Left Bank Elevation	34.28	m. (MSL.) ,			
Right Bank Elevation	34.28	m. (MSL.) ,	Drainage Area	3207	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	26.80	15.20	36.05	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	27.60	25.20	30.80	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	29.20	26.00	26.80	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	32.00	23.65	22.95	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	32.90	22.60	22.25	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	28.40	14.90	24.40	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	22.60	17.00	22.25	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	20.50	16.40	23.30	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	22.60	19.10	23.65	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	18.75	19.10	21.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	18.75	20.15	19.10	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	22.60	18.75	18.40	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	22.95	20.15	20.15	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	25.60	14.30	20.85	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	34.25	13.25	19.10	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	45.00	11.25	16.70	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	45.00	9.50	14.60	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	31.20	8.80	11.75	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	1.08	22.60	7.80	10.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	3.40	15.20	7.80	9.50	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	6.20	11.25	11.25	8.80	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	10.00	10.75	14.00	8.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	12.75	10.50	18.40	6.40	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	16.10	10.00	36.95	4.20	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	21.55	8.60	43.50	2.28	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	26.80	10.00	36.50	0.60	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	23.30	12.00	32.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	27.20	21.20	27.20	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	39.65	14.00	27.60	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	36.95	13.00	29.60	0.00	0.00	0.00		0.00		
31		0.00		0.00	29.60		36.50		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	254.58	665.80	644.40	444.08	0.00	0.00	0.00	0.00	2008.86	CMSDAY
Mean	0.00	0.00	0.00	0.00	8.21	22.19	20.79	14.80	0.00	0.00	0.00	0.00	5.50	CMS
Max	0.00	0.00	0.00	0.00	39.65	45.00	43.50	36.05	0.00	0.00	0.00	0.00	45.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	8.60	7.80	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	22.00	57.53	55.68	38.37	0.00	0.00	0.00	0.00	173.57	MCM

Momentary Peak 57.00 CMS. at 31.30 m. (MSL.) at 04.00 Hours , on Sep 17 , 2014

Runoff Yield 1.72 Liters/Second/Square KM. Momentary Peak Yield 17.774 Liters/Second/Square KM.

WATER YEAR : 2014

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

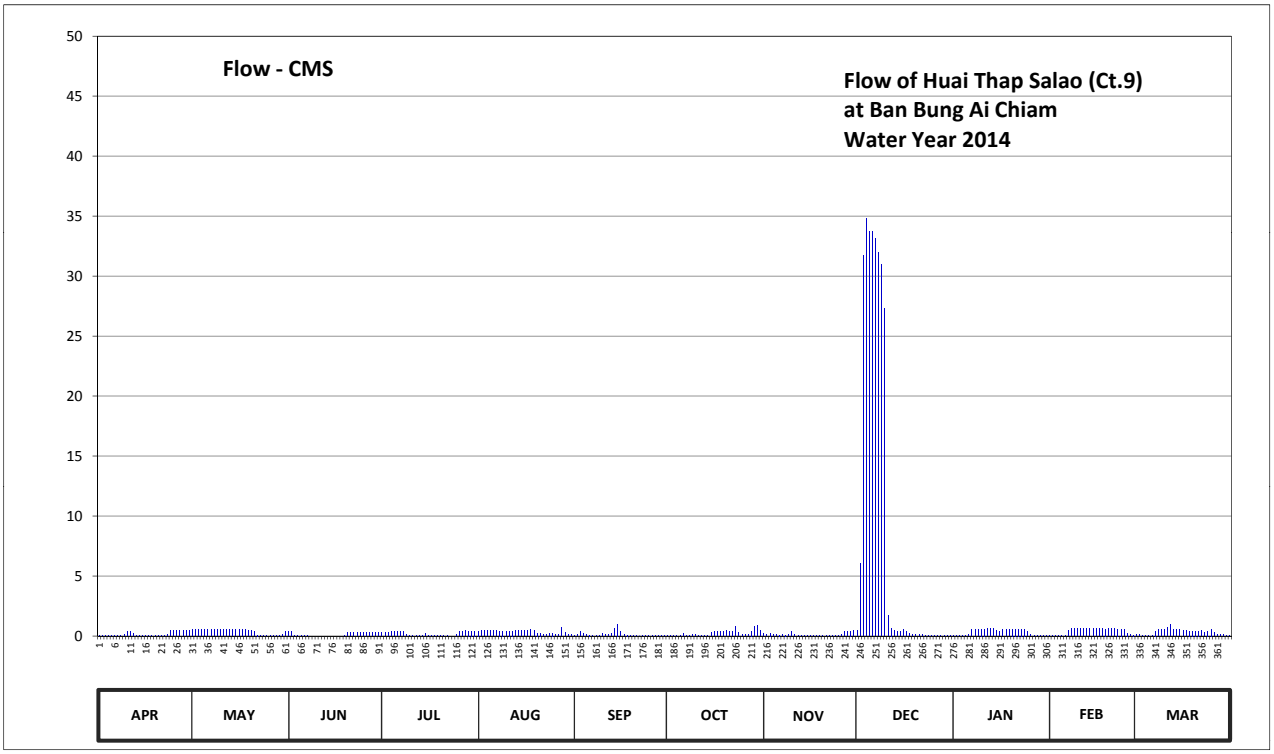
Location : on left bank about 9 kilometers upstream from Ct.6.

	Ban	Bung Ai Chiam	**Amphoe** Lan Sak	**Changwat**	Uthai Thani
Drainge Area	528	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank about 100 meters from the gage observer's house			**Elevation**	+127.701 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1977 to date				
Rating Operation					
Period of Rating	1977 to date				
Rated by Flot	-				
Rated by Current Meter	1977 to date				
Stability of Channel Regimes	Fairly stable				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Flow regulated by Rabum Dam above gage site.				
	Stage-discharge relation defined by 12 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.84	123.04	123.00	122.96	123.01	122.87	122.83	122.94	123.02	122.84	122.83	122.91	
2	122.83	123.04	122.99	122.96	123.02	122.90	122.83	122.92	123.71	122.83	122.82	122.90	
3	122.85	123.04	122.86	122.96	123.02	123.00	122.81	122.95	124.99	122.82	122.82	122.88	
4	122.85	123.05	122.85	122.98	123.02	122.94	122.81	122.91	125.10	122.82	122.81	122.85	
5	122.85	123.05	122.85	122.98	123.02	122.91	122.88	122.90	125.06	122.82	122.81	122.84	
6	122.85	123.04	122.85	122.98	123.02	122.89	122.93	122.89	125.06	122.90	122.82	122.84	
7	122.85	123.05	122.82	122.98	123.02	122.87	122.88	122.90	125.04	123.04	123.03	123.01	
8	122.85	123.05	122.80	122.98	123.01	122.85	122.86	122.89	125.00	123.04	123.07	123.04	
9	122.92	123.05	122.80	122.91	123.01	122.85	122.90	122.91	124.96	123.05	123.08	123.05	
10	123.00	123.05	122.80	122.83	123.00	122.94	122.90	122.98	124.82	123.06	123.08	123.05	
11	123.00	123.05	122.80	122.83	123.01	122.92	122.87	122.90	123.28	123.06	123.08	123.10	
12	122.93	123.05	122.80	122.83	123.01	122.92	122.85	122.87	123.09	123.08	123.08	123.15	
13	122.85	123.05	122.79	122.83	123.02	122.94	122.85	122.86	123.03	123.08	123.08	123.05	
14	122.85	123.05	122.79	122.83	123.02	123.07	122.87	122.85	122.99	123.08	123.08	123.04	
15	122.85	123.05	122.79	122.93	123.03	123.16	122.96	122.84	123.00	123.02	123.08	123.04	
16	122.85	123.05	122.79	122.86	123.03	122.99	122.99	122.83	123.05	122.98	123.08	123.02	
17	122.85	123.05	122.79	122.85	123.03	122.92	122.99	122.82	123.00	123.04	123.08	123.02	
18	122.85	123.05	122.79	122.83	123.04	122.89	122.99	122.82	122.93	123.05	123.08	123.01	
19	122.84	123.03	122.87	122.83	123.02	122.87	122.99	122.82	122.90	123.05	123.06	123.01	
20	122.84	123.03	122.96	122.82	122.95	122.86	123.03	122.82	122.90	123.06	123.07	123.01	
21	122.84	122.99	122.96	122.81	122.95	122.85	122.99	122.82	122.90	123.06	123.07	123.01	
22	122.84	122.89	122.96	122.81	122.92	122.84	122.98	122.82	122.90	123.06	123.07	123.03	
23	122.91	122.85	122.96	122.80	122.92	122.84	123.12	122.82	122.88	123.06	123.06	122.96	
24	123.03	122.85	122.96	122.80	122.93	122.83	122.96	122.82	122.87	123.06	123.06	123.01	
25	123.03	122.83	122.96	122.91	122.95	122.83	122.91	122.83	122.87	122.99	123.05	123.06	
26	123.03	122.83	122.96	122.98	122.90	122.83	122.90	122.90	122.86	122.90	122.95	122.97	
27	123.03	122.83	122.96	123.00	122.92	122.82	122.92	122.98	122.86	122.86	122.91	122.92	
28	123.03	122.83	122.96	123.02	123.11	122.82	123.01	123.00	122.85	122.86	122.89	122.90	
29	123.03	122.83	122.96	123.01	122.97	122.82	123.12	123.01	122.85	122.85		122.90	
30	123.03	122.90	122.96	123.01	122.92	122.82	123.13	123.02	122.85	122.83		122.88	
31		123.00		123.01	122.90		123.03		122.84	122.83		122.87	
Mean	122.91	122.99	122.88	122.91	122.99	122.90	122.94	122.89	123.50	122.97	123.00	122.98	
Max	123.03	123.05	123.00	123.02	123.11	123.16	123.13	123.02	125.10	123.08	123.08	123.15	125.10
Min	122.83	122.83	122.79	122.80	122.90	122.82	122.81	122.82	122.84	122.82	122.81	122.84	122.79

Annual Max Momentary Gage Height	125.11	m. (MSL.) ,	at 05.00 Hours , on Dec 4 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	120.88	m. (MSL.)
Left Bank Elevation	129.97	m. (MSL.) ,			
Right Bank Elevation	130.02	m. (MSL.) ,	Drainage Area	528	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.52	0.40	0.28	0.43	0.07	0.03	0.22	0.46	0.04	0.03	0.13		
2	0.03	0.52	0.37	0.28	0.46	0.10	0.03	0.16	6.03	0.03	0.02	0.10		
3	0.05	0.52	0.06	0.28	0.46	0.40	0.01	0.25	31.74	0.02	0.02	0.08		
4	0.05	0.55	0.05	0.34	0.46	0.22	0.01	0.13	34.80	0.02	0.01	0.05		
5	0.05	0.55	0.05	0.34	0.46	0.13	0.08	0.10	33.68	0.02	0.01	0.04		
6	0.05	0.52	0.05	0.34	0.46	0.09	0.19	0.09	33.68	0.10	0.02	0.04		
7	0.05	0.55	0.02	0.34	0.46	0.07	0.08	0.10	33.12	0.52	0.49	0.43		
8	0.05	0.55	0.00	0.34	0.43	0.05	0.06	0.09	32.00	0.52	0.61	0.52		
9	0.16	0.55	0.00	0.13	0.43	0.05	0.10	0.13	30.96	0.55	0.64	0.55		
10	0.40	0.55	0.00	0.03	0.40	0.22	0.10	0.34	27.32	0.58	0.64	0.55		
11	0.40	0.55	0.00	0.03	0.43	0.16	0.07	0.10	1.68	0.58	0.64	0.70		
12	0.19	0.55	0.00	0.03	0.43	0.16	0.05	0.07	0.67	0.64	0.64	0.95		
13	0.05	0.55	0.00	0.03	0.46	0.22	0.05	0.06	0.49	0.64	0.64	0.55		
14	0.05	0.55	0.00	0.03	0.46	0.61	0.07	0.05	0.37	0.64	0.64	0.52		
15	0.05	0.55	0.00	0.19	0.49	1.00	0.28	0.04	0.40	0.46	0.64	0.52		
16	0.05	0.55	0.00	0.06	0.49	0.37	0.37	0.03	0.55	0.34	0.64	0.46		
17	0.05	0.55	0.00	0.05	0.49	0.16	0.37	0.02	0.40	0.52	0.64	0.46		
18	0.05	0.55	0.00	0.03	0.52	0.09	0.37	0.02	0.19	0.55	0.64	0.43		
19	0.04	0.49	0.07	0.03	0.46	0.07	0.37	0.02	0.10	0.55	0.58	0.43		
20	0.04	0.49	0.28	0.02	0.25	0.06	0.49	0.02	0.10	0.58	0.61	0.43		
21	0.04	0.37	0.28	0.01	0.25	0.05	0.37	0.02	0.10	0.58	0.61	0.43		
22	0.04	0.09	0.28	0.01	0.16	0.04	0.34	0.02	0.10	0.58	0.61	0.49		
23	0.13	0.05	0.28	0.00	0.16	0.04	0.80	0.02	0.08	0.58	0.58	0.28		
24	0.49	0.05	0.28	0.00	0.19	0.03	0.28	0.02	0.07	0.58	0.58	0.43		
25	0.49	0.03	0.28	0.13	0.25	0.03	0.13	0.03	0.07	0.37	0.55	0.58		
26	0.49	0.03	0.28	0.34	0.10	0.03	0.10	0.10	0.06	0.10	0.25	0.31		
27	0.49	0.03	0.28	0.40	0.16	0.02	0.16	0.34	0.06	0.06	0.13	0.16		
28	0.49	0.03	0.28	0.46	0.75	0.02	0.43	0.40	0.05	0.06	0.09	0.10		
29	0.49	0.03	0.28	0.43	0.31	0.02	0.80	0.43	0.05	0.05		0.10		
30	0.49	0.10	0.28	0.43	0.16	0.02	0.85	0.46	0.05	0.03		0.08		
31		0.40		0.43	0.10		0.49		0.04	0.03		0.07		
Total	5.54	11.97	4.15	5.84	11.52	4.60	7.93	3.88	269.47	10.92	12.20	10.97	358.99	CMSDAY
Mean	0.18	0.39	0.14	0.19	0.37	0.15	0.26	0.13	8.69	0.35	0.44	0.35	0.98	CMS
Max	0.49	0.55	0.40	0.46	0.75	1.00	0.85	0.46	34.80	0.64	0.64	0.95	34.80	CMS
Min	0.03	0.03	0.00	0.00	0.10	0.02	0.01	0.02	0.04	0.02	0.01	0.04	0.00	CMS
Runoff	0.48	1.03	0.36	0.51	1.00	0.40	0.69	0.34	23.28	0.94	1.05	0.95	31.02	MCM

Momentary Peak 35.08 CMS. at 125.11 m. (MSL.) at 05.00 Hours , on Dec 4, 2014

Runoff Yield 1.86 Liters/Second/Square KM. Momentary Peak Yield 66.439 Liters/Second/Square KM.

WATER YEAR : 2014

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

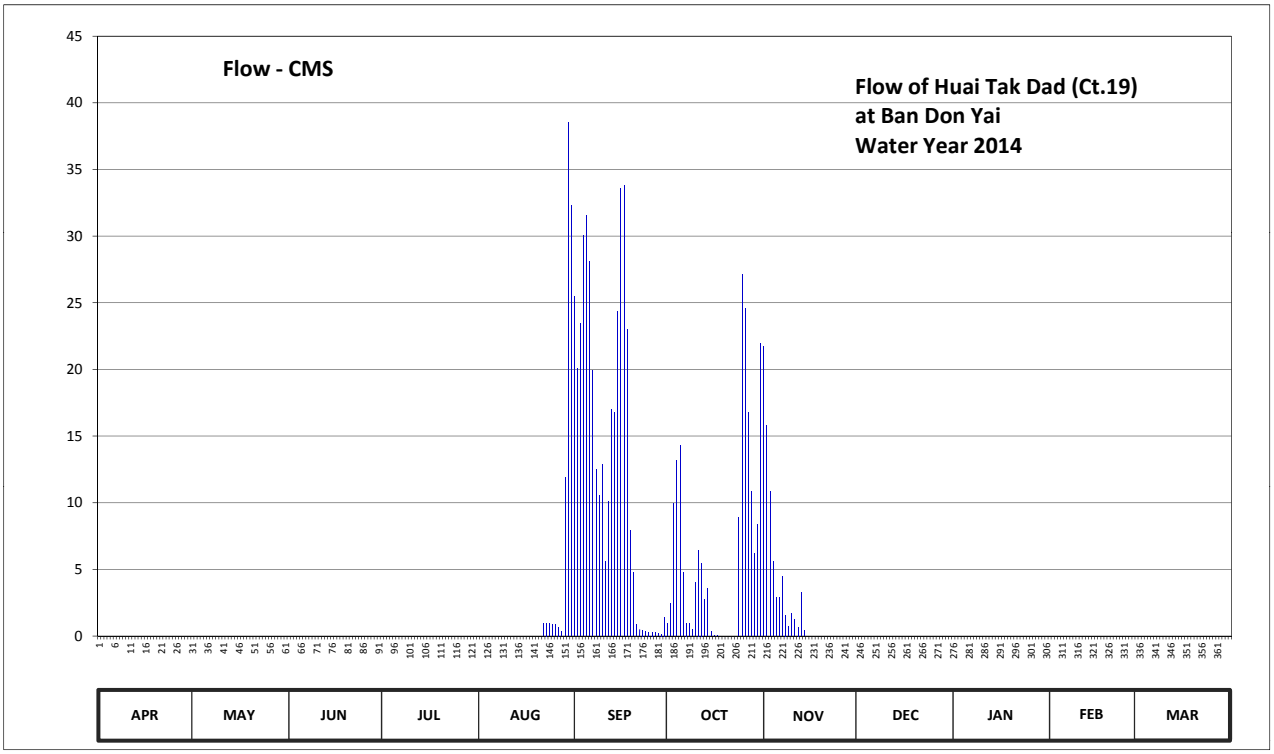
Location : on right bank at Ban Don Yai

	Ban Don Yai	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,454 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5.00 meters from the top staff gage.		**Elevation** +24.379 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 Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 9 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.15	17.15	17.15	17.15	17.15	19.82	18.17	19.65	17.91	17.86	17.87	17.86	
2	17.15	17.15	17.15	17.15	17.15	19.57	18.36	19.34	17.92	17.86	17.87	17.80	
3	17.15	17.15	17.15	17.15	17.15	19.73	18.97	19.03	17.92	17.86	17.87	17.75	
4	17.15	17.15	17.15	17.15	17.15	20.01	19.18	18.65	17.91	17.86	17.87	17.66	
5	17.15	17.15	17.15	17.15	17.15	20.07	19.25	18.41	17.91	17.86	17.87	17.56	
6	17.15	17.15	17.15	17.15	17.15	19.93	18.58	18.41	17.91	17.86	17.87	17.50	
7	17.15	17.15	17.15	17.15	17.15	19.56	18.18	18.55	17.91	17.86	17.87	17.43	
8	17.15	17.15	17.15	17.15	17.15	19.14	18.17	18.26	17.91	17.86	17.87	17.36	
9	17.15	17.15	17.15	17.15	17.15	19.01	18.10	18.14	17.91	17.86	17.87	17.30	
10	17.15	17.15	17.15	17.15	17.15	19.16	18.51	18.27	17.91	17.86	17.87	17.24	
11	17.15	17.15	17.15	17.15	17.15	18.65	18.72	18.22	17.91	17.86	17.87	17.15	
12	17.15	17.15	17.15	17.15	17.15	18.98	18.64	18.13	17.89	17.86	17.87	17.15	
13	17.15	17.15	17.15	17.15	17.15	19.41	18.39	18.44	17.86	17.86	17.87	17.15	
14	17.15	17.15	17.15	17.15	17.15	19.40	18.47	18.08	17.86	17.86	17.87	17.15	
15	17.15	17.15	17.15	17.15	17.15	19.77	18.07	17.99	17.86	17.86	17.87	17.15	
16	17.15	17.15	17.15	17.15	17.15	20.15	18.01	17.98	17.86	17.86	17.87	17.15	
17	17.15	17.15	17.15	17.15	17.15	20.16	18.01	17.97	17.86	17.86	17.87	17.15	
18	17.15	17.15	17.15	17.15	17.15	19.71	18.00	17.96	17.86	17.87	17.87	17.15	
19	17.15	17.15	17.15	17.15	17.25	18.83	17.99	17.96	17.86	17.87	17.87	17.15	
20	17.15	17.15	17.15	17.15	17.56	18.58	17.98	17.95	17.86	17.87	17.87	17.15	
21	17.15	17.15	17.15	17.15	17.96	18.16	17.98	17.94	17.86	17.87	17.87	17.15	
22	17.15	17.15	17.15	17.15	18.17	18.10	17.99	17.94	17.86	17.87	17.87	17.15	
23	17.15	17.15	17.15	17.15	18.18	18.09	17.99	17.94	17.86	17.87	17.87	17.15	
24	17.15	17.15	17.15	17.15	18.17	18.07	18.90	17.94	17.86	17.87	17.87	17.15	
25	17.15	17.15	17.15	17.15	18.16	18.06	19.89	17.93	17.86	17.87	17.87	17.15	
26	17.15	17.15	17.15	17.15	18.16	18.06	19.78	17.93	17.86	17.87	17.87	17.15	
27	17.15	17.15	17.15	17.15	18.13	18.05	19.40	17.92	17.86	17.87	17.87	17.15	
28	17.15	17.15	17.15	17.15	18.07	18.04	19.03	17.92	17.86	17.87	17.87	17.15	
29	17.15	17.15	17.15	17.15	19.10	18.03	18.70	17.92	17.86	17.87		17.15	
30	17.15	17.15	17.15	17.15	20.34	18.24	18.86	17.92	17.86	17.87		17.15	
31		17.15		17.15	20.10		19.66		17.86	17.87		17.15	
Mean	17.15	17.15	17.15	17.15	17.68	19.02	18.58	18.22	17.88	17.86	17.87	17.28	
Max	17.15	17.15	17.15	17.15	20.34	20.16	19.89	19.65	17.92	17.87	17.87	17.86	20.34
Min	17.15	17.15	17.15	17.15	17.15	18.03	17.98	17.92	17.86	17.86	17.87	17.15	17.15

Annual Max Momentary Gage Height	20.39	m. (MSL.) ,	at 23.00 Hours , on Aug 29 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	17.15	m. (MSL.)
Left Bank Elevation	24.36	m. (MSL.) ,			
Right Bank Elevation	24.35	m. (MSL.) ,	Drainage Area	3454	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

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	25.48	0.92	21.75	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	20.10	2.44	15.78	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	23.46	9.95	10.85	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	30.05	13.18	5.60	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	31.55	14.30	2.91	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	28.12	4.78	2.91	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	19.90	0.98	4.45	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	12.54	0.92	1.58	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	10.55	0.50	0.74	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	12.86	4.01	1.66	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	5.60	6.46	1.26	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	10.10	5.48	0.68	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	16.99	2.71	3.24	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	16.80	3.57	0.40	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	24.34	0.35	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	33.55	0.05	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	33.80	0.05	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	23.02	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	4.78	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.92	0.50	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.98	0.45	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.92	0.35	8.90	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.86	0.30	27.16	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.86	0.30	24.56	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.68	0.25	16.80	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.35	0.20	10.85	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	11.90	0.15	6.20	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	38.52	1.42	8.34	0.00	0.00	0.00		0.00		
31		0.00		0.00	32.30		21.96		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	88.29	396.29	195.42	73.81	0.00	0.00	0.00	0.00	753.81	CMSDAY
Mean	0.00	0.00	0.00	0.00	2.85	13.21	6.30	2.46	0.00	0.00	0.00	0.00	2.07	CMS
Max	0.00	0.00	0.00	0.00	38.52	33.80	27.16	21.75	0.00	0.00	0.00	0.00	38.52	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	7.63	34.24	16.88	6.38	0.00	0.00	0.00	0.00	65.13	MCM

Momentary Peak 39.92 CMS. at 20.39 m. (MSL.) at 23.00 Hours , on Aug 29 , 2014

Runoff Yield 0.60 Liters/Second/Square KM. Momentary Peak Yield 11.558 Liters/Second/Square KM.

WATER YEAR : 2014

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

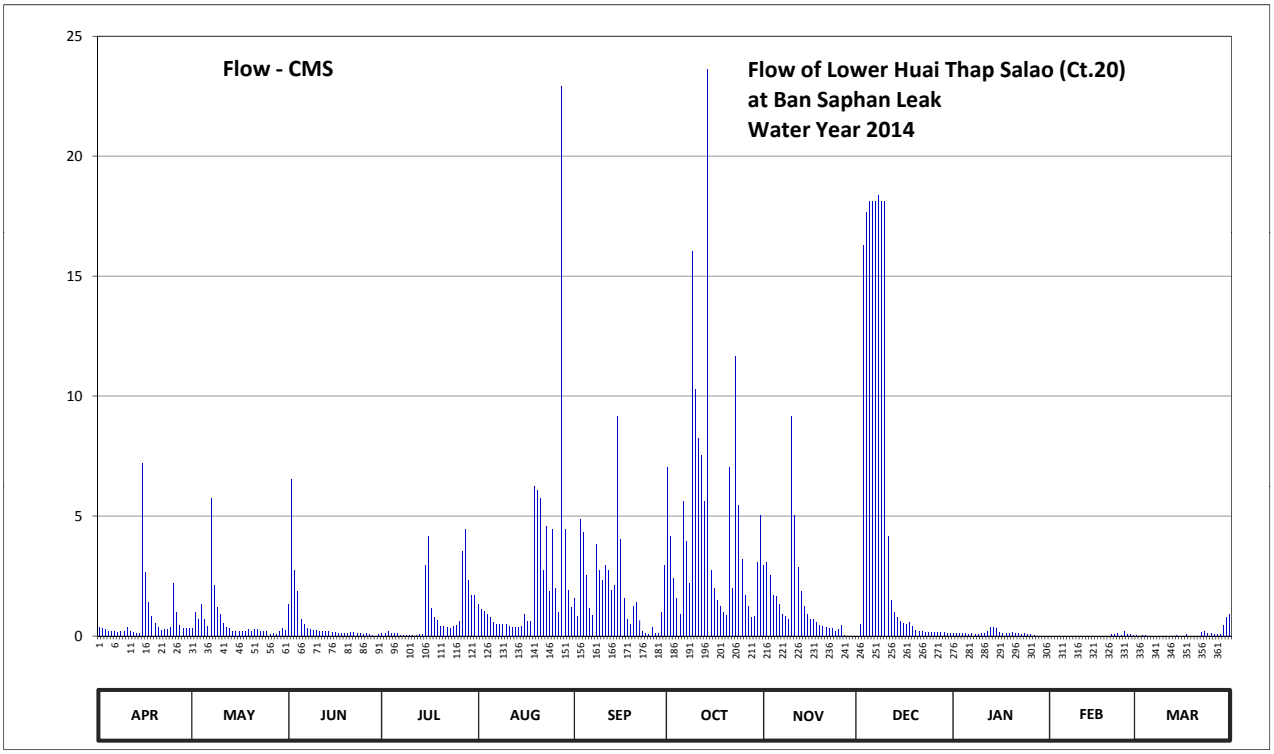
Location : on right bank at Ban Saphan Leak

	Ban	Saphan Leak	**Amphoe** Lan Sak	**Changwat**	Uthai Thani
Drainge Area	691	sq.km.			
Type of Gage	Staff gage.				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On right bank near the automatic gage buiding			**Elevation**	+101.800 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings				
Period of Available Gage Records	1999 to date				
Rating Operation					
Period of Rating	2007 to date				
Rated by Flot	-				
Rated by Current Meter	2007 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.51	98.50	98.71	98.44	98.71	98.74	99.18	98.89	98.40	98.44	98.40	98.41	
2	98.50	98.65	99.15	98.44	98.67	98.62	98.99	98.90	98.55	98.43	98.40	98.40	
3	98.49	98.60	98.87	98.46	98.66	99.04	98.84	98.85	99.65	98.43	98.40	98.41	
4	98.47	98.71	98.78	98.44	98.64	99.00	98.74	98.76	99.71	98.43	98.40	98.41	
5	98.46	98.60	98.60	98.44	98.61	98.85	98.64	98.75	99.73	98.43	98.40	98.40	
6	98.46	98.53	98.55	98.43	98.57	98.68	99.09	98.71	99.73	98.42	98.40	98.40	
7	98.45	99.10	98.50	98.41	98.55	98.63	98.97	98.64	99.73	98.43	98.40	98.40	
8	98.46	98.81	98.49	98.41	98.55	98.96	98.82	98.62	99.74	98.42	98.40	98.40	
9	98.46	98.69	98.48	98.41	98.55	98.87	99.64	98.60	99.73	98.42	98.40	98.40	
10	98.51	98.64	98.48	98.41	98.55	98.83	99.36	99.30	99.73	98.43	98.40	98.40	
11	98.46	98.56	98.47	98.41	98.53	98.89	99.25	99.05	98.99	98.44	98.40	98.40	
12	98.45	98.51	98.47	98.41	98.52	98.87	99.21	98.88	98.73	98.47	98.40	98.40	
13	98.44	98.50	98.47	98.42	98.52	98.79	99.09	98.78	98.65	98.51	98.40	98.40	
14	98.44	98.47	98.46	98.42	98.52	98.81	99.96	98.70	98.61	98.51	98.40	98.41	
15	99.19	98.47	98.45	98.89	98.53	99.30	98.87	98.64	98.58	98.50	98.40	98.40	
16	98.86	98.47	98.45	98.99	98.64	98.98	98.80	98.60	98.56	98.45	98.40	98.40	
17	98.72	98.47	98.44	98.68	98.58	98.74	98.73	98.60	98.55	98.44	98.40	98.42	
18	98.62	98.47	98.43	98.61	98.58	98.60	98.70	98.57	98.57	98.43	98.40	98.40	
19	98.56	98.49	98.44	98.59	99.13	98.55	98.65	98.54	98.53	98.44	98.40	98.40	
20	98.52	98.47	98.44	98.53	99.12	98.70	98.63	98.53	98.48	98.45	98.40	98.40	
21	98.48	98.49	98.45	98.53	99.10	98.72	99.18	98.51	98.47	98.43	98.42	98.40	
22	98.49	98.49	98.45	98.52	98.87	98.59	98.80	98.50	98.46	98.43	98.42	98.45	
23	98.49	98.46	98.44	98.50	99.02	98.46	99.43	98.50	98.45	98.42	98.43	98.46	
24	98.51	98.46	98.43	98.53	98.78	98.44	99.08	98.47	98.45	98.43	98.41	98.43	
25	98.82	98.46	98.42	98.54	99.01	98.42	98.91	98.49	98.45	98.42	98.46	98.43	
26	98.65	98.42	98.43	98.58	98.80	98.52	98.76	98.54	98.45	98.42	98.42	98.42	
27	98.54	98.44	98.42	98.94	98.65	98.43	98.70	98.41	98.45	98.41	98.42	98.42	
28	98.50	98.42	98.41	99.01	99.93	98.43	98.61	98.39	98.45	98.40	98.41	98.42	
29	98.50	98.47	98.40	98.83	99.01	98.65	98.62	98.40	98.45	98.40		98.54	
30	98.50	98.50	98.42	98.76	98.79	98.89	98.90	98.39	98.44	98.40		98.61	
31		98.48		98.76	98.69		99.05		98.44	98.40		98.64	
Mean	98.55	98.54	98.51	98.57	98.75	98.73	98.97	98.65	98.84	98.43	98.41	98.43	
Max	99.19	99.10	99.15	99.01	99.93	99.30	99.96	99.30	99.74	98.51	98.46	98.64	99.96
Min	98.44	98.42	98.40	98.41	98.52	98.42	98.61	98.39	98.40	98.40	98.40	98.40	98.39

Annual Max Momentary Gage Height	100.56	m. (MSL.) ,	at 06.00 Hours , on Aug 28 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	98.32	m. (MSL.)
Left Bank Elevation	104.35	m. (MSL.) ,			
Right Bank Elevation	104.34	m. (MSL.) ,	Drainage Area	691	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.34	0.30	1.33	0.12	1.33	1.55	7.03	2.94	0.00	0.12	0.00	0.03		
2	0.30	0.98	6.55	0.12	1.09	0.81	4.17	3.05	0.50	0.09	0.00	0.00		
3	0.27	0.70	2.74	0.18	1.03	4.88	2.42	2.52	16.28	0.09	0.00	0.03		
4	0.21	1.33	1.85	0.12	0.92	4.30	1.55	1.70	17.64	0.09	0.00	0.03		
5	0.18	0.70	0.70	0.12	0.76	2.52	0.92	1.63	18.11	0.09	0.00	0.00		
6	0.18	0.42	0.50	0.09	0.58	1.14	5.60	1.33	18.11	0.06	0.00	0.00		
7	0.15	5.75	0.30	0.03	0.50	0.86	3.93	0.92	18.11	0.09	0.00	0.00		
8	0.18	2.10	0.27	0.03	0.50	3.80	2.21	0.81	18.34	0.06	0.00	0.00		
9	0.18	1.20	0.24	0.03	0.50	2.74	16.05	0.70	18.11	0.06	0.00	0.00		
10	0.34	0.92	0.24	0.03	0.50	2.31	10.29	9.15	18.11	0.09	0.00	0.00		
11	0.18	0.54	0.21	0.03	0.42	2.94	8.25	5.03	4.17	0.12	0.00	0.00		
12	0.15	0.34	0.21	0.03	0.38	2.74	7.53	2.84	1.48	0.21	0.00	0.00		
13	0.12	0.30	0.21	0.06	0.38	1.92	5.60	1.85	0.98	0.34	0.00	0.00		
14	0.12	0.21	0.18	0.06	0.38	2.10	23.62	1.25	0.76	0.34	0.00	0.03		
15	7.19	0.21	0.15	2.94	0.42	9.15	2.74	0.92	0.62	0.30	0.00	0.00		
16	2.63	0.21	0.15	4.17	0.92	4.05	2.00	0.70	0.54	0.15	0.00	0.00		
17	1.40	0.21	0.12	1.14	0.62	1.55	1.48	0.70	0.50	0.12	0.00	0.06		
18	0.81	0.21	0.09	0.76	0.62	0.70	1.25	0.58	0.58	0.09	0.00	0.00		
19	0.54	0.27	0.12	0.66	6.23	0.50	0.98	0.46	0.42	0.12	0.00	0.00		
20	0.38	0.21	0.12	0.42	6.07	1.25	0.86	0.42	0.24	0.15	0.00	0.00		
21	0.24	0.27	0.15	0.42	5.75	1.40	7.03	0.34	0.21	0.09	0.06	0.00		
22	0.27	0.27	0.15	0.38	2.74	0.66	2.00	0.30	0.18	0.09	0.06	0.15		
23	0.27	0.18	0.12	0.30	4.59	0.18	11.65	0.30	0.15	0.06	0.09	0.18		
24	0.34	0.18	0.09	0.42	1.85	0.12	5.46	0.21	0.15	0.09	0.03	0.09		
25	2.21	0.18	0.06	0.46	4.45	0.06	3.18	0.27	0.15	0.06	0.18	0.09		
26	0.98	0.06	0.09	0.62	2.00	0.38	1.70	0.46	0.15	0.06	0.06	0.06		
27	0.46	0.12	0.06	3.55	0.98	0.09	1.25	0.03	0.15	0.03	0.06	0.06		
28	0.30	0.06	0.03	4.45	22.88	0.09	0.76	0.00	0.15	0.00	0.03	0.06		
29	0.30	0.21	0.00	2.31	4.45	0.98	0.81	0.00	0.15	0.00		0.46		
30	0.30	0.30	0.06	1.70	1.92	2.94	3.05	0.00	0.12	0.00		0.76		
31		0.24		1.70	1.20		5.03		0.12	0.00		0.92		
Total	21.52	19.18	17.09	27.45	76.96	58.71	150.40	41.41	155.28	3.26	0.57	3.01	574.84	CMSDAY
Mean	0.72	0.62	0.57	0.89	2.48	1.96	4.85	1.38	5.01	0.11	0.02	0.10	1.57	CMS
Max	7.19	5.75	6.55	4.45	22.88	9.15	23.62	9.15	18.34	0.34	0.18	0.92	23.62	CMS
Min	0.12	0.06	0.00	0.03	0.38	0.06	0.76	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.86	1.66	1.48	2.37	6.65	5.07	13.00	3.58	13.42	0.28	0.05	0.26	49.67	MCM

Momentary Peak 40.78 CMS. at 100.56 m. (MSL.) at 06.00 Hours , on Aug 28 , 2014

Runoff Yield 2.28 Liters/Second/Square KM. Momentary Peak Yield 59.016 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Tan Dieo , Phetchabun (S.3)

Lat 16 - 46 - 51 N Long 101 - 14 - 57 E

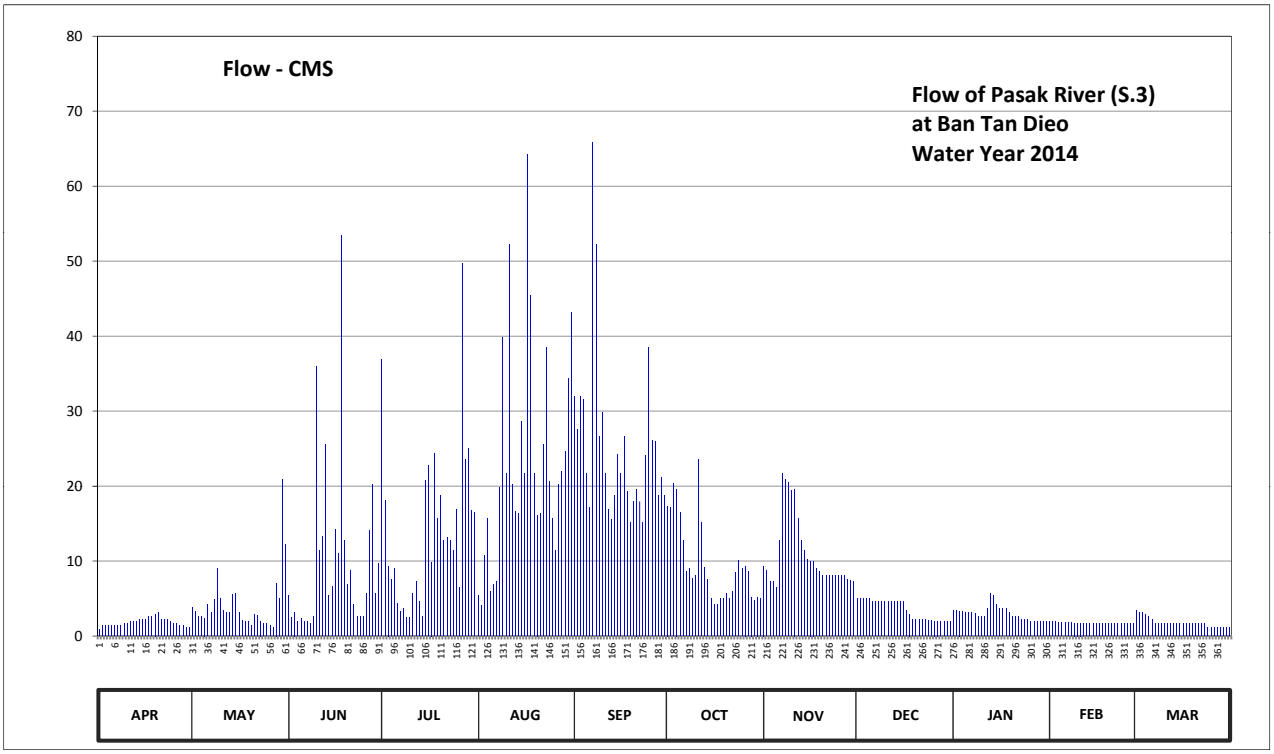
Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

	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 right 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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.33	139.95	140.18	142.34	140.19	142.11	141.24	140.66	140.13	139.89	139.58	139.88	
2	139.48	139.86	139.69	141.29	140.01	141.86	141.23	140.60	140.13	139.89	139.58	139.83	
3	139.48	139.73	139.84	140.66	140.78	142.11	141.44	140.43	140.13	139.87	139.58	139.83	
4	139.48	139.73	139.59	140.47	141.13	142.09	141.39	140.43	140.13	139.85	139.57	139.78	
5	139.48	139.68	139.66	140.63	140.25	141.53	141.18	140.33	140.13	139.83	139.57	139.73	
6	139.48	140.03	139.58	140.05	140.39	141.23	140.93	140.93	140.08	139.83	139.57	139.63	
7	139.48	139.83	139.58	139.86	140.43	143.53	140.59	141.53	140.08	139.83	139.56	139.53	
8	139.48	140.12	139.53	139.93	141.40	143.01	140.62	141.48	140.08	139.80	139.56	139.53	
9	139.53	140.63	139.72	139.69	142.47	141.81	140.49	141.45	140.08	139.73	139.55	139.53	
10	139.53	140.13	142.30	139.69	141.53	141.99	140.53	141.38	140.08	139.73	139.55	139.53	
11	139.58	139.89	140.83	140.23	143.01	141.53	141.63	141.39	140.08	139.73	139.55	139.53	
12	139.58	139.83	140.97	140.43	141.43	141.21	141.09	141.13	140.08	139.93	139.54	139.53	
13	139.58	139.83	141.75	140.08	141.19	141.12	140.64	140.93	140.08	140.23	139.54	139.53	
14	139.63	140.21	140.19	139.71	141.17	141.33	140.48	140.83	140.08	140.19	139.54	139.53	
15	139.63	140.23	140.35	141.47	141.92	141.67	140.13	140.74	140.08	140.03	139.53	139.53	
16	139.63	139.83	141.03	141.59	141.53	141.53	140.03	140.72	140.08	139.93	139.53	139.53	
17	139.73	139.61	140.80	140.71	143.47	141.81	140.03	140.72	139.89	139.93	139.53	139.53	
18	139.73	139.59	143.06	141.68	142.72	141.37	140.13	140.63	139.79	139.93	139.53	139.53	
19	139.79	139.59	140.93	141.13	141.53	141.09	140.13	140.58	139.63	139.83	139.53	139.53	
20	139.82	139.48	140.39	141.33	141.16	141.28	140.23	140.53	139.63	139.73	139.53	139.53	
21	139.63	139.77	140.60	140.93	141.17	141.39	140.13	140.53	139.63	139.73	139.53	139.53	
22	139.63	139.75	140.03	140.96	141.75	141.28	140.25	140.53	139.63	139.73	139.53	139.53	
23	139.63	139.60	139.73	140.93	142.41	141.09	140.57	140.53	139.63	139.63	139.53	139.53	
24	139.58	139.53	139.73	140.83	141.46	141.66	140.73	140.53	139.61	139.63	139.53	139.43	
25	139.53	139.53	139.73	141.21	141.13	142.41	140.63	140.53	139.61	139.63	139.53	139.43	
26	139.53	139.48	140.23	140.33	140.83	141.78	140.66	140.53	139.60	139.58	139.53	139.43	
27	139.48	139.44	141.02	142.91	141.43	141.77	140.58	140.53	139.60	139.58	139.53	139.43	
28	139.48	140.41	141.43	141.63	141.54	141.33	140.16	140.48	139.59	139.58	139.53	139.43	
29	139.43	140.14	140.23	141.72	141.69	141.49	140.10	140.45	139.59	139.58		139.43	
30	139.43	141.48	140.69	141.20	142.23	141.33	140.16	140.43	139.58	139.58		139.43	
31		140.90		141.18	142.62		140.13		139.58	139.58		139.43	
Mean	139.56	139.93	140.45	140.86	141.48	141.69	140.59	140.75	139.87	139.79	139.55	139.55	
Max	139.82	141.48	143.06	142.91	143.47	143.53	141.63	141.53	140.13	140.23	139.58	139.88	143.53
Min	139.33	139.44	139.53	139.69	140.01	141.09	140.03	140.33	139.58	139.58	139.53	139.43	139.33

Annual Max Momentary Gage Height	144.13	m. (MSL.) ,	at 18.00 Hours , on Aug 17 , 2014		
Zero Gage at Bottom Elevation	136.63	m. (MSL.) ,	River Bed	138.62	m. (MSL.)
Left Bank Elevation	146.41	m. (MSL.) ,			
Right Bank Elevation	146.21	m. (MSL.) ,	Drainage Area	1037	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.83	3.75	5.35	36.90	5.43	31.95	17.35	9.35	4.98	3.45	1.90	3.40		
2	1.40	3.30	2.45	18.10	4.07	27.55	17.20	8.75	4.98	3.45	1.90	3.15		
3	1.40	2.65	3.20	9.35	10.75	31.95	20.35	7.22	4.98	3.35	1.90	3.15		
4	1.40	2.65	1.95	7.53	15.70	31.57	19.60	7.22	4.98	3.25	1.85	2.90		
5	1.40	2.40	2.30	9.05	5.88	21.77	16.45	6.48	4.98	3.15	1.85	2.65		
6	1.40	4.22	1.90	4.38	6.92	17.20	12.70	12.70	4.60	3.15	1.85	2.15		
7	1.40	3.15	1.90	3.30	7.22	65.82	8.65	21.77	4.60	3.15	1.80	1.65		
8	1.40	4.90	1.65	3.65	19.75	52.25	8.95	20.95	4.60	3.00	1.80	1.65		
9	1.65	9.05	2.60	2.45	39.83	26.67	7.68	20.50	4.60	2.65	1.75	1.65		
10	1.65	4.98	36.00	2.45	21.77	29.83	8.05	19.45	4.60	2.65	1.75	1.65		
11	1.90	3.45	11.38	5.72	52.25	21.77	23.53	19.60	4.60	2.65	1.75	1.65		
12	1.90	3.15	13.30	7.22	20.20	16.90	15.10	15.70	4.60	3.65	1.70	1.65		
13	1.90	3.15	25.62	4.60	16.60	15.55	9.15	12.70	4.60	5.72	1.70	1.65		
14	2.15	5.58	5.43	2.55	16.30	18.70	7.60	11.38	4.60	5.43	1.70	1.65		
15	2.15	5.72	6.63	20.80	28.60	24.22	4.98	10.25	4.60	4.22	1.65	1.65		
16	2.15	3.15	14.20	22.82	21.77	21.77	4.22	10.00	4.60	3.65	1.65	1.65		
17	2.65	2.05	11.00	9.88	64.18	26.67	4.22	10.00	3.45	3.65	1.65	1.65		
18	2.65	1.95	53.50	24.40	45.45	19.30	4.98	9.05	2.95	3.65	1.65	1.65		
19	2.95	1.95	12.70	15.70	21.77	15.10	4.98	8.55	2.15	3.15	1.65	1.65		
20	3.10	1.40	6.92	18.70	16.15	17.95	5.72	8.05	2.15	2.65	1.65	1.65		
21	2.15	2.85	8.75	12.70	16.30	19.60	4.98	8.05	2.15	2.65	1.65	1.65		
22	2.15	2.75	4.22	13.15	25.62	17.95	5.88	8.05	2.15	2.65	1.65	1.65		
23	2.15	2.00	2.65	12.70	38.48	15.10	8.45	8.05	2.15	2.15	1.65	1.65		
24	1.90	1.65	2.65	11.38	20.65	24.05	10.12	8.05	2.05	2.15	1.65	1.15		
25	1.65	1.65	2.65	16.90	15.70	38.48	9.05	8.05	2.05	2.15	1.65	1.15		
26	1.65	1.40	5.72	6.48	11.38	26.15	9.35	8.05	2.00	1.90	1.65	1.15		
27	1.40	1.20	14.05	49.75	20.20	25.98	8.55	8.05	2.00	1.90	1.65	1.15		
28	1.40	7.08	20.20	23.53	21.95	18.70	5.20	7.60	1.95	1.90	1.65	1.15		
29	1.15	5.05	5.72	25.10	24.58	21.10	4.75	7.37	1.95	1.90		1.15		
30	1.15	20.95	9.65	16.75	34.42	18.70	5.20	7.22	1.90	1.90		1.15		
31		12.25		16.45	43.20		4.98		1.90	1.90		1.15		
Total	54.18	131.43	296.24	434.44	713.07	760.30	297.97	328.21	108.45	92.82	48.30	54.65	3320.06	CMSDAY
Mean	1.81	4.24	9.87	14.01	23.00	25.34	9.61	10.94	3.50	2.99	1.73	1.76	9.10	CMS
Max	3.10	20.95	53.50	49.75	64.18	65.82	23.53	21.77	4.98	5.72	1.90	3.40	65.82	CMS
Min	0.83	1.20	1.65	2.45	4.07	15.10	4.22	6.48	1.90	1.90	1.65	1.15	0.83	CMS
Runoff	4.68	11.36	25.60	37.54	61.61	65.69	25.75	28.36	9.37	8.02	4.17	4.72	286.85	MCM

Momentary Peak 82.97 CMS. at 144.13 m. (MSL.) at 18.00 Hours , on Aug 17 , 2014

Runoff Yield 8.77 Liters/Second/Square KM. Momentary Peak Yield 80.010 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

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

Lat 16 - 25 - 16 N Long 101 - 10 - 08 E

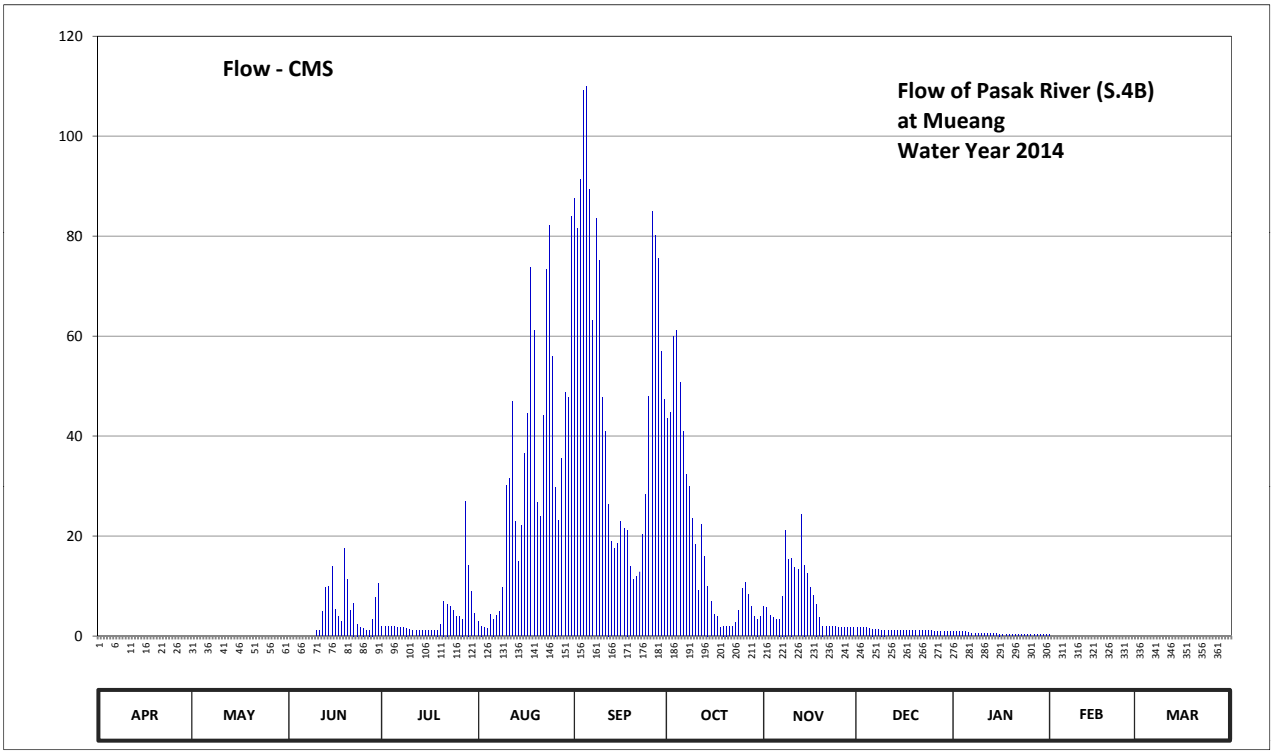
Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	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 mean of 5 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.21	109.21	109.46	110.18	110.32	114.04	112.63	110.67	110.14	110.00	109.81	109.27	
2	109.21	109.21	109.46	110.18	110.20	113.87	112.68	110.64	110.14	110.00	109.48	109.26	
3	109.21	109.21	109.46	110.17	110.14	114.14	113.21	110.48	110.14	109.99	109.47	109.25	
4	109.21	109.21	109.45	110.17	110.10	114.58	113.25	110.42	110.13	109.99	109.47	109.24	
5	109.20	109.21	109.45	110.17	110.50	114.60	112.90	110.38	110.10	109.97	109.46	109.23	
6	109.20	109.21	109.47	110.16	110.39	114.09	112.53	110.39	110.08	109.93	109.44	109.22	
7	109.20	109.22	109.46	110.16	110.49	113.31	112.18	110.84	110.06	109.91	109.44	109.22	
8	109.19	109.22	109.46	110.14	110.56	113.93	112.09	111.67	110.05	109.89	109.43	109.25	
9	109.19	109.22	109.46	110.12	110.98	113.69	111.79	111.33	110.04	109.88	109.42	109.26	
10	109.19	109.22	110.03	110.06	112.10	112.79	111.50	111.35	110.04	109.88	109.41	109.27	
11	109.21	109.22	110.02	110.03	112.15	112.53	110.93	111.24	110.03	109.89	109.41	109.27	
12	109.22	109.34	110.56	110.03	112.76	111.93	111.73	111.22	110.03	109.88	109.40	109.27	
13	109.24	109.51	110.98	110.02	111.76	111.54	111.37	111.83	110.03	109.87	109.40	109.27	
14	109.25	109.46	110.99	110.03	111.31	111.46	111.00	111.27	110.02	109.87	109.40	109.26	
15	109.23	109.42	111.25	110.03	111.72	111.52	110.75	111.17	110.02	109.87	109.40	109.26	
16	109.23	109.45	110.61	110.03	112.35	111.76	110.50	110.97	110.02	109.86	109.39	109.26	
17	109.23	109.46	110.45	110.03	112.67	111.69	110.46	110.85	110.02	109.85	109.39	109.26	
18	109.22	109.46	110.32	110.03	113.65	111.67	110.14	110.71	110.02	109.85	109.39	109.26	
19	109.22	109.47	111.46	110.04	113.25	111.25	110.20	110.42	110.02	109.84	109.39	109.26	
20	109.22	109.45	111.09	110.24	111.94	111.09	110.20	110.20	110.01	109.83	109.39	109.25	
21	109.24	109.44	110.58	110.76	111.81	111.13	110.17	110.19	110.01	109.83	109.38	109.25	
22	109.24	109.45	110.73	110.71	112.66	111.19	110.17	110.18	110.01	109.83	109.38	109.25	
23	109.24	109.45	110.25	110.66	113.64	111.62	110.29	110.17	110.01	109.83	109.38	109.25	
24	109.23	109.45	110.15	110.59	113.89	112.01	110.59	110.17	110.01	109.83	109.38	109.25	
25	109.22	109.45	110.12	110.45	113.07	112.80	110.96	110.16	110.01	109.82	109.37	109.25	
26	109.22	109.46	110.02	110.45	112.08	113.97	111.05	110.16	110.00	109.82	109.37	109.26	
27	109.22	109.44	110.04	110.39	111.77	113.83	110.86	110.16	110.00	109.82	109.37	109.26	
28	109.22	109.45	110.39	111.95	112.31	113.70	110.66	110.15	110.00	109.82	109.37	109.26	
29	109.22	109.45	110.82	111.27	112.83	113.11	110.45	110.15	110.00	109.82		109.26	
30	109.22	109.45	111.04	110.91	112.79	112.78	110.39	110.15	110.00	109.82		109.25	
31		109.46		110.52	113.94		110.46		109.98	109.81		109.24	
Mean	109.22	109.37	110.23	110.34	111.94	112.72	111.23	110.66	110.04	109.87	109.42	109.25	
Max	109.25	109.51	111.46	111.95	113.94	114.60	113.25	111.83	110.14	110.00	109.81	109.27	114.60
Min	109.19	109.21	109.45	110.02	110.10	111.09	110.14	110.15	109.98	109.81	109.37	109.22	109.19

Annual Max Momentary Gage Height	114.75	m. (MSL.) ,	at 18.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	106.50	m. (MSL.) ,	River Bed	109.35	m. (MSL.)
Left Bank Elevation	116.77	m. (MSL.) ,			
Right Bank Elevation	116.77	m. (MSL.) ,	Drainage Area	3459	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.90	2.90	87.50	43.50	5.95	1.70	1.00	0.27	0.00		
2	0.00	0.00	0.00	1.90	2.00	81.45	44.75	5.65	1.70	1.00	0.00	0.00		
3	0.00	0.00	0.00	1.85	1.70	91.35	60.05	4.10	1.70	0.95	0.00	0.00		
4	0.00	0.00	0.00	1.85	1.50	109.15	61.25	3.65	1.65	0.95	0.00	0.00		
5	0.00	0.00	0.00	1.85	4.25	110.00	50.75	3.35	1.50	0.85	0.00	0.00		
6	0.00	0.00	0.00	1.80	3.43	89.37	41.00	3.43	1.40	0.65	0.00	0.00		
7	0.00	0.00	0.00	1.80	4.17	63.05	32.25	8.00	1.30	0.55	0.00	0.00		
8	0.00	0.00	0.00	1.70	4.85	83.55	30.02	21.23	1.25	0.47	0.00	0.00		
9	0.00	0.00	0.00	1.60	9.75	75.15	23.55	15.28	1.20	0.45	0.00	0.00		
10	0.00	0.00	1.15	1.30	30.25	47.73	18.25	15.63	1.20	0.45	0.00	0.00		
11	0.00	0.00	1.10	1.15	31.50	41.00	9.13	13.70	1.15	0.47	0.00	0.00		
12	0.00	0.00	4.85	1.15	46.90	26.42	22.35	13.35	1.15	0.45	0.00	0.00		
13	0.00	0.00	9.75	1.10	22.95	18.95	15.98	24.35	1.15	0.43	0.00	0.00		
14	0.00	0.00	9.87	1.15	14.93	17.55	10.00	14.22	1.10	0.43	0.00	0.00		
15	0.00	0.00	13.88	1.15	22.15	18.60	6.88	12.55	1.10	0.43	0.00	0.00		
16	0.00	0.00	5.35	1.15	36.50	22.95	4.25	9.63	1.10	0.40	0.00	0.00		
17	0.00	0.00	3.87	1.15	44.50	21.58	3.95	8.13	1.10	0.37	0.00	0.00		
18	0.00	0.00	2.90	1.15	73.75	21.23	1.70	6.38	1.10	0.37	0.00	0.00		
19	0.00	0.00	17.55	1.20	61.25	13.88	2.00	3.65	1.10	0.35	0.00	0.00		
20	0.00	0.00	11.35	2.30	26.65	11.35	2.00	2.00	1.05	0.32	0.00	0.00		
21	0.00	0.00	5.05	7.00	23.95	11.95	1.85	1.95	1.05	0.32	0.00	0.00		
22	0.00	0.00	6.63	6.38	44.25	12.85	1.85	1.90	1.05	0.32	0.00	0.00		
23	0.00	0.00	2.38	5.85	73.40	20.35	2.68	1.85	1.05	0.32	0.00	0.00		
24	0.00	0.00	1.75	5.15	82.15	28.23	5.15	1.85	1.05	0.32	0.00	0.00		
25	0.00	0.00	1.60	3.87	55.85	48.00	9.50	1.80	1.05	0.30	0.00	0.00		
26	0.00	0.00	1.10	3.87	29.80	84.95	10.75	1.80	1.00	0.30	0.00	0.00		
27	0.00	0.00	1.20	3.43	23.15	80.05	8.25	1.80	1.00	0.30	0.00	0.00		
28	0.00	0.00	3.43	26.87	35.50	75.50	5.85	1.75	1.00	0.30	0.00	0.00		
29	0.00	0.00	7.75	14.22	48.83	57.05	3.87	1.75	1.00	0.30		0.00		
30	0.00	0.00	10.60	8.88	47.73	47.45	3.43	1.75	1.00	0.30		0.00		
31		0.00		4.45	83.90		3.95		0.90	0.27		0.00		
Total	0.00	0.00	123.11	120.17	994.39	1518.19	540.74	212.43	36.85	14.69	0.27	0.00	3560.84	CMSDAY
Mean	0.00	0.00	4.10	3.88	32.08	50.61	17.44	7.08	1.19	0.47	0.01	0.00	9.76	CMS
Max	0.00	0.00	17.55	26.87	83.90	110.00	61.25	24.35	1.70	1.00	0.27	0.00	110.00	CMS
Min	0.00	0.00	0.00	1.10	1.50	11.35	1.70	1.75	0.90	0.27	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	10.64	10.38	85.92	131.17	46.72	18.35	3.18	1.27	0.02	0.00	307.66	MCM

Momentary Peak 116.38 CMS. at 114.75 m. (MSL.) at 18.00 Hours , on Sep 4 , 2014

Runoff Yield 2.82 Liters/Second/Square KM. Momentary Peak Yield 33.646 Liters/Second/Square KM.

WATER YEAR : 2014

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

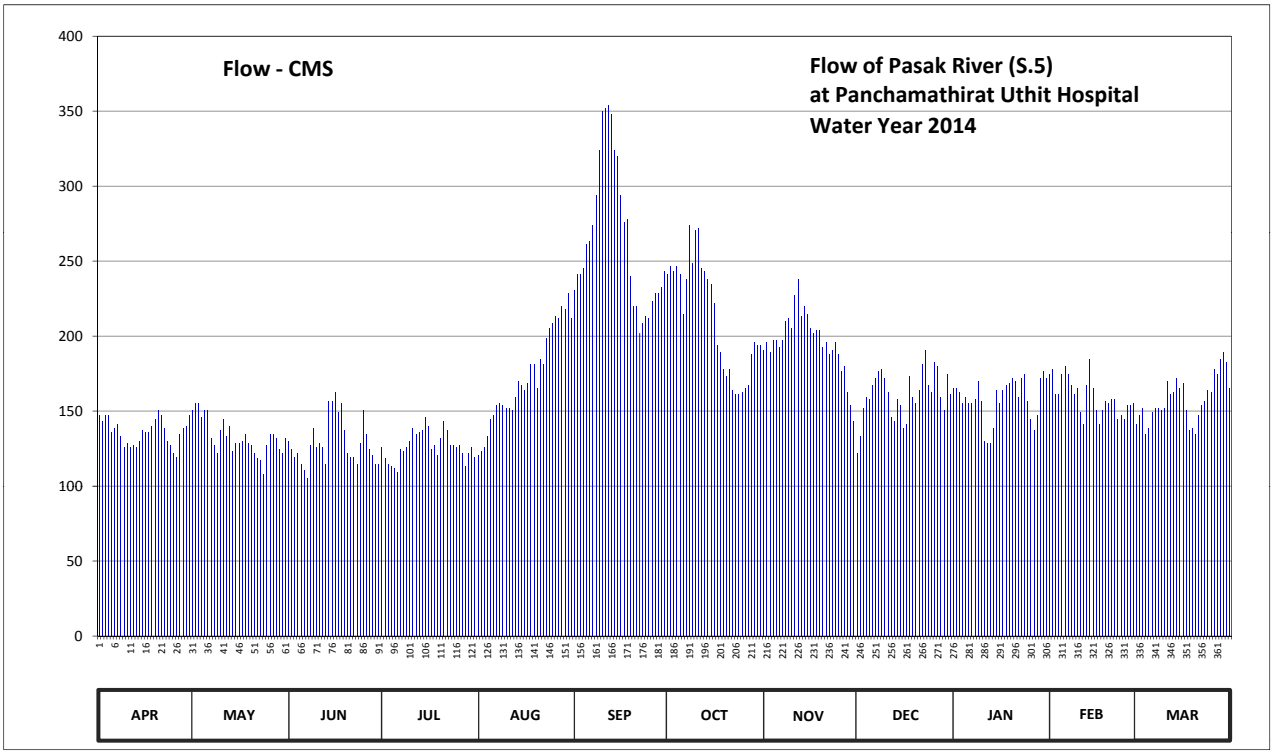
Location : on right bank at the bridge.

	Ban Panchamathirat	**Amphoe** Phra Nakhon Si Ayutthaya	**Changwat** Phra Nakhon Si Ayutthaya
Drainge Area	15,830 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the gage site.	**Elevation**	+7.220 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.67	0.53	0.50	0.46	1.17	1.23	0.93	0.47	0.77	0.83	0.61	
2	0.62	0.70	0.49	0.44	0.48	1.23	1.26	0.96	0.55	0.77	0.85	0.65	
3	0.65	0.70	0.45	0.41	0.50	1.23	1.24	0.92	0.68	0.75	0.74	0.68	
4	0.65	0.64	0.47	0.40	0.55	1.25	1.26	0.97	0.73	0.70	0.74	0.56	
5	0.57	0.67	0.41	0.39	0.63	1.34	1.23	0.97	0.72	0.73	0.83	0.59	
6	0.59	0.67	0.38	0.37	0.65	1.35	1.08	0.94	0.78	0.70	0.86	0.66	
7	0.61	0.54	0.34	0.49	0.69	1.41	1.21	0.97	0.81	0.70	0.83	0.68	
8	0.55	0.51	0.51	0.48	0.70	1.52	1.41	1.05	0.84	0.72	0.78	0.68	
9	0.50	0.47	0.59	0.50	0.69	1.67	1.27	1.06	0.85	0.80	0.74	0.67	
10	0.52	0.58	0.50	0.53	0.68	1.80	1.39	1.02	0.81	0.71	0.77	0.68	
11	0.50	0.63	0.52	0.59	0.68	1.81	1.40	1.15	0.75	0.53	0.66	0.80	
12	0.51	0.55	0.50	0.56	0.67	1.82	1.25	1.21	0.64	0.52	0.61	0.74	
13	0.50	0.60	0.41	0.57	0.73	1.79	1.24	1.07	0.62	0.52	0.78	0.75	
14	0.53	0.48	0.71	0.58	0.80	1.67	1.21	1.11	0.72	0.59	0.89	0.81	
15	0.58	0.52	0.71	0.64	0.78	1.65	1.19	1.08	0.69	0.76	0.77	0.77	
16	0.57	0.52	0.75	0.60	0.76	1.52	1.12	1.02	0.59	0.70	0.67	0.79	
17	0.57	0.53	0.66	0.49	0.79	1.42	0.95	1.00	0.61	0.76	0.61	0.67	
18	0.60	0.56	0.70	0.51	0.87	1.43	0.92	1.01	0.82	0.78	0.67	0.58	
19	0.63	0.52	0.58	0.46	0.87	1.22	0.85	1.01	0.73	0.79	0.71	0.59	
20	0.67	0.51	0.47	0.54	0.77	1.11	0.82	0.94	0.70	0.81	0.70	0.56	
21	0.65	0.47	0.45	0.62	0.89	1.11	0.85	0.96	0.76	0.80	0.72	0.65	
22	0.59	0.44	0.45	0.58	0.87	1.00	0.76	0.91	0.87	0.73	0.72	0.69	
23	0.53	0.43	0.41	0.51	0.98	1.04	0.74	0.93	0.93	0.81	0.63	0.71	
24	0.51	0.36	0.52	0.51	1.02	1.07	0.74	0.96	0.78	0.83	0.65	0.76	
25	0.47	0.51	0.67	0.50	1.04	1.06	0.75	0.91	0.75	0.71	0.63	0.75	
26	0.45	0.56	0.56	0.51	1.07	1.13	0.77	0.84	0.88	0.63	0.69	0.85	
27	0.56	0.56	0.49	0.47	1.06	1.16	0.78	0.86	0.86	0.58	0.69	0.83	
28	0.59	0.54	0.46	0.40	1.11	1.16	0.91	0.75	0.73	0.65	0.70	0.89	
29	0.60	0.49	0.41	0.47	1.10	1.18	0.96	0.69	0.67	0.81		0.92	
30	0.65	0.47	0.41	0.50	1.16	1.24	0.95	0.62	0.83	0.84		0.88	
31		0.54		0.45	1.06		0.95		0.74	0.81		0.77	
Mean	0.57	0.55	0.52	0.50	0.81	1.35	1.05	0.96	0.74	0.72	0.73	0.72	
Max	0.67	0.70	0.75	0.64	1.16	1.82	1.41	1.21	0.93	0.84	0.89	0.92	1.82
Min	0.45	0.36	0.34	0.37	0.46	1.00	0.74	0.62	0.47	0.52	0.61	0.56	0.34

Annual Max Momentary Gage Height	2.10	m. (MSL.) ,	at 24.00 Hours , on Sep 12 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-9.00	m. (MSL.)
Left Bank Elevation	5.67	m. (MSL.) ,			
Right Bank Elevation	7.22	m. (MSL.) ,	Drainage Area	15830	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	147.50	150.50	130.20	126.00	120.80	230.60	241.40	190.80	122.10	165.50	174.80	141.50		
2	143.00	155.00	124.70	118.20	123.40	241.40	246.80	195.60	133.00	165.50	178.00	147.50		
3	147.50	155.00	119.50	114.30	126.00	241.40	243.20	189.20	152.00	162.50	161.00	152.00		
4	147.50	146.00	122.10	113.00	133.00	245.00	246.80	197.20	159.50	155.00	161.00	134.40		
5	135.80	150.50	114.30	111.70	144.50	261.20	241.40	197.20	158.00	159.50	174.80	138.60		
6	138.60	150.50	110.40	109.10	147.50	263.00	214.80	192.40	167.00	155.00	179.60	149.00		
7	141.50	131.60	105.20	124.70	153.50	273.80	237.80	197.20	171.60	155.00	174.80	152.00		
8	133.00	127.40	127.40	123.40	155.00	294.00	273.80	210.00	176.40	158.00	167.00	152.00		
9	126.00	122.10	138.60	126.00	153.50	324.00	248.60	211.60	178.00	170.00	161.00	150.50		
10	128.80	137.20	126.00	130.20	152.00	350.00	270.20	205.20	171.60	156.50	165.50	152.00		
11	126.00	144.50	128.80	138.60	152.00	352.00	272.00	227.00	162.50	130.20	149.00	170.00		
12	127.40	133.00	126.00	134.40	150.50	354.00	245.00	237.80	146.00	128.80	141.50	161.00		
13	126.00	140.00	114.30	135.80	159.50	348.00	243.20	213.20	143.00	128.80	167.00	162.50		
14	130.20	123.40	156.50	137.20	170.00	324.00	237.80	219.80	158.00	138.60	184.40	171.60		
15	137.20	128.80	156.50	146.00	167.00	320.00	234.20	214.80	153.50	164.00	165.50	165.50		
16	135.80	128.80	162.50	140.00	164.00	294.00	221.60	205.20	138.60	155.00	150.50	168.50		
17	135.80	130.20	149.00	124.70	168.50	275.60	194.00	202.00	141.50	164.00	141.50	150.50		
18	140.00	134.40	155.00	127.40	181.20	277.40	189.20	203.60	173.20	167.00	150.50	137.20		
19	144.50	128.80	137.20	120.80	181.20	239.60	178.00	203.60	159.50	168.50	156.50	138.60		
20	150.50	127.40	122.10	131.60	165.50	219.80	173.20	192.40	155.00	171.60	155.00	134.40		
21	147.50	122.10	119.50	143.00	184.40	219.80	178.00	195.60	164.00	170.00	158.00	147.50		
22	138.60	118.20	119.50	137.20	181.20	202.00	164.00	187.60	181.20	159.50	158.00	153.50		
23	130.20	116.90	114.30	127.40	198.80	208.40	161.00	190.80	190.80	171.60	144.50	156.50		
24	127.40	107.80	128.80	127.40	205.20	213.20	161.00	195.60	167.00	174.80	147.50	164.00		
25	122.10	127.40	150.50	126.00	208.40	211.60	162.50	187.60	162.50	156.50	144.50	162.50		
26	119.50	134.40	134.40	127.40	213.20	223.40	165.50	176.40	182.80	144.50	153.50	178.00		
27	134.40	134.40	124.70	122.10	211.60	228.80	167.00	179.60	179.60	137.20	153.50	174.80		
28	138.60	131.60	120.80	113.00	219.80	228.80	187.60	162.50	159.50	147.50	155.00	184.40		
29	140.00	124.70	114.30	122.10	218.00	232.40	195.60	153.50	150.50	171.60		189.20		
30	147.50	122.10	114.30	126.00	228.80	243.20	194.00	143.00	174.80	176.40		182.80		
31		131.60		119.50	211.60		194.00		161.00	171.60		165.50		
Total	4088.40	4116.30	3867.40	3924.20	5349.60	7940.40	6583.20	5878.00	4993.70	4900.20	4473.40	4888.00	61002.80	CMSDAY
Mean	136.28	132.78	128.91	126.59	172.57	264.68	212.36	195.93	161.09	158.07	159.76	157.68	167.13	CMS
Max	150.50	155.00	162.50	146.00	228.80	354.00	273.80	237.80	190.80	176.40	184.40	189.20	354.00	CMS
Min	119.50	107.80	105.20	109.10	120.80	202.00	161.00	143.00	122.10	128.80	141.50	134.40	105.20	CMS
Runoff	353.24	355.65	334.14	339.05	462.21	686.05	568.79	507.86	431.46	423.38	386.50	422.32	5270.64	MCM

Momentary Peak 414.00 CMS. at 2.10 m. (MSL.) at 24.00 Hours , on Sep 12 , 2014

Runoff Yield 10.56 Liters/Second/Square KM. Momentary Peak Yield 26.153 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

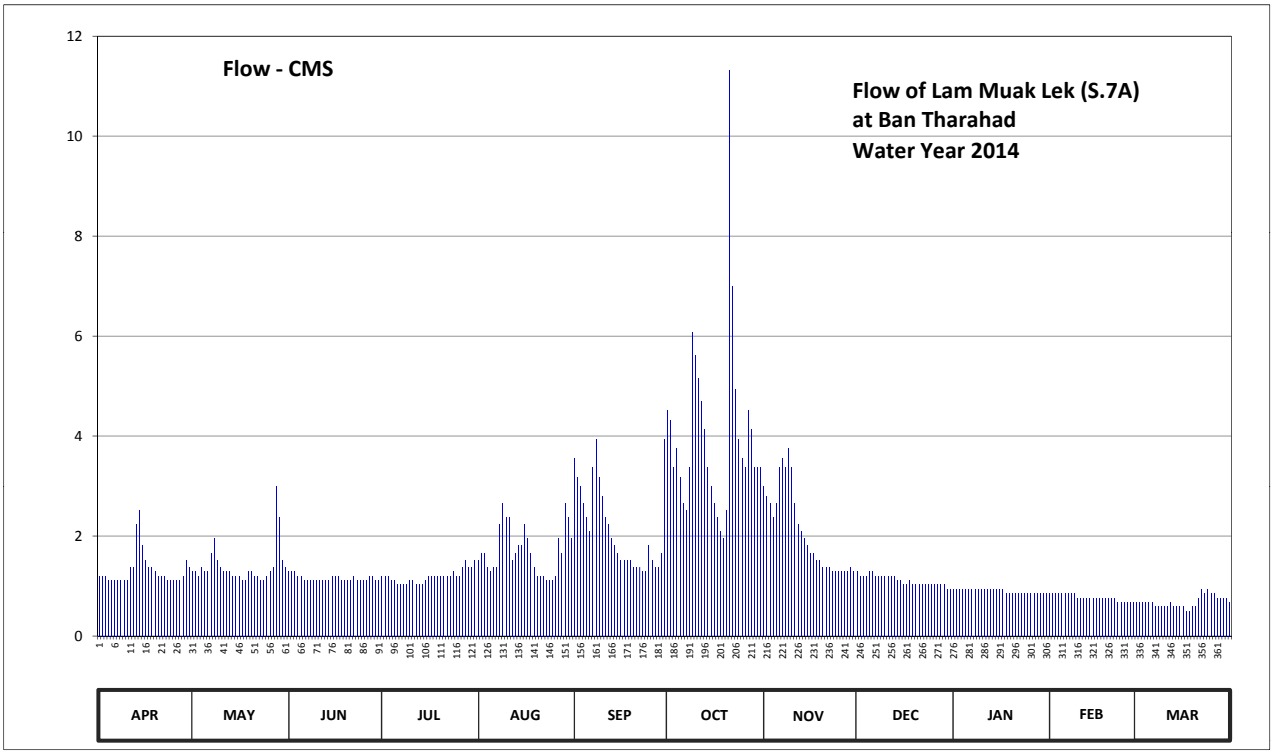
Location : on right bank at Ban Tharahad.

	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. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the bridge.		**Elevation** +52.984. (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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.08	42.09	42.09	42.08	42.11	42.24	42.29	42.21	42.09	42.05	42.04	42.02	
2	42.08	42.09	42.09	42.08	42.12	42.22	42.28	42.20	42.08	42.05	42.04	42.02	
3	42.08	42.08	42.09	42.08	42.12	42.21	42.23	42.19	42.08	42.05	42.04	42.02	
4	42.07	42.10	42.08	42.07	42.10	42.19	42.25	42.17	42.08	42.05	42.04	42.02	
5	42.07	42.09	42.08	42.07	42.09	42.17	42.22	42.19	42.09	42.05	42.04	42.02	
6	42.07	42.09	42.07	42.06	42.10	42.15	42.19	42.23	42.09	42.05	42.04	42.02	
7	42.07	42.12	42.07	42.06	42.10	42.23	42.18	42.24	42.08	42.05	42.04	42.01	
8	42.07	42.14	42.07	42.06	42.16	42.26	42.23	42.23	42.08	42.05	42.04	42.01	
9	42.07	42.11	42.07	42.06	42.19	42.22	42.36	42.25	42.08	42.05	42.04	42.01	
10	42.07	42.10	42.07	42.07	42.17	42.20	42.34	42.23	42.08	42.05	42.03	42.01	
11	42.10	42.09	42.07	42.07	42.17	42.17	42.32	42.19	42.08	42.05	42.03	42.01	
12	42.10	42.09	42.07	42.06	42.11	42.16	42.30	42.16	42.08	42.05	42.03	42.02	
13	42.16	42.09	42.07	42.06	42.12	42.14	42.27	42.15	42.08	42.05	42.03	42.01	
14	42.18	42.08	42.07	42.06	42.13	42.13	42.23	42.14	42.07	42.05	42.03	42.01	
15	42.13	42.08	42.08	42.07	42.13	42.12	42.21	42.13	42.07	42.05	42.03	42.01	
16	42.11	42.08	42.08	42.08	42.16	42.11	42.19	42.12	42.06	42.05	42.03	42.01	
17	42.10	42.07	42.08	42.08	42.14	42.11	42.17	42.12	42.06	42.05	42.03	42.00	
18	42.10	42.07	42.07	42.08	42.12	42.11	42.15	42.11	42.07	42.04	42.03	42.00	
19	42.09	42.09	42.07	42.08	42.10	42.11	42.14	42.11	42.06	42.04	42.03	42.01	
20	42.08	42.09	42.07	42.08	42.08	42.10	42.18	42.10	42.06	42.04	42.03	42.01	
21	42.08	42.08	42.07	42.08	42.08	42.10	42.55	42.10	42.06	42.04	42.03	42.03	
22	42.08	42.08	42.08	42.08	42.08	42.10	42.40	42.10	42.06	42.04	42.03	42.05	
23	42.07	42.07	42.07	42.08	42.07	42.09	42.31	42.09	42.06	42.04	42.02	42.04	
24	42.07	42.07	42.07	42.09	42.07	42.09	42.26	42.09	42.06	42.04	42.02	42.05	
25	42.07	42.08	42.07	42.08	42.07	42.13	42.24	42.09	42.06	42.04	42.02	42.04	
26	42.07	42.09	42.07	42.08	42.08	42.11	42.23	42.09	42.06	42.04	42.02	42.04	
27	42.07	42.10	42.08	42.10	42.14	42.10	42.29	42.09	42.06	42.04	42.02	42.03	
28	42.08	42.21	42.08	42.11	42.12	42.10	42.27	42.09	42.06	42.04	42.02	42.03	
29	42.11	42.17	42.07	42.10	42.19	42.12	42.23	42.10	42.06	42.04		42.03	
30	42.10	42.11	42.07	42.10	42.17	42.26	42.23	42.09	42.05	42.04		42.03	
31		42.10		42.11	42.14		42.23		42.05	42.04		42.02	
Mean	42.09	42.10	42.07	42.08	42.12	42.15	42.26	42.15	42.07	42.05	42.03	42.02	
Max	42.18	42.21	42.09	42.11	42.19	42.26	42.55	42.25	42.09	42.05	42.04	42.05	42.55
Min	42.07	42.07	42.07	42.06	42.07	42.09	42.14	42.09	42.05	42.04	42.02	42.00	42.00

Annual Max Momentary Gage Height	42.84	m. (MSL.) ,	at 01.00 Hours , on Oct 21 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	41.22	m. (MSL.)
Left Bank Elevation	52.79	m. (MSL.) ,			
Right Bank Elevation	52.94	m. (MSL.) ,	Drainage Area	580	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	1.29	1.29	1.20	1.52	3.56	4.51	2.99	1.29	0.94	0.85	0.68		
2	1.20	1.29	1.29	1.20	1.66	3.18	4.32	2.80	1.20	0.94	0.85	0.68		
3	1.20	1.20	1.29	1.20	1.66	2.99	3.37	2.66	1.20	0.94	0.85	0.68		
4	1.12	1.38	1.20	1.12	1.38	2.66	3.75	2.37	1.20	0.94	0.85	0.68		
5	1.12	1.29	1.20	1.12	1.29	2.37	3.18	2.66	1.29	0.94	0.85	0.68		
6	1.12	1.29	1.12	1.03	1.38	2.09	2.66	3.37	1.29	0.94	0.85	0.68		
7	1.12	1.66	1.12	1.03	1.38	3.37	2.52	3.56	1.20	0.94	0.85	0.59		
8	1.12	1.95	1.12	1.03	2.23	3.94	3.37	3.37	1.20	0.94	0.85	0.59		
9	1.12	1.52	1.12	1.03	2.66	3.18	6.08	3.75	1.20	0.94	0.85	0.59		
10	1.12	1.38	1.12	1.12	2.37	2.80	5.62	3.37	1.20	0.94	0.76	0.59		
11	1.38	1.29	1.12	1.12	2.37	2.37	5.16	2.66	1.20	0.94	0.76	0.59		
12	1.38	1.29	1.12	1.03	1.52	2.23	4.70	2.23	1.20	0.94	0.76	0.68		
13	2.23	1.29	1.12	1.03	1.66	1.95	4.13	2.09	1.20	0.94	0.76	0.59		
14	2.52	1.20	1.12	1.03	1.81	1.81	3.37	1.95	1.12	0.94	0.76	0.59		
15	1.81	1.20	1.20	1.12	1.81	1.66	2.99	1.81	1.12	0.94	0.76	0.59		
16	1.52	1.20	1.20	1.20	2.23	1.52	2.66	1.66	1.03	0.94	0.76	0.59		
17	1.38	1.12	1.20	1.20	1.95	1.52	2.37	1.66	1.03	0.94	0.76	0.50		
18	1.38	1.12	1.12	1.20	1.66	1.52	2.09	1.52	1.12	0.85	0.76	0.50		
19	1.29	1.29	1.12	1.20	1.38	1.52	1.95	1.52	1.03	0.85	0.76	0.59		
20	1.20	1.29	1.12	1.20	1.20	1.38	2.52	1.38	1.03	0.85	0.76	0.59		
21	1.20	1.20	1.12	1.20	1.20	1.38	11.32	1.38	1.03	0.85	0.76	0.76		
22	1.20	1.20	1.20	1.20	1.20	1.38	7.00	1.38	1.03	0.85	0.76	0.94		
23	1.12	1.12	1.12	1.20	1.12	1.29	4.93	1.29	1.03	0.85	0.68	0.85		
24	1.12	1.12	1.12	1.29	1.12	1.29	3.94	1.29	1.03	0.85	0.68	0.94		
25	1.12	1.20	1.12	1.20	1.12	1.81	3.56	1.29	1.03	0.85	0.68	0.85		
26	1.12	1.29	1.12	1.20	1.20	1.52	3.37	1.29	1.03	0.85	0.68	0.85		
27	1.12	1.38	1.20	1.38	1.95	1.38	4.51	1.29	1.03	0.85	0.68	0.76		
28	1.20	2.99	1.20	1.52	1.66	1.38	4.13	1.29	1.03	0.85	0.68	0.76		
29	1.52	2.37	1.12	1.38	2.66	1.66	3.37	1.38	1.03	0.85		0.76		
30	1.38	1.52	1.12	1.38	2.37	3.94	3.37	1.29	0.94	0.85		0.76		
31		1.38		1.52	1.95		3.37		0.94	0.85		0.68		
Total	39.63	43.31	34.75	36.88	52.67	64.65	124.19	62.55	34.50	27.88	21.61	21.16	563.78	CMSDAY
Mean	1.32	1.40	1.16	1.19	1.70	2.16	4.01	2.09	1.11	0.90	0.77	0.68	1.54	CMS
Max	2.52	2.99	1.29	1.52	2.66	3.94	11.32	3.75	1.29	0.94	0.85	0.94	11.32	CMS
Min	1.12	1.12	1.12	1.03	1.12	1.29	1.95	1.29	0.94	0.85	0.68	0.50	0.50	CMS
Runoff	3.42	3.74	3.00	3.19	4.55	5.59	10.73	5.40	2.98	2.41	1.87	1.83	48.71	MCM

Momentary Peak 21.35 CMS. at 42.84 m. (MSL.) at 01.00 Hours , on Oct 21 , 2014

Runoff Yield 2.66 Liters/Second/Square KM. Momentary Peak Yield 36.801 Liters/Second/Square KM.

WATER YEAR : 2014

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.

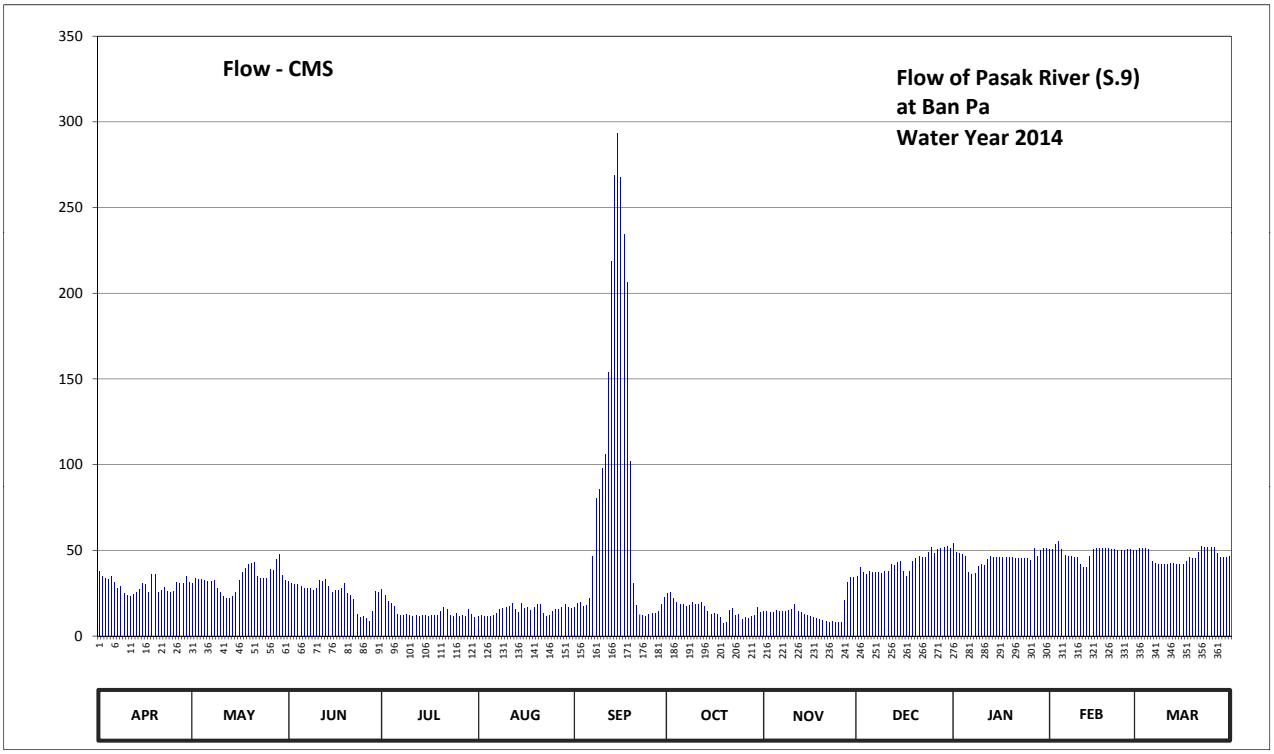
Ban Pa **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	14,233 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+0.000 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	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 Flot	-
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 59 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.20	9.07	9.09	8.99	8.60	8.75	8.94	8.69	9.15	9.48	9.42	9.41	
2	9.15	9.12	9.07	8.91	8.61	8.80	8.95	8.68	9.24	9.39	9.42	9.43	
3	9.12	9.11	9.05	8.83	8.60	8.82	8.88	8.67	9.19	9.38	9.47	9.43	
4	9.11	9.11	9.05	8.80	8.60	8.76	8.82	8.67	9.17	9.37	9.50	9.43	
5	9.15	9.10	9.03	8.76	8.59	8.77	8.79	8.70	9.20	9.35	9.42	9.42	
6	9.08	9.09	9.01	8.63	8.61	8.87	8.78	8.69	9.19	9.19	9.36	9.30	
7	9.01	9.09	9.01	8.62	8.65	9.35	8.76	8.69	9.19	9.17	9.35	9.28	
8	9.03	9.10	9.01	8.62	8.71	9.87	8.77	8.69	9.19	9.18	9.35	9.27	
9	8.94	9.01	8.98	8.63	8.73	9.94	8.81	8.70	9.18	9.25	9.34	9.27	
10	8.91	8.95	9.01	8.61	8.74	10.09	8.79	8.71	9.20	9.27	9.34	9.27	
11	8.90	8.90	9.10	8.59	8.76	10.19	8.79	8.78	9.20	9.26	9.27	9.27	
12	8.93	8.88	9.09	8.61	8.80	10.70	8.82	8.69	9.27	9.32	9.24	9.28	
13	8.95	8.88	9.11	8.60	8.72	11.27	8.76	8.66	9.26	9.35	9.24	9.28	
14	8.99	8.90	9.03	8.61	8.67	11.67	8.68	8.64	9.29	9.34	9.35	9.27	
15	9.07	8.96	8.95	8.61	8.80	11.86	8.64	8.61	9.30	9.34	9.42	9.27	
16	9.05	9.10	8.98	8.60	8.73	11.66	8.65	8.59	9.20	9.34	9.43	9.27	
17	8.95	9.19	8.98	8.61	8.75	11.40	8.63	8.58	9.15	9.34	9.43	9.30	
18	9.17	9.23	9.01	8.61	8.70	11.17	8.57	8.56	9.20	9.34	9.43	9.34	
19	9.17	9.27	9.07	8.62	8.75	10.14	8.45	8.54	9.30	9.34	9.43	9.33	
20	8.95	9.28	8.94	8.68	8.78	9.07	8.48	8.52	9.33	9.34	9.43	9.33	
21	8.98	9.29	8.91	8.74	8.79	8.77	8.70	8.50	9.35	9.33	9.42	9.39	
22	9.02	9.15	8.86	8.71	8.65	8.63	8.73	8.48	9.34	9.33	9.42	9.45	
23	8.97	9.12	8.64	8.61	8.59	8.61	8.61	8.49	9.34	9.33	9.41	9.44	
24	8.96	9.12	8.58	8.60	8.62	8.59	8.63	8.48	9.39	9.33	9.41	9.44	
25	8.97	9.12	8.60	8.65	8.68	8.63	8.55	8.48	9.44	9.33	9.41	9.44	
26	9.08	9.22	8.56	8.60	8.71	8.65	8.57	8.47	9.38	9.31	9.42	9.44	
27	9.07	9.21	8.50	8.61	8.72	8.65	8.56	8.85	9.42	9.43	9.42	9.38	
28	9.07	9.32	8.69	8.60	8.74	8.68	8.60	9.08	9.43	9.35	9.41	9.34	
29	9.15	9.37	8.97	8.71	8.78	8.78	8.62	9.13	9.44	9.41		9.34	
30	9.08	9.16	8.95	8.63	8.75	8.89	8.74	9.13	9.45	9.43		9.34	
31		9.10		8.58	8.73		8.67		9.43	9.43		9.35	
Mean	9.04	9.11	8.93	8.66	8.70	9.60	8.70	8.67	9.28	9.33	9.39	9.35	
Max	9.20	9.37	9.11	8.99	8.80	11.86	8.95	9.13	9.45	9.48	9.50	9.45	11.86
Min	8.90	8.88	8.50	8.58	8.59	8.59	8.45	8.47	9.15	9.17	9.24	9.27	8.45

Annual Max Momentary Gage Height	11.91	m. (MSL.) ,	at 09.00 Hours , on Sep 15 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	5.53	m. (MSL.)
Left Bank Elevation	23.10	m. (MSL.) ,			
Right Bank Elevation	22.57	m. (MSL.) ,	Drainage Area	14233	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	37.50	31.00	32.00	27.05	11.50	17.00	24.80	14.65	35.00	53.85	50.40	49.82		
2	35.00	33.50	31.00	23.45	11.85	19.00	25.25	14.30	39.90	48.68	50.40	50.98		
3	33.50	33.00	30.00	20.20	11.50	19.80	22.20	13.95	37.00	48.10	53.28	50.98		
4	33.00	33.00	30.00	19.00	11.50	17.40	19.80	13.95	36.00	47.52	55.00	50.98		
5	35.00	32.50	29.00	17.40	11.20	17.80	18.60	15.00	37.50	46.38	50.40	50.40		
6	31.50	32.00	28.00	12.55	11.85	21.80	18.20	14.65	37.00	37.00	46.95	43.50		
7	28.00	32.00	28.00	12.20	13.25	46.38	17.40	14.65	37.00	36.00	46.38	42.30		
8	29.00	32.50	28.00	12.20	15.40	80.25	17.80	14.65	37.00	36.50	46.38	41.70		
9	24.80	28.00	26.60	12.55	16.20	85.70	19.40	15.00	36.50	40.50	45.80	41.70		
10	23.45	25.25	28.00	11.85	16.60	97.93	18.60	15.40	37.50	41.70	45.80	41.70		
11	23.00	23.00	32.50	11.20	17.40	106.17	18.60	18.20	37.50	41.10	41.70	41.70		
12	24.35	22.20	32.00	11.85	19.00	154.00	19.80	14.65	41.70	44.65	39.90	42.30		
13	25.25	22.20	33.00	11.50	15.80	218.68	17.40	13.60	41.10	46.38	39.90	42.30		
14	27.05	23.00	29.00	11.85	13.95	268.60	14.30	12.90	42.90	45.80	46.38	41.70		
15	31.00	25.70	25.25	11.85	19.00	293.30	12.90	11.85	43.50	45.80	50.40	41.70		
16	30.00	32.50	26.60	11.50	16.20	267.30	13.25	11.20	37.50	45.80	50.98	41.70		
17	25.25	37.00	26.60	11.85	17.00	234.50	12.55	10.90	35.00	45.80	50.98	43.50		
18	36.00	39.30	28.00	11.85	15.00	206.52	10.60	10.30	37.50	45.80	50.98	45.80		
19	36.00	41.70	31.00	12.20	17.00	102.05	7.25	9.70	43.50	45.80	50.98	45.22		
20	25.25	42.30	24.80	14.30	18.20	31.00	8.00	9.10	45.22	45.80	50.98	45.22		
21	26.60	42.90	23.45	16.60	18.60	17.80	15.00	8.50	46.38	45.22	50.40	48.68		
22	28.50	35.00	21.40	15.40	13.25	12.55	16.20	8.00	45.80	45.22	50.40	52.12		
23	26.15	33.50	12.90	11.85	11.20	11.85	11.85	8.25	45.80	45.22	49.82	51.55		
24	25.70	33.50	10.90	11.50	12.20	11.20	12.55	8.00	48.68	45.22	49.82	51.55		
25	26.15	33.50	11.50	13.25	14.30	12.55	10.00	8.00	51.55	45.22	49.82	51.55		
26	31.50	38.70	10.30	11.50	15.40	13.25	10.60	7.75	48.10	44.08	50.40	51.55		
27	31.00	38.10	8.50	11.85	15.80	13.25	10.30	21.00	50.40	50.98	50.40	48.10		
28	31.00	44.65	14.65	11.50	16.60	14.30	11.50	31.50	50.98	46.38	49.82	45.80		
29	35.00	47.52	26.15	15.40	18.20	18.20	12.20	34.00	51.55	49.82		45.80		
30	31.50	35.50	25.25	12.55	17.00	22.60	16.60	34.00	52.12	50.98		45.80		
31		32.50		10.90	16.20		13.95		50.98	50.98		46.38		
Total	887.00	1037.02	744.35	430.70	468.15	2452.73	477.45	437.60	1318.16	1408.28	1364.85	1434.08	12460.37	CMSDAY
Mean	29.57	33.45	24.81	13.89	15.10	81.76	15.40	14.59	42.52	45.43	48.74	46.26	34.14	CMS
Max	37.50	47.52	33.00	27.05	19.00	293.30	25.25	34.00	52.12	53.85	55.00	52.12	293.30	CMS
Min	23.00	22.20	8.50	10.90	11.20	11.20	7.25	7.75	35.00	36.00	39.90	41.70	7.25	CMS
Runoff	76.64	89.60	64.31	37.21	40.45	211.92	41.25	37.81	113.89	121.68	117.92	123.91	1076.58	MCM

Momentary Peak 299.80 CMS. at 11.91 m. (MSL.) at 09.00 Hours , on Sep 15 , 2014

Runoff Yield 2.40 Liters/Second/Square KM. Momentary Peak Yield 21.064 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

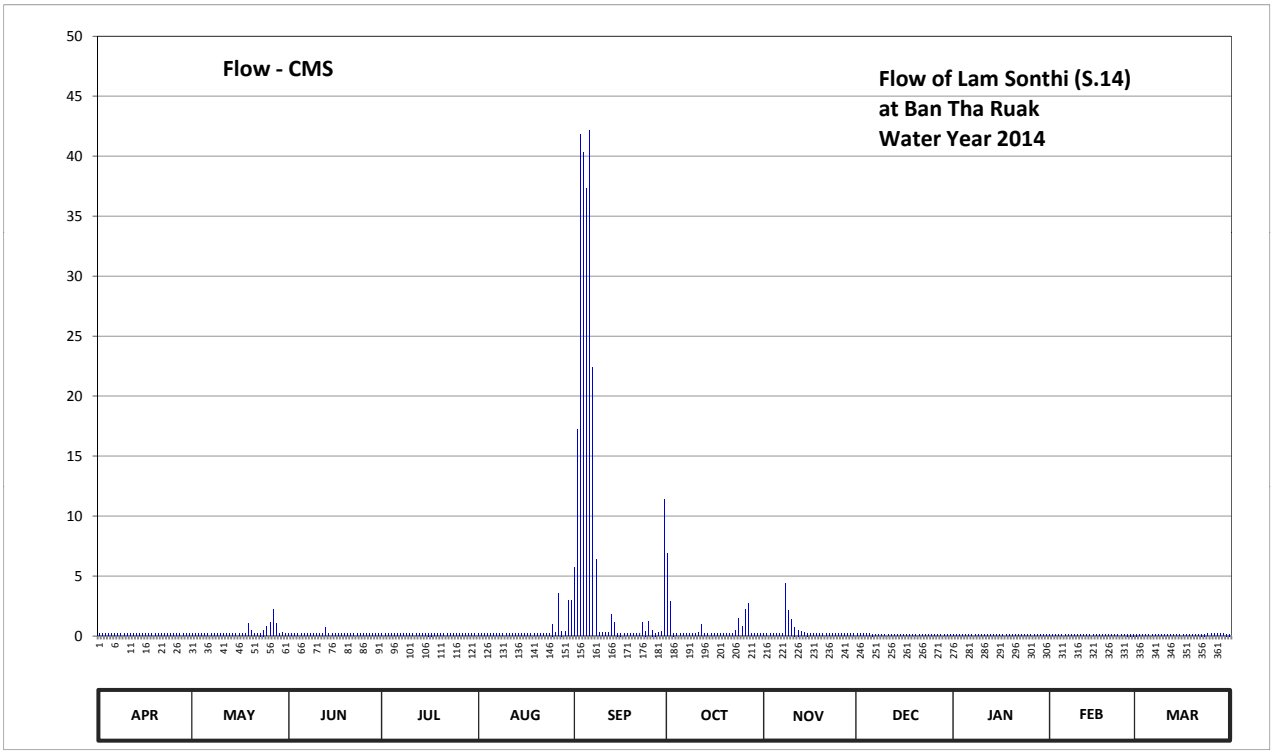
Location : on right bank at the bridge.

	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	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		**Elevation** +63.824 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.00	54.00	54.01	54.01	54.03	55.74	55.93	53.99	53.99	53.94	53.94	53.97	
2	54.00	54.00	54.01	53.99	54.03	57.24	55.14	53.99	53.99	53.94	53.94	53.96	
3	54.00	54.00	54.00	53.99	54.03	59.38	54.05	53.98	53.98	53.94	53.94	53.96	
4	54.00	54.00	54.00	53.99	54.03	59.27	54.04	53.98	53.98	53.94	53.94	53.96	
5	54.00	54.00	53.99	53.99	54.03	59.04	54.03	54.00	53.98	53.94	53.94	53.95	
6	54.00	54.00	53.98	53.99	54.02	59.40	54.02	54.00	53.97	53.94	53.94	53.94	
7	54.00	54.00	53.98	54.00	54.02	57.76	54.02	54.00	53.96	53.94	53.94	53.94	
8	54.00	54.00	53.98	54.01	54.02	55.85	54.03	55.50	53.96	53.94	53.94	53.94	
9	54.00	54.00	53.98	54.02	54.02	54.09	54.03	54.95	53.96	53.94	53.94	53.94	
10	54.00	54.00	53.98	54.02	54.02	54.08	54.03	54.63	53.95	53.94	53.94	53.94	
11	54.00	54.01	53.98	54.03	54.02	54.07	54.11	54.33	53.95	53.94	53.94	53.94	
12	54.00	54.00	54.02	54.03	54.01	54.06	54.44	54.20	53.95	53.94	53.94	53.94	
13	54.00	54.00	54.32	54.03	54.01	54.83	54.03	54.12	53.95	53.94	53.94	53.95	
14	54.00	53.99	54.03	54.03	54.01	54.50	54.01	54.07	53.95	53.94	53.94	53.95	
15	54.00	53.99	54.02	54.03	54.01	54.05	54.00	54.05	53.94	53.95	53.94	53.95	
16	54.00	53.99	54.02	54.05	54.00	54.05	54.01	54.03	53.94	53.95	53.95	53.96	
17	54.00	53.99	54.02	54.05	54.00	54.04	54.01	54.01	53.94	53.95	53.95	53.96	
18	54.00	54.02	54.01	54.04	53.99	54.04	54.01	54.00	53.94	53.95	53.95	53.96	
19	54.00	54.47	54.00	54.04	54.00	54.03	54.01	54.00	53.94	53.95	53.95	53.96	
20	54.00	54.17	54.00	54.02	54.00	54.02	54.01	54.00	53.94	53.95	53.95	53.96	
21	54.00	54.00	54.00	54.00	54.00	54.03	54.00	54.00	53.94	53.95	53.96	53.96	
22	54.00	54.00	54.01	54.01	54.02	54.07	54.00	54.01	53.94	53.95	53.96	53.97	
23	54.00	54.05	54.00	54.03	54.03	54.53	54.17	54.01	53.94	53.95	53.96	53.97	
24	54.00	54.20	54.02	54.03	54.03	54.16	54.67	54.01	53.94	53.95	53.96	53.98	
25	54.00	54.35	54.02	54.03	54.45	54.56	54.35	54.02	53.94	53.95	53.96	53.98	
26	54.00	54.50	54.03	54.03	54.07	54.20	54.98	54.02	53.94	53.95	53.97	53.98	
27	54.00	54.98	54.02	54.03	55.31	54.05	55.11	54.02	53.94	53.94	53.97	53.98	
28	54.00	54.47	54.02	54.03	54.16	54.06	54.02	54.02	53.94	53.94	53.97	53.98	
29	54.00	54.02	54.03	54.03	54.13	54.12	53.99	54.02	53.94	53.94		53.98	
30	54.00	54.09	54.03	54.03	55.17	56.55	53.99	54.01	53.94	53.94		53.97	
31		54.01		54.03	55.17		53.99		53.94	53.94		53.97	
Mean	54.00	54.11	54.02	54.02	54.16	55.26	54.23	54.13	53.95	53.94	53.95	53.96	
Max	54.00	54.98	54.32	54.05	55.31	59.40	55.93	55.50	53.99	53.95	53.97	53.98	59.40
Min	54.00	53.99	53.98	53.99	53.99	54.02	53.99	53.98	53.94	53.94	53.94	53.94	53.94

Annual Max Momentary Gage Height	60.02	m. (MSL.) ,	at 18.00 Hours , on Sep 3 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	53.24	m. (MSL.)
Left Bank Elevation	63.82	m. (MSL.) ,			
Right Bank Elevation	63.84	m. (MSL.) ,	Drainage Area	1263	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.20	0.21	0.21	0.23	5.74	6.88	0.19	0.19	0.14	0.14	0.17		
2	0.20	0.20	0.21	0.19	0.23	17.26	2.86	0.19	0.19	0.14	0.14	0.16		
3	0.20	0.20	0.20	0.19	0.23	41.82	0.25	0.18	0.18	0.14	0.14	0.16		
4	0.20	0.20	0.20	0.19	0.23	40.31	0.24	0.18	0.18	0.14	0.14	0.16		
5	0.20	0.20	0.19	0.19	0.23	37.32	0.23	0.20	0.18	0.14	0.14	0.15		
6	0.20	0.20	0.18	0.19	0.22	42.10	0.22	0.20	0.17	0.14	0.14	0.14		
7	0.20	0.20	0.18	0.20	0.22	22.40	0.22	0.20	0.16	0.14	0.14	0.14		
8	0.20	0.20	0.18	0.21	0.22	6.40	0.23	4.40	0.16	0.14	0.14	0.14		
9	0.20	0.20	0.18	0.22	0.22	0.29	0.23	2.15	0.16	0.14	0.14	0.14		
10	0.20	0.20	0.18	0.22	0.22	0.28	0.23	1.36	0.15	0.14	0.14	0.14		
11	0.20	0.21	0.18	0.23	0.22	0.27	0.32	0.76	0.15	0.14	0.14	0.14		
12	0.20	0.20	0.22	0.23	0.21	0.26	0.98	0.50	0.15	0.14	0.14	0.14		
13	0.20	0.20	0.74	0.23	0.21	1.79	0.23	0.34	0.15	0.14	0.14	0.15		
14	0.20	0.19	0.23	0.23	0.21	1.10	0.21	0.27	0.15	0.14	0.14	0.15		
15	0.20	0.19	0.22	0.23	0.21	0.25	0.20	0.25	0.14	0.15	0.14	0.15		
16	0.20	0.19	0.22	0.25	0.20	0.25	0.21	0.23	0.14	0.15	0.15	0.16		
17	0.20	0.19	0.22	0.25	0.20	0.24	0.21	0.21	0.14	0.15	0.15	0.16		
18	0.20	0.22	0.21	0.24	0.19	0.24	0.21	0.20	0.14	0.15	0.15	0.16		
19	0.20	1.04	0.20	0.24	0.20	0.23	0.21	0.20	0.14	0.15	0.15	0.16		
20	0.20	0.44	0.20	0.22	0.20	0.22	0.21	0.20	0.14	0.15	0.15	0.16		
21	0.20	0.20	0.20	0.20	0.20	0.23	0.20	0.20	0.14	0.15	0.16	0.16		
22	0.20	0.20	0.21	0.21	0.22	0.27	0.20	0.21	0.14	0.15	0.16	0.17		
23	0.20	0.25	0.20	0.23	0.23	1.16	0.44	0.21	0.14	0.15	0.16	0.17		
24	0.20	0.50	0.22	0.23	0.23	0.42	1.44	0.21	0.14	0.15	0.16	0.18		
25	0.20	0.80	0.22	0.23	1.00	1.22	0.80	0.22	0.14	0.15	0.16	0.18		
26	0.20	1.10	0.23	0.23	0.27	0.50	2.24	0.22	0.14	0.15	0.17	0.18		
27	0.20	2.24	0.22	0.23	3.54	0.25	2.74	0.22	0.14	0.14	0.17	0.18		
28	0.20	1.04	0.22	0.23	0.42	0.26	0.22	0.22	0.14	0.14	0.17	0.18		
29	0.20	0.22	0.23	0.23	0.36	0.34	0.19	0.22	0.14	0.14		0.18		
30	0.20	0.29	0.23	0.23	2.98	11.40	0.19	0.21	0.14	0.14		0.17		
31		0.21		0.23	2.98		0.19		0.14	0.14		0.17		
Total	6.00	12.12	6.73	6.84	16.73	234.82	23.43	14.55	4.70	4.46	4.16	4.95	339.49	CMSDAY
Mean	0.20	0.39	0.22	0.22	0.54	7.83	0.76	0.49	0.15	0.14	0.15	0.16	0.93	CMS
Max	0.20	2.24	0.74	0.25	3.54	42.10	6.88	4.40	0.19	0.15	0.17	0.18	42.10	CMS
Min	0.20	0.19	0.18	0.19	0.19	0.22	0.19	0.18	0.14	0.14	0.14	0.14	0.14	CMS
Runoff	0.52	1.05	0.58	0.59	1.45	20.29	2.02	1.26	0.41	0.39	0.36	0.43	29.33	MCM

Momentary Peak 50.78 CMS. at 60.02 m. (MSL.) at 18.00 Hours , on Sep 3 , 2014

Runoff Yield 0.74 Liters/Second/Square KM. Momentary Peak Yield 40.206 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

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

Lat 14 - 33 - 22 N Long 100 - 43 - 38 E

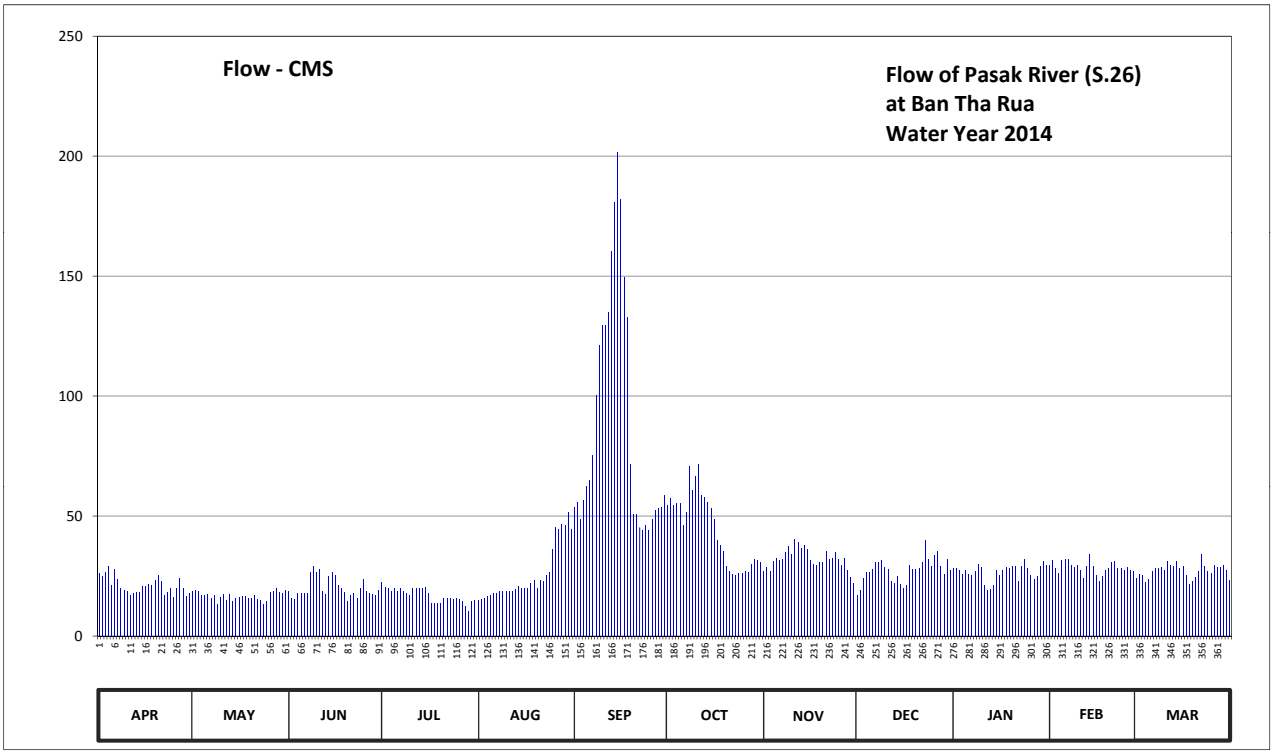
Location : on right bank at Ban Tha Rua

	Ban Tha Rua	**Amphoe** Tha Rua	**Changwat** Phra Nakhon Si Ayutthaya
Drainge Area	15,425 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage buiding		**Elevation** +7.860 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1998 , 2009 to date		
Rated by Flot	-		
Rated by Current Meter	1998, 2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Pasak Cholasit Dam.		
	Stage-discharge relation defined by 27 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.35	0.35	0.46	0.23	1.01	1.02	0.57	0.30	0.60	0.63	0.50	
2	0.52	0.37	0.25	0.41	0.24	1.04	1.06	0.61	0.37	0.60	0.67	0.54	
3	0.56	0.36	0.24	0.40	0.26	0.94	1.02	0.57	0.50	0.58	0.60	0.53	
4	0.62	0.29	0.33	0.36	0.28	1.05	1.03	0.66	0.56	0.54	0.55	0.46	
5	0.43	0.30	0.33	0.40	0.30	1.13	1.03	0.69	0.56	0.58	0.67	0.49	
6	0.59	0.31	0.33	0.35	0.32	1.16	0.90	0.67	0.59	0.54	0.68	0.57	
7	0.49	0.25	0.33	0.39	0.33	1.28	0.98	0.68	0.65	0.53	0.68	0.60	
8	0.40	0.29	0.56	0.35	0.35	1.56	1.23	0.73	0.65	0.57	0.63	0.60	
9	0.37	0.17	0.62	0.33	0.36	1.77	1.11	0.77	0.67	0.64	0.61	0.61	
10	0.35	0.27	0.56	0.30	0.35	1.85	1.18	0.72	0.61	0.61	0.63	0.58	
11	0.30	0.31	0.59	0.39	0.35	1.85	1.24	0.82	0.59	0.43	0.58	0.66	
12	0.33	0.23	0.35	0.39	0.35	1.90	1.08	0.80	0.47	0.37	0.50	0.63	
13	0.34	0.31	0.31	0.40	0.38	2.12	1.07	0.76	0.45	0.38	0.62	0.62	
14	0.34	0.21	0.52	0.40	0.42	2.29	1.04	0.78	0.52	0.43	0.72	0.66	
15	0.42	0.26	0.56	0.41	0.40	2.45	1.00	0.75	0.44	0.58	0.62	0.60	
16	0.42	0.27	0.53	0.33	0.39	2.30	0.94	0.67	0.40	0.53	0.53	0.62	
17	0.44	0.28	0.43	0.19	0.40	2.03	0.81	0.64	0.43	0.58	0.47	0.53	
18	0.43	0.28	0.40	0.18	0.45	1.88	0.78	0.63	0.63	0.61	0.52	0.44	
19	0.48	0.25	0.34	0.18	0.48	1.24	0.74	0.65	0.59	0.60	0.58	0.47	
20	0.53	0.25	0.22	0.19	0.40	0.97	0.62	0.65	0.59	0.62	0.60	0.51	
21	0.47	0.29	0.30	0.26	0.48	0.97	0.57	0.74	0.60	0.62	0.65	0.57	
22	0.30	0.24	0.33	0.26	0.47	0.89	0.54	0.68	0.65	0.47	0.66	0.72	
23	0.34	0.23	0.26	0.25	0.53	0.87	0.53	0.69	0.81	0.62	0.60	0.62	
24	0.39	0.17	0.39	0.24	0.56	0.90	0.55	0.73	0.68	0.68	0.60	0.57	
25	0.27	0.22	0.49	0.26	0.75	0.87	0.55	0.68	0.62	0.60	0.58	0.55	
26	0.39	0.34	0.36	0.24	0.89	0.94	0.57	0.63	0.71	0.53	0.61	0.63	
27	0.50	0.36	0.32	0.22	0.88	0.99	0.56	0.69	0.74	0.49	0.58	0.61	
28	0.40	0.39	0.31	0.15	0.91	1.00	0.64	0.58	0.62	0.52	0.57	0.61	
29	0.28	0.34	0.29	0.08	0.90	1.01	0.68	0.51	0.54	0.62		0.63	
30	0.32	0.32	0.37	0.22	0.98	1.08	0.67	0.45	0.68	0.66		0.58	
31		0.37		0.23	0.88		0.65		0.58	0.63		0.48	
Mean	0.42	0.29	0.39	0.30	0.49	1.38	0.85	0.67	0.57	0.56	0.61	0.57	
Max	0.62	0.39	0.62	0.46	0.98	2.45	1.24	0.82	0.81	0.68	0.72	0.72	2.45
Min	0.27	0.17	0.22	0.08	0.23	0.87	0.53	0.45	0.30	0.37	0.47	0.44	0.08

Annual Max Momentary Gage Height	2.50	m. (MSL.) ,	at 04.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-4.71	m. (MSL.)
Left Bank Elevation	10.13	m. (MSL.) ,			
Right Bank Elevation	9.64	m. (MSL.) ,	Drainage Area	15425	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.00	18.50	18.50	22.40	14.90	53.70	54.40	26.80	17.00	28.00	29.50	24.00		
2	24.80	19.10	15.50	20.40	15.20	55.80	57.20	28.50	19.10	28.00	31.50	25.60		
3	26.40	18.80	15.20	20.00	15.80	48.80	54.40	26.80	24.00	27.20	28.00	25.20		
4	29.00	16.70	17.90	18.80	16.40	56.50	55.10	31.00	26.40	25.60	26.00	22.40		
5	21.20	17.00	17.90	20.00	17.00	62.40	55.10	32.50	26.40	27.20	31.50	23.60		
6	27.60	17.30	17.90	18.50	17.60	64.80	46.00	31.50	27.60	25.60	32.00	26.80		
7	23.60	15.50	17.90	19.70	17.90	75.20	51.60	32.00	30.50	25.20	32.00	28.00		
8	20.00	16.70	26.40	18.50	18.50	100.40	70.70	34.80	30.50	26.80	29.50	28.00		
9	19.10	13.10	29.00	17.90	18.80	121.00	60.80	37.20	31.50	30.00	28.50	28.50		
10	18.50	16.10	26.40	17.00	18.50	129.50	66.40	34.20	28.50	28.50	29.50	27.20		
11	17.00	17.30	27.60	19.70	18.50	129.50	71.60	40.40	27.60	21.20	27.20	31.00		
12	17.90	14.90	18.50	19.70	18.50	135.00	58.60	39.00	22.80	19.10	24.00	29.50		
13	18.20	17.30	17.30	20.00	19.40	160.40	57.90	36.60	22.00	19.40	29.00	29.00		
14	18.20	14.30	24.80	20.00	20.80	180.80	55.80	37.80	24.80	21.20	34.20	31.00		
15	20.80	15.80	26.40	20.40	20.00	201.50	53.00	36.00	21.60	27.20	29.00	28.00		
16	20.80	16.10	25.20	17.90	19.70	182.00	48.80	31.50	20.00	25.20	25.20	29.00		
17	21.60	16.40	21.20	13.70	20.00	149.60	39.70	30.00	21.20	27.20	22.80	25.20		
18	21.20	16.40	20.00	13.40	22.00	132.80	37.80	29.50	29.50	28.50	24.80	21.60		
19	23.20	15.50	18.20	13.40	23.20	71.60	35.40	30.50	27.60	28.00	27.20	22.80		
20	25.20	15.50	14.60	13.70	20.00	50.90	29.00	30.50	27.60	29.00	28.00	24.40		
21	22.80	16.70	17.00	15.80	23.20	50.90	26.80	35.40	28.00	29.00	30.50	26.80		
22	17.00	15.20	17.90	15.80	22.80	45.30	25.60	32.00	30.50	22.80	31.00	34.20		
23	18.20	14.90	15.80	15.50	25.20	43.90	25.20	32.50	39.70	29.00	28.00	29.00		
24	19.70	13.10	19.70	15.20	26.40	46.00	26.00	34.80	32.00	32.00	28.00	26.80		
25	16.10	14.60	23.60	15.80	36.00	43.90	26.00	32.00	29.00	28.00	27.20	26.00		
26	19.70	18.20	18.80	15.20	45.30	48.80	26.80	29.50	33.60	25.20	28.50	29.50		
27	24.00	18.80	17.60	14.60	44.60	52.30	26.40	32.50	35.40	23.60	27.20	28.50		
28	20.00	19.70	17.30	12.50	46.70	53.00	30.00	27.20	29.00	24.80	26.80	28.50		
29	16.40	18.20	16.70	10.40	46.00	53.70	32.00	24.40	25.60	29.00		29.50		
30	17.60	17.60	19.10	14.60	51.60	58.60	31.50	22.00	32.00	31.00		27.20		
31		19.10		14.90	44.60		30.50		27.20	29.50		23.20		
Total	631.80	514.40	599.90	525.40	785.10	2658.60	1366.10	959.40	848.20	822.00	796.60	840.00	11347.50	CMSDAY
Mean	21.06	16.59	20.00	16.95	25.33	88.62	44.07	31.98	27.36	26.52	28.45	27.10	31.09	CMS
Max	29.00	19.70	29.00	22.40	51.60	201.50	71.60	40.40	39.70	32.00	34.20	34.20	201.50	CMS
Min	16.10	13.10	14.60	10.40	14.90	43.90	25.20	22.00	17.00	19.10	22.80	21.60	10.40	CMS
Runoff	54.59	44.44	51.83	45.40	67.83	229.70	118.03	82.89	73.28	71.02	68.83	72.58	980.42	MCM

Momentary Peak 208.00 CMS. at 2.50 m. (MSL.) at 04.00 Hours , on Sep 16 , 2014

Runoff Yield 2.02 Liters/Second/Square KM. Momentary Peak Yield 13.485 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Nong Bua , Lop Buri (S.28)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

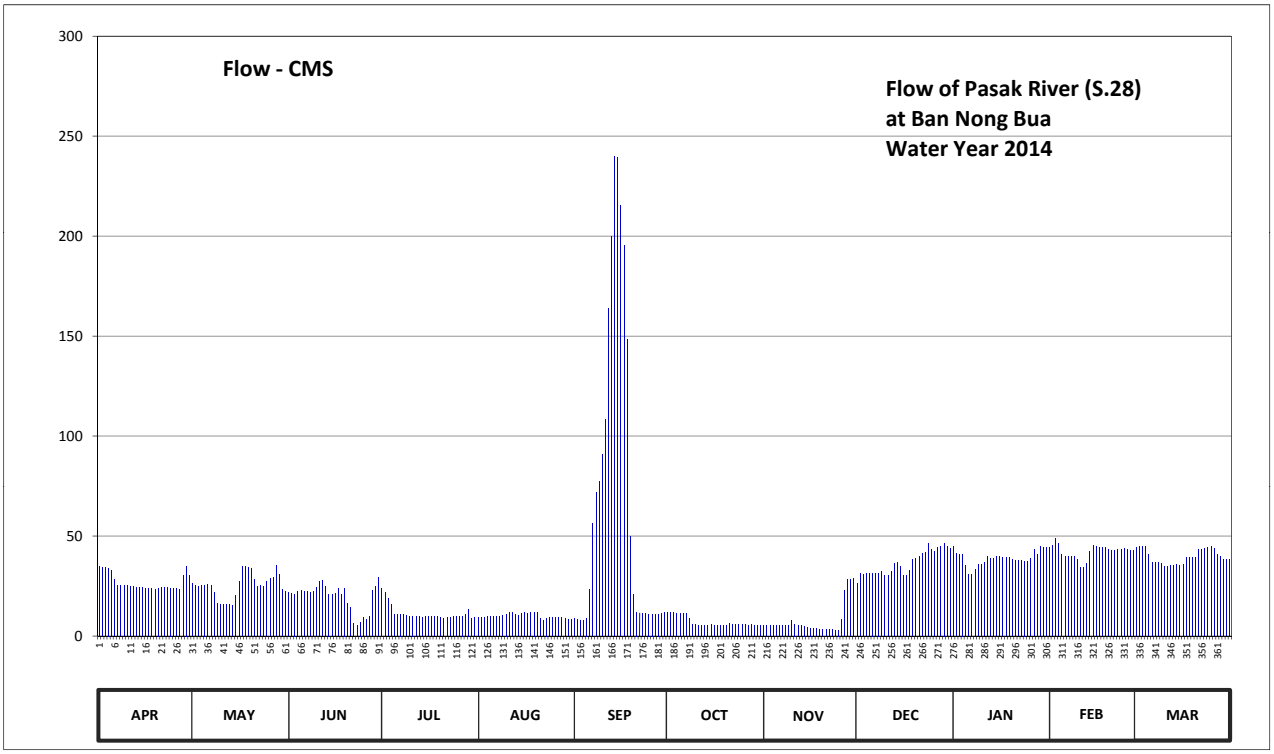
Location : on left bank at Ban Nong Bua.

	Ban Nong Bua	**Amphoe** Phatthana Nikhom	**Changwat** Lop Buri
Drainge Area	8,778 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the automatic gage buiding	**Elevation**	+32.571 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Flot	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Pasak Cholasit Dam.		
	Stage-discharge relation defined by 69 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.92	17.67	17.52	17.60	17.07	17.03	17.19	16.87	17.68	18.21	18.20	18.19	
2	17.91	17.65	17.51	17.53	17.07	17.01	17.18	16.87	17.82	18.11	18.22	18.21	
3	17.91	17.63	17.50	17.42	17.07	16.98	17.18	16.87	17.81	18.10	18.32	18.21	
4	17.90	17.65	17.55	17.32	17.08	16.99	17.17	16.87	17.82	18.10	18.25	18.21	
5	17.86	17.65	17.56	17.13	17.09	17.05	17.17	16.87	17.83	17.94	18.10	18.09	
6	17.74	17.66	17.54	17.14	17.09	17.58	17.17	16.87	17.83	17.81	18.07	17.98	
7	17.65	17.65	17.54	17.15	17.09	18.51	17.17	16.87	17.83	17.81	18.07	17.98	
8	17.64	17.52	17.52	17.13	17.10	18.89	17.05	16.86	17.83	17.88	18.07	17.98	
9	17.64	17.34	17.54	17.11	17.11	19.03	16.88	16.86	17.85	17.95	18.06	17.96	
10	17.64	17.33	17.61	17.09	17.15	19.36	16.88	16.99	17.80	17.95	18.02	17.92	
11	17.62	17.32	17.71	17.10	17.18	19.75	16.87	16.90	17.80	17.98	17.91	17.93	
12	17.62	17.32	17.72	17.09	17.18	20.92	16.87	16.87	17.85	18.07	17.91	17.94	
13	17.61	17.32	17.63	17.08	17.15	21.64	16.87	16.86	17.96	18.04	17.97	17.94	
14	17.61	17.31	17.50	17.07	17.11	22.37	16.87	16.85	17.98	18.04	18.14	17.95	
15	17.61	17.48	17.49	17.08	17.16	22.36	16.88	16.82	17.92	18.06	18.22	17.94	
16	17.60	17.71	17.51	17.08	17.19	21.92	16.87	16.80	17.79	18.06	18.21	17.95	
17	17.59	17.92	17.59	17.08	17.16	21.55	16.87	16.78	17.80	18.05	18.20	18.05	
18	17.59	17.93	17.50	17.09	17.19	20.61	16.87	16.76	17.86	18.05	18.20	18.05	
19	17.58	17.91	17.60	17.10	17.20	18.34	16.87	16.74	18.02	18.05	18.20	18.05	
20	17.60	17.90	17.34	17.07	17.19	17.49	16.87	16.72	18.04	18.02	18.17	18.05	
21	17.61	17.74	17.27	17.04	17.04	17.20	16.92	16.72	18.07	18.01	18.15	18.17	
22	17.61	17.63	16.92	17.07	16.99	17.18	16.89	16.71	18.11	18.01	18.15	18.17	
23	17.61	17.64	16.86	17.07	17.05	17.16	16.88	16.71	18.12	18.01	18.16	18.18	
24	17.60	17.63	16.95	17.08	17.06	17.16	16.88	16.70	18.25	18.00	18.17	18.19	
25	17.59	17.71	17.07	17.09	17.06	17.15	16.88	16.70	18.16	18.00	18.18	18.21	
26	17.59	17.75	17.01	17.09	17.06	17.15	16.88	17.01	18.13	18.04	18.17	18.18	
27	17.58	17.76	17.08	17.10	17.07	17.15	16.87	17.56	18.20	18.16	18.15	18.09	
28	17.80	17.94	17.56	17.14	17.07	17.15	16.88	17.74	18.21	18.10	18.15	18.07	
29	17.93	17.81	17.63	17.25	17.04	17.16	16.87	17.73	18.26	18.21		18.03	
30	17.80	17.57	17.77	17.05	17.01	17.19	16.87	17.75	18.21	18.20		18.02	
31		17.54		17.06	17.02		16.87		18.18	18.20		18.02	
Mean	17.69	17.63	17.44	17.15	17.10	18.57	16.95	16.94	17.97	18.04	18.14	18.06	
Max	17.93	17.94	17.77	17.60	17.20	22.37	17.19	17.75	18.26	18.21	18.32	18.21	22.37
Min	17.58	17.31	16.86	17.04	16.99	16.98	16.87	16.70	17.68	17.81	17.91	17.92	16.70

Annual Max Momentary Gage Height	22.51	m. (MSL.) ,	at 10.00 Hours , on Sep 15 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	15.70	m. (MSL.)
Left Bank Elevation	27.05	m. (MSL.) ,			
Right Bank Elevation	29.63	m. (MSL.) ,	Drainage Area	8778	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	34.70	26.10	21.60	24.00	9.40	8.60	11.80	5.40	26.40	44.85	44.50	44.15		
2	34.35	25.50	21.30	21.90	9.40	8.20	11.60	5.40	31.20	41.35	45.20	44.85		
3	34.35	24.90	21.00	18.60	9.40	7.60	11.60	5.40	30.85	41.00	48.80	44.85		
4	34.00	25.50	22.50	15.60	9.60	7.80	11.40	5.40	31.20	41.00	46.25	44.85		
5	32.60	25.50	22.80	10.60	9.80	9.00	11.40	5.40	31.55	35.40	41.00	40.65		
6	28.40	25.80	22.20	10.80	9.80	23.40	11.40	5.40	31.55	30.85	39.95	36.80		
7	25.50	25.50	22.20	11.00	9.80	56.40	11.40	5.40	31.55	30.85	39.95	36.80		
8	25.20	21.60	21.60	10.60	10.00	71.60	9.00	5.20	31.55	33.30	39.95	36.80		
9	25.20	16.20	22.20	10.20	10.20	77.20	5.60	5.20	32.25	35.75	39.60	36.10		
10	25.20	15.90	24.30	9.80	11.00	90.70	5.60	7.80	30.50	35.75	38.20	34.70		
11	24.60	15.60	27.35	10.00	11.60	108.25	5.40	6.00	30.50	36.80	34.35	35.05		
12	24.60	15.60	27.70	9.80	11.60	164.00	5.40	5.40	32.25	39.95	34.35	35.40		
13	24.30	15.60	24.90	9.60	11.00	200.00	5.40	5.20	36.10	38.90	36.45	35.40		
14	24.30	15.30	21.00	9.40	10.20	239.85	5.40	5.00	36.80	38.90	42.40	35.75		
15	24.30	20.40	20.70	9.60	11.20	239.30	5.60	4.40	34.70	39.60	45.20	35.40		
16	24.00	27.35	21.30	9.60	11.80	215.10	5.40	4.00	30.15	39.60	44.85	35.75		
17	23.70	34.70	23.70	9.60	11.20	195.50	5.40	3.80	30.50	39.25	44.50	39.25		
18	23.70	35.05	21.00	9.80	11.80	148.50	5.40	3.60	32.60	39.25	44.50	39.25		
19	23.40	34.35	24.00	10.00	12.00	49.60	5.40	3.40	38.20	39.25	44.50	39.25		
20	24.00	34.00	16.20	9.40	11.80	20.70	5.40	3.20	38.90	38.20	43.45	39.25		
21	24.30	28.40	14.10	8.80	8.80	12.00	6.40	3.20	39.95	37.85	42.75	43.45		
22	24.30	24.90	6.40	9.40	7.80	11.60	5.80	3.10	41.35	37.85	42.75	43.45		
23	24.30	25.20	5.20	9.40	9.00	11.20	5.60	3.10	41.70	37.85	43.10	43.80		
24	24.00	24.90	7.00	9.60	9.20	11.20	5.60	3.00	46.25	37.50	43.45	44.15		
25	23.70	27.35	9.40	9.80	9.20	11.00	5.60	3.00	43.10	37.50	43.80	44.85		
26	23.70	28.75	8.20	9.80	9.20	11.00	5.60	8.20	42.05	38.90	43.45	43.80		
27	23.40	29.10	9.60	10.00	9.40	11.00	5.40	22.80	44.50	43.10	42.75	40.65		
28	30.50	35.40	22.80	10.80	9.40	11.00	5.60	28.40	44.85	41.00	42.75	39.95		
29	35.05	30.85	24.90	13.50	8.80	11.20	5.40	28.05	46.60	44.85		38.55		
30	30.50	23.10	29.45	9.00	8.20	11.80	5.40	28.75	44.85	44.50		38.20		
31		22.20		9.20	8.40		5.40		43.80	44.50		38.20		
Total	804.15	780.60	586.60	349.20	310.00	2054.30	216.80	231.60	1128.30	1205.20	1182.75	1229.35	10078.85	CMSDAY
Mean	26.81	25.18	19.55	11.26	10.00	68.48	6.99	7.72	36.40	38.88	42.24	39.66	27.61	CMS
Max	35.05	35.40	29.45	24.00	12.00	239.85	11.80	28.75	46.60	44.85	48.80	44.85	239.85	CMS
Min	23.40	15.30	5.20	8.80	7.80	7.60	5.40	3.00	26.40	30.85	34.35	34.70	3.00	CMS
Runoff	69.48	67.44	50.68	30.17	26.78	177.49	18.73	20.01	97.49	104.13	102.19	106.22	870.81	MCM

Momentary Peak 247.55 CMS. at 22.51 m. (MSL.) at 10.00 Hours , on Sep 15 , 2014

Runoff Yield 3.15 Liters/Second/Square KM. Momentary Peak Yield 28.201 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Mueang , Saraburi (S.32)

Lat 14 - 31 - 28 N Long 100 - 59 - 48 E

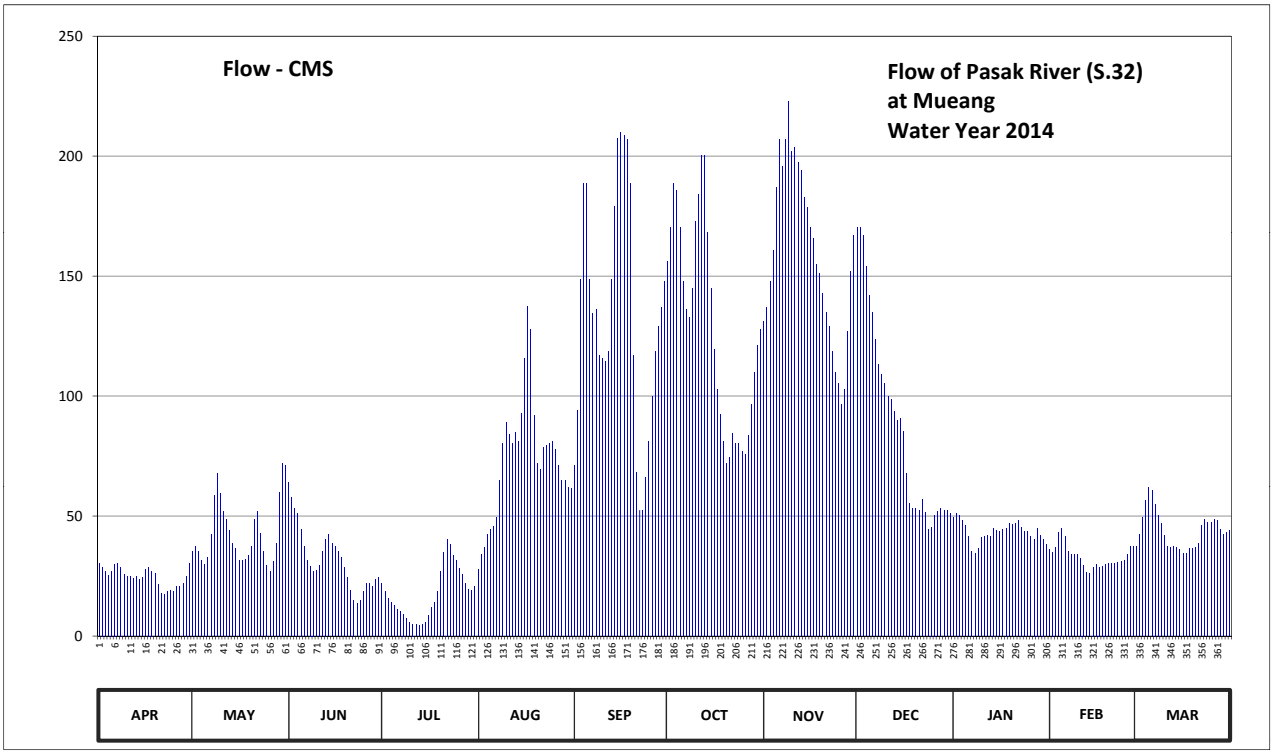
Location : on right bank at Mueang.

	Ban -	**Amphoe** Mueang	**Changwat** Saraburi
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 right bank near the Staff gage.		**Elevation** +12.827 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	1990 to date		
Rating Operation			
Period of Rating	2012 to date		
Rated by Flot	-		
Rated by Current Meter	2012 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 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.36	6.48	6.96	6.09	6.29	7.05	7.40	7.15	7.52	5.95	5.68	5.71	
2	6.32	6.53	6.87	5.99	6.45	7.30	7.52	7.21	7.52	5.98	5.66	5.81	
3	6.26	6.48	6.80	5.88	6.52	7.68	7.66	7.32	7.49	5.97	5.70	5.95	
4	6.21	6.39	6.77	5.80	6.62	7.87	7.64	7.44	7.38	5.92	5.82	6.09	
5	6.27	6.35	6.66	5.74	6.66	7.87	7.52	7.65	7.26	5.88	5.86	6.18	
6	6.35	6.42	6.53	5.66	6.68	7.68	7.32	7.78	7.19	5.79	5.79	6.16	
7	6.36	6.62	6.39	5.61	6.74	7.59	7.20	7.71	7.07	5.67	5.67	6.06	
8	6.32	6.88	6.33	5.56	6.97	7.60	7.17	7.78	6.94	5.65	5.64	5.97	
9	6.22	7.01	6.27	5.47	7.16	7.48	7.29	7.87	6.89	5.69	5.64	5.90	
10	6.19	6.89	6.28	5.37	7.25	7.47	7.54	7.75	6.84	5.78	5.64	5.80	
11	6.19	6.78	6.34	5.30	7.20	7.46	7.63	7.76	6.77	5.79	5.61	5.71	
12	6.17	6.73	6.48	5.28	7.16	7.49	7.74	7.72	6.75	5.80	5.54	5.70	
13	6.19	6.65	6.59	5.24	7.21	7.68	7.74	7.70	6.68	5.79	5.46	5.71	
14	6.15	6.55	6.62	5.27	7.17	7.83	7.50	7.62	6.63	5.86	5.45	5.70	
15	6.18	6.51	6.55	5.35	7.29	7.94	7.29	7.59	6.64	5.84	5.52	5.68	
16	6.29	6.39	6.53	5.53	7.47	7.80	7.02	7.52	6.56	5.83	5.55	5.65	
17	6.32	6.39	6.48	5.69	7.61	7.79	6.81	7.48	6.28	5.85	5.52	5.65	
18	6.27	6.40	6.42	5.80	7.55	7.78	6.66	7.39	6.07	5.86	5.53	5.69	
19	6.24	6.44	6.31	5.99	7.28	7.66	6.50	7.35	6.02	5.90	5.55	5.69	
20	6.08	6.53	6.18	6.26	7.06	6.99	6.35	7.27	6.02	5.89	5.56	5.70	
21	5.96	6.73	6.00	6.47	7.03	6.29	6.39	7.19	6.01	5.90	5.56	5.73	
22	5.95	6.78	5.85	6.59	7.14	6.01	6.55	7.13	6.10	5.92	5.56	5.88	
23	5.98	6.63	5.77	6.54	7.15	6.01	6.49	7.01	5.99	5.87	5.57	5.93	
24	6.00	6.48	5.85	6.44	7.16	6.25	6.49	6.90	5.85	5.83	5.58	5.91	
25	5.99	6.34	5.98	6.39	7.17	6.50	6.43	6.84	5.87	5.83	5.59	5.91	
26	6.06	6.26	6.09	6.30	7.13	6.77	6.41	6.72	5.97	5.79	5.64	5.93	
27	6.06	6.38	6.10	6.22	7.05	7.01	6.54	6.81	6.00	5.77	5.71	5.92	
28	6.10	6.55	6.05	6.10	6.97	7.13	6.72	7.11	6.02	5.86	5.71	5.85	
29	6.20	6.90	6.15	6.01	6.97	7.21	6.90	7.36	6.01	5.80		5.81	
30	6.36	7.06	6.18	6.00	6.93	7.32	7.04	7.49	6.01	5.77		5.82	
31		7.05		6.05	6.92		7.12		5.98	5.72		5.84	
Mean	6.19	6.60	6.35	5.87	7.03	7.28	7.05	7.39	6.53	5.83	5.62	5.84	
Max	6.36	7.06	6.96	6.59	7.61	7.94	7.74	7.87	7.52	5.98	5.86	6.18	7.94
Min	5.95	6.26	5.77	5.24	6.29	6.01	6.35	6.72	5.85	5.65	5.45	5.65	5.24

Annual Max Momentary Gage Height	7.99	m. (MSL.) ,	at 08.00 Hours , on Sep 15 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	1.51	m. (MSL.)
Left Bank Elevation	17.09	m. (MSL.) ,			
Right Bank Elevation	17.11	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	30.40	35.20	64.20	21.70	27.70	71.00	156.00	131.00	170.40	49.50	36.00	37.50		
2	28.80	37.50	57.90	18.70	34.00	94.00	170.40	137.00	170.40	51.00	35.00	42.50		
3	26.80	35.20	53.00	15.60	37.00	148.80	188.40	148.00	166.80	50.50	37.00	49.50		
4	25.30	31.60	51.20	14.00	42.20	188.80	185.60	160.80	154.00	48.00	43.00	56.50		
5	27.10	30.00	44.60	12.80	44.60	188.80	170.40	187.00	142.00	46.00	45.00	61.80		
6	30.00	32.80	37.50	11.20	45.80	148.80	148.00	206.80	135.00	41.50	41.50	60.60		
7	30.40	42.20	31.60	10.20	49.40	134.40	136.00	195.60	123.60	35.50	35.50	55.00		
8	28.80	58.60	29.20	9.20	64.90	136.00	133.00	206.80	113.20	34.50	34.00	50.50		
9	25.60	67.80	27.10	7.40	80.40	117.20	145.00	222.60	109.20	36.50	34.00	47.00		
10	24.70	59.30	27.40	5.70	89.00	115.80	172.80	202.00	105.20	41.00	34.00	42.00		
11	24.70	51.80	29.60	5.00	84.00	114.40	184.20	203.60	99.90	41.50	32.50	37.50		
12	24.10	48.80	35.20	4.80	80.40	118.60	200.40	197.20	98.50	42.00	29.60	37.00		
13	24.70	44.00	40.50	4.40	85.00	148.80	200.40	194.00	93.60	41.50	26.40	37.50		
14	23.50	38.50	42.20	4.70	81.30	179.20	168.00	182.80	90.10	45.00	26.00	37.00		
15	24.40	36.50	38.50	5.50	93.00	207.20	145.00	178.80	90.80	44.00	28.80	36.00		
16	27.70	31.60	37.50	8.60	115.80	210.00	119.60	170.40	85.20	43.50	30.00	34.50		
17	28.80	31.60	35.20	11.80	137.60	208.40	102.80	165.60	67.80	44.50	28.80	34.50		
18	27.10	32.00	32.80	14.00	128.00	206.80	92.20	155.00	55.50	45.00	29.20	36.50		
19	26.20	33.60	28.40	18.70	92.00	188.40	81.00	151.00	53.00	47.00	30.00	36.50		
20	21.40	37.50	24.40	26.80	71.80	117.20	72.00	143.00	53.00	46.50	30.40	37.00		
21	17.80	48.80	19.00	34.80	69.40	68.40	74.40	135.00	52.50	47.00	30.40	38.50		
22	17.50	51.80	15.00	40.50	78.60	52.50	84.50	129.00	57.00	48.00	30.40	46.00		
23	18.40	42.80	13.40	38.00	79.50	52.50	80.40	118.80	51.50	45.50	30.80	48.50		
24	19.00	35.20	15.00	33.60	80.40	66.00	80.40	110.00	44.50	43.50	31.20	47.50		
25	18.70	29.60	18.40	31.60	81.30	81.00	76.80	105.20	45.50	43.50	31.60	47.50		
26	20.80	26.80	21.70	28.00	77.70	99.90	75.60	96.40	50.50	41.50	34.00	48.50		
27	20.80	31.20	22.00	25.60	71.00	118.80	83.80	102.80	52.00	40.50	37.50	48.00		
28	22.00	38.50	20.50	22.00	64.90	129.00	96.40	127.00	53.00	45.00	37.50	44.50		
29	25.00	60.00	23.50	19.30	64.90	137.00	110.00	152.00	52.50	42.00		42.50		
30	30.40	71.80	24.40	19.00	62.10	148.00	121.20	166.80	52.50	40.50		43.00		
31		71.00		20.50	61.40		128.00		51.00	38.00		44.00		
Total	740.90	1323.60	960.90	543.70	2275.10	3995.70	3982.70	4782.00	2739.70	1349.50	930.10	1365.40	24989.30	CMSDAY
Mean	24.70	42.70	32.03	17.54	73.39	133.19	128.47	159.40	88.38	43.53	33.22	44.05	68.46	CMS
Max	30.40	71.80	64.20	40.50	137.60	210.00	200.40	222.60	170.40	51.00	45.00	61.80	222.60	CMS
Min	17.50	26.80	13.40	4.40	27.70	52.50	72.00	96.40	44.50	34.50	26.00	34.50	4.40	CMS
Runoff	64.01	114.36	83.02	46.98	196.57	345.23	344.11	413.17	236.71	116.60	80.36	117.97	2159.08	MCM

Momentary Peak 221.20 CMS. at 7.99 m. (MSL.) at 08.00 Hours , on Sep 15 , 2014

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

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

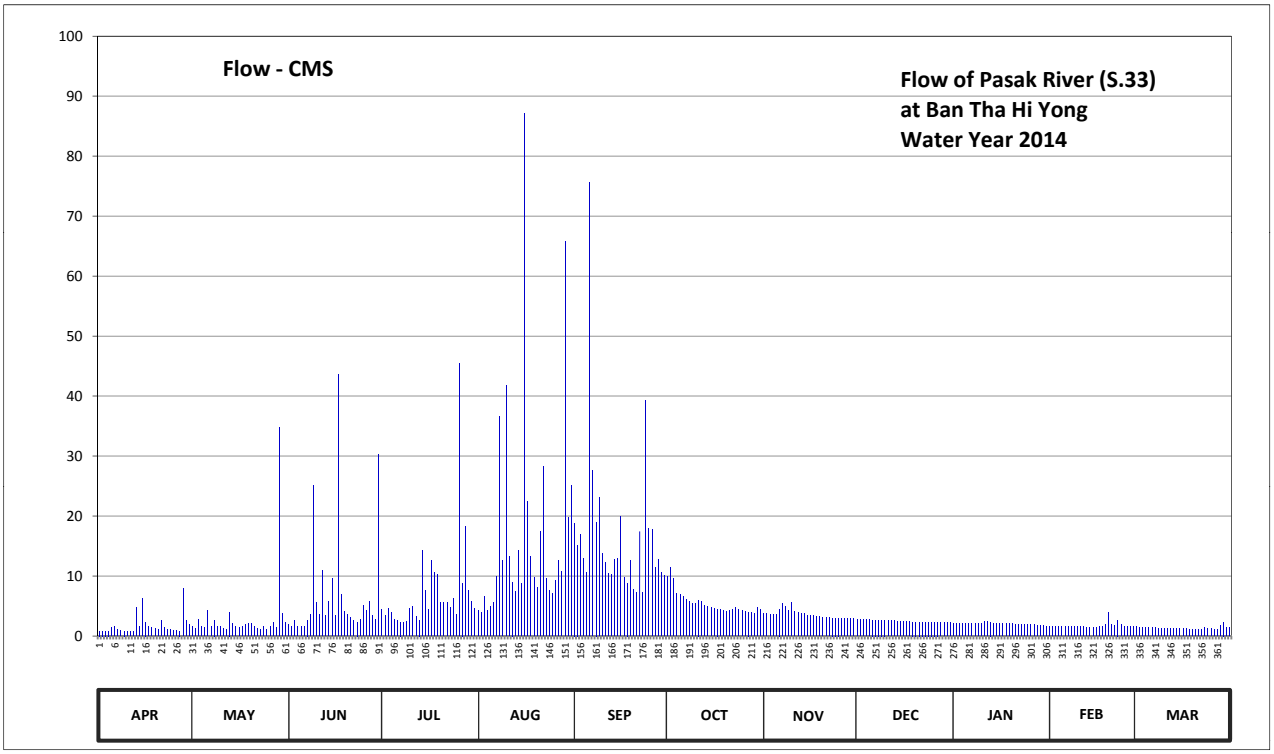
Location : on left bank at Ban Tha Hai Yong

	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 Flot	-		
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 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.71	190.78	190.81	191.03	191.02	191.92	191.41	190.98	190.90	190.84	190.79	190.78	
2	190.71	190.75	190.78	190.96	190.99	191.71	191.50	190.98	190.90	190.84	190.79	190.77	
3	190.71	190.90	190.88	191.05	191.19	191.81	191.39	190.97	190.90	190.84	190.79	190.77	
4	190.71	190.79	190.78	190.99	191.02	191.58	191.22	190.97	190.90	190.84	190.79	190.77	
5	190.77	190.77	190.78	190.90	191.07	191.45	191.21	190.97	190.90	190.84	190.79	190.76	
6	190.78	191.02	190.79	190.88	191.12	194.27	191.19	191.04	190.89	190.84	190.78	190.76	
7	190.74	190.79	190.89	190.86	191.41	192.37	191.16	191.11	190.89	190.84	190.78	190.76	
8	190.72	190.89	190.97	190.85	192.77	191.93	191.13	191.07	190.89	190.83	190.78	190.75	
9	190.71	190.78	192.24	190.87	191.56	192.14	191.11	191.02	190.89	190.83	190.78	190.75	
10	190.70	190.78	191.12	191.05	193.00	191.63	191.11	191.12	190.89	190.83	190.78	190.75	
11	190.70	190.75	190.97	191.07	191.60	191.54	191.15	191.01	190.88	190.87	190.78	190.75	
12	190.70	190.74	191.47	190.94	191.35	191.44	191.13	190.99	190.88	190.87	190.78	190.75	
13	191.06	191.00	190.96	190.89	191.25	191.43	191.09	190.98	190.88	190.86	190.77	190.75	
14	190.79	190.83	191.13	191.66	191.66	191.57	191.07	190.98	190.87	190.84	190.77	190.75	
15	191.17	190.78	191.39	191.26	191.33	191.58	191.06	190.96	190.87	190.84	190.77	190.75	
16	190.86	190.77	190.96	191.03	194.64	191.98	191.05	190.95	190.87	190.83	190.77	190.75	
17	190.78	190.79	193.08	191.56	192.11	191.40	191.04	190.95	190.87	190.83	190.78	190.75	
18	190.76	190.81	191.21	191.45	191.60	191.34	191.03	190.94	190.87	190.83	190.79	190.74	
19	190.75	190.84	191.01	191.43	191.40	191.56	191.02	190.94	190.86	190.83	190.82	190.74	
20	190.74	190.83	190.97	191.12	191.29	191.27	191.01	190.93	190.86	190.83	190.99	190.73	
21	190.88	190.79	190.93	191.12	191.84	191.23	191.02	190.93	190.86	190.82	190.82	190.73	
22	190.77	190.75	190.88	191.12	192.40	191.84	191.03	190.93	190.86	190.82	190.80	190.74	
23	190.74	190.74	190.86	191.06	191.39	191.23	191.06	190.92	190.86	190.82	190.89	190.76	
24	190.73	190.78	190.90	191.17	191.26	192.89	191.03	190.92	190.86	190.82	190.82	190.75	
25	190.72	190.73	191.09	190.97	191.22	191.87	191.02	190.92	190.86	190.81	190.79	190.75	
26	190.72	190.78	191.02	193.16	191.37	191.86	191.01	190.91	190.86	190.81	190.79	190.74	
27	190.71	190.85	191.13	191.34	191.56	191.50	191.00	190.91	190.86	190.81	190.78	190.74	
28	191.28	190.77	190.95	191.89	191.46	191.57	190.99	190.91	190.85	190.80	190.78	190.80	
29	190.88	192.69	190.90	191.26	193.93	191.45	190.98	190.91	190.85	190.80		190.86	
30	190.82	190.98	192.49	191.13	191.97	191.42	191.06	190.91	190.85	190.80		190.77	
31		190.85		191.05	192.24		191.03		190.85	190.79		190.76	
Mean	190.79	190.87	191.14	191.20	191.74	191.76	191.11	190.97	190.87	190.83	190.80	190.76	
Max	191.28	192.69	193.08	193.16	194.64	194.27	191.50	191.12	190.90	190.87	190.99	190.86	194.64
Min	190.70	190.73	190.78	190.85	190.99	191.23	190.98	190.91	190.85	190.79	190.77	190.73	190.70

Annual Max Momentary Gage Height	196.42	m. (MSL.) ,	at 15.00 Hours , on Aug 16 , 2014		
Zero Gage at Bottom Elevation	190.09	m. (MSL.) ,	River Bed	190.47	m. (MSL.)
Left Bank Elevation	197.87	m. (MSL.) ,			
Right Bank Elevation	197.92	m. (MSL.) ,	Drainage Area	521	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.85	1.55	1.85	4.37	4.25	18.85	9.93	3.75	2.75	2.15	1.65	1.55		
2	0.85	1.25	1.55	3.50	3.88	15.18	11.50	3.75	2.75	2.15	1.65	1.45		
3	0.85	2.75	2.55	4.63	6.60	16.92	9.60	3.63	2.75	2.15	1.65	1.45		
4	0.85	1.65	1.55	3.88	4.25	12.90	7.05	3.63	2.75	2.15	1.65	1.45		
5	1.45	1.45	1.55	2.75	4.88	10.63	6.90	3.63	2.75	2.15	1.65	1.35		
6	1.55	4.25	1.65	2.55	5.55	75.60	6.60	4.50	2.65	2.15	1.55	1.35		
7	1.15	1.65	2.65	2.35	9.93	27.65	6.15	5.40	2.65	2.15	1.55	1.35		
8	0.95	2.65	3.63	2.25	36.58	19.02	5.70	4.88	2.65	2.05	1.55	1.25		
9	0.85	1.55	25.05	2.45	12.55	23.05	5.40	4.25	2.65	2.05	1.55	1.25		
10	0.75	1.55	5.55	4.63	41.75	13.78	5.40	5.55	2.65	2.05	1.55	1.25		
11	0.75	1.25	3.63	4.88	13.25	12.20	6.00	4.12	2.55	2.45	1.55	1.25		
12	0.75	1.15	10.98	3.25	9.00	10.45	5.70	3.88	2.55	2.45	1.55	1.25		
13	4.75	4.00	3.50	2.65	7.50	10.27	5.12	3.75	2.55	2.35	1.45	1.25		
14	1.65	2.05	5.70	14.30	14.30	12.73	4.88	3.75	2.45	2.15	1.45	1.25		
15	6.30	1.55	9.60	7.65	8.70	12.90	4.75	3.50	2.45	2.15	1.45	1.25		
16	2.35	1.45	3.50	4.37	87.05	19.90	4.63	3.38	2.45	2.05	1.45	1.25		
17	1.55	1.65	43.55	12.55	22.45	9.75	4.50	3.38	2.45	2.05	1.55	1.25		
18	1.35	1.85	6.90	10.63	13.25	8.85	4.37	3.25	2.45	2.05	1.65	1.15		
19	1.25	2.15	4.12	10.27	9.75	12.55	4.25	3.25	2.35	2.05	1.95	1.15		
20	1.15	2.05	3.63	5.55	8.10	7.80	4.12	3.12	2.35	2.05	3.88	1.05		
21	2.55	1.65	3.12	5.55	17.45	7.20	4.25	3.12	2.35	1.95	1.95	1.05		
22	1.45	1.25	2.55	5.55	28.25	17.45	4.37	3.12	2.35	1.95	1.75	1.15		
23	1.15	1.15	2.35	4.75	9.60	7.20	4.75	3.00	2.35	1.95	2.65	1.35		
24	1.05	1.55	2.75	6.30	7.65	39.27	4.37	3.00	2.35	1.95	1.95	1.25		
25	0.95	1.05	5.12	3.63	7.05	17.97	4.25	3.00	2.35	1.85	1.65	1.25		
26	0.95	1.55	4.25	45.50	9.30	17.80	4.12	2.88	2.35	1.85	1.65	1.15		
27	0.85	2.25	5.70	8.85	12.55	11.50	4.00	2.88	2.35	1.85	1.55	1.15		
28	7.95	1.45	3.38	18.33	10.80	12.73	3.88	2.88	2.25	1.75	1.55	1.75		
29	2.55	34.78	2.75	7.65	65.82	10.63	3.75	2.88	2.25	1.75		2.35		
30	1.95	3.75	30.28	5.70	19.73	10.10	4.75	2.88	2.25	1.75		1.45		
31		2.25		4.63	25.05		4.37		2.25	1.65		1.35		
Total	53.35	92.13	204.94	225.90	536.82	502.83	169.41	107.99	77.05	63.25	48.63	41.05	2123.35	CMSDAY
Mean	1.78	2.97	6.83	7.29	17.32	16.76	5.46	3.60	2.49	2.04	1.74	1.32	5.82	CMS
Max	7.95	34.78	43.55	45.50	87.05	75.60	11.50	5.55	2.75	2.45	3.88	2.35	87.05	CMS
Min	0.75	1.05	1.55	2.25	3.88	7.20	3.75	2.88	2.25	1.65	1.45	1.05	0.75	CMS
Runoff	4.61	7.96	17.71	19.52	46.38	43.45	14.64	9.33	6.66	5.47	4.20	3.55	183.46	MCM

Momentary Peak 149.25 CMS. at 196.42 m. (MSL.) at 15.00 Hours , on Aug 16 , 2014

Runoff Yield 11.17 Liters/Second/Square KM. Momentary Peak Yield 286.468 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Non Thong , Phetchabun (S.36)

Lat 16 - 43 - 42 N Long 101 - 14 - 32 E

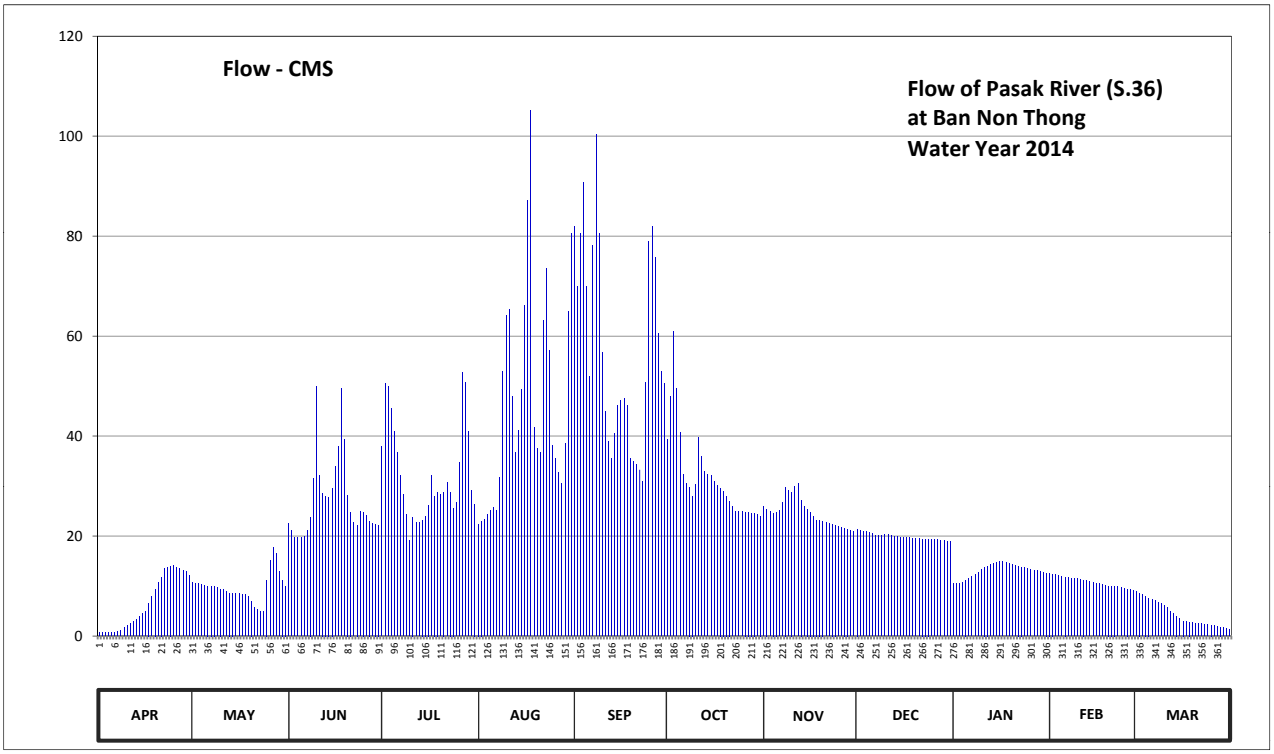
Location : on right bank at Ban Non Thong.

	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 Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.45	134.40	135.08	135.81	135.07	137.50	135.87	135.25	135.02	134.39	134.52	134.27	
2	133.45	134.39	135.01	136.35	135.10	137.10	136.25	135.22	135.01	134.38	134.51	134.25	
3	133.44	134.38	134.93	136.33	135.12	137.45	136.77	135.20	135.00	134.38	134.50	134.23	
4	133.44	134.37	134.93	136.15	135.17	137.79	136.31	135.18	134.99	134.40	134.49	134.20	
5	133.43	134.36	134.93	135.94	135.21	137.10	135.93	135.19	134.98	134.43	134.48	134.17	
6	133.43	134.35	134.94	135.76	135.24	136.41	135.56	135.21	134.97	134.45	134.47	134.15	
7	133.47	134.35	135.01	135.55	135.21	137.37	135.48	135.29	134.95	134.48	134.46	134.13	
8	133.52	134.35	135.14	135.37	135.53	138.10	135.44	135.44	134.95	134.50	134.45	134.10	
9	133.59	134.33	135.52	135.17	136.45	137.45	135.35	135.41	134.95	134.53	134.45	134.08	
10	133.64	134.31	136.33	134.89	136.89	136.60	135.47	135.39	134.96	134.56	134.45	134.05	
11	133.69	134.30	135.55	135.14	136.93	136.12	135.89	135.45	134.96	134.59	134.44	134.01	
12	133.74	134.28	135.38	135.09	136.25	135.85	135.72	135.48	134.95	134.60	134.43	133.95	
13	133.79	134.25	135.35	135.09	135.76	135.70	135.59	135.31	134.94	134.62	134.42	133.90	
14	133.84	134.25	135.34	135.11	135.95	135.92	135.56	135.25	134.94	134.63	134.41	133.85	
15	133.90	134.24	135.43	135.15	136.30	136.17	135.55	135.22	134.93	134.64	134.40	133.80	
16	133.94	134.24	135.63	135.26	136.96	136.22	135.50	135.19	134.93	134.65	134.39	133.75	
17	134.09	134.23	135.81	135.55	137.67	136.23	135.46	135.15	134.93	134.65	134.38	133.74	
18	134.19	134.22	136.31	135.35	138.25	136.17	135.43	135.11	134.93	134.64	134.37	133.73	
19	134.31	134.19	135.87	135.39	135.98	135.70	135.40	135.11	134.92	134.63	134.36	133.72	
20	134.40	134.12	135.36	135.37	135.79	135.68	135.35	135.10	134.92	134.62	134.35	133.71	
21	134.47	134.02	135.19	135.39	135.76	135.65	135.30	135.09	134.92	134.61	134.35	133.70	
22	134.57	133.98	135.09	135.49	136.85	135.60	135.25	135.08	134.91	134.60	134.35	133.69	
23	134.58	133.95	135.06	135.39	137.22	135.50	135.20	135.07	134.91	134.59	134.34	133.68	
24	134.60	133.95	135.20	135.23	136.62	136.36	135.20	135.06	134.91	134.58	134.33	133.67	
25	134.61	134.43	135.19	135.29	135.82	137.40	135.20	135.05	134.90	134.57	134.32	133.66	
26	134.58	134.66	135.16	135.67	135.70	137.50	135.19	135.04	134.90	134.56	134.31	133.65	
27	134.57	134.81	135.10	136.44	135.58	137.29	135.19	135.03	134.90	134.55	134.30	133.63	
28	134.55	134.74	135.08	136.36	135.48	136.75	135.18	135.02	134.89	134.55	134.29	133.61	
29	134.54	134.54	135.07	135.94	135.84	136.45	135.18	135.01	134.89	134.54		133.59	
30	134.49	134.43	135.06	135.41	136.92	136.35	135.17	135.00	134.88	134.53		133.57	
31		134.35		135.27	137.45		135.15		134.88	134.52		133.55	
Mean	134.01	134.32	135.30	135.54	136.13	136.58	135.52	135.19	134.94	134.55	134.40	133.86	
Max	134.61	134.81	136.33	136.44	138.25	138.10	136.77	135.48	135.02	134.65	134.52	134.27	138.25
Min	133.43	133.95	134.93	134.89	135.07	135.50	135.15	135.00	134.88	134.38	134.29	133.55	133.43

Annual Max Momentary Gage Height	138.35	m. (MSL.) ,	at 18.00 Hours , on Aug 18 , 2014		
Zero Gage at Bottom Elevation	130.95	m. (MSL.) ,	River Bed	132.48	m. (MSL.)
Left Bank Elevation	142.03	m. (MSL.) ,			
Right Bank Elevation	141.83	m. (MSL.) ,	Drainage Area	1775	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	10.75	22.60	37.97	22.40	82.00	39.32	26.00	21.40	10.60	12.60	8.88		
2	0.75	10.60	21.20	50.50	23.00	70.00	48.00	25.40	21.20	10.45	12.42	8.62		
3	0.70	10.45	19.77	50.00	23.40	80.50	61.00	25.00	21.00	10.45	12.25	8.37		
4	0.70	10.30	19.77	45.62	24.40	90.70	49.50	24.60	20.83	10.75	12.10	8.00		
5	0.65	10.15	19.77	40.90	25.20	70.00	40.67	24.80	20.65	11.20	11.95	7.62		
6	0.65	10.00	19.95	36.85	25.80	52.00	32.35	25.20	20.48	11.50	11.80	7.37		
7	0.85	10.00	21.20	32.13	25.20	78.10	30.60	26.80	20.12	11.95	11.65	7.13		
8	1.15	10.00	23.80	28.40	31.67	100.25	29.80	29.80	20.12	12.25	11.50	6.75		
9	1.67	9.70	31.45	24.40	53.00	80.50	28.00	29.20	20.12	12.77	11.50	6.50		
10	2.05	9.40	50.00	19.07	64.22	56.75	30.40	28.80	20.30	13.30	11.50	6.13		
11	2.43	9.25	32.13	23.80	65.32	44.95	39.78	30.00	20.30	13.82	11.35	5.62		
12	2.90	9.00	28.60	22.80	48.00	38.88	35.95	30.60	20.12	14.00	11.20	5.00		
13	3.40	8.62	28.00	22.80	36.85	35.50	33.02	27.20	19.95	14.35	11.05	4.50		
14	3.90	8.62	27.80	23.20	41.12	40.45	32.35	26.00	19.95	14.53	10.90	4.00		
15	4.50	8.50	29.60	24.00	49.25	46.08	32.13	25.40	19.77	14.70	10.75	3.50		
16	4.90	8.50	33.93	26.20	66.15	47.25	31.00	24.80	19.77	14.87	10.60	3.00		
17	6.62	8.37	37.97	32.13	87.10	47.50	30.20	24.00	19.77	14.87	10.45	2.90		
18	7.88	8.25	49.50	28.00	105.12	46.08	29.60	23.20	19.77	14.70	10.30	2.80		
19	9.40	7.88	39.32	28.80	41.80	35.50	29.00	23.20	19.60	14.53	10.15	2.70		
20	10.75	7.00	28.20	28.40	37.52	35.05	28.00	23.00	19.60	14.35	10.00	2.60		
21	11.80	5.75	24.80	28.80	36.85	34.37	27.00	22.80	19.60	14.18	10.00	2.50		
22	13.48	5.30	22.80	30.80	63.13	33.25	26.00	22.60	19.43	14.00	10.00	2.43		
23	13.65	5.00	22.20	28.80	73.60	31.00	25.00	22.40	19.43	13.82	9.85	2.35		
24	14.00	5.00	25.00	25.60	57.25	50.75	25.00	22.20	19.43	13.65	9.70	2.28		
25	14.18	11.20	24.80	26.80	38.20	79.00	25.00	22.00	19.25	13.48	9.55	2.20		
26	13.65	15.05	24.20	34.82	35.50	82.00	24.80	21.80	19.25	13.30	9.40	2.12		
27	13.48	17.67	23.00	52.75	32.80	75.70	24.80	21.60	19.25	13.13	9.25	1.98		
28	13.13	16.45	22.60	50.75	30.60	60.50	24.60	21.40	19.07	13.13	9.12	1.83		
29	12.95	12.95	22.40	40.90	38.65	53.00	24.60	21.20	19.07	12.95		1.67		
30	12.10	11.20	22.20	29.20	65.05	50.50	24.40	21.00	18.90	12.77		1.53		
31		10.00		26.40	80.50		24.00		18.90	12.60		1.38		
Total	199.02	300.91	818.56	1001.59	1448.65	1728.11	985.87	742.00	616.40	406.95	302.89	134.26	8685.21	CMSDAY
Mean	6.63	9.71	27.29	32.31	46.73	57.60	31.80	24.73	19.88	13.13	10.82	4.33	23.80	CMS
Max	14.18	17.67	50.00	52.75	105.12	100.25	61.00	30.60	21.40	14.87	12.60	8.88	105.12	CMS
Min	0.65	5.00	19.77	19.07	22.40	31.00	24.00	21.00	18.90	10.45	9.12	1.38	0.65	CMS
Runoff	17.20	26.00	70.72	86.54	125.16	149.31	85.18	64.11	53.26	35.16	26.17	11.60	750.40	MCM

Momentary Peak 108.38 CMS. at 138.35 m. (MSL.) at 18.00 Hours , on Aug 18 , 2014

Runoff Yield 13.41 Liters/Second/Square KM. Momentary Peak Yield 61.059 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Bo Rang , Phetchabun (S.42)

Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

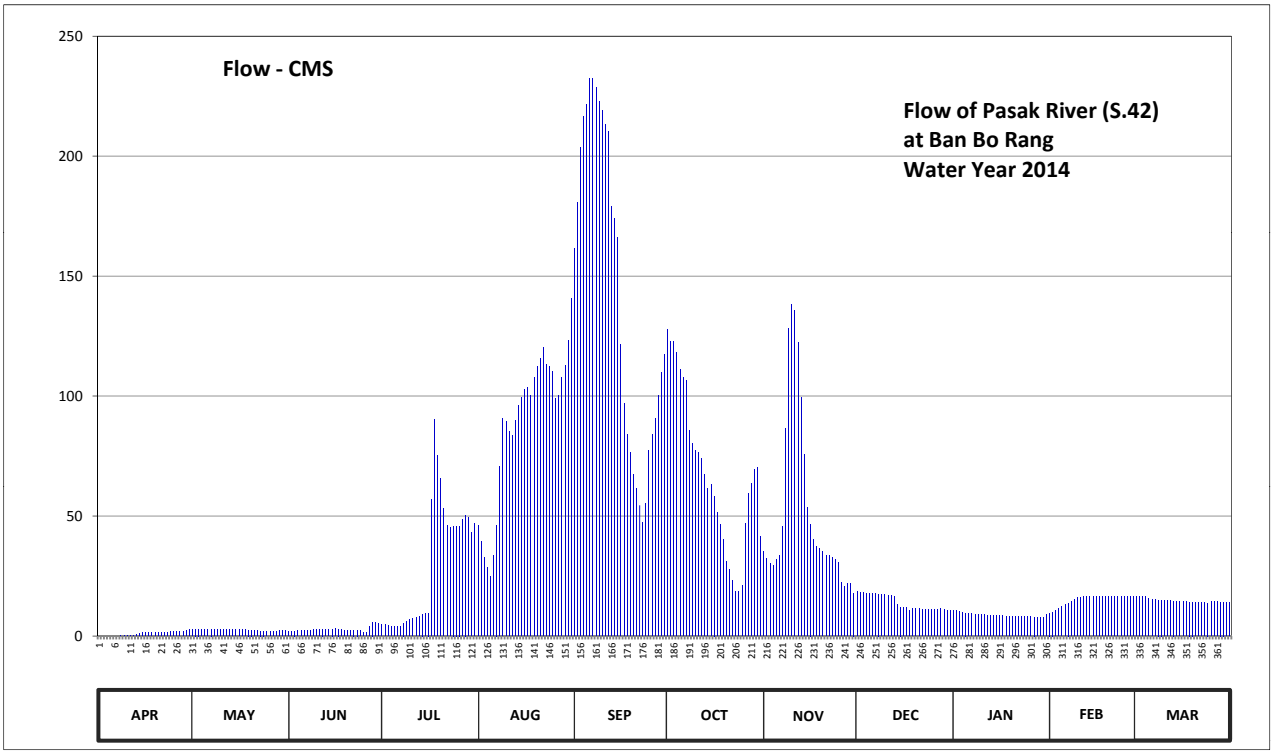
Location : on left bank at the bridge.

	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 Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +62.030 m. (MSL.) ,records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.61	53.36	53.16	53.72	56.98	61.17	60.16	56.38	55.24	54.45	54.35	55.05	
2	52.63	53.38	53.21	53.70	56.63	61.71	60.00	56.22	55.22	54.45	54.40	55.05	
3	52.62	53.38	53.23	53.65	56.24	62.32	60.00	56.09	55.20	54.42	54.47	55.05	
4	52.62	53.37	53.24	53.62	55.96	62.67	59.84	56.03	55.18	54.39	54.53	55.04	
5	52.64	53.37	53.24	53.60	55.71	62.80	59.61	56.18	55.18	54.35	54.62	54.98	
6	52.67	53.37	53.25	53.58	56.30	63.07	59.50	56.28	55.17	54.31	54.70	54.94	
7	52.69	53.38	53.25	53.60	56.99	63.07	59.46	56.96	55.16	54.30	54.78	54.93	
8	52.73	53.37	53.27	53.79	58.11	62.98	58.71	58.75	55.15	54.28	54.85	54.90	
9	52.72	53.37	53.33	53.89	58.90	62.83	58.50	60.17	55.14	54.28	54.93	54.90	
10	52.73	53.36	53.33	53.97	58.86	62.74	58.38	60.48	55.12	54.26	55.00	54.88	
11	52.75	53.35	53.32	54.06	58.69	62.58	58.34	60.40	55.10	54.25	55.00	54.88	
12	52.80	53.34	53.38	54.11	58.63	62.50	58.25	59.98	55.10	54.23	55.05	54.88	
13	52.93	53.33	53.36	54.15	58.87	61.67	57.98	59.21	55.05	54.21	55.05	54.86	
14	52.99	53.35	53.35	54.29	59.10	61.52	57.71	58.31	54.70	54.20	55.05	54.85	
15	53.08	53.35	53.39	54.34	59.21	61.30	57.78	57.35	54.61	54.20	55.05	54.85	
16	53.08	53.35	53.40	54.35	59.33	59.96	57.57	57.01	54.60	54.20	55.05	54.85	
17	53.08	53.35	53.39	57.50	59.35	59.13	57.25	56.67	54.58	54.20	55.04	54.85	
18	53.09	53.35	53.34	58.89	59.25	58.65	57.00	56.50	54.48	54.15	55.04	54.82	
19	53.10	53.30	53.29	58.30	59.50	58.34	56.66	56.45	54.55	54.15	55.04	54.82	
20	53.10	53.30	53.28	57.90	59.65	57.98	56.13	56.38	54.54	54.15	55.04	54.80	
21	53.11	53.29	53.29	57.33	59.76	57.71	55.91	56.30	54.53	54.15	55.04	54.80	
22	53.11	53.24	53.30	56.98	59.91	57.40	55.60	56.30	54.52	54.14	55.04	54.80	
23	53.11	53.23	53.30	56.93	59.68	57.04	55.24	56.25	54.51	54.14	55.04	54.80	
24	53.14	53.22	53.26	56.97	59.65	57.44	55.23	56.20	54.50	54.14	55.04	54.78	
25	53.20	53.21	53.10	56.97	59.58	58.38	55.44	56.12	54.50	54.14	55.05	54.85	
26	53.20	53.20	53.12	56.97	59.20	58.65	57.03	55.54	54.50	54.14	55.05	54.83	
27	53.20	53.20	53.62	57.11	59.25	58.90	57.62	55.42	54.50	54.12	55.05	54.83	
28	53.20	53.21	53.85	57.20	59.50	59.25	57.80	55.51	54.53	54.10	55.05	54.82	
29	53.24	53.28	53.80	57.15	59.66	59.56	58.05	55.50	54.52	54.10		54.82	
30	53.35	53.28	53.74	56.84	60.01	59.81	58.09	55.19	54.46	54.10		54.81	
31		53.26		57.03	60.55		56.75		54.45	54.25		54.81	
Mean	52.95	53.31	53.35	55.56	58.68	60.44	57.79	57.00	54.79	54.22	54.91	54.88	
Max	53.35	53.38	53.85	58.89	60.55	63.07	60.16	60.48	55.24	54.45	55.05	55.05	63.07
Min	52.61	53.20	53.10	53.58	55.71	57.04	55.23	55.19	54.45	54.10	54.35	54.78	52.61

Annual Max Momentary Gage Height	63.08	m. (MSL.) ,	at 15.00 Hours , on Sep 6 , 2014		
Zero Gage at Bottom Elevation	51.80	m. (MSL.) ,	River Bed	52.61	m. (MSL.)
Left Bank Elevation	63.03	m. (MSL.) ,			
Right Bank Elevation	62.93	m. (MSL.) ,	Drainage Area	7233	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.80	1.80	4.90	46.10	161.70	127.95	35.15	18.50	10.50	9.62	16.50		
2	0.00	2.90	2.05	4.75	39.53	180.62	123.00	32.35	18.25	10.50	10.00	16.50		
3	0.00	2.90	2.15	4.38	32.70	203.50	123.00	30.35	18.00	10.20	10.70	16.50		
4	0.00	2.85	2.20	4.15	28.40	216.62	118.20	29.45	17.80	9.92	11.30	16.40		
5	0.00	2.85	2.20	4.00	24.65	221.50	111.30	31.70	17.80	9.62	12.20	15.80		
6	0.00	2.85	2.25	3.90	33.75	232.30	108.00	33.40	17.70	9.33	13.00	15.40		
7	0.00	2.90	2.25	4.00	46.30	232.30	106.80	45.70	17.60	9.25	13.80	15.30		
8	0.07	2.85	2.35	5.43	70.75	228.70	85.75	86.75	17.50	9.10	14.50	15.00		
9	0.05	2.85	2.65	6.17	90.75	222.70	80.50	128.27	17.40	9.10	15.30	15.00		
10	0.07	2.80	2.65	6.78	89.65	219.25	77.50	138.35	17.20	8.95	16.00	14.80		
11	0.12	2.75	2.60	7.45	85.25	213.25	76.50	135.75	17.00	8.87	16.00	14.80		
12	0.25	2.70	2.90	7.83	83.75	210.25	74.25	122.40	17.00	8.72	16.50	14.80		
13	0.65	2.65	2.80	8.13	89.92	179.20	67.55	99.30	16.50	8.57	16.50	14.60		
14	0.95	2.75	2.75	9.17	96.25	173.95	61.47	75.75	13.00	8.50	16.50	14.50		
15	1.40	2.75	2.95	9.55	99.30	166.25	63.05	53.50	12.10	8.50	16.50	14.50		
16	1.40	2.75	3.00	9.62	102.90	121.80	58.32	46.70	12.00	8.50	16.50	14.50		
17	1.40	2.75	2.95	56.75	103.50	97.08	51.50	40.22	11.80	8.50	16.40	14.50		
18	1.45	2.75	2.70	90.47	100.50	84.25	46.50	37.25	10.80	8.13	16.40	14.20		
19	1.50	2.50	2.45	75.50	108.00	76.50	40.05	36.38	11.50	8.13	16.40	14.20		
20	1.50	2.50	2.40	65.75	112.50	67.55	30.95	35.15	11.40	8.13	16.40	14.00		
21	1.55	2.45	2.45	53.10	115.80	61.47	27.65	33.75	11.30	8.13	16.40	14.00		
22	1.55	2.20	2.50	46.10	120.30	54.50	23.00	33.75	11.20	8.05	16.40	14.00		
23	1.55	2.15	2.50	45.10	113.40	47.30	18.50	32.87	11.10	8.05	16.40	14.00		
24	1.70	2.10	2.30	45.90	112.50	55.40	18.37	32.00	11.00	8.05	16.40	13.80		
25	2.00	2.05	1.50	45.90	110.40	77.50	21.00	30.80	11.00	8.05	16.50	14.50		
26	2.00	2.00	1.60	45.90	99.00	84.25	47.10	22.25	11.00	8.05	16.50	14.30		
27	2.00	2.00	4.15	48.70	100.50	90.75	59.45	20.75	11.00	7.90	16.50	14.30		
28	2.00	2.05	5.87	50.50	108.00	100.50	63.50	21.87	11.30	7.75	16.50	14.20		
29	2.20	2.40	5.50	49.50	112.80	109.80	69.25	21.75	11.20	7.75		14.20		
30	2.75	2.40	5.05	43.30	123.30	117.30	70.25	17.90	10.60	7.75		14.10		
31		2.30		47.10	140.63		41.63		10.50	8.87		14.10		
Total	30.11	79.50	83.47	909.78	2741.08	4308.04	2091.84	1541.56	432.05	269.42	422.12	457.30	13366.27	CMSDAY
Mean	1.00	2.56	2.78	29.35	88.42	143.60	67.48	51.39	13.94	8.69	15.08	14.75	36.62	CMS
Max	2.75	2.90	5.87	90.47	140.63	232.30	127.95	138.35	18.50	10.50	16.50	16.50	232.30	CMS
Min	0.00	2.00	1.50	3.90	24.65	47.30	18.37	17.90	10.50	7.75	9.62	13.80	0.00	CMS
Runoff	2.60	6.87	7.21	78.61	236.83	372.22	180.74	133.19	37.33	23.28	36.47	39.51	1154.85	MCM

Momentary Peak 232.70 CMS. at 63.08 m. (MSL.) at 15.00 Hours , on Sep 6 , 2014

Runoff Yield 5.06 Liters/Second/Square KM. Momentary Peak Yield 32.172 Liters/Second/Square KM.

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Sao Hai , Saraburi (S.44)

Lat 14 - 32 - 48 N Long 100 - 53 - 25 E

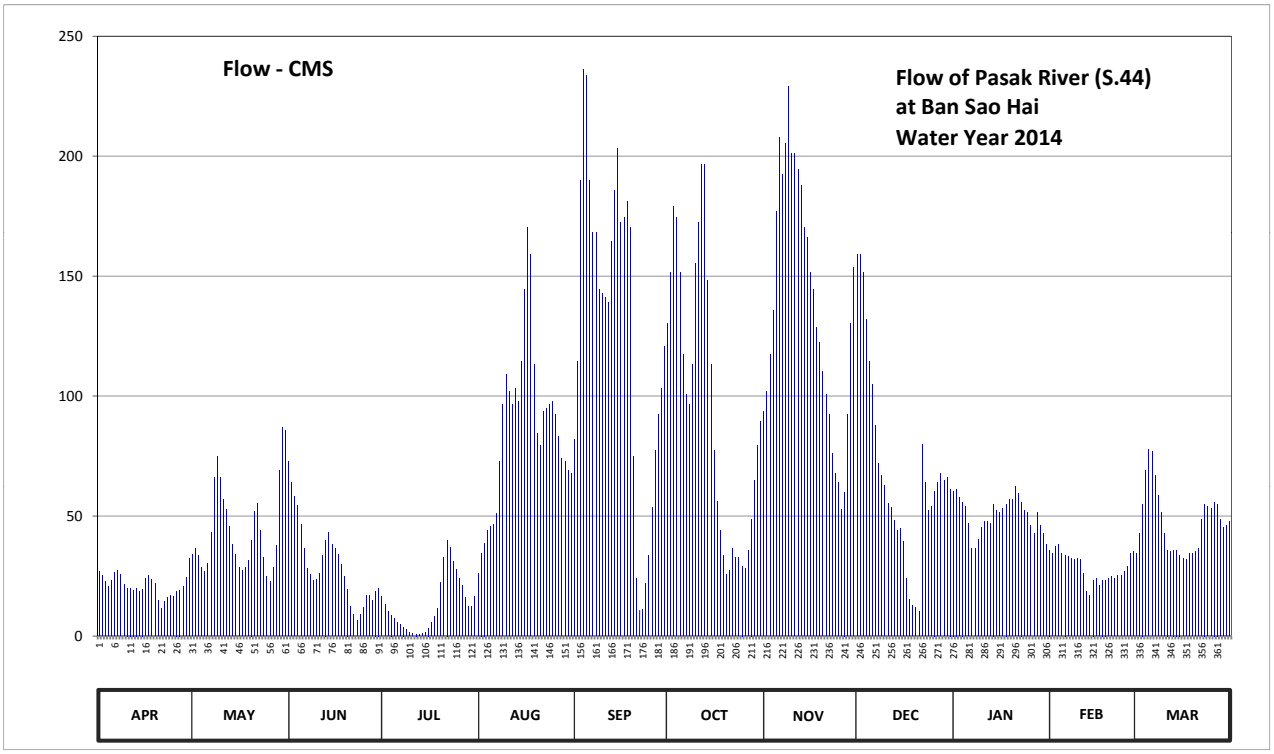
Location : on right bank at Ban Sao Hai.

	Ban Sao Hai	**Amphoe** Sao Hai	**Changwat** Saraburi
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 right bank at the abutment of the bridge.	**Elevation**	- m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2014 to date		
Rating Operation			
Period of Rating	2014 to date		
Rated by Flot	-		
Rated by Current Meter	2014 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 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.27	6.40	6.87	6.01	6.25	6.95	7.29	7.04	7.45	5.86	5.57	5.55	
2	6.23	6.44	6.78	5.93	6.41	7.19	7.41	7.10	7.45	5.87	5.55	5.66	
3	6.17	6.39	6.72	5.81	6.48	7.60	7.55	7.21	7.41	5.83	5.59	5.80	
4	6.12	6.31	6.68	5.74	6.55	7.80	7.53	7.32	7.30	5.81	5.60	5.95	
5	6.18	6.27	6.58	5.67	6.57	7.79	7.41	7.54	7.19	5.79	5.55	6.04	
6	6.26	6.34	6.44	5.58	6.58	7.60	7.21	7.68	7.12	5.71	5.54	6.03	
7	6.28	6.54	6.30	5.54	6.64	7.50	7.09	7.61	7.00	5.58	5.53	5.93	
8	6.24	6.80	6.24	5.48	6.87	7.50	7.06	7.67	6.86	5.58	5.52	5.84	
9	6.14	6.89	6.18	5.38	7.06	7.37	7.18	7.77	6.81	5.63	5.51	5.76	
10	6.10	6.80	6.19	5.24	7.15	7.36	7.43	7.65	6.77	5.69	5.52	5.66	
11	6.10	6.71	6.25	5.20	7.10	7.35	7.52	7.65	6.69	5.72	5.51	5.57	
12	6.08	6.66	6.39	5.17	7.06	7.34	7.63	7.62	6.67	5.72	5.43	5.56	
13	6.10	6.57	6.50	5.15	7.11	7.48	7.63	7.59	6.60	5.71	5.32	5.57	
14	6.06	6.47	6.54	5.18	7.07	7.58	7.39	7.51	6.55	5.80	5.30	5.57	
15	6.09	6.40	6.47	5.26	7.19	7.66	7.18	7.49	6.56	5.77	5.39	5.54	
16	6.20	6.31	6.44	5.43	7.37	7.52	6.91	7.41	6.49	5.76	5.40	5.52	
17	6.23	6.28	6.40	5.59	7.51	7.53	6.70	7.37	6.20	5.78	5.36	5.51	
18	6.19	6.31	6.33	5.70	7.45	7.56	6.55	7.28	5.98	5.80	5.39	5.55	
19	6.15	6.36	6.22	5.88	7.18	7.51	6.39	7.24	5.92	5.82	5.39	5.55	
20	5.97	6.50	6.09	6.16	6.97	6.89	6.24	7.16	5.90	5.82	5.40	5.56	
21	5.88	6.65	5.91	6.38	6.93	6.20	6.28	7.09	5.82	5.88	5.41	5.58	
22	5.96	6.69	5.75	6.50	7.04	5.84	6.44	7.03	6.06	5.85	5.40	5.73	
23	6.00	6.55	5.62	6.45	7.05	5.85	6.38	6.90	5.90	5.81	5.42	5.80	
24	6.02	6.38	5.75	6.35	7.06	6.15	6.38	6.82	5.77	5.77	5.42	5.79	
25	6.01	6.22	5.89	6.29	7.07	6.39	6.32	6.78	5.79	5.76	5.44	5.78	
26	6.07	6.17	6.02	6.20	7.03	6.67	6.30	6.66	5.86	5.70	5.47	5.81	
27	6.08	6.31	6.02	6.13	6.96	6.91	6.43	6.74	5.90	5.66	5.55	5.80	
28	6.12	6.46	5.97	6.00	6.88	7.03	6.61	7.03	5.94	5.76	5.56	5.73	
29	6.21	6.83	6.07	5.91	6.87	7.11	6.79	7.29	5.91	5.70		5.69	
30	6.37	6.99	6.10	5.91	6.83	7.23	6.93	7.42	5.92	5.66		5.70	
31		6.98		6.01	6.82		7.01		5.87	5.60		5.72	
Mean	6.13	6.52	6.26	5.78	6.94	7.15	6.94	7.29	6.44	5.75	5.47	5.70	
Max	6.37	6.99	6.87	6.50	7.51	7.80	7.63	7.77	7.45	5.88	5.60	6.04	7.80
Min	5.88	6.17	5.62	5.15	6.25	5.84	6.24	6.66	5.77	5.58	5.30	5.51	5.15

Annual Max Momentary Gage Height	7.88	m. (MSL.) ,	at 17.00 Hours , on Sep 4 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-0.03	m. (MSL)
Left Bank Elevation	16.50	m. (MSL.) ,			
Right Bank Elevation	16.54	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.80	34.00	73.00	16.40	26.00	82.00	130.40	93.60	159.00	60.40	35.90	34.50		
2	25.20	36.40	64.00	13.20	34.60	114.60	151.80	102.00	159.00	61.30	34.50	42.80		
3	22.80	33.40	58.00	10.20	38.80	190.00	179.00	117.60	151.80	57.70	37.30	55.00		
4	20.80	28.60	54.40	8.80	44.00	236.00	174.60	135.60	132.00	55.90	38.00	69.00		
5	23.20	26.80	46.40	7.40	45.60	233.60	151.80	176.80	114.60	54.10	34.50	78.00		
6	26.40	30.40	36.40	5.60	46.40	190.00	117.60	207.60	104.80	46.90	33.80	77.00		
7	27.20	43.20	28.00	4.80	51.20	168.00	100.60	192.20	88.00	36.60	33.10	67.00		
8	25.60	66.00	25.60	3.80	73.00	168.00	96.40	205.40	72.00	36.60	32.40	58.60		
9	21.60	75.00	23.20	2.80	96.40	144.60	113.20	228.80	67.00	40.40	31.70	51.40		
10	20.00	66.00	23.60	1.40	109.00	142.80	155.40	201.00	63.00	45.20	32.40	42.80		
11	20.00	57.00	26.00	1.00	102.00	141.00	172.40	201.00	55.20	47.80	31.70	35.90		
12	19.20	52.80	33.40	0.85	96.40	139.20	196.60	194.40	53.60	47.80	26.10	35.20		
13	20.00	45.60	40.00	0.75	103.40	164.40	196.60	187.80	48.00	46.90	18.40	35.90		
14	18.40	38.20	43.20	0.90	97.80	185.60	148.20	170.20	44.00	55.00	17.00	35.90		
15	19.60	34.00	38.20	1.60	114.60	203.20	113.20	166.20	44.80	52.30	23.30	33.80		
16	24.00	28.60	36.40	3.30	144.60	172.40	77.20	151.80	39.40	51.40	24.00	32.40		
17	25.20	27.20	34.00	5.80	170.20	174.60	56.00	144.60	24.00	53.20	21.20	31.70		
18	23.60	28.60	29.80	8.00	159.00	181.20	44.00	128.80	15.20	55.00	23.30	34.50		
19	22.00	31.60	24.80	11.60	113.20	170.20	33.40	122.40	12.80	56.80	23.30	34.50		
20	14.80	40.00	19.60	22.40	84.40	75.00	25.60	110.40	12.00	56.80	24.00	35.20		
21	11.60	52.00	12.40	32.80	79.60	24.00	27.20	100.60	10.40	62.20	24.70	36.60		
22	14.40	55.20	9.00	40.00	93.60	10.80	36.40	92.20	80.00	59.50	24.00	48.70		
23	16.00	44.00	6.40	37.00	95.00	11.00	32.80	76.00	64.00	55.90	25.40	55.00		
24	16.80	32.80	9.00	31.00	96.40	22.00	32.80	68.00	52.30	52.30	25.40	54.10		
25	16.40	24.80	11.80	27.60	97.80	33.40	29.20	64.00	54.10	51.40	26.80	53.20		
26	18.80	22.80	16.80	24.00	92.20	53.60	28.00	52.80	60.40	46.00	28.90	55.90		
27	19.20	28.60	16.80	21.20	83.20	77.20	35.80	60.00	64.00	42.80	34.50	55.00		
28	20.80	37.60	14.80	16.00	74.00	92.20	48.80	92.20	68.00	51.40	35.20	48.70		
29	24.40	69.00	18.80	12.40	73.00	103.40	65.00	130.40	65.00	46.00		45.20		
30	32.20	86.80	20.00	12.40	69.00	120.80	79.60	153.60	66.00	42.80		46.00		
31		85.60		16.40	68.00		89.40		61.30	38.00		47.80		
Total	637.00	1362.60	893.80	401.40	2672.40	3824.80	2939.00	4128.00	2105.70	1566.40	800.80	1467.30	22799.20	CMSDAY
Mean	21.23	43.95	29.79	12.95	86.21	127.49	94.81	137.60	67.93	50.53	28.60	47.33	62.46	CMS
Max	32.20	86.80	73.00	40.00	170.20	236.00	196.60	228.80	159.00	62.20	38.00	78.00	236.00	CMS
Min	11.60	22.80	6.40	0.75	26.00	10.80	25.60	52.80	10.40	36.60	17.00	31.70	0.75	CMS
Runoff	55.04	117.73	77.22	34.68	230.90	330.46	253.93	356.66	181.93	135.34	69.19	126.78	1969.85	MCM

Momentary Peak 255.20 CMS. at 7.88 m. (MSL.) at 17.00 Hours , on Sep 4 , 2014

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

WATER YEAR : 2014

THA CHIN BASIN

Upper Huai Kra Sieo at Ban Pha Thang, Uthai Thani (T.11)

Lat 15 - 06 - 13 N Long 99 - 32 - 16 E

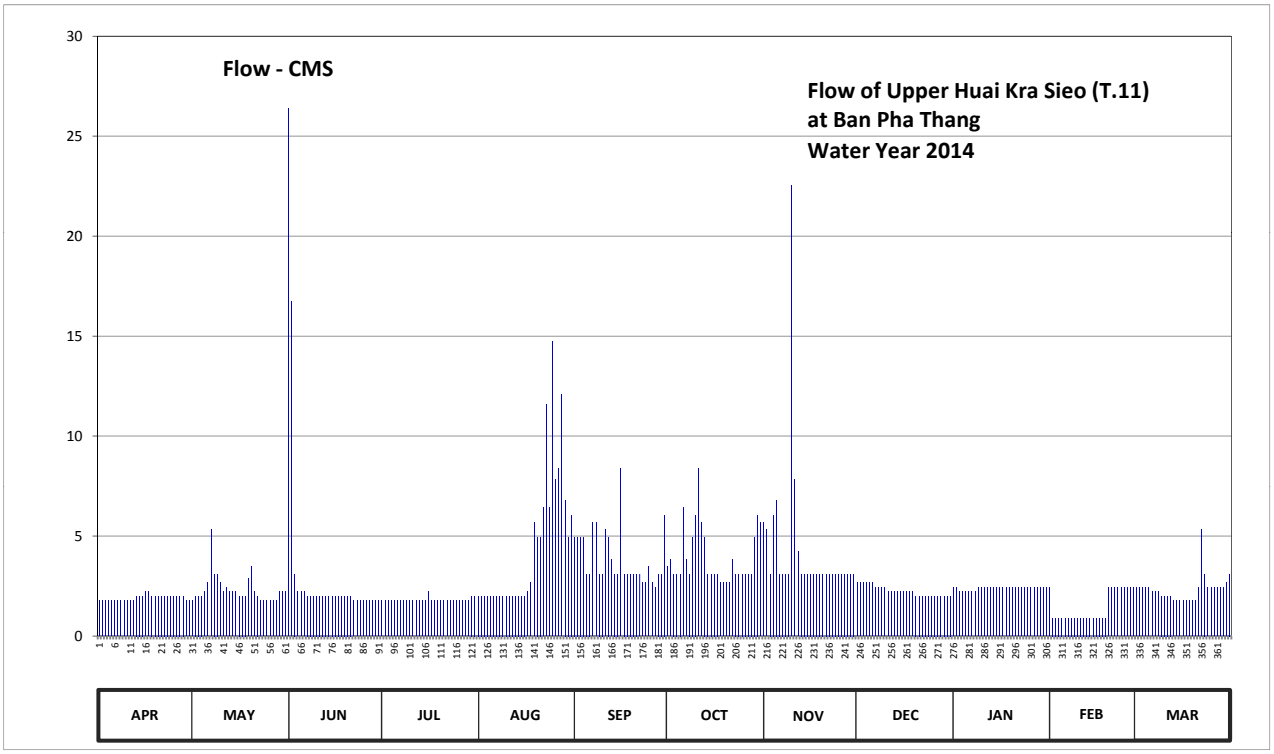
Location : on left bank at Ban Pha Thang

	Ban Pha Thang	**Amphoe**	Ban Rai	**Changwat**	Uthai Thani
Drainge Area	355 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 bridge			**Elevation**	+134.608 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	2008 to date				
Rating Operation					
Period of Rating	2008 to date				
Rated by Flot	-				
Rated by Current Meter	2008 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	129.14	129.14	129.60	129.14	129.15	129.25	129.21	129.27	129.18	129.17	129.17	129.17	
2	129.14	129.15	129.47	129.14	129.15	129.25	129.22	129.26	129.18	129.17	129.10	129.17	
3	129.14	129.15	129.20	129.14	129.15	129.25	129.20	129.20	129.18	129.16	129.10	129.17	
4	129.14	129.15	129.16	129.14	129.15	129.25	129.20	129.28	129.18	129.16	129.10	129.17	
5	129.14	129.16	129.16	129.14	129.15	129.20	129.20	129.30	129.18	129.16	129.10	129.17	
6	129.14	129.18	129.16	129.14	129.15	129.20	129.29	129.20	129.18	129.16	129.10	129.16	
7	129.14	129.26	129.15	129.14	129.15	129.27	129.22	129.20	129.17	129.16	129.10	129.16	
8	129.14	129.20	129.15	129.14	129.15	129.27	129.20	129.20	129.17	129.16	129.10	129.16	
9	129.14	129.20	129.15	129.14	129.15	129.20	129.25	129.20	129.17	129.17	129.10	129.15	
10	129.14	129.18	129.15	129.14	129.15	129.20	129.28	129.55	129.17	129.17	129.10	129.15	
11	129.14	129.16	129.15	129.14	129.15	129.26	129.33	129.32	129.16	129.17	129.10	129.15	
12	129.14	129.17	129.15	129.14	129.15	129.25	129.27	129.23	129.16	129.17	129.10	129.15	
13	129.15	129.16	129.15	129.14	129.15	129.22	129.25	129.20	129.16	129.17	129.10	129.14	
14	129.15	129.16	129.15	129.14	129.15	129.20	129.20	129.20	129.16	129.17	129.10	129.14	
15	129.15	129.16	129.15	129.14	129.15	129.20	129.20	129.20	129.16	129.17	129.10	129.14	
16	129.16	129.15	129.15	129.16	129.15	129.33	129.20	129.20	129.16	129.17	129.10	129.14	
17	129.16	129.15	129.15	129.14	129.16	129.20	129.20	129.20	129.16	129.17	129.10	129.14	
18	129.15	129.15	129.15	129.14	129.18	129.20	129.18	129.20	129.16	129.17	129.10	129.14	
19	129.15	129.19	129.15	129.14	129.27	129.20	129.18	129.20	129.16	129.17	129.10	129.14	
20	129.15	129.21	129.15	129.14	129.25	129.20	129.18	129.20	129.15	129.17	129.17	129.14	
21	129.15	129.16	129.15	129.14	129.25	129.20	129.18	129.20	129.15	129.17	129.17	129.17	
22	129.15	129.15	129.14	129.14	129.29	129.20	129.22	129.20	129.15	129.17	129.17	129.26	
23	129.15	129.14	129.14	129.14	129.39	129.18	129.20	129.20	129.15	129.17	129.17	129.20	
24	129.15	129.14	129.14	129.14	129.29	129.18	129.20	129.20	129.15	129.17	129.17	129.17	
25	129.15	129.14	129.14	129.14	129.44	129.21	129.20	129.20	129.15	129.17	129.17	129.17	
26	129.15	129.14	129.14	129.14	129.32	129.18	129.20	129.20	129.15	129.17	129.17	129.17	
27	129.15	129.14	129.14	129.14	129.33	129.17	129.20	129.20	129.15	129.17	129.17	129.17	
28	129.15	129.14	129.14	129.14	129.40	129.20	129.20	129.20	129.15	129.17	129.17	129.17	
29	129.14	129.16	129.14	129.14	129.30	129.20	129.25	129.20	129.15	129.17		129.17	
30	129.14	129.16	129.14	129.15	129.25	129.28	129.28	129.20	129.15	129.17		129.18	
31		129.16		129.15	129.28		129.27		129.15	129.17		129.20	
Mean	129.15	129.16	129.18	129.14	129.22	129.22	129.22	129.23	129.16	129.17	129.12	129.16	
Max	129.16	129.26	129.60	129.16	129.44	129.33	129.33	129.55	129.18	129.17	129.17	129.26	129.60
Min	129.14	129.14	129.14	129.14	129.15	129.17	129.18	129.20	129.15	129.16	129.10	129.14	129.10

Annual Max Momentary Gage Height	129.60	m. (MSL.) ,	at 06.00 Hours , on Aug 25 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	128.05	M (MSL)
Left Bank Elevation	134.55	m. (MSL.) ,			
Right Bank Elevation	134.54	m. (MSL.) ,	Drainage Area	355	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.78	1.78	26.40	1.78	2.00	4.95	3.47	5.69	2.66	2.44	2.44	2.44		
2	1.78	2.00	16.72	1.78	2.00	4.95	3.84	5.32	2.66	2.44	0.90	2.44		
3	1.78	2.00	3.10	1.78	2.00	4.95	3.10	3.10	2.66	2.22	0.90	2.44		
4	1.78	2.00	2.22	1.78	2.00	4.95	3.10	6.06	2.66	2.22	0.90	2.44		
5	1.78	2.22	2.22	1.78	2.00	3.10	3.10	6.80	2.66	2.22	0.90	2.44		
6	1.78	2.66	2.22	1.78	2.00	3.10	6.43	3.10	2.66	2.22	0.90	2.22		
7	1.78	5.32	2.00	1.78	2.00	5.69	3.84	3.10	2.44	2.22	0.90	2.22		
8	1.78	3.10	2.00	1.78	2.00	5.69	3.10	3.10	2.44	2.22	0.90	2.22		
9	1.78	3.10	2.00	1.78	2.00	3.10	4.95	3.10	2.44	2.44	0.90	2.00		
10	1.78	2.66	2.00	1.78	2.00	3.10	6.06	22.55	2.44	2.44	0.90	2.00		
11	1.78	2.22	2.00	1.78	2.00	5.32	8.39	7.86	2.22	2.44	0.90	2.00		
12	1.78	2.44	2.00	1.78	2.00	4.95	5.69	4.21	2.22	2.44	0.90	2.00		
13	2.00	2.22	2.00	1.78	2.00	3.84	4.95	3.10	2.22	2.44	0.90	1.78		
14	2.00	2.22	2.00	1.78	2.00	3.10	3.10	3.10	2.22	2.44	0.90	1.78		
15	2.00	2.22	2.00	1.78	2.00	3.10	3.10	3.10	2.22	2.44	0.90	1.78		
16	2.22	2.00	2.00	2.22	2.00	8.39	3.10	3.10	2.22	2.44	0.90	1.78		
17	2.22	2.00	2.00	1.78	2.22	3.10	3.10	3.10	2.22	2.44	0.90	1.78		
18	2.00	2.00	2.00	1.78	2.66	3.10	2.66	3.10	2.22	2.44	0.90	1.78		
19	2.00	2.88	2.00	1.78	5.69	3.10	2.66	3.10	2.22	2.44	0.90	1.78		
20	2.00	3.47	2.00	1.78	4.95	3.10	2.66	3.10	2.00	2.44	2.44	1.78		
21	2.00	2.22	2.00	1.78	4.95	3.10	2.66	3.10	2.00	2.44	2.44	2.44		
22	2.00	2.00	1.78	1.78	6.43	3.10	3.84	3.10	2.00	2.44	2.44	5.32		
23	2.00	1.78	1.78	1.78	11.57	2.66	3.10	3.10	2.00	2.44	2.44	3.10		
24	2.00	1.78	1.78	1.78	6.43	2.66	3.10	3.10	2.00	2.44	2.44	2.44		
25	2.00	1.78	1.78	1.78	14.74	3.47	3.10	3.10	2.00	2.44	2.44	2.44		
26	2.00	1.78	1.78	1.78	7.86	2.66	3.10	3.10	2.00	2.44	2.44	2.44		
27	2.00	1.78	1.78	1.78	8.39	2.44	3.10	3.10	2.00	2.44	2.44	2.44		
28	2.00	1.78	1.78	1.78	12.10	3.10	3.10	3.10	2.00	2.44	2.44	2.44		
29	1.78	2.22	1.78	1.78	6.80	3.10	4.95	3.10	2.00	2.44		2.44		
30	1.78	2.22	1.78	2.00	4.95	6.06	6.06	3.10	2.00	2.44		2.66		
31		2.22		2.00	6.06		5.69		2.00	2.44		3.10		
Total	57.36	72.07	98.90	56.06	137.80	117.03	122.20	129.79	69.70	74.32	40.60	72.36	1048.19	CMSDAY
Mean	1.91	2.32	3.30	1.81	4.45	3.90	3.94	4.33	2.25	2.40	1.45	2.33	2.87	CMS
Max	2.22	5.32	26.40	2.22	14.74	8.39	8.39	22.55	2.66	2.44	2.44	5.32	26.40	CMS
Min	1.78	1.78	1.78	1.78	2.00	2.44	2.66	3.10	2.00	2.22	0.90	1.78	0.90	CMS
Runoff	4.96	6.23	8.55	4.84	11.91	10.11	10.56	11.21	6.02	6.42	3.51	6.25	90.56	MCM

Momentary Peak 26.40 CMS. at 129.60 m. (MSL.) at 06.00 Hours , on Aug 25 , 2011

Runoff Yield 8.09 Liters/Second/Square KM. Momentary Peak Yield 74.366 Liters/Second/Square KM.

WATER YEAR : 2014

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

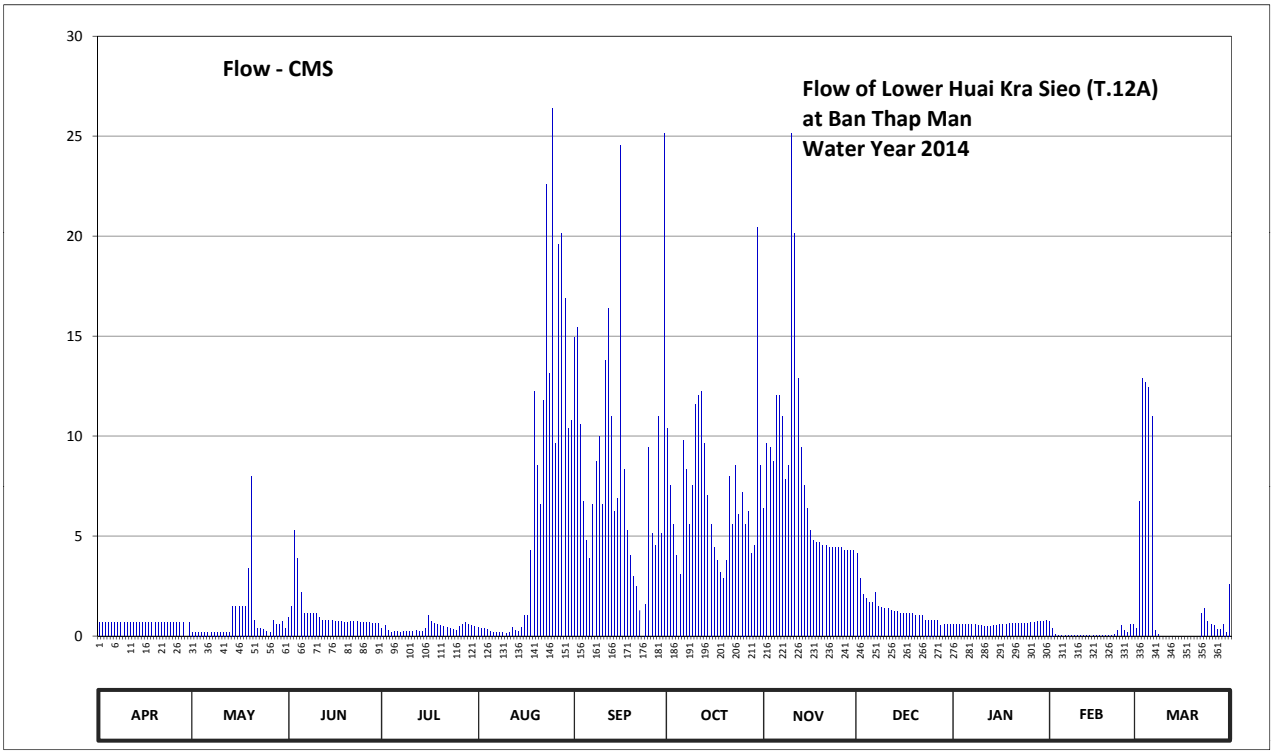
Location : on left bank at Ban Thap Man.

	Ban	Thap Man	**Amphoe**	Dan Chang	**Changwat** Suphan Buri
Drainge Area	686	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank near the bridge				**Elevation** +103.545 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2006 to date				
Rating Operation					
Period of Rating	2006 to date				
Rated by Flot	-				
Rated by Current Meter	2006 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow				
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.87	97.75	97.92	97.80	97.81	98.84	98.63	98.40	98.25	97.84	97.88	97.79	
2	97.87	97.75	98.00	97.83	97.80	98.86	98.47	98.59	98.14	97.84	97.80	98.42	
3	97.87	97.75	98.33	97.77	97.79	98.64	98.35	98.58	98.06	97.84	97.72	98.75	
4	97.87	97.75	98.23	97.75	97.78	98.42	98.24	98.54	98.04	97.84	97.71	98.74	
5	97.87	97.75	98.07	97.76	97.76	98.30	98.16	98.71	98.02	97.84	97.71	98.73	
6	97.87	97.75	97.95	97.76	97.75	98.23	98.60	98.71	98.02	97.84	97.71	98.66	
7	97.87	97.75	97.95	97.75	97.74	98.41	98.52	98.66	98.07	97.85	97.71	97.77	
8	97.87	97.75	97.95	97.76	97.74	98.54	98.35	98.49	98.00	97.85	97.71	97.72	
9	97.87	97.75	97.95	97.76	97.74	98.61	98.47	98.53	97.99	97.83	97.71	97.70	
10	97.87	97.75	97.95	97.76	97.73	98.41	98.69	99.23	97.98	97.83	97.71	97.70	
11	97.87	97.75	97.92	97.76	97.74	98.79	98.71	99.05	97.98	97.82	97.71	97.70	
12	97.87	97.75	97.90	97.77	97.81	98.90	98.72	98.75	97.97	97.82	97.71	97.69	
13	97.87	97.75	97.89	97.76	97.77	98.66	98.59	98.58	97.96	97.82	97.71	97.68	
14	97.87	98.00	97.89	97.76	97.76	98.39	98.44	98.47	97.96	97.83	97.71	97.68	
15	97.87	98.00	97.89	97.80	97.81	98.43	98.35	98.40	97.95	97.83	97.71	97.68	
16	97.87	98.00	97.88	97.93	97.93	99.21	98.27	98.33	97.95	97.84	97.71	97.68	
17	97.87	98.00	97.88	97.88	97.93	98.52	98.22	98.30	97.95	97.84	97.71	97.68	
18	97.87	98.00	97.88	97.86	98.26	98.33	98.17	98.29	97.95	97.85	97.71	97.68	
19	97.87	98.19	97.87	97.85	98.72	98.24	98.14	98.29	97.95	97.86	97.71	97.68	
20	97.87	98.50	97.87	97.83	98.53	98.15	98.22	98.28	97.93	97.86	97.71	97.68	
21	97.87	97.90	97.88	97.82	98.41	98.10	98.50	98.28	97.93	97.86	97.71	97.70	
22	97.87	97.80	97.88	97.81	98.70	97.97	98.35	98.27	97.93	97.86	97.72	97.95	
23	97.87	97.79	97.88	97.79	99.14	97.13	98.53	98.27	97.90	97.86	97.77	97.98	
24	97.87	97.78	97.87	97.78	98.76	98.01	98.38	98.27	97.90	97.86	97.83	97.88	
25	97.87	97.76	97.87	97.77	99.27	98.58	98.45	98.27	97.90	97.86	97.77	97.84	
26	97.87	97.75	97.87	97.82	98.59	98.32	98.35	98.27	97.90	97.87	97.74	97.83	
27	97.87	97.90	97.87	97.85	99.03	98.28	98.39	98.26	97.89	97.87	97.85	97.78	
28	97.87	97.85	97.86	97.87	99.05	98.66	98.25	98.26	97.83	97.88	97.84	97.78	
29	48.94	97.85	97.86	97.84	98.92	98.32	98.28	98.26	97.84	97.88		97.85	
30	97.87	97.88	97.86	97.83	98.63	99.23	99.06	98.26	97.84	97.88		97.75	
31		97.80		97.82	98.65		98.53		97.84	97.89		98.11	
Mean	96.24	97.85	97.93	97.80	98.23	98.45	98.43	98.46	97.96	97.85	97.74	97.91	
Max	97.87	98.50	98.33	97.93	99.27	99.23	99.06	99.23	98.25	97.89	97.88	98.75	99.27
Min	48.94	97.75	97.86	97.75	97.73	97.13	98.14	98.26	97.83	97.82	97.71	97.68	48.94

Annual Max Momentary Gage Height	100.00	m. (MSL.) ,	at 06.00 Hours , on Aug 25 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	97.30	m. (MSL.)
Left Bank Elevation	103.23	m. (MSL.) ,			
Right Bank Elevation	103.26	m. (MSL.) ,	Drainage Area	686	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.68	0.20	0.94	0.40	0.44	14.96	10.40	6.40	4.15	0.56	0.72	0.36		
2	0.68	0.20	1.50	0.52	0.40	15.44	7.52	9.62	2.90	0.56	0.40	6.72		
3	0.68	0.20	5.28	0.28	0.36	10.60	5.60	9.44	2.10	0.56	0.08	12.90		
4	0.68	0.20	3.89	0.20	0.32	6.72	4.02	8.72	1.90	0.56	0.04	12.68		
5	0.68	0.20	2.20	0.24	0.24	4.80	3.10	12.02	1.70	0.56	0.04	12.46		
6	0.68	0.20	1.15	0.24	0.20	3.89	9.80	12.02	1.70	0.56	0.04	11.00		
7	0.68	0.20	1.15	0.20	0.16	6.56	8.36	11.00	2.20	0.60	0.04	0.28		
8	0.68	0.20	1.15	0.24	0.16	8.72	5.60	7.84	1.50	0.60	0.04	0.08		
9	0.68	0.20	1.15	0.24	0.16	10.00	7.52	8.54	1.43	0.52	0.04	0.00		
10	0.68	0.20	1.15	0.24	0.12	6.56	11.60	25.13	1.36	0.52	0.04	0.00		
11	0.68	0.20	0.94	0.24	0.16	13.78	12.02	20.15	1.36	0.48	0.04	0.00		
12	0.68	0.20	0.80	0.28	0.44	16.40	12.24	12.90	1.29	0.48	0.04	0.00		
13	0.68	0.20	0.76	0.24	0.28	11.00	9.62	9.44	1.22	0.48	0.04	0.00		
14	0.68	1.50	0.76	0.24	0.24	6.24	7.04	7.52	1.22	0.52	0.04	0.00		
15	0.68	1.50	0.76	0.40	0.44	6.88	5.60	6.40	1.15	0.52	0.04	0.00		
16	0.68	1.50	0.72	1.01	1.01	24.51	4.41	5.28	1.15	0.56	0.04	0.00		
17	0.68	1.50	0.72	0.72	1.01	8.36	3.76	4.80	1.15	0.56	0.04	0.00		
18	0.68	1.50	0.72	0.64	4.28	5.28	3.20	4.67	1.15	0.60	0.04	0.00		
19	0.68	3.40	0.68	0.60	12.24	4.02	2.90	4.67	1.15	0.64	0.04	0.00		
20	0.68	8.00	0.68	0.52	8.54	3.00	3.76	4.54	1.01	0.64	0.04	0.00		
21	0.68	0.80	0.72	0.48	6.56	2.50	8.00	4.54	1.01	0.64	0.04	0.00		
22	0.68	0.40	0.72	0.44	11.80	1.29	5.60	4.41	1.01	0.64	0.08	1.15		
23	0.68	0.36	0.72	0.36	22.58	0.00	8.54	4.41	0.80	0.64	0.28	1.36		
24	0.68	0.32	0.68	0.32	13.12	1.60	6.08	4.41	0.80	0.64	0.52	0.72		
25	0.68	0.24	0.68	0.28	26.37	9.44	7.20	4.41	0.80	0.64	0.28	0.56		
26	0.68	0.20	0.68	0.48	9.62	5.12	5.60	4.41	0.80	0.68	0.16	0.52		
27	0.68	0.80	0.68	0.60	19.61	4.54	6.24	4.28	0.76	0.68	0.60	0.32		
28	0.68	0.60	0.64	0.68	20.15	11.00	4.15	4.28	0.52	0.72	0.56	0.32		
29	0.00	0.60	0.64	0.56	16.88	5.12	4.54	4.28	0.56	0.72		0.60		
30	0.68	0.72	0.64	0.52	10.40	25.13	20.42	4.28	0.56	0.72		0.20		
31		0.40		0.48	10.80		8.54		0.56	0.76		2.60		
Total	19.72	26.94	33.90	12.89	199.09	253.46	222.98	234.81	40.97	18.56	4.40	64.83	1132.55	CMSDAY
Mean	0.66	0.87	1.13	0.42	6.42	8.45	7.19	7.83	1.32	0.60	0.16	2.09	3.10	CMS
Max	0.68	8.00	5.28	1.01	26.37	25.13	20.42	25.13	4.15	0.76	0.72	12.90	26.37	CMS
Min	0.00	0.20	0.64	0.20	0.12	0.00	2.90	4.28	0.52	0.48	0.04	0.00	0.00	CMS
Runoff	1.70	2.33	2.93	1.11	17.20	21.90	19.27	20.29	3.54	1.60	0.38	5.60	97.85	MCM

Momentary Peak 53.40 CMS. at 100.00 m. (MSL.) at 06.00 Hours , on Aug 25 , 2014

Runoff Yield 4.52 Liters/Second/Square KM. Momentary Peak Yield 77.843 Liters/Second/Square KM.

WATER YEAR : 2014

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	6,991 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 mean of 24 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 to date
Rated by Flot	-
Rated by Current Meter	1965 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 23 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

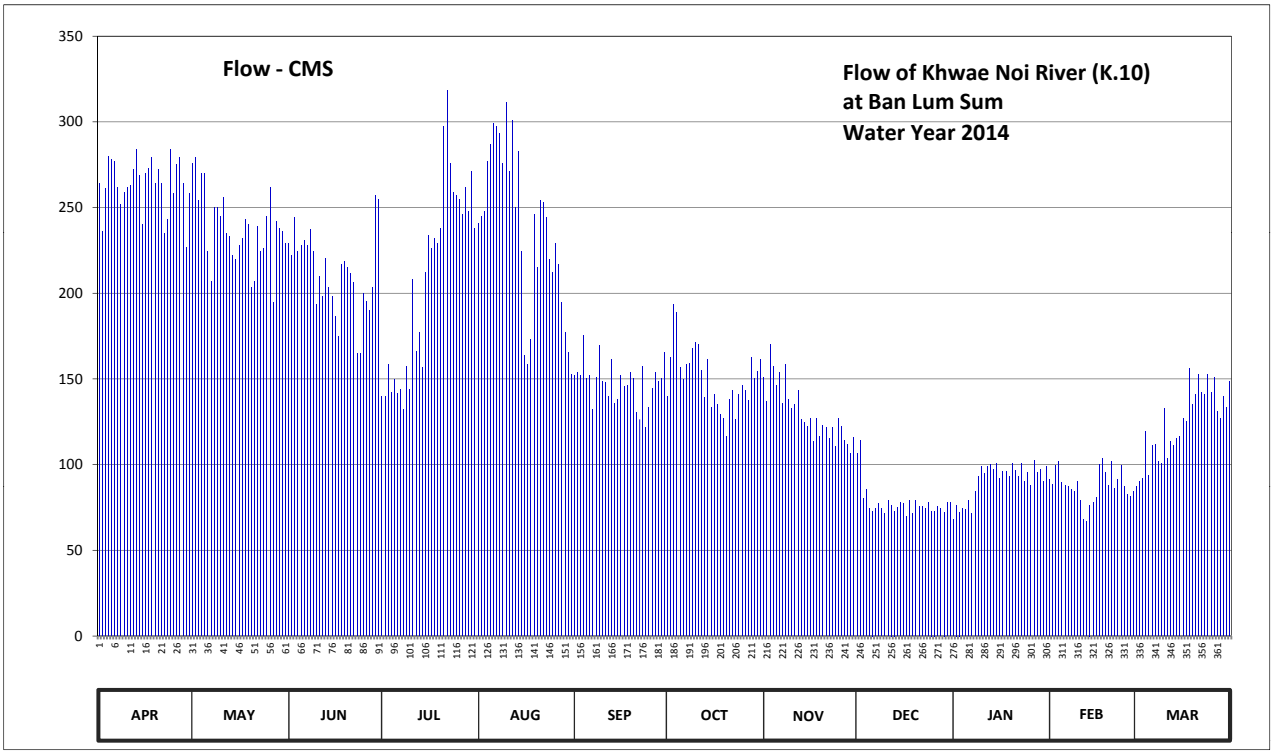
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.08	34.20	33.73	32.70	33.85	32.85	32.70	32.84	32.28	31.73	32.06	32.00	
2	33.80	34.23	33.66	32.70	33.89	32.87	32.98	32.66	32.38	31.85	32.02	32.05	
3	34.05	33.98	33.88	32.93	33.92	32.85	33.34	33.08	31.90	31.79	32.18	32.07	
4	34.24	34.14	33.68	32.73	34.21	33.14	33.29	32.92	31.98	31.82	32.21	32.44	
5	34.22	34.14	33.72	32.82	34.31	32.83	32.91	32.78	31.82	31.81	32.04	32.10	
6	34.21	33.68	33.75	32.72	34.43	32.85	32.82	32.87	31.80	31.89	32.01	32.34	
7	34.06	33.49	33.72	32.75	34.41	32.60	32.93	32.65	31.82	31.78	32.00	32.35	
8	33.96	33.94	33.81	32.60	34.37	32.84	32.94	32.93	31.86	31.96	31.98	32.21	
9	34.03	33.94	33.68	32.92	34.20	33.07	33.05	32.68	31.82	32.09	31.96	32.20	
10	34.06	33.89	33.34	32.75	34.55	32.81	33.09	32.61	31.78	32.17	32.05	32.61	
11	34.07	34.00	33.52	33.50	34.15	32.80	33.08	32.64	31.89	32.11	31.89	32.24	
12	34.16	33.79	33.39	33.03	34.45	32.70	32.89	32.74	31.85	32.17	31.73	32.37	
13	34.28	33.77	33.64	33.16	33.94	32.97	32.69	32.53	31.80	32.19	31.71	32.34	
14	34.13	33.66	33.45	32.91	34.27	32.65	32.97	32.51	31.83	32.15	31.85	32.39	
15	33.84	33.63	33.39	33.55	33.68	32.68	32.62	32.48	31.87	32.20	31.87	32.41	
16	34.14	33.72	33.26	33.78	33.00	32.85	32.71	32.54	31.86	32.07	31.91	32.54	
17	34.17	33.76	33.13	33.70	32.93	32.77	32.64	32.37	31.75	32.13	32.19	32.52	
18	34.23	33.87	33.60	33.76	33.11	32.78	32.57	32.54	31.89	32.13	32.24	32.90	
19	34.08	33.84	33.62	33.73	33.90	32.87	32.54	32.41	31.78	32.09	32.12	32.64	
20	34.16	33.45	33.58	33.82	33.58	32.83	32.41	32.49	31.89	32.20	32.01	32.71	
21	34.08	33.49	33.54	34.41	33.98	32.58	32.68	32.47	31.84	32.14	32.21	32.86	
22	33.79	33.83	33.48	34.62	33.97	32.53	32.74	32.39	31.84	32.09	31.99	32.73	
23	33.87	33.68	33.01	34.20	33.88	32.92	32.53	32.47	31.82	32.20	32.06	32.71	
24	34.28	33.70	33.01	34.03	33.63	32.47	32.71	32.33	31.87	32.05	32.18	32.86	
25	34.02	33.89	33.41	34.01	33.55	32.62	32.78	32.54	31.80	32.12	32.00	32.73	
26	34.19	34.06	33.36	33.99	33.73	32.76	32.74	32.48	31.80	32.01	31.94	32.84	
27	34.23	33.35	33.30	33.90	33.60	32.87	32.67	32.38	31.84	32.22	31.92	32.59	
28	34.08	33.86	33.45	34.06	33.35	32.81	32.98	32.35	31.82	32.12	31.96	32.54	
29	33.71	33.82	34.01	33.92	33.16	32.83	32.83	32.28	31.79	32.15		32.70	
30	34.02	33.80	33.99	34.15	33.02	33.02	32.88	32.40	31.87	32.05		32.62	
31		33.73		33.82	32.86		32.97		31.87	32.17		32.81	
Mean	34.07	33.82	33.54	33.47	33.80	32.80	32.83	32.58	31.87	32.05	32.01	32.50	
Max	34.28	34.23	34.01	34.62	34.55	33.14	33.34	33.08	32.38	32.22	32.24	32.90	34.62
Min	33.71	33.35	33.01	32.60	32.86	32.47	32.41	32.28	31.75	31.73	31.71	32.00	31.71

Annual Max Momentary Gage Height 35.05 m. (MSL.) , at 24.00 Hours , on Jun 29 , 2014

Zero Gage at Bottom Elevation 30.40 m. (MSL.) , River Bed 30.11 m. (MSL.)

Left Bank Elevation 49.95 m. (MSL.) ,

Right Bank Elevation 46.71 m. (MSL.) , Drainage Area 6991 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	264.00	276.00	229.00	140.00	241.00	152.00	140.00	151.20	106.60	68.10	91.20	87.00		
2	236.00	279.00	222.40	140.00	245.00	153.60	162.40	136.80	114.40	76.50	88.40	90.50		
3	261.00	254.00	244.00	158.40	248.00	152.00	193.60	170.40	80.00	72.30	99.60	91.90		
4	280.00	270.00	224.20	142.40	277.00	175.60	189.10	157.60	85.60	74.40	101.70	119.20		
5	278.00	270.00	228.00	149.60	287.00	150.40	156.80	146.40	74.40	73.70	89.80	94.00		
6	277.00	224.20	231.00	141.60	299.00	152.00	149.60	153.60	73.00	79.30	87.70	111.20		
7	262.00	207.10	228.00	144.00	297.00	132.00	158.40	136.00	74.40	71.60	87.00	112.00		
8	252.00	250.00	237.00	132.00	293.00	151.20	159.20	158.40	77.20	84.20	85.60	101.70		
9	259.00	250.00	224.20	157.60	276.00	169.60	168.00	138.40	74.40	93.30	84.20	101.00		
10	262.00	245.00	193.60	144.00	311.00	148.80	171.20	132.80	71.60	98.90	90.50	132.80		
11	263.00	256.00	209.80	208.00	271.00	148.00	170.40	135.20	79.30	94.70	79.30	103.80		
12	272.00	235.00	198.10	166.40	301.00	140.00	155.20	143.20	76.50	98.90	68.10	113.60		
13	284.00	233.00	220.60	177.40	250.00	161.60	139.20	126.40	73.00	100.30	66.70	111.20		
14	269.00	222.40	203.50	156.80	283.00	136.00	161.60	124.80	75.10	97.50	76.50	115.20		
15	240.00	219.70	198.10	212.50	224.20	138.40	133.60	122.40	77.90	101.00	77.90	116.80		
16	270.00	228.00	186.40	234.00	164.00	152.00	140.80	127.20	77.20	91.90	80.70	127.20		
17	273.00	232.00	174.70	226.00	158.40	145.60	135.20	113.60	69.50	96.10	100.30	125.60		
18	279.00	243.00	217.00	232.00	172.90	146.40	129.60	127.20	79.30	96.10	103.80	156.00		
19	264.00	240.00	218.80	229.00	246.00	153.60	127.20	116.80	71.60	93.30	95.40	135.20		
20	272.00	203.50	215.20	238.00	215.20	150.40	116.80	123.20	79.30	101.00	87.70	140.80		
21	264.00	207.10	211.60	297.00	254.00	130.40	138.40	121.60	75.80	96.80	101.70	152.80		
22	235.00	239.00	206.20	318.00	253.00	126.40	143.20	115.20	75.80	93.30	86.30	142.40		
23	243.00	224.20	164.80	276.00	244.00	157.60	126.40	121.60	74.40	101.00	91.20	140.80		
24	284.00	226.00	164.80	259.00	219.70	121.60	140.80	110.40	77.90	90.50	99.60	152.80		
25	258.00	245.00	199.90	257.00	212.50	133.60	146.40	127.20	73.00	95.40	87.00	142.40		
26	275.00	262.00	195.40	255.00	229.00	144.80	143.20	122.40	73.00	87.70	82.80	151.20		
27	279.00	194.50	190.00	246.00	217.00	153.60	137.60	114.40	75.80	102.40	81.40	131.20		
28	264.00	242.00	203.50	262.00	194.50	148.80	162.40	112.00	74.40	95.40	84.20	127.20		
29	227.00	238.00	257.00	248.00	177.40	150.40	150.40	106.60	72.30	97.50		140.00		
30	258.00	236.00	255.00	271.00	165.60	165.60	154.40	116.00	77.90	90.50		133.60		
31		229.00		238.00	152.80		161.60		77.90	98.90		148.80		
Total	7904.00	7380.70	6351.80	6456.70	7379.20	4442.00	4662.70	3909.00	2418.50	2812.50	2456.30	3849.90	60023.30	CMSDAY
Mean	263.47	238.09	211.73	208.28	238.04	148.07	150.41	130.30	78.02	90.73	87.72	124.19	164.45	CMS
Max	284.00	279.00	257.00	318.00	311.00	175.60	193.60	170.40	114.40	102.40	103.80	156.00	318.00	CMS
Min	227.00	194.50	164.80	132.00	152.80	121.60	116.80	106.60	69.50	68.10	66.70	87.00	66.70	CMS
Runoff	682.91	637.69	548.80	557.86	637.56	383.79	402.86	337.74	208.96	243.00	212.22	332.63	5186.01	MCM

Momentary Peak 361.00 CMS. at 35.05 m. (MSL.) at 24.00 Hours , on Jun 29 , 2014

Runoff Yield 23.52 Liters/Second/Square KM. Momentary Peak Yield 51.638 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Mae Klong River at Ban Wang Khanai , Kanchanaburi (K.11A)

Lat 13 - 56 - 55 N Long 99 - 38 - 42 E

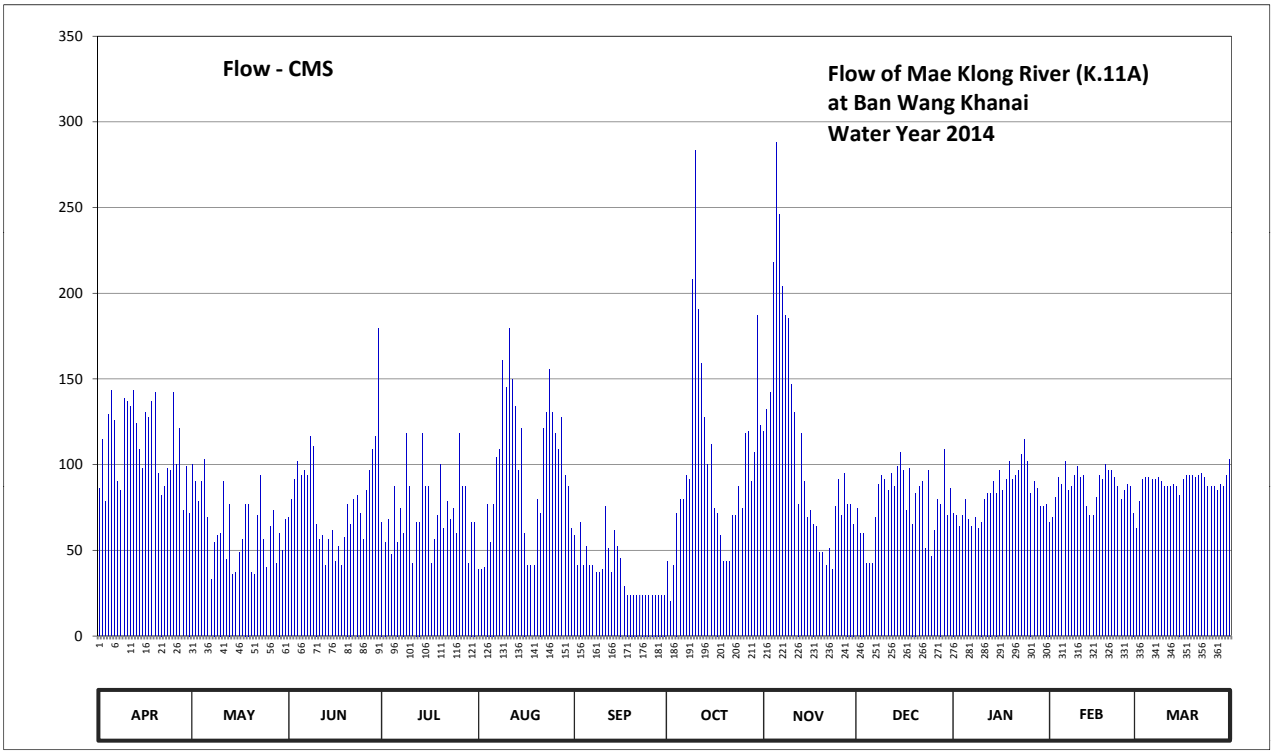
Location : on left bank at Ban Wang Khanai.

	Ban Wang Khanai	**Amphoe** Tha Muang	**Changwat** Kanchanaburi
Drainge Area	26,449 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.810 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 mean of 24 readings		
Period of Available Gage Records	1993 to date		
Rating Operation			
Period of Rating	1993 - 1999 , 2005 to date		
Rated by Flot	-		
Rated by Current Meter	1993 - 1999 , 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.17	11.28	11.04	11.02	10.79	10.96	10.83	11.41	11.08	11.06	11.02	10.99	
2	11.38	11.20	11.12	10.93	10.79	10.81	10.60	11.49	10.97	11.05	11.04	11.11	
3	11.11	11.11	11.21	11.03	10.80	11.02	10.81	11.55	10.97	11.00	11.13	11.21	
4	11.47	11.20	11.29	10.87	11.10	10.81	11.06	11.96	10.82	11.05	11.22	11.22	
5	11.56	11.30	11.23	11.18	10.93	10.91	11.12	12.29	10.82	11.12	11.19	11.22	
6	11.45	11.04	11.25	10.93	11.10	10.81	11.12	12.10	10.82	11.03	11.29	11.21	
7	11.20	10.73	11.23	11.08	11.31	10.81	11.23	11.89	11.04	11.00	11.16	11.21	
8	11.16	10.93	11.39	10.97	11.34	10.77	11.21	11.80	11.19	11.04	11.18	11.22	
9	11.53	10.96	11.35	11.40	11.66	10.77	11.91	11.79	11.23	10.99	11.23	11.20	
10	11.52	10.97	11.01	11.18	11.57	10.79	12.27	11.58	11.21	11.02	11.27	11.18	
11	11.50	11.20	10.94	10.82	11.76	11.09	11.82	11.48	11.16	11.12	11.22	11.18	
12	11.56	10.84	10.96	11.02	11.60	10.90	11.65	11.10	11.24	11.15	11.23	11.18	
13	11.44	11.10	10.81	11.02	11.50	10.77	11.46	11.40	11.18	11.15	11.09	11.19	
14	11.34	10.76	10.94	11.40	11.25	10.98	11.28	11.20	11.27	11.20	11.05	11.18	
15	11.26	10.77	10.98	11.18	11.42	10.91	11.36	11.04	11.33	11.15	11.05	11.14	
16	11.48	10.88	10.83	11.18	10.97	10.85	11.08	11.07	11.25	11.25	11.13	11.21	
17	11.46	10.94	10.91	10.82	10.81	10.69	11.06	11.01	11.07	11.16	11.23	11.23	
18	11.52	11.10	10.81	10.94	10.81	10.64	10.96	11.00	11.26	11.21	11.21	11.23	
19	11.55	11.10	10.95	11.05	10.81	10.64	10.83	10.88	11.01	11.29	11.28	11.23	
20	11.24	10.77	11.10	11.28	11.12	10.64	10.83	10.88	11.15	11.21	11.25	11.22	
21	11.14	10.76	11.01	10.99	11.06	10.64	10.83	10.81	11.18	11.23	11.25	11.23	
22	11.18	11.05	11.12	11.11	11.42	10.64	11.05	10.90	11.20	11.25	11.22	11.24	
23	11.26	11.23	11.14	11.03	11.48	10.64	11.05	10.79	10.90	11.32	11.18	11.22	
24	11.25	10.94	11.06	11.08	11.63	10.64	11.18	11.09	11.25	11.38	11.12	11.18	
25	11.55	10.80	10.94	10.97	11.48	10.64	11.08	11.21	10.86	11.29	11.16	11.18	
26	11.28	11.00	11.16	11.40	11.40	10.64	11.40	11.05	10.98	11.15	11.19	11.18	
27	11.42	11.07	11.25	11.18	11.34	10.64	11.41	11.24	11.12	11.20	11.18	11.16	
28	11.07	10.82	11.34	11.18	11.46	10.64	11.20	11.10	11.10	11.17	11.06	11.19	
29	11.27	10.97	11.39	10.82	11.23	10.64	11.33	11.10	11.34	11.09		11.18	
30	11.06	10.89	11.76	11.02	11.18	10.64	11.80	11.01	11.05	11.09		11.23	
31		11.03		11.02	10.99		11.43		11.17	11.10		11.30	
Mean	11.35	10.99	11.12	11.07	11.23	10.77	11.23	11.31	11.10	11.15	11.17	11.20	
Max	11.56	11.30	11.76	11.40	11.76	11.09	12.27	12.29	11.34	11.38	11.29	11.30	12.29
Min	11.06	10.73	10.81	10.82	10.79	10.64	10.60	10.79	10.82	10.99	11.02	10.99	10.60

Annual Max Momentary Gage Height	12.65	m. (MSL.) ,	at 24.00 Hours , on Nov 5 , 2014		
Zero Gage at Bottom Elevation	9.81	m. (MSL.) ,	River Bed	9.97	m. (MSL.)
Left Bank Elevation	19.55	m. (MSL.) ,			
Right Bank Elevation	16.77	m. (MSL.) ,	Drainage Area	26449	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	86.10	100.40	69.20	66.60	39.00	58.80	43.30	119.60	74.40	71.80	66.60	62.70		
2	115.00	90.00	79.60	54.90	39.00	41.10	20.00	132.40	60.10	70.50	69.20	78.30		
3	78.30	78.30	91.30	67.90	40.00	66.60	41.10	142.00	60.10	64.00	80.90	91.30		
4	129.20	90.00	101.70	47.70	77.00	41.10	71.80	218.00	42.20	70.50	92.60	92.60		
5	143.60	103.00	93.90	87.40	54.90	52.30	79.60	287.80	42.20	79.60	88.70	92.60		
6	126.00	69.20	96.50	54.90	77.00	41.10	79.60	246.00	42.20	67.90	101.70	91.30		
7	90.00	33.00	93.90	74.40	104.50	41.10	93.90	204.10	69.20	64.00	84.80	91.30		
8	84.80	54.90	116.50	60.10	109.00	37.00	91.30	187.00	88.70	69.20	87.40	92.60		
9	138.80	58.80	110.50	118.00	160.80	37.00	208.00	185.10	93.90	62.70	93.90	90.00		
10	137.20	60.10	65.30	87.40	145.20	39.00	283.40	146.80	91.30	66.60	99.10	87.40		
11	134.00	90.00	56.20	42.20	179.40	75.70	190.80	130.80	84.80	79.60	92.60	87.40		
12	143.60	44.40	58.80	66.60	150.00	51.00	159.00	77.00	95.20	83.50	93.90	87.40		
13	124.40	77.00	41.10	66.60	134.00	37.00	127.60	118.00	87.40	83.50	75.70	88.70		
14	109.00	36.00	56.20	118.00	96.50	61.40	100.40	90.00	99.10	90.00	70.50	87.40		
15	97.80	37.00	61.40	87.40	121.20	52.30	112.00	69.20	107.50	83.50	70.50	82.20		
16	130.80	48.80	43.30	87.40	60.10	45.50	74.40	73.10	96.50	96.50	80.90	91.30		
17	127.60	56.20	52.30	42.20	41.10	29.00	71.80	65.30	73.10	84.80	93.90	93.90		
18	137.20	77.00	41.10	56.20	41.10	24.00	58.80	64.00	97.80	91.30	91.30	93.90		
19	142.00	77.00	57.50	70.50	41.10	24.00	43.30	48.80	65.30	101.70	100.40	93.90		
20	95.20	37.00	77.00	100.40	79.60	24.00	43.30	48.80	83.50	91.30	96.50	92.60		
21	82.20	36.00	65.30	62.70	71.80	24.00	43.30	41.10	87.40	93.90	96.50	93.90		
22	87.40	70.50	79.60	78.30	121.20	24.00	70.50	51.00	90.00	96.50	92.60	95.20		
23	97.80	93.90	82.20	67.90	130.80	24.00	70.50	39.00	51.00	106.00	87.40	92.60		
24	96.50	56.20	71.80	74.40	155.40	24.00	87.40	75.70	96.50	115.00	79.60	87.40		
25	142.00	40.00	56.20	60.10	130.80	24.00	74.40	91.30	46.60	101.70	84.80	87.40		
26	100.40	64.00	84.80	118.00	118.00	24.00	118.00	70.50	61.40	83.50	88.70	87.40		
27	121.20	73.10	96.50	87.40	109.00	24.00	119.60	95.20	79.60	90.00	87.40	84.80		
28	73.10	42.20	109.00	87.40	127.60	24.00	90.00	77.00	77.00	86.10	71.80	88.70		
29	99.10	60.10	116.50	42.20	93.90	24.00	107.50	77.00	109.00	75.70		87.40		
30	71.80	49.90	179.40	66.60	87.40	24.00	187.00	65.30	70.50	75.70		93.90		
31		67.90		66.60	62.70		122.80		86.10	77.00		103.00		
Total	3342.10	1971.90	2404.60	2268.40	2999.10	1119.00	3084.40	3336.90	2409.60	2573.60	2419.90	2770.50	30700.00	CMSDAY
Mean	111.40	63.61	80.15	73.17	96.75	37.30	99.50	111.23	77.73	83.02	86.43	89.37	84.11	CMS
Max	143.60	103.00	179.40	118.00	179.40	75.70	283.40	287.80	109.00	115.00	101.70	103.00	287.80	CMS
Min	71.80	33.00	41.10	42.20	39.00	24.00	20.00	39.00	42.20	62.70	66.60	62.70	20.00	CMS
Runoff	288.76	170.37	207.76	195.99	259.12	96.68	266.49	288.31	208.19	222.36	209.08	239.37	2652.48	MCM

Momentary Peak 375.50 CMS. at 12.65 m. (MSL.) at 24.00 Hours , on Nov 5, 2014

Runoff Yield 3.18 Liters/Second/Square KM. Momentary Peak Yield 14.197 Liters/Second/Square KM.

WATER YEAR : 2014

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

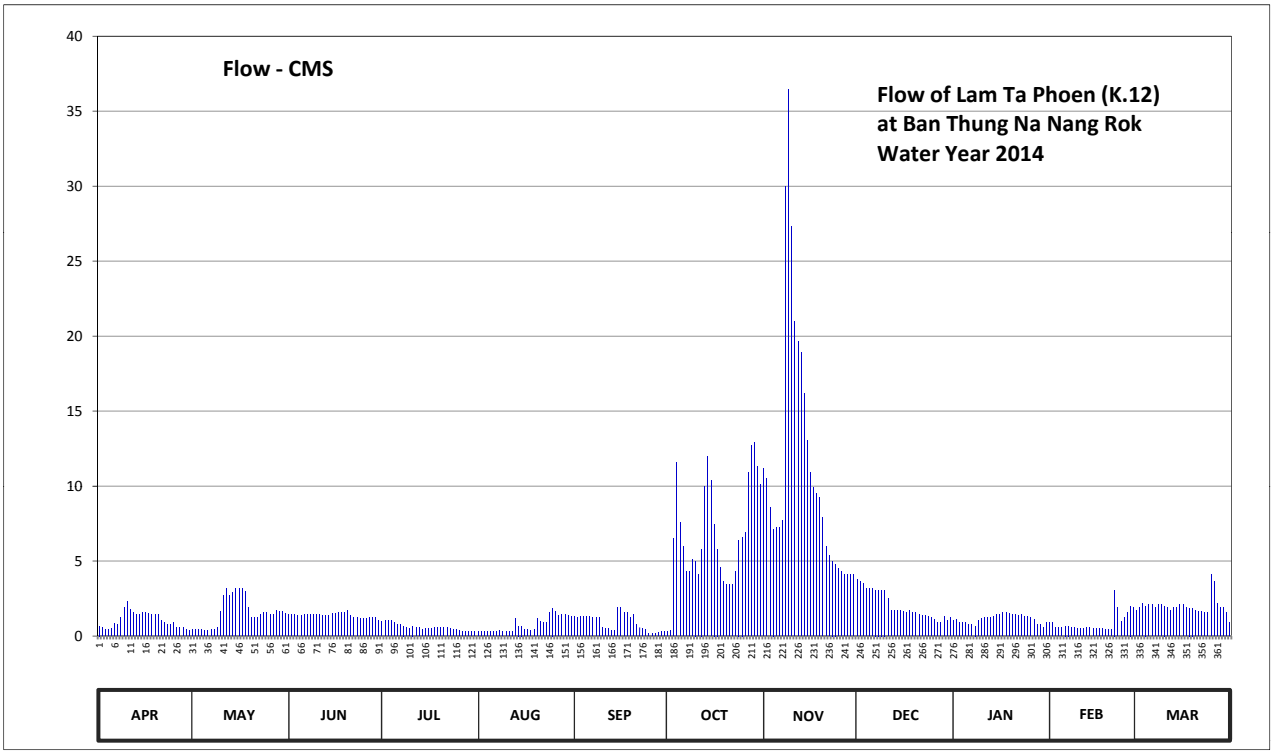
Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	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 Flot	-		
Rated by Current Meter	1965 - 1968 , 1995 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.61	40.54	40.72	40.65	40.49	40.70	40.51	41.66	41.01	40.66	40.64	40.76	
2	40.60	40.54	40.72	40.66	40.49	40.69	40.52	41.61	40.99	40.67	40.64	40.79	
3	40.55	40.54	40.72	40.66	40.49	40.70	41.28	41.46	40.98	40.64	40.60	40.82	
4	40.55	40.54	40.71	40.66	40.49	40.70	41.69	41.34	40.94	40.64	40.59	40.80	
5	40.57	40.52	40.71	40.64	40.49	40.70	41.38	41.35	40.94	40.64	40.59	40.81	
6	40.63	40.53	40.72	40.62	40.49	40.70	41.23	41.35	40.94	40.62	40.61	40.81	
7	40.62	40.54	40.72	40.62	40.51	40.69	41.06	41.39	40.93	40.62	40.61	40.79	
8	40.69	40.54	40.72	40.61	40.52	40.69	41.06	42.68	40.93	40.61	40.60	40.81	
9	40.79	40.59	40.72	40.60	40.51	40.69	41.14	42.95	40.93	40.66	40.59	40.81	
10	40.84	40.75	40.72	40.56	40.51	40.59	41.13	42.56	40.93	40.68	40.57	40.80	
11	40.77	40.89	40.72	40.61	40.50	40.56	41.04	42.25	40.86	40.69	40.57	40.79	
12	40.74	40.94	40.71	40.58	40.51	40.56	41.21	42.18	40.76	40.69	40.57	40.76	
13	40.72	40.89	40.71	40.58	40.68	40.53	41.57	42.14	40.76	40.69	40.58	40.79	
14	40.72	40.91	40.71	40.55	40.61	40.53	41.72	41.98	40.76	40.70	40.58	40.79	
15	40.74	40.94	40.73	40.56	40.61	40.79	41.60	41.79	40.76	40.72	40.57	40.81	
16	40.74	40.94	40.73	40.56	40.55	40.79	41.37	41.64	40.75	40.72	40.56	40.81	
17	40.73	40.94	40.74	40.57	40.55	40.74	41.21	41.56	40.74	40.74	40.56	40.79	
18	40.72	40.92	40.74	40.59	40.53	40.74	41.09	41.53	40.76	40.74	40.56	40.78	
19	40.72	40.79	40.74	40.59	40.54	40.69	40.99	41.51	40.74	40.73	40.54	40.78	
20	40.72	40.69	40.76	40.59	40.68	40.72	40.97	41.41	40.74	40.72	40.54	40.76	
21	40.66	40.69	40.71	40.59	40.65	40.62	40.97	41.23	40.72	40.72	40.54	40.75	
22	40.64	40.69	40.69	40.59	40.64	40.59	40.97	41.17	40.71	40.71	40.93	40.75	
23	40.62	40.72	40.69	40.57	40.64	40.56	41.06	41.13	40.71	40.72	40.79	40.74	
24	40.62	40.74	40.68	40.55	40.74	40.54	41.27	41.11	40.70	40.70	40.65	40.74	
25	40.64	40.74	40.68	40.55	40.78	40.46	41.29	41.08	40.69	40.70	40.69	41.04	
26	40.60	40.72	40.68	40.52	40.75	40.46	41.32	41.06	40.67	40.69	40.74	40.99	
27	40.60	40.72	40.69	40.51	40.71	40.46	41.64	41.04	40.64	40.67	40.80	40.82	
28	40.59	40.76	40.69	40.51	40.72	40.48	41.77	41.04	40.64	40.62	40.79	40.79	
29	40.55	40.75	40.69	40.49	40.72	40.50	41.78	41.04	40.70	40.62		40.79	
30	40.53	40.75	40.66	40.49	40.71	40.50	41.67	41.04	40.66	40.60		40.74	
31		40.73		40.49	40.70		41.58		40.69	40.64		40.64	
Mean	40.66	40.73	40.71	40.58	40.60	40.62	41.26	41.58	40.80	40.68	40.63	40.80	
Max	40.84	40.94	40.76	40.66	40.78	40.79	41.78	42.95	41.01	40.74	40.93	41.04	42.95
Min	40.53	40.52	40.66	40.49	40.49	40.46	40.51	41.04	40.64	40.60	40.54	40.64	40.46

Annual Max Momentary Gage Height	43.00	m. (MSL.) ,	at 02.00 Hours , on Nov 9 , 2014		
Zero Gage at Bottom Elevation	40.44	m. (MSL.) ,	River Bed	40.32	m. (MSL.)
Left Bank Elevation	49.47	m. (MSL.) ,			
Right Bank Elevation	46.56	m. (MSL.) ,	Drainage Area	2375	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.67	0.42	1.44	0.95	0.27	1.30	0.33	11.18	3.80	1.02	0.88	1.72		
2	0.60	0.42	1.44	1.02	0.27	1.23	0.36	10.53	3.61	1.09	0.88	1.93		
3	0.45	0.42	1.44	1.02	0.27	1.30	6.50	8.58	3.52	0.88	0.60	2.16		
4	0.45	0.42	1.37	1.02	0.27	1.30	11.57	7.14	3.16	0.88	0.57	2.00		
5	0.51	0.36	1.37	0.88	0.27	1.30	7.58	7.25	3.16	0.88	0.57	2.08		
6	0.81	0.39	1.44	0.74	0.27	1.30	6.00	7.25	3.16	0.74	0.67	2.08		
7	0.74	0.42	1.44	0.74	0.33	1.23	4.30	7.69	3.07	0.74	0.67	1.93		
8	1.23	0.42	1.44	0.67	0.36	1.23	4.30	29.96	3.07	0.67	0.60	2.08		
9	1.93	0.57	1.44	0.60	0.33	1.23	5.10	36.45	3.07	1.02	0.57	2.08		
10	2.32	1.65	1.44	0.48	0.33	0.57	5.00	27.32	3.07	1.16	0.51	2.00		
11	1.79	2.72	1.44	0.67	0.30	0.48	4.10	21.00	2.48	1.23	0.51	1.93		
12	1.58	3.16	1.37	0.54	0.33	0.48	5.80	19.64	1.72	1.23	0.51	1.72		
13	1.44	2.72	1.37	0.54	1.16	0.39	10.01	18.92	1.72	1.23	0.54	1.93		
14	1.44	2.89	1.37	0.45	0.67	0.39	12.00	16.16	1.72	1.30	0.54	1.93		
15	1.58	3.16	1.51	0.48	0.67	1.93	10.40	13.05	1.72	1.44	0.51	2.08		
16	1.58	3.16	1.51	0.48	0.45	1.93	7.47	10.92	1.65	1.44	0.48	2.08		
17	1.51	3.16	1.58	0.51	0.45	1.58	5.80	9.88	1.58	1.58	0.48	1.93		
18	1.44	2.98	1.58	0.57	0.39	1.58	4.60	9.49	1.72	1.58	0.48	1.86		
19	1.44	1.93	1.58	0.57	0.42	1.23	3.61	9.23	1.58	1.51	0.42	1.86		
20	1.44	1.23	1.72	0.57	1.16	1.44	3.43	7.93	1.58	1.44	0.42	1.72		
21	1.02	1.23	1.37	0.57	0.95	0.74	3.43	6.00	1.44	1.44	0.42	1.65		
22	0.88	1.23	1.23	0.57	0.88	0.57	3.43	5.40	1.37	1.37	3.07	1.65		
23	0.74	1.44	1.23	0.51	0.88	0.48	4.30	5.00	1.37	1.44	1.93	1.58		
24	0.74	1.58	1.16	0.45	1.58	0.42	6.40	4.80	1.30	1.30	0.95	1.58		
25	0.88	1.58	1.16	0.45	1.86	0.18	6.60	4.50	1.23	1.30	1.23	4.10		
26	0.60	1.44	1.16	0.36	1.65	0.18	6.92	4.30	1.09	1.23	1.58	3.61		
27	0.60	1.44	1.23	0.33	1.37	0.18	10.92	4.10	0.88	1.09	2.00	2.16		
28	0.57	1.72	1.23	0.33	1.44	0.24	12.75	4.10	0.88	0.74	1.93	1.93		
29	0.45	1.65	1.23	0.27	1.44	0.30	12.90	4.10	1.30	0.74		1.93		
30	0.39	1.65	1.02	0.27	1.37	0.30	11.31	4.10	1.02	0.60		1.58		
31		1.51		0.27	1.30		10.14		1.23	0.88		0.88		
Total	31.82	49.07	41.31	17.88	23.69	27.01	207.36	335.97	63.27	35.19	24.52	61.75	918.84	CMSDAY
Mean	1.06	1.58	1.38	0.58	0.76	0.90	6.69	11.20	2.04	1.14	0.88	1.99	2.52	CMS
Max	2.32	3.16	1.72	1.02	1.86	1.93	12.90	36.45	3.80	1.58	3.07	4.10	36.45	CMS
Min	0.39	0.36	1.02	0.27	0.27	0.18	0.33	4.10	0.88	0.60	0.42	0.88	0.18	CMS
Runoff	2.75	4.24	3.57	1.55	2.05	2.33	17.92	29.03	5.47	3.04	2.12	5.34	79.39	MCM

Momentary Peak 37.70 CMS. at 43.00 m. (MSL.) at 02.00 Hours , on Nov 9, 2014

Runoff Yield 1.06 Liters/Second/Square KM. Momentary Peak Yield 15.874 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

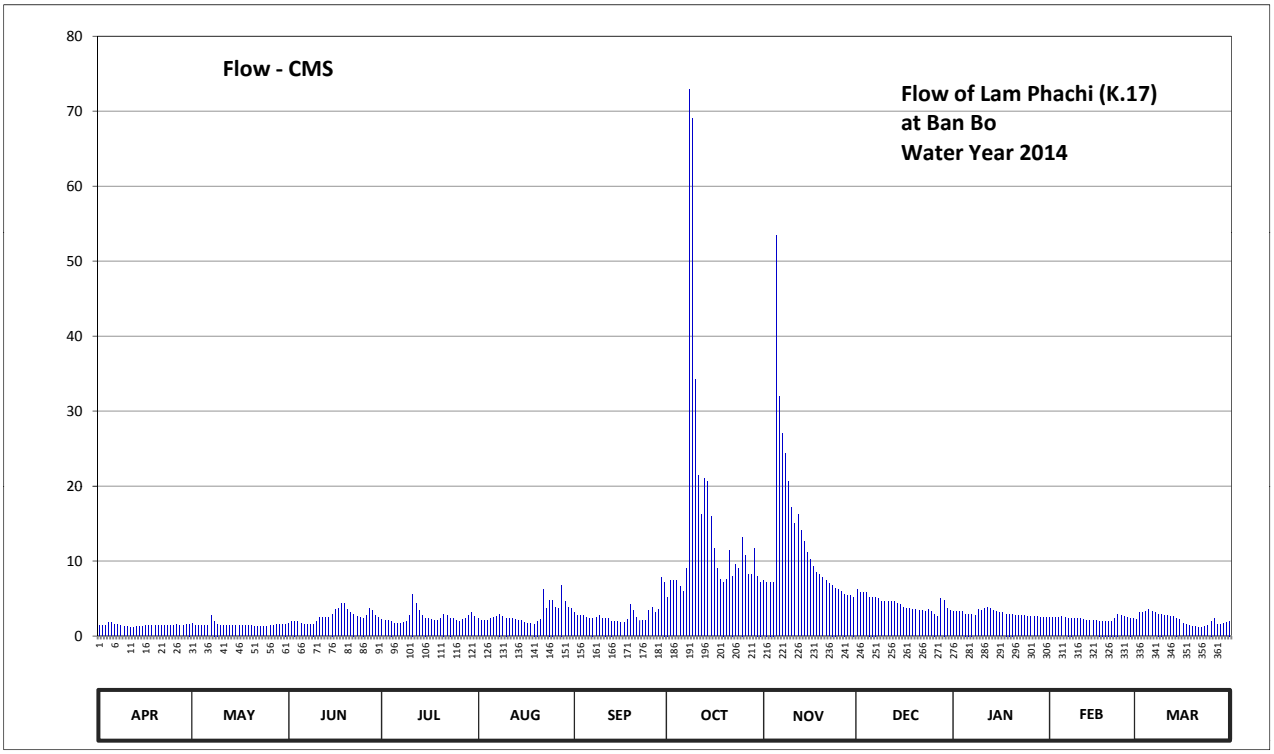
Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	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 Flot	-		
Rated by Current Meter	1966 - 1988 , 1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.58	97.62	97.62	97.67	97.68	97.74	97.86	97.97	97.91	97.75	97.70	97.67	
2	97.59	97.59	97.64	97.66	97.66	97.72	97.97	97.96	97.89	97.75	97.70	97.74	
3	97.59	97.59	97.65	97.66	97.66	97.72	97.97	97.96	97.89	97.75	97.70	97.74	
4	97.63	97.58	97.64	97.65	97.66	97.72	97.97	97.96	97.89	97.75	97.70	97.75	
5	97.63	97.58	97.62	97.62	97.68	97.70	97.93	99.15	97.86	97.73	97.71	97.77	
6	97.60	97.59	97.60	97.62	97.70	97.68	97.90	98.71	97.86	97.73	97.70	97.75	
7	97.60	97.72	97.60	97.62	97.71	97.69	98.04	98.59	97.86	97.73	97.69	97.74	
8	97.59	97.65	97.60	97.63	97.73	97.70	99.49	98.52	97.85	97.72	97.69	97.73	
9	97.57	97.61	97.61	97.64	97.71	97.72	99.43	98.42	97.83	97.77	97.68	97.73	
10	97.57	97.59	97.64	97.72	97.69	97.68	98.76	98.32	97.83	97.76	97.68	97.72	
11	97.56	97.59	97.70	97.88	97.68	97.69	98.44	98.25	97.83	97.78	97.68	97.72	
12	97.56	97.58	97.70	97.82	97.68	97.68	98.29	98.29	97.83	97.79	97.67	97.71	
13	97.57	97.58	97.70	97.76	97.67	97.65	98.43	98.22	97.83	97.78	97.66	97.71	
14	97.57	97.58	97.70	97.72	97.66	97.64	98.42	98.17	97.82	97.76	97.66	97.69	
15	97.57	97.58	97.73	97.69	97.66	97.64	98.28	98.12	97.81	97.75	97.66	97.67	
16	97.58	97.59	97.77	97.68	97.63	97.63	98.14	98.09	97.79	97.74	97.66	97.62	
17	97.58	97.58	97.78	97.67	97.62	97.63	98.04	98.05	97.78	97.74	97.65	97.60	
18	97.58	97.58	97.82	97.66	97.62	97.67	97.98	98.02	97.78	97.73	97.65	97.58	
19	97.58	97.58	97.82	97.66	97.61	97.81	97.96	98.01	97.77	97.73	97.65	97.57	
20	97.58	97.58	97.77	97.68	97.65	97.76	97.98	97.99	97.77	97.73	97.65	97.57	
21	97.58	97.57	97.74	97.73	97.67	97.70	98.13	97.97	97.76	97.72	97.65	97.56	
22	97.58	97.57	97.73	97.72	97.91	97.66	98.00	97.95	97.76	97.72	97.69	97.56	
23	97.58	97.57	97.71	97.69	97.78	97.66	98.06	97.94	97.75	97.72	97.73	97.57	
24	97.59	97.57	97.70	97.68	97.84	97.66	98.04	97.92	97.77	97.72	97.72	97.58	
25	97.59	97.57	97.69	97.66	97.84	97.76	98.19	97.91	97.75	97.71	97.71	97.65	
26	97.60	97.58	97.72	97.64	97.79	97.79	98.11	97.90	97.73	97.71	97.70	97.68	
27	97.59	97.58	97.78	97.67	97.78	97.74	98.01	97.88	97.71	97.71	97.69	97.60	
28	97.59	97.60	97.76	97.68	97.94	97.77	98.01	97.87	97.85	97.71	97.68	97.60	
29	97.60	97.60	97.72	97.72	97.83	97.99	98.14	97.87	97.84	97.70		97.62	
30	97.61	97.60	97.70	97.74	97.79	97.96	98.00	97.86	97.78	97.70		97.63	
31		97.61		97.71	97.78		97.96		97.76	97.70		97.65	
Mean	97.59	97.59	97.70	97.69	97.72	97.72	98.19	98.13	97.81	97.74	97.68	97.66	
Max	97.63	97.72	97.82	97.88	97.94	97.99	99.49	99.15	97.91	97.79	97.73	97.77	99.49
Min	97.56	97.57	97.60	97.62	97.61	97.63	97.86	97.86	97.71	97.70	97.65	97.56	97.56

Annual Max Momentary Gage Height	100.38	m. (MSL.) ,	at 20.00 Hours , on Oct 8, 2014		
Zero Gage at Bottom Elevation	97.46	m. (MSL.) ,	River Bed	97.42	m. (MSL.)
Left Bank Elevation	107.88	m. (MSL.) ,			
Right Bank Elevation	103.27	m. (MSL.) ,	Drainage Area	1344	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.35	1.70	1.70	2.20	2.30	3.10	5.20	7.40	6.20	3.25	2.50	2.20		
2	1.42	1.42	1.90	2.10	2.10	2.80	7.40	7.20	5.80	3.25	2.50	3.10		
3	1.42	1.42	2.00	2.10	2.10	2.80	7.40	7.20	5.80	3.25	2.50	3.10		
4	1.80	1.35	1.90	2.00	2.10	2.80	7.40	7.20	5.80	3.25	2.50	3.25		
5	1.80	1.35	1.70	1.70	2.30	2.50	6.60	53.50	5.20	2.95	2.65	3.55		
6	1.50	1.42	1.50	1.70	2.50	2.30	6.00	31.95	5.20	2.95	2.50	3.25		
7	1.50	2.80	1.50	1.70	2.65	2.40	9.00	27.10	5.20	2.95	2.40	3.10		
8	1.42	2.00	1.50	1.80	2.95	2.50	72.85	24.30	5.00	2.80	2.40	2.95		
9	1.28	1.60	1.60	1.90	2.65	2.80	68.95	20.70	4.60	3.55	2.30	2.95		
10	1.28	1.42	1.90	2.80	2.40	2.30	34.20	17.20	4.60	3.40	2.30	2.80		
11	1.20	1.42	2.50	5.60	2.30	2.40	21.40	15.00	4.60	3.70	2.30	2.80		
12	1.20	1.35	2.50	4.40	2.30	2.30	16.20	16.20	4.60	3.85	2.20	2.65		
13	1.28	1.35	2.50	3.40	2.20	2.00	21.05	14.10	4.60	3.70	2.10	2.65		
14	1.28	1.35	2.50	2.80	2.10	1.90	20.70	12.60	4.40	3.40	2.10	2.40		
15	1.28	1.35	2.95	2.40	2.10	1.90	15.90	11.10	4.20	3.25	2.10	2.20		
16	1.35	1.42	3.55	2.30	1.80	1.80	11.70	10.25	3.85	3.10	2.10	1.70		
17	1.35	1.35	3.70	2.20	1.70	1.80	9.00	9.25	3.70	3.10	2.00	1.50		
18	1.35	1.35	4.40	2.10	1.70	2.20	7.60	8.50	3.70	2.95	2.00	1.35		
19	1.35	1.35	4.40	2.10	1.60	4.20	7.20	8.25	3.55	2.95	2.00	1.28		
20	1.35	1.35	3.55	2.30	2.00	3.40	7.60	7.80	3.55	2.95	2.00	1.28		
21	1.35	1.28	3.10	2.95	2.20	2.50	11.40	7.40	3.40	2.80	2.00	1.20		
22	1.35	1.28	2.95	2.80	6.20	2.10	8.00	7.00	3.40	2.80	2.40	1.20		
23	1.35	1.28	2.65	2.40	3.70	2.10	9.50	6.80	3.25	2.80	2.95	1.28		
24	1.42	1.28	2.50	2.30	4.80	2.10	9.00	6.40	3.55	2.80	2.80	1.35		
25	1.42	1.28	2.40	2.10	4.80	3.40	13.20	6.20	3.25	2.65	2.65	2.00		
26	1.50	1.35	2.80	1.90	3.85	3.85	10.80	6.00	2.95	2.65	2.50	2.30		
27	1.42	1.35	3.70	2.20	3.70	3.10	8.25	5.60	2.65	2.65	2.40	1.50		
28	1.42	1.50	3.40	2.30	6.80	3.55	8.25	5.40	5.00	2.65	2.30	1.50		
29	1.50	1.50	2.80	2.80	4.60	7.80	11.70	5.40	4.80	2.50		1.70		
30	1.60	1.50	2.50	3.10	3.85	7.20	8.00	5.20	3.70	2.50		1.80		
31		1.60		2.65	3.70		7.20		3.40	2.50		2.00		
Total	42.09	45.32	78.55	77.10	92.05	87.90	468.65	378.20	133.50	93.85	65.45	67.89	1630.55	CMSDAY
Mean	1.40	1.46	2.62	2.49	2.97	2.93	15.12	12.61	4.31	3.03	2.34	2.19	4.47	CMS
Max	1.80	2.80	4.40	5.60	6.80	7.80	72.85	53.50	6.20	3.85	2.95	3.55	72.85	CMS
Min	1.20	1.28	1.50	1.70	1.60	1.80	5.20	5.20	2.65	2.50	2.00	1.20	1.20	CMS
Runoff	3.64	3.92	6.79	6.66	7.95	7.60	40.49	32.68	11.53	8.11	5.66	5.87	140.88	MCM

Momentary Peak 137.40 CMS. at 100.38 m. (MSL.) at 20.00 Hours , on Oct 8, 2014

Runoff Yield 3.32 Liters/Second/Square KM. Momentary Peak Yield 102.232 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Mae Nam Noi , Kanchanaburi (K.22B)

Lat 14 - 26 - 59 N Long 98 - 48 - 08 E

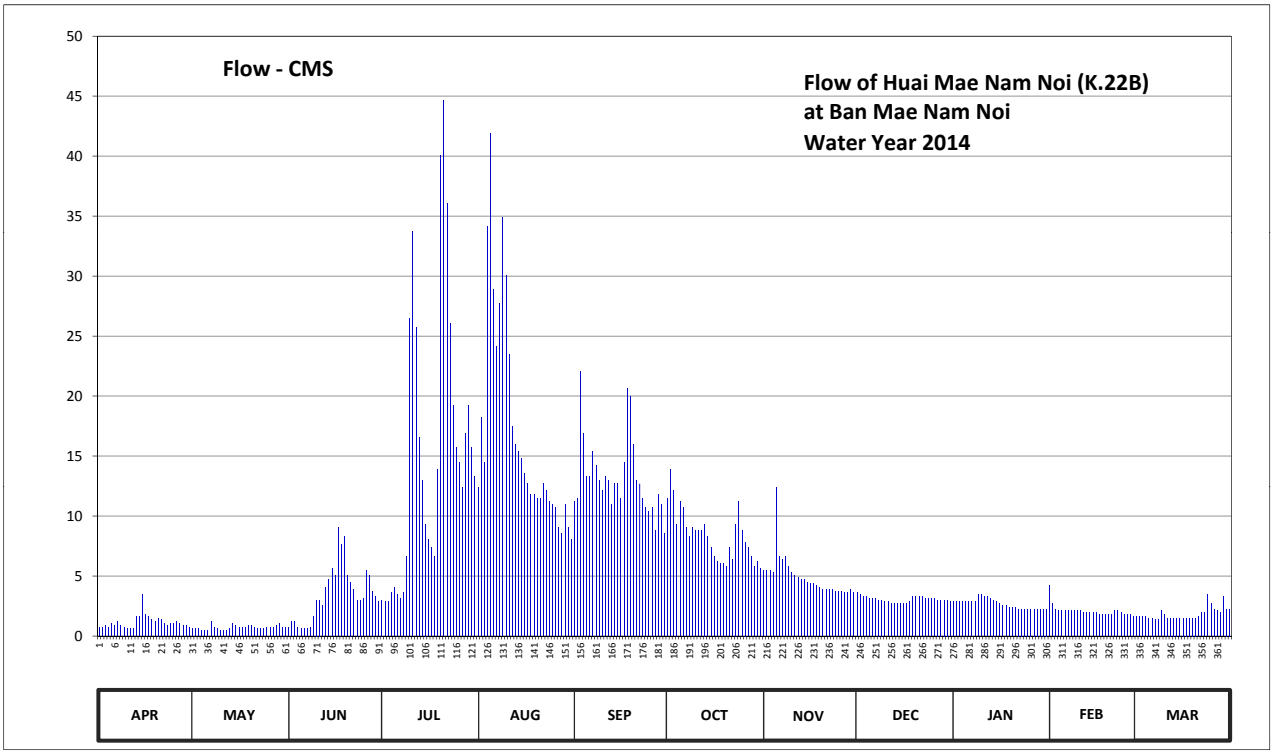
Location : on right bank about 640 meters upstream from station K.22A

	Ban Mae Nam Noi	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	311 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+67.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 10 meters from the top staff gage.	**Elevation**	+72.434 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 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 Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.05	68.04	68.05	68.20	68.63	68.59	68.60	68.35	68.24	68.19	68.28	68.11	
2	68.05	68.04	68.08	68.19	68.82	68.60	68.68	68.35	68.23	68.19	68.18	68.11	
3	68.06	68.04	68.08	68.19	68.70	68.93	68.62	68.35	68.22	68.19	68.15	68.11	
4	68.05	68.03	68.05	68.24	69.24	68.78	68.52	68.34	68.22	68.19	68.14	68.11	
5	68.07	68.03	68.04	68.27	69.42	68.66	68.59	68.63	68.21	68.19	68.14	68.10	
6	68.06	68.03	68.04	68.23	69.11	68.66	68.57	68.41	68.21	68.19	68.14	68.10	
7	68.08	68.08	68.04	68.21	68.99	68.73	68.51	68.40	68.21	68.19	68.14	68.09	
8	68.06	68.05	68.05	68.24	69.08	68.69	68.48	68.41	68.20	68.19	68.14	68.09	
9	68.05	68.04	68.11	68.41	69.26	68.65	68.51	68.37	68.20	68.23	68.14	68.14	
10	68.04	68.03	68.20	69.05	69.14	68.62	68.50	68.34	68.19	68.23	68.14	68.12	
11	68.04	68.03	68.20	69.23	68.97	68.66	68.50	68.33	68.19	68.22	68.14	68.10	
12	68.04	68.03	68.17	69.03	68.80	68.65	68.50	68.32	68.18	68.22	68.13	68.10	
13	68.11	68.04	68.27	68.77	68.75	68.58	68.52	68.31	68.18	68.21	68.13	68.10	
14	68.11	68.07	68.31	68.65	68.73	68.64	68.48	68.31	68.18	68.20	68.13	68.10	
15	68.23	68.06	68.36	68.52	68.71	68.64	68.44	68.30	68.18	68.19	68.13	68.10	
16	68.12	68.05	68.33	68.47	68.67	68.60	68.41	68.29	68.18	68.18	68.13	68.10	
17	68.11	68.05	68.51	68.44	68.64	68.70	68.39	68.29	68.18	68.17	68.12	68.10	
18	68.09	68.05	68.45	68.41	68.61	68.89	68.38	68.28	68.19	68.17	68.12	68.10	
19	68.08	68.06	68.48	68.68	68.61	68.87	68.38	68.27	68.22	68.16	68.12	68.10	
20	68.10	68.06	68.33	69.38	68.60	68.75	68.37	68.26	68.22	68.16	68.12	68.10	
21	68.09	68.05	68.30	69.48	68.60	68.65	68.44	68.26	68.22	68.16	68.12	68.11	
22	68.07	68.04	68.26	69.29	68.64	68.64	68.40	68.26	68.22	68.15	68.14	68.13	
23	68.06	68.04	68.20	69.04	68.62	68.60	68.52	68.26	68.21	68.15	68.14	68.13	
24	68.07	68.04	68.20	68.85	68.59	68.57	68.59	68.25	68.21	68.15	68.13	68.23	
25	68.07	68.05	68.21	68.74	68.58	68.56	68.50	68.25	68.21	68.15	68.12	68.18	
26	68.08	68.05	68.35	68.70	68.57	68.57	68.46	68.25	68.21	68.15	68.12	68.15	
27	68.07	68.05	68.33	68.63	68.51	68.50	68.44	68.24	68.20	68.15	68.12	68.14	
28	68.06	68.06	68.25	68.78	68.49	68.61	68.41	68.24	68.20	68.15	68.11	68.13	
29	68.06	68.07	68.22	68.85	68.58	68.58	68.37	68.26	68.20	68.15		68.22	
30	68.05	68.05	68.19	68.74	68.51	68.49	68.39	68.24	68.20	68.15		68.15	
31		68.05		68.66	68.47		68.36		68.19	68.15		68.15	
Mean	68.08	68.05	68.22	68.66	68.76	68.66	68.48	68.31	68.20	68.18	68.14	68.12	
Max	68.23	68.08	68.51	69.48	69.42	68.93	68.68	68.63	68.24	68.23	68.28	68.23	69.48
Min	68.04	68.03	68.04	68.19	68.47	68.49	68.36	68.24	68.18	68.15	68.11	68.09	68.03

Annual Max Momentary Gage Height	69.82	m. (MSL.) ,	at 18.00 Hours , on Jul 20 , 2014		
Zero Gage at Bottom Elevation	67.00	m. (MSL.) ,	River Bed	66.81	m. (MSL.)
Left Bank Elevation	78.52	m. (MSL.) ,			
Right Bank Elevation	71.09	m. (MSL.) ,	Drainage Area	311	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	0.60	0.75	3.00	12.40	11.23	11.50	5.45	3.60	2.85	4.20	1.65		
2	0.75	0.60	1.20	2.85	18.20	11.50	13.90	5.45	3.45	2.85	2.70	1.65		
3	0.90	0.60	1.20	2.85	14.50	22.05	12.10	5.45	3.30	2.85	2.25	1.65		
4	0.75	0.45	0.75	3.60	34.10	16.90	9.34	5.26	3.30	2.85	2.10	1.65		
5	1.05	0.45	0.60	4.05	41.90	13.30	11.23	12.40	3.15	2.85	2.10	1.50		
6	0.90	0.45	0.60	3.45	28.90	13.30	10.69	6.64	3.15	2.85	2.10	1.50		
7	1.20	1.20	0.60	3.15	24.15	15.40	9.07	6.40	3.15	2.85	2.10	1.35		
8	0.90	0.75	0.75	3.60	27.70	14.20	8.32	6.64	3.00	2.85	2.10	1.35		
9	0.75	0.60	1.65	6.64	34.90	13.00	9.07	5.83	3.00	3.45	2.10	2.10		
10	0.60	0.45	3.00	26.50	30.10	12.10	8.80	5.26	2.85	3.45	2.10	1.80		
11	0.60	0.45	3.00	33.70	23.45	13.30	8.80	5.07	2.85	3.30	2.10	1.50		
12	0.60	0.45	2.55	25.70	17.50	13.00	8.80	4.88	2.70	3.30	1.95	1.50		
13	1.65	0.60	4.05	16.60	16.00	10.96	9.34	4.69	2.70	3.15	1.95	1.50		
14	1.65	1.05	4.69	13.00	15.40	12.70	8.32	4.69	2.70	3.00	1.95	1.50		
15	3.45	0.90	5.64	9.34	14.80	12.70	7.36	4.50	2.70	2.85	1.95	1.50		
16	1.80	0.75	5.07	8.08	13.60	11.50	6.64	4.35	2.70	2.70	1.95	1.50		
17	1.65	0.75	9.07	7.36	12.70	14.50	6.21	4.35	2.70	2.55	1.80	1.50		
18	1.35	0.75	7.60	6.64	11.80	20.65	6.02	4.20	2.85	2.55	1.80	1.50		
19	1.20	0.90	8.32	13.90	11.80	19.95	6.02	4.05	3.30	2.40	1.80	1.50		
20	1.50	0.90	5.07	40.10	11.50	16.00	5.83	3.90	3.30	2.40	1.80	1.50		
21	1.35	0.75	4.50	44.60	11.50	13.00	7.36	3.90	3.30	2.40	1.80	1.65		
22	1.05	0.60	3.90	36.10	12.70	12.70	6.40	3.90	3.30	2.25	2.10	1.95		
23	0.90	0.60	3.00	26.10	12.10	11.50	9.34	3.90	3.15	2.25	2.10	1.95		
24	1.05	0.60	3.00	19.25	11.23	10.69	11.23	3.75	3.15	2.25	1.95	3.45		
25	1.05	0.75	3.15	15.70	10.96	10.42	8.80	3.75	3.15	2.25	1.80	2.70		
26	1.20	0.75	5.45	14.50	10.69	10.69	7.84	3.75	3.15	2.25	1.80	2.25		
27	1.05	0.75	5.07	12.40	9.07	8.80	7.36	3.60	3.00	2.25	1.80	2.10		
28	0.90	0.90	3.75	16.90	8.56	11.80	6.64	3.60	3.00	2.25	1.65	1.95		
29	0.90	1.05	3.30	19.25	10.96	10.96	5.83	3.90	3.00	2.25		3.30		
30	0.75	0.75	2.85	15.70	9.07	8.56	6.21	3.60	3.00	2.25		2.25		
31		0.75		13.30	8.08		5.64		2.85	2.25		2.25		
Total	34.20	21.90	104.13	467.91	530.32	397.36	260.01	147.11	94.50	82.80	57.90	57.00	2255.14	CMSDAY
Mean	1.14	0.71	3.47	15.09	17.11	13.25	8.39	4.90	3.05	2.67	2.07	1.84	6.18	CMS
Max	3.45	1.20	9.07	44.60	41.90	22.05	13.90	12.40	3.60	3.45	4.20	3.45	44.60	CMS
Min	0.60	0.45	0.60	2.85	8.08	8.56	5.64	3.60	2.70	2.25	1.65	1.35	0.45	CMS
Runoff	2.96	1.89	9.00	40.43	45.82	34.33	22.47	12.71	8.17	7.15	5.00	4.93	194.84	MCM

Momentary Peak 62.10 CMS. at 69.82 m. (MSL.) at 18.00 Hours , on Jul 20, 2014

Runoff Yield 19.87 Liters/Second/Square KM. Momentary Peak Yield 199.678 Liters/Second/Square KM.

WATER YEAR : 2014

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	+152.071 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1 meter from the top staff gage.	**Elevation**	+160.094 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

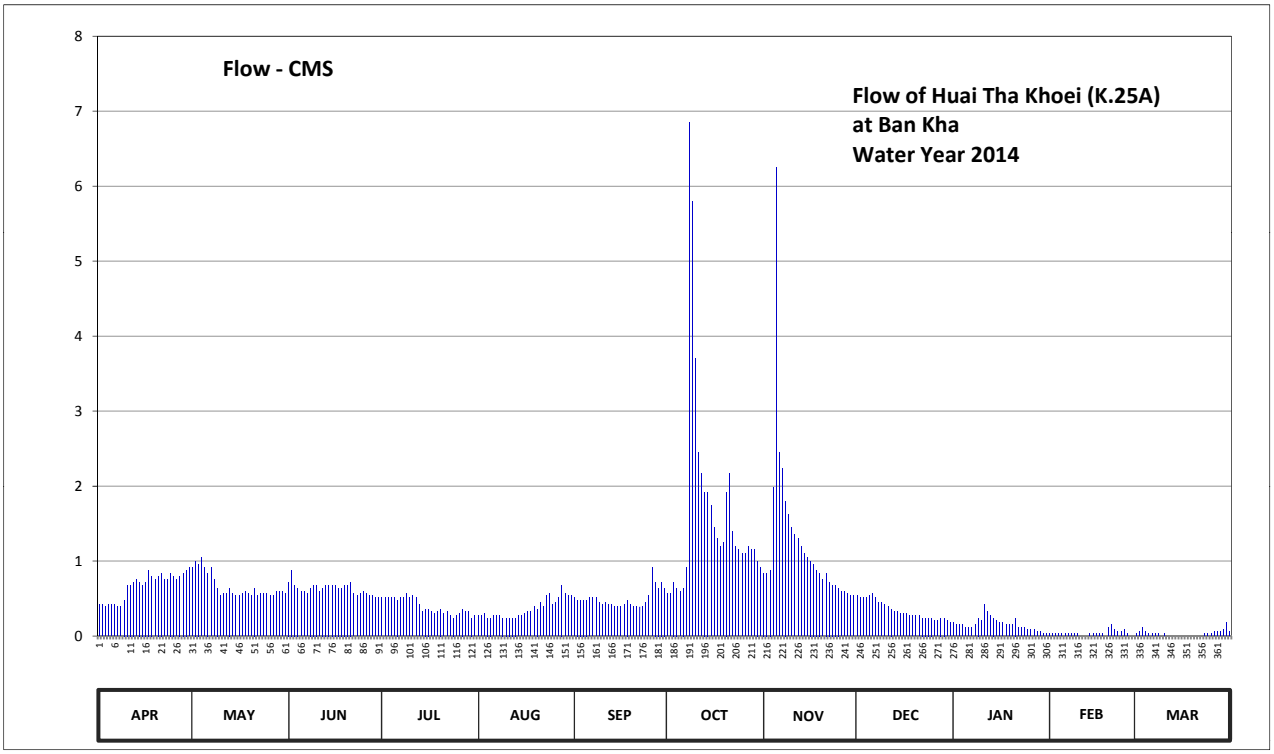
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.34	152.48	152.43	152.37	152.29	152.37	152.39	152.46	152.38	152.26	152.21	152.21	
2	152.34	152.50	152.47	152.37	152.29	152.36	152.39	152.46	152.37	152.25	152.21	152.22	
3	152.33	152.49	152.42	152.37	152.30	152.36	152.43	152.47	152.37	152.25	152.21	152.24	
4	152.34	152.51	152.41	152.37	152.28	152.36	152.41	152.68	152.37	152.25	152.21	152.22	
5	152.34	152.48	152.40	152.37	152.28	152.36	152.40	153.13	152.38	152.24	152.21	152.21	
6	152.34	152.46	152.40	152.36	152.29	152.37	152.41	152.75	152.39	152.24	152.21	152.21	
7	152.33	152.48	152.39	152.37	152.29	152.37	152.48	152.72	152.37	152.24	152.21	152.21	
8	152.33	152.44	152.41	152.37	152.29	152.37	153.17	152.65	152.35	152.25	152.21	152.21	
9	152.36	152.41	152.42	152.39	152.28	152.35	153.10	152.62	152.35	152.28	152.21	152.20	
10	152.42	152.38	152.42	152.37	152.28	152.34	152.90	152.59	152.34	152.27	152.21	152.21	
11	152.42	152.39	152.40	152.38	152.28	152.35	152.75	152.57	152.33	152.34	152.20	152.20	
12	152.43	152.39	152.41	152.37	152.28	152.34	152.71	152.56	152.32	152.31	152.20	152.20	
13	152.44	152.41	152.42	152.34	152.28	152.34	152.67	152.54	152.31	152.29	152.20	152.20	
14	152.43	152.39	152.42	152.31	152.29	152.33	152.67	152.52	152.31	152.28	152.21	152.20	
15	152.42	152.38	152.42	152.32	152.29	152.33	152.64	152.51	152.30	152.27	152.21	152.20	
16	152.43	152.38	152.42	152.32	152.30	152.33	152.59	152.50	152.30	152.26	152.21	152.20	
17	152.47	152.39	152.41	152.31	152.31	152.34	152.56	152.49	152.30	152.26	152.21	152.20	
18	152.45	152.40	152.41	152.30	152.31	152.36	152.54	152.47	152.29	152.25	152.21	152.20	
19	152.44	152.39	152.42	152.31	152.33	152.34	152.55	152.46	152.29	152.25	152.20	152.19	
20	152.45	152.38	152.42	152.32	152.32	152.33	152.67	152.44	152.29	152.25	152.24	152.20	
21	152.46	152.41	152.43	152.30	152.35	152.33	152.71	152.46	152.29	152.28	152.25	152.20	
22	152.44	152.38	152.39	152.31	152.33	152.33	152.58	152.43	152.28	152.24	152.23	152.20	
23	152.44	152.39	152.38	152.29	152.38	152.33	152.54	152.42	152.28	152.24	152.22	152.21	
24	152.46	152.39	152.39	152.28	152.39	152.35	152.53	152.42	152.28	152.24	152.22	152.21	
25	152.45	152.39	152.40	152.29	152.34	152.38	152.52	152.41	152.28	152.23	152.23	152.21	
26	152.44	152.38	152.39	152.30	152.35	152.48	152.52	152.40	152.27	152.23	152.21	152.22	
27	152.45	152.38	152.38	152.32	152.37	152.43	152.54	152.40	152.27	152.23	152.20	152.22	
28	152.46	152.40	152.38	152.31	152.42	152.41	152.53	152.39	152.28	152.22	152.20	152.22	
29	152.47	152.40	152.37	152.31	152.39	152.43	152.53	152.38	152.28	152.22		152.23	
30	152.48	152.40	152.37	152.28	152.38	152.41	152.50	152.38	152.27	152.21		152.26	
31		152.39		152.29	152.38		152.48		152.26	152.21		152.22	
Mean	152.41	152.41	152.41	152.33	152.32	152.36	152.59	152.52	152.31	152.25	152.21	152.21	
Max	152.48	152.51	152.47	152.39	152.42	152.48	153.17	153.13	152.39	152.34	152.25	152.26	153.17
Min	152.33	152.38	152.37	152.28	152.28	152.33	152.39	152.38	152.26	152.21	152.20	152.19	152.19

Annual Max Momentary Gage Height 153.53 m. (MSL.) , at 05.00 Hours , on Nov 5, 2014

Zero Gage at Bottom Elevation 152.07 m. (MSL.) , River Bed 151.80 m. (MSL.)

Left Bank Elevation 159.06 m. (MSL.) ,

Right Bank Elevation 159.00 m. (MSL.) , Drainage Area 367 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.42	0.92	0.72	0.51	0.27	0.51	0.57	0.84	0.54	0.18	0.03	0.03		
2	0.42	1.00	0.88	0.51	0.27	0.48	0.57	0.84	0.51	0.15	0.03	0.06		
3	0.39	0.96	0.68	0.51	0.30	0.48	0.72	0.88	0.51	0.15	0.03	0.12		
4	0.42	1.05	0.64	0.51	0.24	0.48	0.64	1.98	0.51	0.15	0.03	0.06		
5	0.42	0.92	0.60	0.51	0.24	0.48	0.60	6.25	0.54	0.12	0.03	0.03		
6	0.42	0.84	0.60	0.48	0.27	0.51	0.64	2.45	0.57	0.12	0.03	0.03		
7	0.39	0.92	0.57	0.51	0.27	0.51	0.92	2.24	0.51	0.12	0.03	0.03		
8	0.39	0.76	0.64	0.51	0.27	0.51	6.85	1.80	0.45	0.15	0.03	0.03		
9	0.48	0.64	0.68	0.57	0.24	0.45	5.80	1.62	0.45	0.24	0.03	0.00		
10	0.68	0.54	0.68	0.51	0.24	0.42	3.70	1.45	0.42	0.21	0.03	0.03		
11	0.68	0.57	0.60	0.54	0.24	0.45	2.45	1.35	0.39	0.42	0.00	0.00		
12	0.72	0.57	0.64	0.51	0.24	0.42	2.17	1.30	0.36	0.33	0.00	0.00		
13	0.76	0.64	0.68	0.42	0.24	0.42	1.92	1.20	0.33	0.27	0.00	0.00		
14	0.72	0.57	0.68	0.33	0.27	0.39	1.92	1.10	0.33	0.24	0.03	0.00		
15	0.68	0.54	0.68	0.36	0.27	0.39	1.74	1.05	0.30	0.21	0.03	0.00		
16	0.72	0.54	0.68	0.36	0.30	0.39	1.45	1.00	0.30	0.18	0.03	0.00		
17	0.88	0.57	0.64	0.33	0.33	0.42	1.30	0.96	0.30	0.18	0.03	0.00		
18	0.80	0.60	0.64	0.30	0.33	0.48	1.20	0.88	0.27	0.15	0.03	0.00		
19	0.76	0.57	0.68	0.33	0.39	0.42	1.25	0.84	0.27	0.15	0.00	0.00		
20	0.80	0.54	0.68	0.36	0.36	0.39	1.92	0.76	0.27	0.15	0.12	0.00		
21	0.84	0.64	0.72	0.30	0.45	0.39	2.17	0.84	0.27	0.24	0.15	0.00		
22	0.76	0.54	0.57	0.33	0.39	0.39	1.40	0.72	0.24	0.12	0.09	0.00		
23	0.76	0.57	0.54	0.27	0.54	0.39	1.20	0.68	0.24	0.12	0.06	0.03		
24	0.84	0.57	0.57	0.24	0.57	0.45	1.15	0.68	0.24	0.12	0.06	0.03		
25	0.80	0.57	0.60	0.27	0.42	0.54	1.10	0.64	0.24	0.09	0.09	0.03		
26	0.76	0.54	0.57	0.30	0.45	0.92	1.10	0.60	0.21	0.09	0.03	0.06		
27	0.80	0.54	0.54	0.36	0.51	0.72	1.20	0.60	0.21	0.09	0.00	0.06		
28	0.84	0.60	0.54	0.33	0.68	0.64	1.15	0.57	0.24	0.06	0.00	0.06		
29	0.88	0.60	0.51	0.33	0.57	0.72	1.15	0.54	0.24	0.06		0.09		
30	0.92	0.60	0.51	0.24	0.54	0.64	1.00	0.54	0.21	0.03		0.18		
31		0.57		0.27	0.54		0.92		0.18	0.03		0.06		
Total	20.15	20.60	18.96	12.21	11.24	14.80	51.87	37.20	10.65	4.92	1.05	1.02	204.67	CMSDAY
Mean	0.67	0.66	0.63	0.39	0.36	0.49	1.67	1.24	0.34	0.16	0.04	0.03	0.56	CMS
Max	0.92	1.05	0.88	0.57	0.68	0.92	6.85	6.25	0.57	0.42	0.15	0.18	6.85	CMS
Min	0.39	0.54	0.51	0.24	0.24	0.39	0.57	0.54	0.18	0.03	0.00	0.00	0.00	CMS
Runoff	1.74	1.78	1.64	1.06	0.97	1.28	4.48	3.21	0.92	0.43	0.09	0.09	17.68	MCM

Momentary Peak 14.11 CMS. at 153.53 m. (MSL.) at 05.00 Hours , on Nov 5, 2014

Runoff Yield 1.53 Liters/Second/Square KM. Momentary Peak Yield 38.404 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

Lat 14 - 26 - 27 N Long 98 - 47 - 48 E

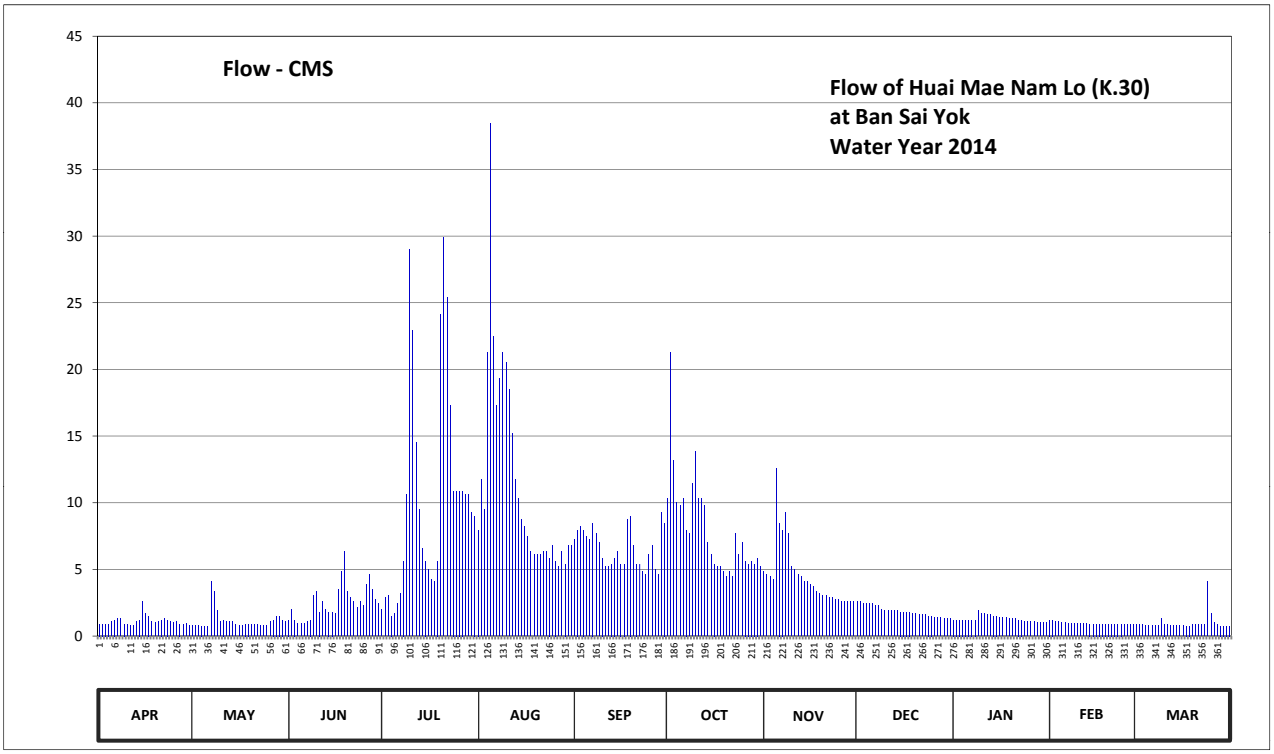
Location : on left bank about 1 kilometer downstream from station K.22A

	Ban Sai Yok	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	466 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+68.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 30 meters from the top staff gage.	**Elevation**	+77.305 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.98	67.96	68.02	68.10	68.41	68.38	68.50	68.27	68.14	68.02	68.02	67.97	
2	67.98	67.96	68.10	68.16	68.55	68.41	68.82	68.26	68.14	68.02	68.02	67.97	
3	67.98	67.96	68.02	68.17	68.47	68.42	68.60	68.25	68.13	68.02	68.01	67.97	
4	67.98	67.95	67.99	68.05	68.82	68.41	68.49	68.24	68.13	68.02	68.01	67.96	
5	68.01	67.94	67.99	68.07	69.19	68.39	68.48	68.58	68.13	68.02	68.00	67.96	
6	68.02	67.94	67.99	68.13	68.85	68.38	68.50	68.43	68.13	68.02	68.00	67.96	
7	68.03	68.23	68.01	68.18	68.72	68.43	68.41	68.41	68.12	68.02	67.99	67.96	
8	68.03	68.19	68.02	68.31	68.77	68.40	68.40	68.46	68.12	68.02	67.99	67.96	
9	67.98	68.09	68.17	68.51	68.82	68.37	68.54	68.40	68.10	68.09	67.99	68.03	
10	67.97	68.01	68.19	69.00	68.80	68.32	68.62	68.29	68.09	68.07	67.99	67.98	
11	67.96	68.02	68.08	68.86	68.75	68.29	68.50	68.28	68.09	68.07	67.99	67.97	
12	67.96	68.01	68.14	68.64	68.66	68.29	68.50	68.26	68.09	68.06	67.99	67.96	
13	68.01	68.01	68.10	68.47	68.55	68.30	68.48	68.25	68.09	68.06	67.99	67.96	
14	68.02	68.01	68.08	68.35	68.50	68.32	68.37	68.23	68.09	68.05	67.98	67.96	
15	68.14	67.97	68.08	68.31	68.44	68.34	68.33	68.23	68.08	68.05	67.98	67.96	
16	68.07	67.96	68.07	68.28	68.42	68.30	68.30	68.22	68.08	68.04	67.98	67.96	
17	68.05	67.96	68.20	68.24	68.39	68.30	68.29	68.21	68.08	68.04	67.98	67.95	
18	68.01	67.98	68.27	68.23	68.34	68.44	68.29	68.19	68.08	68.04	67.98	67.95	
19	68.00	67.98	68.34	68.31	68.33	68.45	68.27	68.18	68.07	68.03	67.98	67.97	
20	68.01	67.97	68.19	68.89	68.33	68.36	68.25	68.17	68.07	68.03	67.98	67.97	
21	68.02	67.97	68.16	69.02	68.33	68.30	68.27	68.17	68.06	68.03	67.98	67.97	
22	68.03	67.97	68.14	68.92	68.34	68.30	68.25	68.16	68.06	68.02	67.98	67.97	
23	68.02	67.96	68.11	68.72	68.34	68.27	68.40	68.16	68.06	68.02	67.98	67.97	
24	68.01	67.96	68.14	68.52	68.32	68.26	68.33	68.15	68.05	68.01	67.98	68.23	
25	68.00	67.96	68.12	68.52	68.36	68.33	68.37	68.15	68.05	68.01	67.97	68.07	
26	68.01	68.01	68.22	68.52	68.31	68.36	68.31	68.14	68.04	68.01	67.97	68.00	
27	67.98	68.02	68.26	68.52	68.29	68.28	68.30	68.14	68.04	68.01	67.97	67.97	
28	67.97	68.05	68.20	68.51	68.34	68.26	68.31	68.14	68.04	68.00	67.97	67.95	
29	67.99	68.05	68.15	68.51	68.30	68.46	68.30	68.14	68.03	68.00		67.95	
30	67.96	68.02	68.13	68.46	68.36	68.43	68.32	68.14	68.03	68.00		67.95	
31		68.01		68.45	68.36		68.29		68.03	68.00		67.95	
Mean	68.01	68.00	68.12	68.45	68.51	68.35	68.40	68.24	68.08	68.03	67.99	67.98	
Max	68.14	68.23	68.34	69.02	69.19	68.46	68.82	68.58	68.14	68.09	68.02	68.23	69.19
Min	67.96	67.94	67.99	68.05	68.29	68.26	68.25	68.14	68.03	68.00	67.97	67.95	67.94

Annual Max Momentary Gage Height	69.23	m. (MSL.) ,	at 15.00 Hours , on Aug 5, 2014		
Zero Gage at Bottom Elevation	68.00	m. (MSL.) ,	River Bed	67.48	m. (MSL.)
Left Bank Elevation	76.27	m. (MSL.) ,			
Right Bank Elevation	80.00	m. (MSL.) ,	Drainage Area	466	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	0.80	1.20	2.00	7.96	7.24	10.30	4.83	2.60	1.20	1.20	0.85		
2	0.90	0.80	2.00	2.90	11.75	7.96	21.30	4.64	2.60	1.20	1.20	0.85		
3	0.90	0.80	1.20	3.05	9.52	8.22	13.20	4.45	2.45	1.20	1.10	0.85		
4	0.90	0.75	0.95	1.50	21.30	7.96	10.04	4.26	2.45	1.20	1.10	0.80		
5	1.10	0.70	0.95	1.70	38.45	7.47	9.78	12.62	2.45	1.20	1.00	0.80		
6	1.20	0.70	0.95	2.45	22.50	7.24	10.30	8.48	2.45	1.20	1.00	0.80		
7	1.30	4.07	1.10	3.20	17.30	8.48	7.96	7.96	2.30	1.20	0.95	0.80		
8	1.30	3.35	1.20	5.63	19.30	7.70	7.70	9.26	2.30	1.20	0.95	0.80		
9	0.90	1.90	3.05	10.59	21.30	7.01	11.46	7.70	2.00	1.90	0.95	1.30		
10	0.85	1.10	3.35	29.00	20.50	5.86	13.86	5.21	1.90	1.70	0.95	0.90		
11	0.80	1.20	1.80	22.90	18.50	5.21	10.30	5.02	1.90	1.70	0.95	0.85		
12	0.80	1.10	2.60	14.52	15.18	5.21	10.30	4.64	1.90	1.60	0.95	0.80		
13	1.10	1.10	2.00	9.52	11.75	5.40	9.78	4.45	1.90	1.60	0.95	0.80		
14	1.20	1.10	1.80	6.55	10.30	5.86	7.01	4.07	1.90	1.50	0.90	0.80		
15	2.60	0.85	1.80	5.63	8.74	6.32	6.09	4.07	1.80	1.50	0.90	0.80		
16	1.70	0.80	1.70	5.02	8.22	5.40	5.40	3.88	1.80	1.40	0.90	0.80		
17	1.50	0.80	3.50	4.26	7.47	5.40	5.21	3.69	1.80	1.40	0.90	0.75		
18	1.10	0.90	4.83	4.07	6.32	8.74	5.21	3.35	1.80	1.40	0.90	0.75		
19	1.00	0.90	6.32	5.63	6.09	9.00	4.83	3.20	1.70	1.30	0.90	0.85		
20	1.10	0.85	3.35	24.10	6.09	6.78	4.45	3.05	1.70	1.30	0.90	0.85		
21	1.20	0.85	2.90	29.90	6.09	5.40	4.83	3.05	1.60	1.30	0.90	0.85		
22	1.30	0.85	2.60	25.40	6.32	5.40	4.45	2.90	1.60	1.20	0.90	0.85		
23	1.20	0.80	2.15	17.30	6.32	4.83	7.70	2.90	1.60	1.20	0.90	0.85		
24	1.10	0.80	2.60	10.88	5.86	4.64	6.09	2.75	1.50	1.10	0.90	4.07		
25	1.00	0.80	2.30	10.88	6.78	6.09	7.01	2.75	1.50	1.10	0.85	1.70		
26	1.10	1.10	3.88	10.88	5.63	6.78	5.63	2.60	1.40	1.10	0.85	1.00		
27	0.90	1.20	4.64	10.88	5.21	5.02	5.40	2.60	1.40	1.10	0.85	0.85		
28	0.85	1.50	3.50	10.59	6.32	4.64	5.63	2.60	1.40	1.00	0.85	0.75		
29	0.95	1.50	2.75	10.59	5.40	9.26	5.40	2.60	1.30	1.00		0.75		
30	0.80	1.20	2.45	9.26	6.78	8.48	5.86	2.60	1.30	1.00		0.75		
31		1.10		9.00	6.78		5.21		1.30	1.00		0.75		
Total	33.55	36.27	75.42	319.78	356.03	199.00	247.69	136.18	57.60	40.00	26.55	29.97	1558.04	CMSDAY
Mean	1.12	1.17	2.51	10.32	11.48	6.63	7.99	4.54	1.86	1.29	0.95	0.97	4.27	CMS
Max	2.60	4.07	6.32	29.90	38.45	9.26	21.30	12.62	2.60	1.90	1.20	4.07	38.45	CMS
Min	0.80	0.70	0.95	1.50	5.21	4.64	4.45	2.60	1.30	1.00	0.85	0.75	0.70	CMS
Runoff	2.90	3.13	6.52	27.63	30.76	17.19	21.40	11.77	4.98	3.46	2.29	2.59	134.62	MCM

Momentary Peak 40.65 CMS. at 69.23 m. (MSL.) at 15.00 Hours , on Aug 5, 2014

Runoff Yield 9.16 Liters/Second/Square KM. Momentary Peak Yield 87.232 Liters/Second/Square KM.

WATER YEAR : 2014

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

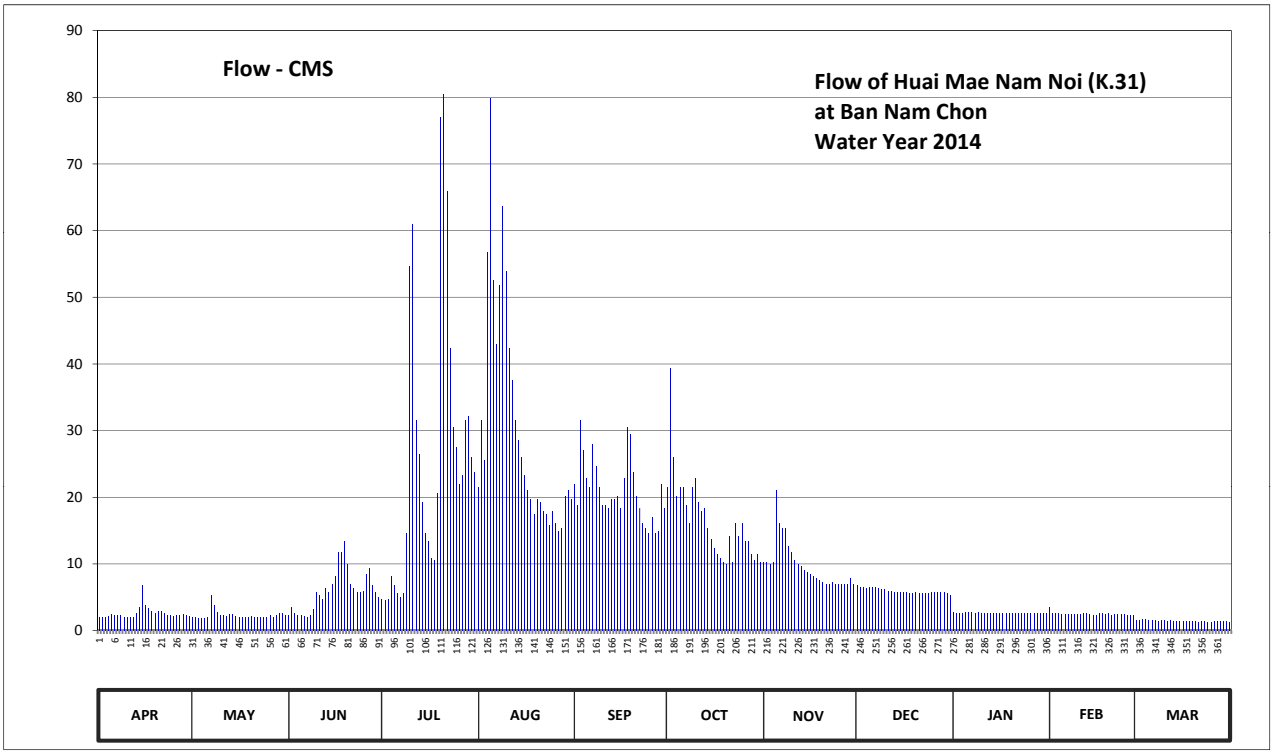
Location : on right bank about 2 kilometers downstream from station K.22A

	Ban Nam Chon	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	799 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+54.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	**Elevation**	+70.630 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	57.21	57.21	57.23	57.39	57.90	57.91	57.90	57.61	57.49	57.28	57.33	57.16	
2	57.20	57.21	57.33	57.38	58.11	57.84	58.24	57.61	57.48	57.27	57.26	57.16	
3	57.21	57.19	57.27	57.39	57.99	58.11	58.00	57.60	57.48	57.27	57.26	57.17	
4	57.22	57.19	57.24	57.54	58.51	58.02	57.87	57.61	57.47	57.27	57.26	57.17	
5	57.25	57.19	57.23	57.49	58.84	57.93	57.90	57.89	57.48	57.28	57.25	57.16	
6	57.23	57.20	57.22	57.43	58.45	57.90	57.90	57.78	57.48	57.28	57.25	57.16	
7	57.24	57.42	57.21	57.40	58.30	58.04	57.84	57.76	57.48	57.28	57.25	57.16	
8	57.23	57.34	57.23	57.43	58.44	57.97	57.78	57.76	57.47	57.27	57.25	57.15	
9	57.21	57.28	57.31	57.74	58.61	57.90	57.90	57.69	57.46	57.28	57.25	57.16	
10	57.21	57.24	57.44	58.48	58.47	57.84	57.93	57.66	57.46	57.27	57.25	57.16	
11	57.20	57.23	57.42	58.57	58.29	57.84	57.85	57.62	57.45	57.27	57.25	57.15	
12	57.21	57.22	57.39	58.11	58.21	57.83	57.82	57.60	57.45	57.26	57.26	57.16	
13	57.27	57.25	57.47	58.01	58.11	57.86	57.83	57.59	57.44	57.27	57.26	57.15	
14	57.33	57.25	57.44	57.85	58.05	57.86	57.76	57.57	57.44	57.27	57.25	57.15	
15	57.49	57.22	57.50	57.74	58.00	57.87	57.72	57.56	57.44	57.27	57.24	57.15	
16	57.34	57.21	57.54	57.71	57.94	57.83	57.68	57.55	57.44	57.26	57.24	57.14	
17	57.32	57.21	57.66	57.63	57.89	57.93	57.65	57.54	57.44	57.26	57.26	57.14	
18	57.30	57.21	57.66	57.62	57.86	58.09	57.63	57.53	57.43	57.27	57.26	57.14	
19	57.26	57.21	57.71	57.88	57.81	58.07	57.61	57.52	57.43	57.27	57.25	57.15	
20	57.30	57.22	57.60	58.80	57.86	57.95	57.60	57.51	57.44	57.26	57.26	57.14	
21	57.29	57.21	57.50	58.85	57.85	57.87	57.73	57.50	57.43	57.26	57.24	57.13	
22	57.27	57.21	57.47	58.64	57.82	57.83	57.61	57.50	57.43	57.26	57.25	57.14	
23	57.24	57.21	57.44	58.29	57.81	57.78	57.78	57.51	57.43	57.26	57.25	57.14	
24	57.23	57.21	57.44	58.09	57.77	57.76	57.73	57.50	57.43	57.27	57.25	57.13	
25	57.22	57.20	57.45	58.03	57.82	57.74	57.78	57.50	57.44	57.26	57.25	57.13	
26	57.24	57.23	57.55	57.91	57.78	57.80	57.71	57.50	57.44	57.26	57.24	57.14	
27	57.24	57.21	57.58	57.94	57.75	57.74	57.71	57.50	57.44	57.26	57.24	57.14	
28	57.25	57.23	57.49	58.11	57.76	57.75	57.65	57.50	57.44	57.26	57.24	57.14	
29	57.23	57.27	57.44	58.12	57.87	57.91	57.62	57.53	57.44	57.26		57.14	
30	57.22	57.27	57.40	58.00	57.89	57.83	57.65	57.50	57.43	57.26		57.14	
31		57.24		57.95	57.86		57.61		57.42	57.27		57.13	
Mean	57.26	57.23	57.43	57.92	58.05	57.89	57.77	57.59	57.45	57.27	57.25	57.15	
Max	57.49	57.42	57.71	58.85	58.84	58.11	58.24	57.89	57.49	57.28	57.33	57.17	58.85
Min	57.20	57.19	57.21	57.38	57.75	57.74	57.60	57.50	57.42	57.26	57.24	57.13	57.13

Annual Max Momentary Gage Height	59.06	m. (MSL.) ,	at 01.00 Hours , on Jul 20 , 2014		
Zero Gage at Bottom Elevation	54.20	m. (MSL.) ,	River Bed	56.30	m. (MSL.)
Left Bank Elevation	69.09	m. (MSL.) ,			
Right Bank Elevation	69.22	m. (MSL.) ,	Drainage Area	799	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	2.10	2.30	4.80	21.50	21.95	21.50	10.30	6.80	2.80	3.60	1.60		
2	2.00	2.10	3.60	4.60	31.60	18.80	39.40	10.30	6.60	2.70	2.60	1.60		
3	2.10	1.90	2.70	4.80	25.55	31.60	26.00	10.00	6.60	2.70	2.60	1.70		
4	2.20	1.90	2.40	8.20	56.70	27.00	20.15	10.30	6.40	2.70	2.60	1.70		
5	2.50	1.90	2.30	6.80	79.80	22.85	21.50	21.05	6.60	2.80	2.50	1.60		
6	2.30	2.00	2.20	5.60	52.50	21.50	21.50	16.20	6.60	2.80	2.50	1.60		
7	2.40	5.40	2.10	5.00	43.00	28.00	18.80	15.40	6.60	2.80	2.50	1.60		
8	2.30	3.80	2.30	5.60	51.80	24.65	16.20	15.40	6.40	2.70	2.50	1.50		
9	2.10	2.80	3.20	14.60	63.70	21.50	21.50	12.70	6.20	2.80	2.50	1.60		
10	2.10	2.40	5.80	54.60	53.90	18.80	22.85	11.80	6.20	2.70	2.50	1.60		
11	2.00	2.30	5.40	60.90	42.40	18.80	19.25	10.60	6.00	2.70	2.50	1.50		
12	2.10	2.20	4.80	31.60	37.60	18.35	17.90	10.00	6.00	2.60	2.60	1.60		
13	2.70	2.50	6.40	26.50	31.60	19.70	18.35	9.70	5.80	2.70	2.60	1.50		
14	3.60	2.50	5.80	19.25	28.50	19.70	15.40	9.10	5.80	2.70	2.50	1.50		
15	6.80	2.20	7.00	14.60	26.00	20.15	13.80	8.80	5.80	2.70	2.40	1.50		
16	3.80	2.10	8.20	13.40	23.30	18.35	12.40	8.50	5.80	2.60	2.40	1.40		
17	3.40	2.10	11.80	10.90	21.05	22.85	11.50	8.20	5.80	2.60	2.60	1.40		
18	3.00	2.10	11.80	10.60	19.70	30.50	10.90	7.90	5.60	2.70	2.60	1.40		
19	2.60	2.10	13.40	20.60	17.45	29.50	10.30	7.60	5.60	2.70	2.50	1.50		
20	3.00	2.20	10.00	77.00	19.70	23.75	10.00	7.30	5.80	2.60	2.60	1.40		
21	2.90	2.10	7.00	80.50	19.25	20.15	14.20	7.00	5.60	2.60	2.40	1.30		
22	2.70	2.10	6.40	65.80	17.90	18.35	10.30	7.00	5.60	2.60	2.50	1.40		
23	2.40	2.10	5.80	42.40	17.45	16.20	16.20	7.30	5.60	2.60	2.50	1.40		
24	2.30	2.10	5.80	30.50	15.80	15.40	14.20	7.00	5.60	2.70	2.50	1.30		
25	2.20	2.00	6.00	27.50	17.90	14.60	16.20	7.00	5.80	2.60	2.50	1.30		
26	2.40	2.30	8.50	21.95	16.20	17.00	13.40	7.00	5.80	2.60	2.40	1.40		
27	2.40	2.10	9.40	23.30	15.00	14.60	13.40	7.00	5.80	2.60	2.40	1.40		
28	2.50	2.30	6.80	31.60	15.40	15.00	11.50	7.00	5.80	2.60	2.40	1.40		
29	2.30	2.70	5.80	32.20	20.15	21.95	10.60	7.90	5.80	2.60		1.40		
30	2.20	2.70	5.00	26.00	21.05	18.35	11.50	7.00	5.60	2.60		1.40		
31		2.40		23.75	19.70		10.30		5.40	2.70		1.30		
Total	79.40	73.50	180.00	805.45	943.15	629.90	511.00	292.35	185.40	82.90	71.30	45.80	3900.15	CMSDAY
Mean	2.65	2.37	6.00	25.98	30.42	21.00	16.48	9.74	5.98	2.67	2.55	1.48	10.69	CMS
Max	6.80	5.40	13.40	80.50	79.80	31.60	39.40	21.05	6.80	2.80	3.60	1.70	80.50	CMS
Min	2.00	1.90	2.10	4.60	15.00	14.60	10.00	7.00	5.40	2.60	2.40	1.30	1.30	CMS
Runoff	6.86	6.35	15.55	69.59	81.49	54.42	44.15	25.26	16.02	7.16	6.16	3.96	336.97	MCM

Momentary Peak 96.80 CMS. at 59.06 m. (MSL.) at 01.00 Hours , on Jul 20 , 2014

Runoff Yield 13.37 Liters/Second/Square KM. Momentary Peak Yield 121.151 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

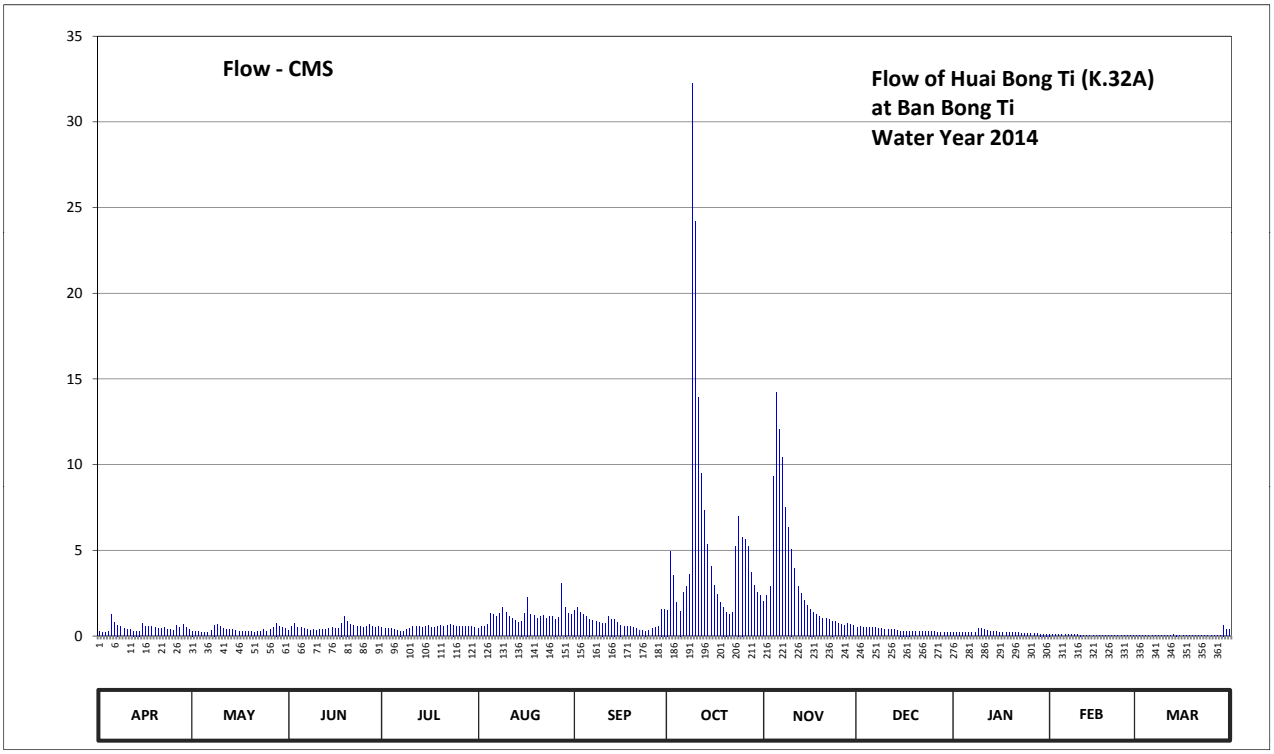
Location : on right bank at Ban Bong Ti.

	Ban Bong Ti	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	518 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+84.191 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 6.50 meters from the top staff gage.	**Elevation**	+90.239 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.57	84.60	84.61	84.66	84.65	84.92	84.92	85.00	84.67	84.55	84.51	84.42	
2	84.56	84.59	84.68	84.65	84.68	84.94	85.31	85.05	84.69	84.55	84.50	84.42	
3	84.56	84.57	84.73	84.65	84.68	84.90	85.19	85.12	84.67	84.55	84.50	84.42	
4	84.59	84.56	84.66	84.64	84.72	84.87	84.99	85.59	84.67	84.55	84.49	84.42	
5	84.87	84.55	84.66	84.62	84.88	84.83	84.91	85.82	84.67	84.54	84.49	84.42	
6	84.75	84.55	84.65	84.61	84.86	84.80	85.08	85.73	84.67	84.54	84.49	84.41	
7	84.71	84.61	84.62	84.60	84.83	84.78	85.12	85.65	84.66	84.54	84.48	84.42	
8	84.68	84.71	84.61	84.59	84.88	84.76	85.20	85.48	84.64	84.55	84.48	84.42	
9	84.65	84.72	84.62	84.62	84.94	84.75	86.42	85.41	84.64	84.65	84.47	84.43	
10	84.63	84.68	84.61	84.65	84.89	84.74	86.18	85.32	84.63	84.65	84.47	84.44	
11	84.62	84.65	84.62	84.68	84.84	84.73	85.81	85.23	84.63	84.62	84.46	84.45	
12	84.60	84.63	84.62	84.69	84.81	84.84	85.60	85.12	84.63	84.61	84.45	84.44	
13	84.60	84.62	84.63	84.68	84.78	84.80	85.47	85.07	84.62	84.59	84.45	84.49	
14	84.60	84.62	84.65	84.67	84.75	84.80	85.34	85.01	84.61	84.58	84.45	84.46	
15	84.73	84.61	84.66	84.69	84.77	84.75	85.24	84.96	84.60	84.57	84.44	84.45	
16	84.69	84.59	84.65	84.70	84.88	84.71	85.13	84.93	84.60	84.56	84.44	84.44	
17	84.69	84.57	84.65	84.67	85.04	84.69	85.06	84.90	84.60	84.56	84.44	84.43	
18	84.69	84.58	84.74	84.67	84.87	84.69	84.99	84.87	84.60	84.55	84.44	84.43	
19	84.66	84.59	84.83	84.68	84.85	84.68	84.95	84.83	84.59	84.55	84.44	84.43	
20	84.64	84.57	84.77	84.70	84.81	84.66	84.90	84.81	84.58	84.54	84.44	84.43	
21	84.65	84.55	84.72	84.69	84.83	84.64	84.86	84.81	84.58	84.54	84.44	84.43	
22	84.66	84.57	84.70	84.70	84.85	84.62	84.89	84.79	84.58	84.54	84.45	84.43	
23	84.63	84.59	84.69	84.72	84.81	84.61	85.33	84.77	84.58	84.53	84.45	84.43	
24	84.62	84.63	84.68	84.71	84.83	84.60	85.45	84.76	84.58	84.53	84.44	84.43	
25	84.61	84.59	84.67	84.69	84.83	84.61	85.37	84.73	84.57	84.52	84.44	84.44	
26	84.70	84.62	84.68	84.68	84.80	84.64	85.36	84.72	84.57	84.52	84.43	84.43	
27	84.66	84.67	84.72	84.68	84.82	84.67	85.33	84.71	84.56	84.52	84.43	84.43	
28	84.72	84.74	84.69	84.69	85.14	84.68	85.21	84.73	84.56	84.52	84.42	84.43	
29	84.66	84.68	84.67	84.69	84.95	84.93	85.13	84.72	84.56	84.51		84.71	
30	84.63	84.66	84.68	84.68	84.88	84.93	85.08	84.70	84.56	84.51		84.62	
31		84.64		84.66	84.86		85.05		84.56	84.51		84.63	
Mean	84.65	84.62	84.67	84.67	84.84	84.75	85.25	85.04	84.61	84.55	84.46	84.45	
Max	84.87	84.74	84.83	84.72	85.14	84.94	86.42	85.82	84.69	84.65	84.51	84.71	86.42
Min	84.56	84.55	84.61	84.59	84.65	84.60	84.86	84.70	84.56	84.51	84.42	84.41	84.41

Annual Max Momentary Gage Height	86.72	m. (MSL.) ,	at 11.00 Hours , on Oct 9 , 2014		
Zero Gage at Bottom Elevation	84.19	m. (MSL.) ,	River Bed	84.77	m. (MSL.)
Left Bank Elevation	90.38	m. (MSL.) ,			
Right Bank Elevation	91.80	m. (MSL.) ,	Drainage Area	518	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.24	0.30	0.33	0.48	0.45	1.52	1.52	2.00	0.51	0.20	0.12	0.02		
2	0.22	0.28	0.54	0.45	0.54	1.64	4.94	2.35	0.57	0.20	0.10	0.02		
3	0.22	0.24	0.72	0.45	0.54	1.40	3.51	2.88	0.51	0.20	0.10	0.02		
4	0.28	0.22	0.48	0.42	0.68	1.28	1.94	9.33	0.51	0.20	0.09	0.02		
5	1.28	0.20	0.48	0.36	1.32	1.12	1.46	14.20	0.51	0.18	0.09	0.02		
6	0.80	0.20	0.45	0.33	1.24	1.00	2.56	12.09	0.51	0.18	0.09	0.01		
7	0.64	0.33	0.36	0.30	1.12	0.92	2.88	10.45	0.48	0.18	0.08	0.02		
8	0.54	0.64	0.33	0.28	1.32	0.84	3.60	7.48	0.42	0.20	0.08	0.02		
9	0.45	0.68	0.36	0.36	1.64	0.80	32.26	6.36	0.42	0.45	0.07	0.03		
10	0.39	0.54	0.33	0.45	1.36	0.76	24.18	5.08	0.39	0.45	0.07	0.04		
11	0.36	0.45	0.36	0.54	1.16	0.72	13.95	3.96	0.39	0.36	0.06	0.05		
12	0.30	0.39	0.36	0.57	1.04	1.16	9.50	2.88	0.39	0.33	0.05	0.04		
13	0.30	0.36	0.39	0.54	0.92	1.00	7.32	2.49	0.36	0.28	0.05	0.09		
14	0.30	0.36	0.45	0.51	0.80	1.00	5.36	2.07	0.33	0.26	0.05	0.06		
15	0.72	0.33	0.48	0.57	0.88	0.80	4.08	1.76	0.30	0.24	0.04	0.05		
16	0.57	0.28	0.45	0.60	1.32	0.64	2.97	1.58	0.30	0.22	0.04	0.04		
17	0.57	0.24	0.45	0.51	2.28	0.57	2.42	1.40	0.30	0.22	0.04	0.03		
18	0.57	0.26	0.76	0.51	1.28	0.57	1.94	1.28	0.30	0.20	0.04	0.03		
19	0.48	0.28	1.12	0.54	1.20	0.54	1.70	1.12	0.28	0.20	0.04	0.03		
20	0.42	0.24	0.88	0.60	1.04	0.48	1.40	1.04	0.26	0.18	0.04	0.03		
21	0.45	0.20	0.68	0.57	1.12	0.42	1.24	1.04	0.26	0.18	0.04	0.03		
22	0.48	0.24	0.60	0.60	1.20	0.36	1.36	0.96	0.26	0.18	0.05	0.03		
23	0.39	0.28	0.57	0.68	1.04	0.33	5.22	0.88	0.26	0.16	0.05	0.03		
24	0.36	0.39	0.54	0.64	1.12	0.30	7.00	0.84	0.26	0.16	0.04	0.03		
25	0.33	0.28	0.51	0.57	1.12	0.33	5.78	0.72	0.24	0.14	0.04	0.04		
26	0.60	0.36	0.54	0.54	1.00	0.42	5.64	0.68	0.24	0.14	0.03	0.03		
27	0.48	0.51	0.68	0.54	1.08	0.51	5.22	0.64	0.22	0.14	0.03	0.03		
28	0.68	0.76	0.57	0.57	3.06	0.54	3.72	0.72	0.22	0.14	0.02	0.03		
29	0.48	0.54	0.51	0.57	1.70	1.58	2.97	0.68	0.22	0.12		0.64		
30	0.39	0.48	0.54	0.54	1.32	1.58	2.56	0.60	0.22	0.12		0.36		
31		0.42		0.48	1.24		2.35		0.22	0.12		0.39		
Total	14.29	11.28	15.82	15.67	37.13	25.13	172.55	99.56	10.66	6.53	1.64	2.31	412.57	CMSDAY
Mean	0.48	0.36	0.53	0.51	1.20	0.84	5.57	3.32	0.34	0.21	0.06	0.07	1.13	CMS
Max	1.28	0.76	1.12	0.68	3.06	1.64	32.26	14.20	0.57	0.45	0.12	0.64	32.26	CMS
Min	0.22	0.20	0.33	0.28	0.45	0.30	1.24	0.60	0.22	0.12	0.02	0.01	0.01	CMS
Runoff	1.24	0.98	1.37	1.35	3.21	2.17	14.91	8.60	0.92	0.56	0.14	0.20	35.65	MCM

Momentary Peak 44.20 CMS. at 86.72 m. (MSL.) at 11.00 Hours , on Oct 9 , 2014

Runoff Yield 2.18 Liters/Second/Square KM. Momentary Peak Yield 85.328 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Khwae Yai River at Ban Nong Bua , Kanchanaburi (K.35A)

Lat 14 - 03 - 22 N Long 99 - 27 - 32 E

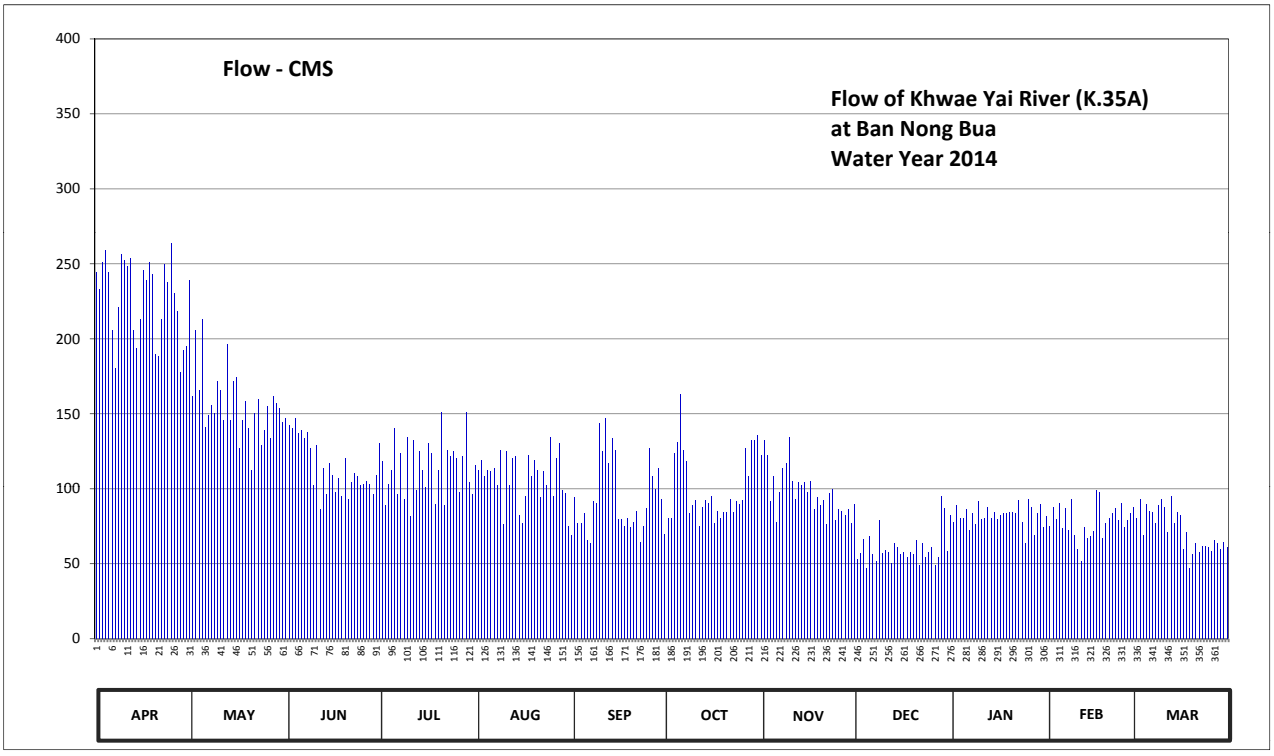
Location : on left bank at Ban Nong Bua.

	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**	+27.498 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 Flot	-		
Rated by Current Meter	1984 - 1985 , 1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Sri Nakarindra Dam.		
	Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.75	25.71	24.97	24.82	24.69	24.20	24.21	24.75	24.43	24.35	24.34	24.41	
2	25.66	25.10	24.93	24.71	24.66	24.48	24.33	24.84	24.01	24.30	24.27	24.33	
3	25.80	25.45	24.91	24.42	24.72	24.29	24.33	24.75	24.06	24.42	24.41	24.47	
4	25.86	25.13	24.97	24.57	24.62	24.29	24.76	24.45	24.17	24.33	24.32	24.20	
5	25.75	25.51	24.88	24.66	24.66	24.36	24.83	24.62	23.94	24.33	24.44	24.43	
6	25.45	24.92	24.90	24.91	24.65	24.16	25.11	24.30	24.19	24.39	24.25	24.38	
7	25.25	24.99	24.85	24.50	24.67	24.14	24.78	24.52	24.05	24.24	24.40	24.37	
8	25.57	25.05	24.89	24.76	24.56	24.45	24.71	24.67	24.00	24.36	24.24	24.29	
9	25.84	25.00	24.79	24.47	24.78	24.44	24.36	24.70	24.31	24.28	24.47	24.42	
10	25.81	25.18	24.56	24.86	24.28	24.94	24.42	24.86	24.06	24.45	24.20	24.47	
11	25.78	25.13	24.81	24.34	24.77	24.77	24.46	24.59	24.09	24.32	24.10	24.41	
12	25.82	24.96	24.39	24.84	24.56	24.97	24.27	24.47	24.07	24.33	24.00	24.22	
13	25.45	25.38	24.67	24.53	24.73	24.70	24.41	24.58	23.98	24.41	24.26	24.49	
14	25.36	24.96	24.50	24.77	24.74	24.85	24.46	24.56	24.14	24.33	24.18	24.29	
15	25.51	25.18	24.70	24.66	24.35	24.78	24.44	24.58	24.11	24.37	24.19	24.37	
16	25.76	25.20	24.63	24.55	24.29	24.32	24.49	24.52	24.05	24.32	24.23	24.35	
17	25.71	24.79	24.52	24.82	24.49	24.32	24.29	24.59	24.07	24.35	24.53	24.10	
18	25.80	24.96	24.61	24.76	24.75	24.27	24.38	24.39	24.03	24.36	24.52	24.22	
19	25.74	25.07	24.49	24.43	24.62	24.33	24.33	24.48	24.07	24.36	24.18	23.94	
20	25.33	24.91	24.73	24.66	24.72	24.26	24.37	24.42	24.05	24.37	24.29	24.05	
21	25.32	24.66	24.47	25.01	24.66	24.30	24.37	24.46	24.16	24.37	24.33	24.14	
22	25.51	25.00	24.58	24.42	24.48	24.38	24.47	24.28	23.96	24.36	24.36	24.07	
23	25.79	25.08	24.64	24.78	24.65	24.15	24.37	24.51	24.14	24.46	24.40	24.12	
24	25.70	24.81	24.62	24.74	24.56	24.27	24.45	24.54	24.03	24.30	24.31	24.12	
25	25.90	24.90	24.56	24.77	24.86	24.40	24.43	24.31	24.07	24.14	24.44	24.11	
26	25.64	25.04	24.57	24.73	24.49	24.79	24.46	24.39	24.11	24.47	24.26	24.08	
27	25.55	24.85	24.59	24.52	24.73	24.62	24.79	24.38	23.96	24.41	24.31	24.16	
28	25.23	25.10	24.57	24.74	24.82	24.54	24.62	24.35	24.03	24.20	24.36	24.14	
29	25.35	25.06	24.50	25.01	24.53	24.67	24.84	24.39	24.49	24.36		24.10	
30	25.37	25.03	24.63	24.58	24.51	24.47	24.84	24.29	24.40	24.43		24.15	
31		24.95		24.50	24.27		24.87		24.08	24.26		24.11	
Mean	25.61	25.07	24.68	24.67	24.61	24.46	24.52	24.52	24.11	24.35	24.31	24.24	
Max	25.90	25.71	24.97	25.01	24.86	24.97	25.11	24.86	24.49	24.47	24.53	24.49	25.90
Min	25.23	24.66	24.39	24.34	24.27	24.14	24.21	24.28	23.94	24.14	24.00	23.94	23.94

Annual Max Momentary Gage Height	26.03	m. (MSL.) ,	at 22.00 Hours , on Apr 4 , 2014		
Zero Gage at Bottom Elevation	21.50	m. (MSL.) ,	River Bed	22.56	m. (MSL.)
Left Bank Elevation	26.90	m. (MSL.) ,			
Right Bank Elevation	26.70	m. (MSL.) ,	Drainage Area	14444	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	244.50	239.30	146.70	130.20	115.90	69.00	69.90	122.50	89.70	82.50	81.60	87.90		
2	232.80	162.00	142.30	118.10	112.60	94.20	80.70	132.40	52.80	78.00	75.30	80.70		
3	251.00	205.50	140.10	88.80	119.20	77.10	80.70	122.50	56.80	88.80	87.90	93.30		
4	258.80	165.60	146.70	103.00	108.20	77.10	123.60	91.50	66.30	80.70	79.80	69.00		
5	244.50	213.30	136.80	112.60	112.60	83.40	131.30	108.20	47.20	80.70	90.60	89.70		
6	205.50	141.20	139.00	140.10	111.50	65.40	163.20	78.00	68.10	86.10	73.50	85.20		
7	180.00	148.90	133.50	96.00	113.70	63.60	125.80	98.00	56.00	72.60	87.00	84.30		
8	221.10	156.00	137.90	123.60	102.00	91.50	118.10	113.70	52.00	83.40	72.60	77.10		
9	256.20	150.00	126.90	93.30	125.80	90.60	83.40	117.00	78.90	76.20	93.30	88.80		
10	252.30	171.60	102.00	134.60	76.20	143.40	88.80	134.60	56.80	91.50	69.00	93.30		
11	248.40	165.60	129.10	81.60	124.70	124.70	92.40	105.00	59.20	79.80	60.00	87.90		
12	253.60	145.60	86.10	132.40	102.00	146.70	75.30	93.30	57.60	80.70	52.00	70.80		
13	205.50	196.40	113.70	99.00	120.30	117.00	87.90	104.00	50.40	87.90	74.40	95.10		
14	193.80	145.60	96.00	124.70	121.40	133.50	92.40	102.00	63.60	80.70	67.20	77.10		
15	213.30	171.60	117.00	112.60	82.50	125.80	90.60	104.00	60.90	84.30	68.10	84.30		
16	245.80	174.00	109.30	101.00	77.10	79.80	95.10	98.00	56.00	79.80	71.70	82.50		
17	239.30	126.90	98.00	130.20	95.10	79.80	77.10	105.00	57.60	82.50	99.00	60.00		
18	251.00	145.60	107.10	123.60	122.50	75.30	85.20	86.10	54.40	83.40	98.00	70.80		
19	243.20	158.40	95.10	89.70	108.20	80.70	80.70	94.20	57.60	83.40	67.20	47.20		
20	189.90	140.10	120.30	112.60	119.20	74.40	84.30	88.80	56.00	84.30	77.10	56.00		
21	188.60	112.60	93.30	151.20	112.60	78.00	84.30	92.40	65.40	84.30	80.70	63.60		
22	213.30	150.00	104.00	88.80	94.20	85.20	93.30	76.20	48.80	83.40	83.40	57.60		
23	249.70	159.60	110.40	125.80	111.50	64.50	84.30	97.00	63.60	92.40	87.00	61.80		
24	238.00	129.10	108.20	121.40	102.00	75.30	91.50	100.00	54.40	78.00	78.90	61.80		
25	264.00	139.00	102.00	124.70	134.60	87.00	89.70	78.90	57.60	63.60	90.60	60.90		
26	230.20	154.80	103.00	120.30	95.10	126.90	92.40	86.10	60.90	93.30	74.40	58.40		
27	218.50	133.50	105.00	98.00	120.30	108.20	126.90	85.20	48.80	87.90	78.90	65.40		
28	177.60	162.00	103.00	121.40	130.20	100.00	108.20	82.50	54.40	69.00	83.40	63.60		
29	192.50	157.20	96.00	151.20	99.00	113.70	132.40	86.10	95.10	83.40		60.00		
30	195.10	153.60	109.30	104.00	97.00	93.30	132.40	77.10	87.00	89.70		64.50		
31		144.5		96.00	75.30		135.70		58.40	74.40		60.90		
Total	6798.00	4919.10	3457.80	3550.50	3342.50	2825.10	3097.60	2960.30	1892.30	2546.70	2202.60	2259.50	39852.00	CMSDAY
Mean	226.60	158.68	115.26	114.53	107.82	94.17	99.92	98.68	61.04	82.15	78.66	72.89	109.18	CMS
Max	264.00	239.30	146.70	151.20	134.60	146.70	163.20	134.60	95.10	93.30	99.00	95.10	264.00	CMS
Min	177.60	112.60	86.10	81.60	75.30	63.60	69.90	76.20	47.20	63.60	52.00	47.20	47.20	CMS
Runoff	587.35	425.01	298.75	306.76	288.79	244.09	267.63	255.77	163.50	220.04	190.31	195.22	3443.21	MCM

Momentary Peak 280.90 CMS. at 26.03 m. (MSL.) at 22.00 Hours , on Apr 4 , 2014

Runoff Yield 7.56 Liters/Second/Square KM. Momentary Peak Yield 19.447 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Wang Yen , Kanchanaburi (K.37)

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

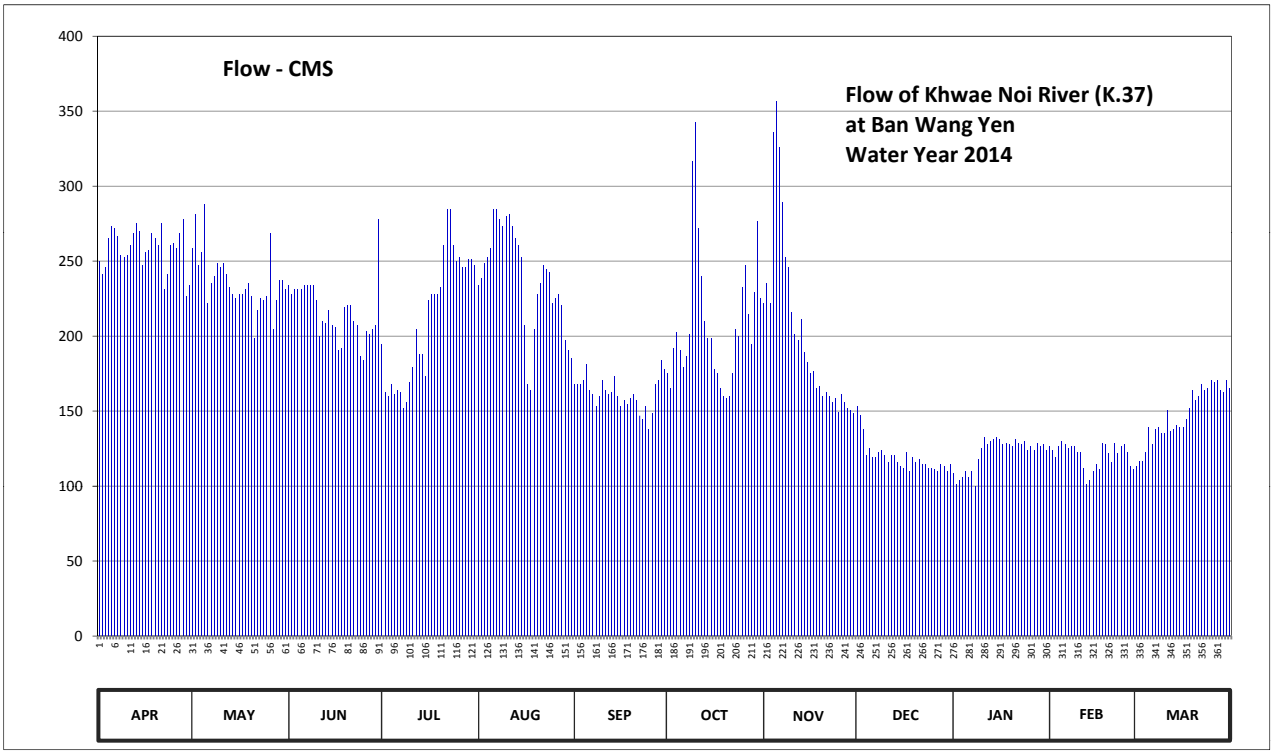
Location : on left bank at Ban Wang Yen.

	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 Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Khao Laem Dam.		
	Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.27	24.33	24.16	23.88	24.16	23.69	23.74	24.08	23.58	23.22	23.37	23.26	
2	24.21	24.47	24.12	23.65	24.19	23.69	23.67	24.17	23.53	23.16	23.35	23.29	
3	24.24	24.25	24.14	23.63	24.26	23.69	23.86	24.08	23.46	23.18	23.31	23.29	
4	24.37	24.31	24.14	23.69	24.29	23.71	23.94	24.81	23.32	23.20	23.37	23.34	
5	24.42	24.51	24.14	23.64	24.33	23.78	23.85	24.93	23.36	23.23	23.40	23.47	
6	24.41	24.08	24.16	23.66	24.49	23.66	23.77	24.75	23.31	23.20	23.38	23.38	
7	24.38	24.17	24.16	23.65	24.49	23.64	23.82	24.52	23.31	23.23	23.36	23.46	
8	24.30	24.20	24.16	23.57	24.45	23.58	23.93	24.29	23.34	23.15	23.37	23.47	
9	24.29	24.26	24.16	23.60	24.42	23.63	24.69	24.24	23.35	23.30	23.37	23.44	
10	24.30	24.24	24.09	23.70	24.46	23.71	24.85	24.04	23.32	23.36	23.34	23.44	
11	24.34	24.26	23.92	23.77	24.47	23.66	24.41	23.93	23.28	23.42	23.34	23.56	
12	24.39	24.21	24.00	23.96	24.42	23.64	24.20	23.90	23.32	23.38	23.25	23.45	
13	24.43	24.15	23.99	23.83	24.37	23.65	24.00	24.01	23.32	23.40	23.16	23.46	
14	24.40	24.12	24.05	23.83	24.34	23.73	23.91	23.84	23.28	23.41	23.18	23.48	
15	24.25	24.10	23.98	23.73	24.29	23.63	23.91	23.79	23.26	23.42	23.23	23.47	
16	24.31	24.12	23.97	24.09	23.98	23.58	23.76	23.74	23.25	23.41	23.27	23.47	
17	24.32	24.12	23.85	24.12	23.69	23.61	23.74	23.75	23.34	23.38	23.24	23.51	
18	24.39	24.14	23.86	24.12	23.66	23.59	23.67	23.67	23.23	23.39	23.39	23.57	
19	24.37	24.17	24.06	24.12	23.96	23.62	23.63	23.68	23.31	23.38	23.38	23.66	
20	24.34	24.11	24.07	24.15	24.12	23.64	23.62	23.63	23.28	23.37	23.33	23.61	
21	24.43	23.91	24.07	24.34	24.17	23.61	23.63	23.65	23.30	23.41	23.28	23.63	
22	24.14	24.05	24.00	24.49	24.25	23.53	23.74	23.63	23.27	23.39	23.39	23.69	
23	24.21	24.10	23.98	24.49	24.23	23.51	23.96	23.60	23.27	23.38	23.33	23.66	
24	24.34	24.09	23.82	24.34	24.22	23.58	23.92	23.62	23.25	23.40	23.37	23.67	
25	24.35	24.11	23.80	24.27	24.08	23.46	24.15	23.55	23.25	23.35	23.38	23.71	
26	24.33	24.39	23.95	24.29	24.10	23.54	24.25	23.64	23.24	23.37	23.34	23.70	
27	24.39	23.96	23.93	24.24	24.12	23.69	24.03	23.60	23.23	23.35	23.26	23.71	
28	24.45	24.09	23.96	24.24	24.07	23.71	23.88	23.57	23.27	23.39	23.24	23.66	
29	24.11	24.18	23.98	24.28	23.90	23.80	24.13	23.56	23.26	23.37		23.65	
30	24.16	24.18	24.45	24.28	23.85	23.76	24.44	23.54	23.23	23.38		23.71	
31		24.14		24.25	23.81		24.10		23.27	23.35		23.67	
Mean	24.32	24.18	24.04	24.00	24.18	23.64	23.97	23.93	23.31	23.33	23.32	23.53	
Max	24.45	24.51	24.45	24.49	24.49	23.80	24.85	24.93	23.58	23.42	23.40	23.71	24.93
Min	24.11	23.91	23.80	23.57	23.66	23.46	23.62	23.54	23.23	23.15	23.16	23.26	23.15

Annual Max Momentary Gage Height	25.03	m. (MSL.) ,	at 05.00 Hours , on Oct 10 , 2014		
Zero Gage at Bottom Elevation	19.84	m. (MSL.) ,	River Bed	19.80	m. (MSL.)
Left Bank Elevation	32.69	m. (MSL.) ,			
Right Bank Elevation	32.51	m. (MSL.) ,	Drainage Area	10557	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	249.80	258.80	234.00	194.40	234.00	167.70	175.00	222.00	153.40	108.40	126.40	113.20		
2	241.40	281.20	228.00	162.50	238.50	167.70	165.10	235.50	146.90	101.20	124.00	116.80		
3	245.60	247.00	231.00	159.90	248.40	167.70	191.80	222.00	137.80	103.60	119.20	116.80		
4	265.20	255.60	231.00	167.70	252.60	170.50	202.20	335.70	120.40	106.00	126.40	122.80		
5	273.20	287.60	231.00	161.20	258.80	181.00	190.50	356.40	125.20	109.60	130.00	139.10		
6	271.60	222.00	234.00	163.80	284.40	163.80	179.50	326.00	119.20	106.00	127.60	127.60		
7	266.80	235.50	234.00	162.50	284.40	161.20	186.60	289.20	119.20	109.60	125.20	137.80		
8	254.00	240.00	234.00	152.10	278.00	153.40	200.90	252.60	122.80	100.00	126.40	139.10		
9	252.60	248.40	234.00	156.00	273.20	159.90	316.40	245.60	124.00	118.00	126.40	135.20		
10	254.00	245.60	223.50	169.00	279.60	170.50	342.50	216.00	120.40	125.20	122.80	135.20		
11	260.40	248.40	199.60	179.50	281.20	163.80	271.60	200.90	115.60	132.60	122.80	150.80		
12	268.40	241.40	210.00	204.80	273.20	161.20	240.00	197.00	120.40	127.60	112.00	136.50		
13	274.80	232.50	208.70	187.90	265.20	162.50	210.00	211.50	120.40	130.00	101.20	137.80		
14	270.00	228.00	217.50	187.90	260.40	173.50	198.30	189.20	115.60	131.30	103.60	140.40		
15	247.00	225.00	207.40	173.50	252.60	159.90	198.30	182.50	113.20	132.60	109.60	139.10		
16	255.60	228.00	206.10	223.50	207.40	153.40	178.00	175.00	112.00	131.30	114.40	139.10		
17	257.20	228.00	190.50	228.00	167.70	157.30	175.00	176.50	122.80	127.60	110.80	144.30		
18	268.40	231.00	191.80	228.00	163.80	154.70	165.10	165.10	109.60	128.80	128.80	152.10		
19	265.20	235.50	219.00	228.00	204.80	158.60	159.90	166.40	119.20	127.60	127.60	163.80		
20	260.40	226.50	220.50	232.50	228.00	161.20	158.60	159.90	115.60	126.40	121.60	157.30		
21	274.80	198.30	220.50	260.40	235.50	157.30	159.90	162.50	118.00	131.30	115.60	159.90		
22	231.00	217.50	210.00	284.40	247.00	146.90	175.00	159.90	114.40	128.80	128.80	167.70		
23	241.40	225.00	207.40	284.40	244.20	144.30	204.80	156.00	114.40	127.60	121.60	163.80		
24	260.40	223.50	186.60	260.40	242.80	153.40	199.60	158.60	112.00	130.00	126.40	165.10		
25	262.00	226.50	184.00	249.80	222.00	137.80	232.50	149.50	112.00	124.00	127.60	170.50		
26	258.80	268.40	203.50	252.60	225.00	148.20	247.00	161.20	110.80	126.40	122.80	169.00		
27	268.40	204.80	200.90	245.60	228.00	167.70	214.50	156.00	109.60	124.00	113.20	170.50		
28	278.00	223.50	204.80	245.60	220.50	170.50	194.40	152.10	114.40	128.80	110.80	163.80		
29	226.50	237.00	207.40	251.20	197.00	184.00	229.50	150.80	113.20	126.40		162.50		
30	234.00	237.00	278.00	251.20	190.50	178.00	276.40	148.20	109.60	127.60		170.50		
31		231.00		247.00	185.30		225.00		114.40	124.00		165.10		
Total	7736.90	7338.50	6488.70	6555.30	7374.00	4857.60	6463.90	6079.80	3696.50	3782.30	3373.60	4573.20	68320.30	CMSDAY
Mean	257.90	236.73	216.29	211.46	237.87	161.92	208.51	202.66	119.24	122.01	120.49	147.52	187.18	CMS
Max	278.00	287.60	278.00	284.40	284.40	184.00	342.50	356.40	153.40	132.60	130.00	170.50	356.40	CMS
Min	226.50	198.30	184.00	152.10	163.80	137.80	158.60	148.20	109.60	100.00	101.20	113.20	100.00	CMS
Runoff	668.47	634.05	560.62	566.38	637.11	419.70	558.48	525.30	319.38	326.79	291.48	395.13	5902.88	MCM

Momentary Peak 374.40 CMS. at 25.03 m. (MSL.) at 05.00 Hours , on Oct 10 , 2014

Runoff Yield 17.73 Liters/Second/Square KM. Momentary Peak Yield 35.465 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

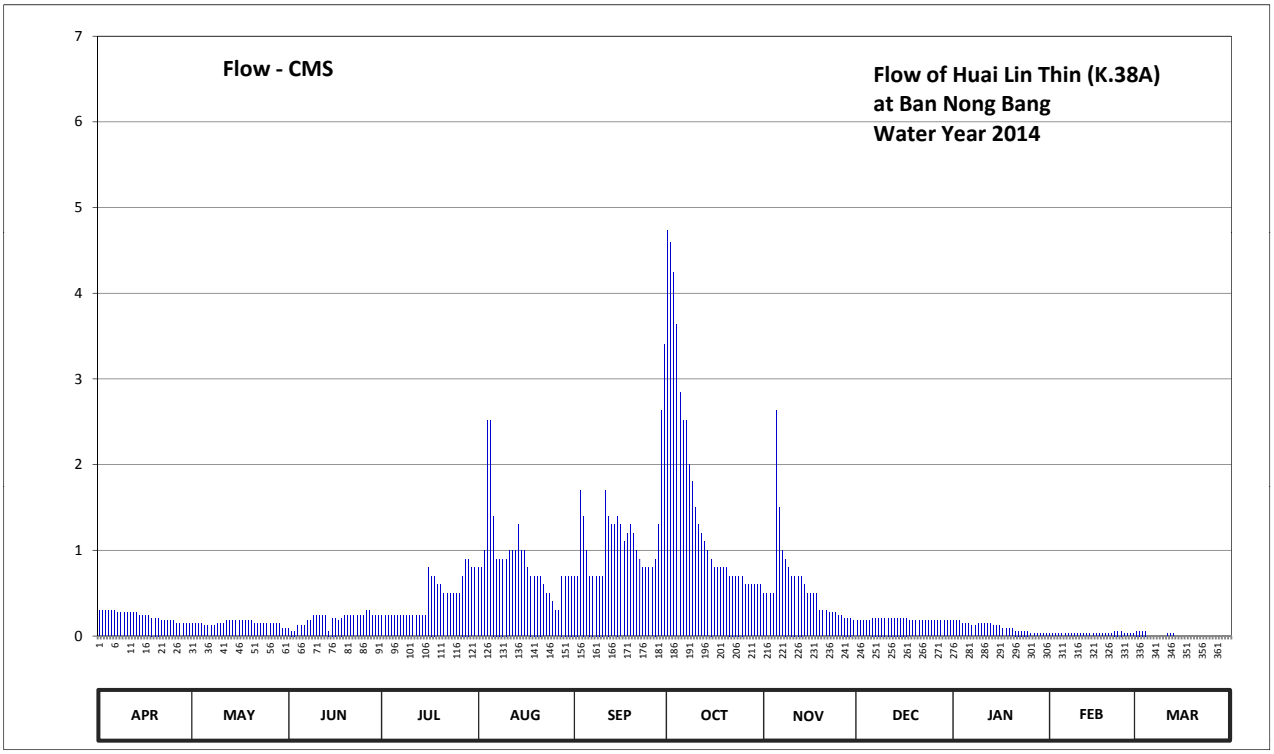
Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	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 Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.60	90.55	90.53	90.58	90.65	90.64	91.01	90.62	90.56	90.56	90.51	90.52	
2	90.60	90.55	90.52	90.58	90.65	90.64	91.00	90.62	90.56	90.56	90.51	90.52	
3	90.60	90.55	90.52	90.58	90.67	90.74	90.97	90.62	90.56	90.56	90.51	90.52	
4	90.60	90.55	90.54	90.58	90.82	90.71	90.92	90.62	90.56	90.55	90.51	90.52	
5	90.60	90.54	90.54	90.58	90.82	90.67	90.85	90.83	90.56	90.55	90.51	90.50	
6	90.60	90.54	90.54	90.58	90.71	90.64	90.82	90.72	90.57	90.55	90.51	90.50	
7	90.59	90.54	90.56	90.58	90.66	90.64	90.82	90.67	90.57	90.54	90.51	90.50	
8	90.59	90.54	90.56	90.58	90.66	90.64	90.77	90.66	90.57	90.54	90.51	90.50	
9	90.59	90.55	90.58	90.58	90.66	90.64	90.75	90.65	90.57	90.55	90.51	90.50	
10	90.59	90.55	90.58	90.58	90.66	90.64	90.72	90.64	90.57	90.55	90.51	90.50	
11	90.59	90.55	90.58	90.58	90.67	90.74	90.70	90.64	90.57	90.55	90.51	90.51	
12	90.59	90.56	90.58	90.58	90.67	90.71	90.69	90.64	90.57	90.55	90.51	90.51	
13	90.59	90.56	90.58	90.58	90.67	90.70	90.68	90.64	90.57	90.55	90.51	90.51	
14	90.58	90.56	90.52	90.58	90.70	90.70	90.67	90.63	90.57	90.54	90.51	90.50	
15	90.58	90.56	90.57	90.58	90.67	90.71	90.66	90.62	90.57	90.54	90.51	90.50	
16	90.58	90.56	90.57	90.65	90.67	90.70	90.65	90.62	90.57	90.54	90.51	90.50	
17	90.58	90.56	90.56	90.64	90.65	90.68	90.65	90.62	90.57	90.53	90.51	90.50	
18	90.57	90.56	90.57	90.64	90.64	90.69	90.65	90.62	90.56	90.53	90.51	90.50	
19	90.57	90.56	90.58	90.63	90.64	90.70	90.65	90.60	90.56	90.53	90.51	90.50	
20	90.57	90.56	90.58	90.63	90.64	90.69	90.65	90.60	90.56	90.53	90.51	90.50	
21	90.56	90.55	90.58	90.62	90.64	90.67	90.64	90.60	90.56	90.52	90.51	90.50	
22	90.56	90.55	90.58	90.62	90.63	90.66	90.64	90.59	90.56	90.52	90.52	90.50	
23	90.56	90.55	90.58	90.62	90.62	90.65	90.64	90.59	90.56	90.52	90.52	90.50	
24	90.56	90.55	90.58	90.62	90.62	90.65	90.64	90.59	90.56	90.52	90.52	90.50	
25	90.56	90.55	90.58	90.62	90.61	90.65	90.64	90.58	90.56	90.52	90.51	90.50	
26	90.55	90.55	90.60	90.62	90.60	90.65	90.63	90.58	90.56	90.51	90.51	90.50	
27	90.55	90.55	90.60	90.64	90.60	90.66	90.63	90.57	90.56	90.51	90.51	90.50	
28	90.55	90.55	90.58	90.66	90.64	90.70	90.63	90.57	90.56	90.51	90.51	90.50	
29	90.55	90.55	90.58	90.66	90.64	90.83	90.63	90.57	90.56	90.51		90.50	
30	90.55	90.53	90.58	90.65	90.64	90.90	90.63	90.56	90.56	90.51		90.50	
31		90.53		90.65	90.64		90.63		90.56	90.51		90.50	
Mean	90.58	90.55	90.57	90.61	90.66	90.69	90.72	90.62	90.56	90.53	90.51	90.50	
Max	90.60	90.56	90.60	90.66	90.82	90.90	91.01	90.83	90.57	90.56	90.52	90.52	91.01
Min	90.55	90.53	90.52	90.58	90.60	90.64	90.63	90.56	90.56	90.51	90.51	90.50	90.50

Annual Max Momentary Gage Height	91.02	m. (MSL.) ,	at 06.00 Hours , on Oct 1 , 2014		
Zero Gage at Bottom Elevation	90.02	m. (MSL.) ,	River Bed	90.27	m. (MSL.)
Left Bank Elevation	95.29	m. (MSL.) ,			
Right Bank Elevation	95.40	m. (MSL.) ,	Drainage Area	122	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.15	0.09	0.24	0.80	0.70	4.73	0.50	0.18	0.18	0.03	0.06		
2	0.30	0.15	0.06	0.24	0.80	0.70	4.60	0.50	0.18	0.18	0.03	0.06		
3	0.30	0.15	0.06	0.24	1.00	1.70	4.24	0.50	0.18	0.18	0.03	0.06		
4	0.30	0.15	0.12	0.24	2.52	1.40	3.64	0.50	0.18	0.15	0.03	0.06		
5	0.30	0.12	0.12	0.24	2.52	1.00	2.85	2.63	0.18	0.15	0.03	0.00		
6	0.30	0.12	0.12	0.24	1.40	0.70	2.52	1.50	0.21	0.15	0.03	0.00		
7	0.27	0.12	0.18	0.24	0.90	0.70	2.52	1.00	0.21	0.12	0.03	0.00		
8	0.27	0.12	0.18	0.24	0.90	0.70	2.00	0.90	0.21	0.12	0.03	0.00		
9	0.27	0.15	0.24	0.24	0.90	0.70	1.80	0.80	0.21	0.15	0.03	0.00		
10	0.27	0.15	0.24	0.24	0.90	0.70	1.50	0.70	0.21	0.15	0.03	0.00		
11	0.27	0.15	0.24	0.24	1.00	1.70	1.30	0.70	0.21	0.15	0.03	0.03		
12	0.27	0.18	0.24	0.24	1.00	1.40	1.20	0.70	0.21	0.15	0.03	0.03		
13	0.27	0.18	0.24	0.24	1.00	1.30	1.10	0.70	0.21	0.15	0.03	0.03		
14	0.24	0.18	0.06	0.24	1.30	1.30	1.00	0.60	0.21	0.12	0.03	0.00		
15	0.24	0.18	0.21	0.24	1.00	1.40	0.90	0.50	0.21	0.12	0.03	0.00		
16	0.24	0.18	0.21	0.80	1.00	1.30	0.80	0.50	0.21	0.12	0.03	0.00		
17	0.24	0.18	0.18	0.70	0.80	1.10	0.80	0.50	0.21	0.09	0.03	0.00		
18	0.21	0.18	0.21	0.70	0.70	1.20	0.80	0.50	0.18	0.09	0.03	0.00		
19	0.21	0.18	0.24	0.60	0.70	1.30	0.80	0.30	0.18	0.09	0.03	0.00		
20	0.21	0.18	0.24	0.60	0.70	1.20	0.80	0.30	0.18	0.09	0.03	0.00		
21	0.18	0.15	0.24	0.50	0.70	1.00	0.70	0.30	0.18	0.06	0.03	0.00		
22	0.18	0.15	0.24	0.50	0.60	0.90	0.70	0.27	0.18	0.06	0.06	0.00		
23	0.18	0.15	0.24	0.50	0.50	0.80	0.70	0.27	0.18	0.06	0.06	0.00		
24	0.18	0.15	0.24	0.50	0.50	0.80	0.70	0.27	0.18	0.06	0.06	0.00		
25	0.18	0.15	0.24	0.50	0.40	0.80	0.70	0.24	0.18	0.06	0.03	0.00		
26	0.15	0.15	0.30	0.50	0.30	0.80	0.60	0.24	0.18	0.03	0.03	0.00		
27	0.15	0.15	0.30	0.70	0.30	0.90	0.60	0.21	0.18	0.03	0.03	0.00		
28	0.15	0.15	0.24	0.90	0.70	1.30	0.60	0.21	0.18	0.03	0.03	0.00		
29	0.15	0.15	0.24	0.90	0.70	2.63	0.60	0.21	0.18	0.03		0.00		
30	0.15	0.09	0.24	0.80	0.70	3.40	0.60	0.18	0.18	0.03		0.00		
31		0.09		0.80	0.70		0.60		0.18	0.03		0.00		
Total	6.93	4.68	6.00	14.10	27.94	35.53	47.00	17.23	5.94	3.18	0.93	0.33	169.79	CMSDAY
Mean	0.23	0.15	0.20	0.45	0.90	1.18	1.52	0.57	0.19	0.10	0.03	0.01	0.47	CMS
Max	0.30	0.18	0.30	0.90	2.52	3.40	4.73	2.63	0.21	0.18	0.06	0.06	4.73	CMS
Min	0.15	0.09	0.06	0.24	0.30	0.70	0.60	0.18	0.18	0.03	0.03	0.00	0.00	CMS
Runoff	0.60	0.40	0.52	1.22	2.41	3.07	4.06	1.49	0.51	0.28	0.08	0.03	14.67	MCM

Momentary Peak 4.86 CMS. at 91.02 m. (MSL.) at 06.00 Hours , on Oct 1 , 2014

Runoff Yield 3.81 Liters/Second/Square KM. Momentary Peak Yield 39.729 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

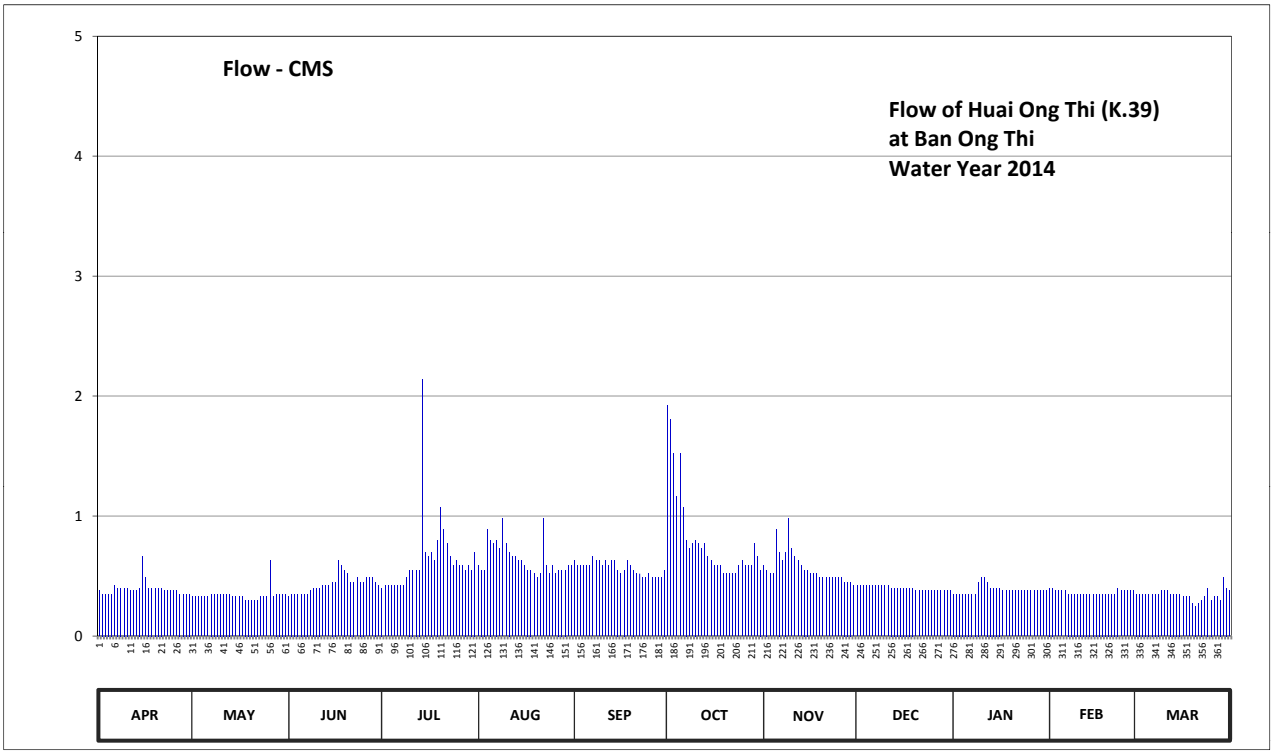
Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	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 Flot	-		
Rated by Current Meter	1985 - 1990 , 1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.07	82.05	82.05	82.08	82.14	82.15	82.32	82.14	82.09	82.06	82.08	82.06	
2	82.06	82.05	82.06	82.09	82.13	82.14	82.31	82.13	82.09	82.06	82.08	82.06	
3	82.06	82.05	82.06	82.09	82.13	82.14	82.28	82.12	82.09	82.06	82.07	82.06	
4	82.06	82.05	82.06	82.09	82.21	82.14	82.24	82.12	82.09	82.06	82.07	82.06	
5	82.06	82.05	82.06	82.09	82.20	82.14	82.28	82.21	82.09	82.06	82.07	82.06	
6	82.09	82.05	82.06	82.09	82.19	82.14	82.23	82.17	82.09	82.06	82.07	82.06	
7	82.08	82.06	82.06	82.09	82.20	82.16	82.20	82.15	82.09	82.06	82.06	82.06	
8	82.08	82.06	82.07	82.09	82.18	82.15	82.18	82.17	82.09	82.06	82.06	82.06	
9	82.08	82.06	82.08	82.11	82.22	82.15	82.19	82.22	82.09	82.10	82.06	82.07	
10	82.08	82.06	82.08	82.13	82.19	82.14	82.20	82.18	82.09	82.11	82.06	82.07	
11	82.07	82.06	82.08	82.13	82.17	82.15	82.19	82.16	82.09	82.11	82.06	82.07	
12	82.07	82.06	82.09	82.13	82.16	82.14	82.18	82.15	82.08	82.10	82.06	82.06	
13	82.07	82.06	82.09	82.13	82.16	82.15	82.19	82.14	82.08	82.08	82.06	82.06	
14	82.08	82.05	82.09	82.34	82.15	82.15	82.16	82.13	82.08	82.08	82.06	82.06	
15	82.16	82.05	82.10	82.17	82.15	82.13	82.15	82.13	82.08	82.08	82.06	82.06	
16	82.11	82.05	82.10	82.16	82.14	82.12	82.14	82.12	82.08	82.08	82.06	82.05	
17	82.08	82.05	82.15	82.17	82.13	82.13	82.14	82.12	82.08	82.07	82.06	82.05	
18	82.08	82.04	82.14	82.15	82.13	82.15	82.14	82.12	82.08	82.07	82.06	82.05	
19	82.08	82.04	82.13	82.20	82.12	82.14	82.12	82.11	82.08	82.07	82.06	82.03	
20	82.08	82.04	82.12	82.23	82.11	82.13	82.12	82.11	82.07	82.07	82.06	82.02	
21	82.08	82.04	82.10	82.21	82.12	82.12	82.12	82.11	82.07	82.07	82.06	82.03	
22	82.07	82.04	82.10	82.19	82.22	82.12	82.12	82.11	82.07	82.07	82.06	82.04	
23	82.07	82.05	82.11	82.16	82.14	82.11	82.12	82.11	82.07	82.07	82.08	82.05	
24	82.07	82.05	82.10	82.14	82.12	82.11	82.14	82.11	82.07	82.07	82.07	82.08	
25	82.07	82.05	82.10	82.15	82.14	82.12	82.15	82.11	82.07	82.07	82.07	82.04	
26	82.07	82.15	82.11	82.14	82.12	82.11	82.14	82.11	82.07	82.07	82.07	82.05	
27	82.06	82.05	82.11	82.14	82.13	82.11	82.14	82.10	82.07	82.07	82.07	82.05	
28	82.06	82.06	82.11	82.13	82.13	82.11	82.14	82.10	82.07	82.07	82.07	82.04	
29	82.06	82.06	82.10	82.14	82.13	82.11	82.19	82.10	82.07	82.07		82.11	
30	82.06	82.06	82.09	82.13	82.14	82.13	82.16	82.09	82.07	82.07		82.08	
31		82.06		82.17	82.14		82.13		82.07	82.07		82.07	
Mean	82.08	82.06	82.09	82.14	82.15	82.13	82.18	82.13	82.08	82.07	82.07	82.06	
Max	82.16	82.15	82.15	82.34	82.22	82.16	82.32	82.22	82.09	82.11	82.08	82.11	82.34
Min	82.06	82.04	82.05	82.08	82.11	82.11	82.12	82.09	82.07	82.06	82.06	82.02	82.02

Annual Max Momentary Gage Height	82.53	m. (MSL.) ,	at 16.00 Hours , on Jul 14 , 2014		
Zero Gage at Bottom Elevation	81.78	m. (MSL.) ,	River Bed	81.57	m. (MSL.)
Left Bank Elevation	89.17	m. (MSL.) ,			
Right Bank Elevation	88.90	m. (MSL.) ,	Drainage Area	51	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	0.33	0.33	0.40	0.59	0.63	1.92	0.59	0.42	0.35	0.40	0.35		
2	0.35	0.33	0.35	0.42	0.55	0.59	1.81	0.55	0.42	0.35	0.40	0.35		
3	0.35	0.33	0.35	0.42	0.55	0.59	1.52	0.52	0.42	0.35	0.38	0.35		
4	0.35	0.33	0.35	0.42	0.89	0.59	1.16	0.52	0.42	0.35	0.38	0.35		
5	0.35	0.33	0.35	0.42	0.80	0.59	1.52	0.89	0.42	0.35	0.38	0.35		
6	0.42	0.33	0.35	0.42	0.77	0.59	1.07	0.70	0.42	0.35	0.38	0.35		
7	0.40	0.35	0.35	0.42	0.80	0.66	0.80	0.63	0.42	0.35	0.35	0.35		
8	0.40	0.35	0.38	0.42	0.73	0.63	0.73	0.70	0.42	0.35	0.35	0.35		
9	0.40	0.35	0.40	0.49	0.98	0.63	0.77	0.98	0.42	0.45	0.35	0.38		
10	0.40	0.35	0.40	0.55	0.77	0.59	0.80	0.73	0.42	0.49	0.35	0.38		
11	0.38	0.35	0.40	0.55	0.70	0.63	0.77	0.66	0.42	0.49	0.35	0.38		
12	0.38	0.35	0.42	0.55	0.66	0.59	0.73	0.63	0.40	0.45	0.35	0.35		
13	0.38	0.35	0.42	0.55	0.66	0.63	0.77	0.59	0.40	0.40	0.35	0.35		
14	0.40	0.33	0.42	2.14	0.63	0.63	0.66	0.55	0.40	0.40	0.35	0.35		
15	0.66	0.33	0.45	0.70	0.63	0.55	0.63	0.55	0.40	0.40	0.35	0.35		
16	0.49	0.33	0.45	0.66	0.59	0.52	0.59	0.52	0.40	0.40	0.35	0.33		
17	0.40	0.33	0.63	0.70	0.55	0.55	0.59	0.52	0.40	0.38	0.35	0.33		
18	0.40	0.30	0.59	0.63	0.55	0.63	0.59	0.52	0.40	0.38	0.35	0.33		
19	0.40	0.30	0.55	0.80	0.52	0.59	0.52	0.49	0.40	0.38	0.35	0.27		
20	0.40	0.30	0.52	1.07	0.49	0.55	0.52	0.49	0.38	0.38	0.35	0.25		
21	0.40	0.30	0.45	0.89	0.52	0.52	0.52	0.49	0.38	0.38	0.35	0.27		
22	0.38	0.30	0.45	0.77	0.98	0.52	0.52	0.49	0.38	0.38	0.35	0.30		
23	0.38	0.33	0.49	0.66	0.59	0.49	0.52	0.49	0.38	0.38	0.40	0.33		
24	0.38	0.33	0.45	0.59	0.52	0.49	0.59	0.49	0.38	0.38	0.38	0.40		
25	0.38	0.33	0.45	0.63	0.59	0.52	0.63	0.49	0.38	0.38	0.38	0.30		
26	0.38	0.63	0.49	0.59	0.52	0.49	0.59	0.49	0.38	0.38	0.38	0.33		
27	0.35	0.33	0.49	0.59	0.55	0.49	0.59	0.45	0.38	0.38	0.38	0.33		
28	0.35	0.35	0.49	0.55	0.55	0.49	0.59	0.45	0.38	0.38	0.38	0.30		
29	0.35	0.35	0.45	0.59	0.55	0.49	0.77	0.45	0.38	0.38		0.49		
30	0.35	0.35	0.42	0.55	0.59	0.55	0.66	0.42	0.38	0.38		0.40		
31		0.35		0.70	0.59		0.55		0.38	0.38		0.38		
Total	11.79	10.60	13.09	19.84	19.96	17.01	25.00	17.04	12.38	11.98	10.22	10.68	179.59	CMSDAY
Mean	0.39	0.34	0.44	0.64	0.64	0.57	0.81	0.57	0.40	0.39	0.36	0.34	0.49	CMS
Max	0.66	0.63	0.63	2.14	0.98	0.66	1.92	0.98	0.42	0.49	0.40	0.49	2.14	CMS
Min	0.35	0.30	0.33	0.40	0.49	0.49	0.52	0.42	0.38	0.35	0.35	0.25	0.25	CMS
Runoff	1.02	0.92	1.13	1.71	1.73	1.47	2.16	1.47	1.07	1.04	0.88	0.92	15.52	MCM

Momentary Peak 4.42 CMS. at 82.53 m. (MSL.) at 16.00 Hours , on Jul 14 , 2014

Runoff Yield 9.65 Liters/Second/Square KM. Momentary Peak Yield 86.497 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

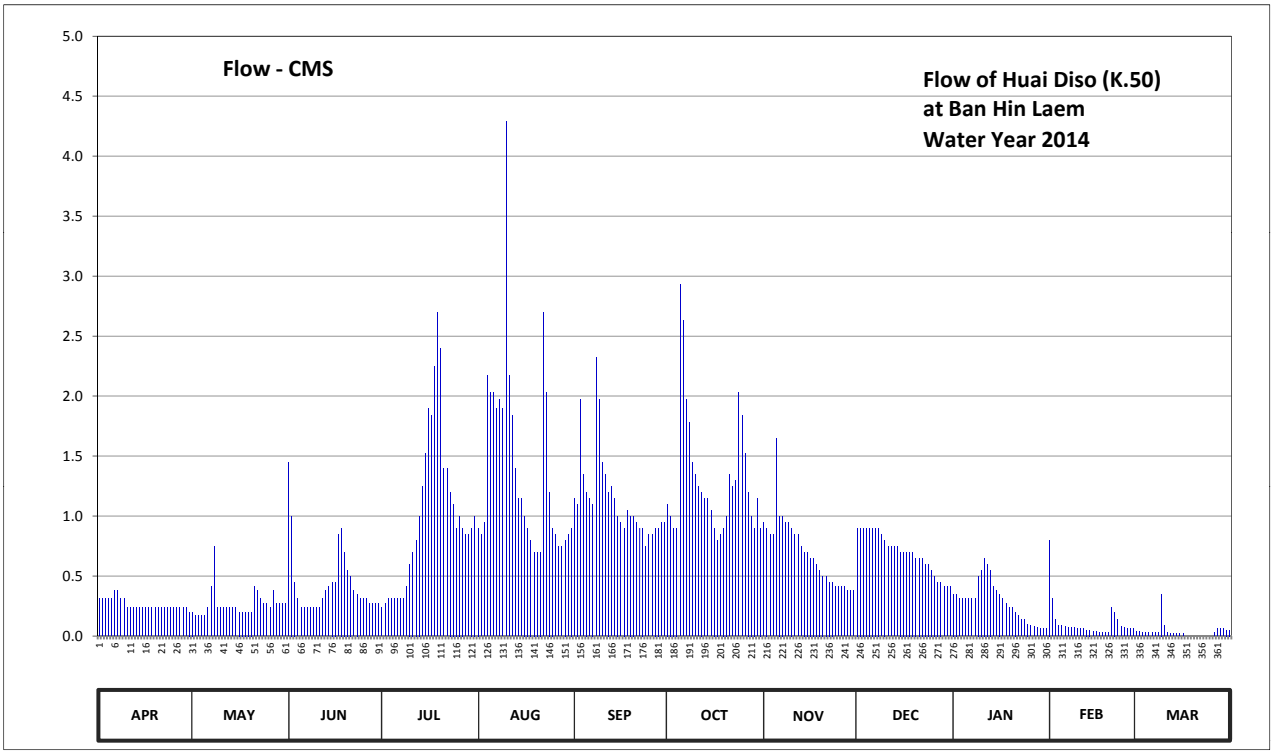
Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	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 Flot	-		
Rated by Current Meter	1987, 1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.46	80.43	80.70	80.44	80.59	80.64	80.63	80.60	80.59	80.47	80.57	80.34	
2	80.46	80.42	80.61	80.45	80.58	80.63	80.61	80.59	80.59	80.47	80.46	80.34	
3	80.46	80.42	80.50	80.46	80.60	80.78	80.59	80.58	80.59	80.46	80.41	80.33	
4	80.46	80.42	80.46	80.46	80.81	80.68	80.59	80.58	80.59	80.46	80.39	80.33	
5	80.46	80.42	80.44	80.46	80.79	80.65	80.91	80.73	80.59	80.46	80.39	80.33	
6	80.48	80.44	80.44	80.46	80.79	80.64	80.87	80.61	80.59	80.46	80.38	80.33	
7	80.48	80.49	80.44	80.46	80.77	80.63	80.78	80.61	80.59	80.46	80.37	80.33	
8	80.46	80.56	80.44	80.46	80.78	80.83	80.75	80.60	80.59	80.46	80.37	80.33	
9	80.46	80.44	80.44	80.49	80.77	80.78	80.70	80.60	80.58	80.51	80.37	80.47	
10	80.44	80.44	80.44	80.53	81.08	80.70	80.68	80.59	80.57	80.52	80.36	80.39	
11	80.44	80.44	80.44	80.55	80.81	80.68	80.66	80.58	80.56	80.54	80.36	80.33	
12	80.44	80.44	80.46	80.57	80.76	80.65	80.65	80.58	80.56	80.53	80.36	80.32	
13	80.44	80.44	80.48	80.61	80.69	80.66	80.64	80.56	80.56	80.52	80.35	80.32	
14	80.44	80.44	80.49	80.66	80.64	80.64	80.64	80.55	80.56	80.49	80.35	80.32	
15	80.44	80.44	80.50	80.71	80.64	80.61	80.62	80.55	80.55	80.48	80.34	80.32	
16	80.44	80.43	80.50	80.77	80.61	80.60	80.59	80.54	80.55	80.47	80.34	80.32	
17	80.44	80.43	80.58	80.76	80.59	80.59	80.57	80.54	80.55	80.46	80.33	80.30	
18	80.44	80.43	80.59	80.82	80.57	80.62	80.58	80.53	80.55	80.45	80.33	80.30	
19	80.44	80.43	80.55	80.88	80.55	80.61	80.59	80.52	80.55	80.44	80.33	80.29	
20	80.44	80.43	80.52	80.84	80.55	80.61	80.61	80.51	80.54	80.44	80.33	80.29	
21	80.44	80.49	80.51	80.69	80.55	80.60	80.68	80.51	80.54	80.43	80.44	80.29	
22	80.44	80.48	80.48	80.69	80.88	80.59	80.66	80.50	80.54	80.42	80.43	80.29	
23	80.44	80.46	80.47	80.65	80.79	80.59	80.67	80.50	80.53	80.41	80.41	80.29	
24	80.44	80.45	80.46	80.63	80.65	80.56	80.79	80.49	80.53	80.41	80.38	80.29	
25	80.44	80.45	80.46	80.59	80.59	80.58	80.76	80.49	80.52	80.40	80.37	80.30	
26	80.44	80.44	80.46	80.61	80.58	80.58	80.71	80.49	80.51	80.39	80.36	80.33	
27	80.44	80.48	80.45	80.59	80.56	80.59	80.65	80.49	80.50	80.38	80.36	80.36	
28	80.44	80.45	80.45	80.58	80.56	80.59	80.61	80.48	80.50	80.37	80.36	80.36	
29	80.44	80.45	80.45	80.58	80.57	80.60	80.59	80.48	80.49	80.36		80.36	
30	80.43	80.45	80.45	80.59	80.58	80.60	80.64	80.48	80.49	80.36		80.35	
31		80.45		80.61	80.59		80.59		80.49	80.36		80.35	
Mean	80.45	80.45	80.49	80.60	80.67	80.64	80.66	80.55	80.55	80.45	80.38	80.33	
Max	80.48	80.56	80.70	80.88	81.08	80.83	80.91	80.73	80.59	80.54	80.57	80.47	81.08
Min	80.43	80.42	80.44	80.44	80.55	80.56	80.57	80.48	80.49	80.36	80.33	80.29	80.29

Annual Max Momentary Gage Height	81.26	m. (MSL.) ,	at 06.00 Hours , on Aug 10 , 2014		
Zero Gage at Bottom Elevation	79.81	m. (MSL.) ,	River Bed	79.81	m. (MSL.)
Left Bank Elevation	84.85	m. (MSL.) ,			
Right Bank Elevation	84.87	m. (MSL.) ,	Drainage Area	123	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.31	0.20	1.45	0.24	0.90	1.15	1.10	0.95	0.90	0.35	0.80	0.04		
2	0.31	0.17	1.00	0.27	0.85	1.10	1.00	0.90	0.90	0.35	0.31	0.04		
3	0.31	0.17	0.45	0.31	0.95	1.97	0.90	0.85	0.90	0.31	0.14	0.03		
4	0.31	0.17	0.31	0.31	2.17	1.35	0.90	0.85	0.90	0.31	0.09	0.03		
5	0.31	0.17	0.24	0.31	2.03	1.20	2.93	1.65	0.90	0.31	0.09	0.03		
6	0.38	0.24	0.24	0.31	2.03	1.15	2.63	1.00	0.90	0.31	0.08	0.03		
7	0.38	0.41	0.24	0.31	1.90	1.10	1.97	1.00	0.90	0.31	0.07	0.03		
8	0.31	0.75	0.24	0.31	1.97	2.32	1.78	0.95	0.90	0.31	0.07	0.03		
9	0.31	0.24	0.24	0.41	1.90	1.97	1.45	0.95	0.85	0.50	0.07	0.35		
10	0.24	0.24	0.24	0.60	4.29	1.45	1.35	0.90	0.80	0.55	0.06	0.09		
11	0.24	0.24	0.24	0.70	2.17	1.35	1.25	0.85	0.75	0.65	0.06	0.03		
12	0.24	0.24	0.31	0.80	1.84	1.20	1.20	0.85	0.75	0.60	0.06	0.02		
13	0.24	0.24	0.38	1.00	1.40	1.25	1.15	0.75	0.75	0.55	0.05	0.02		
14	0.24	0.24	0.41	1.25	1.15	1.15	1.15	0.70	0.75	0.41	0.05	0.02		
15	0.24	0.24	0.45	1.52	1.15	1.00	1.05	0.70	0.70	0.38	0.04	0.02		
16	0.24	0.20	0.45	1.90	1.00	0.95	0.90	0.65	0.70	0.35	0.04	0.02		
17	0.24	0.20	0.85	1.84	0.90	0.90	0.80	0.65	0.70	0.31	0.03	0.00		
18	0.24	0.20	0.90	2.25	0.80	1.05	0.85	0.60	0.70	0.27	0.03	0.00		
19	0.24	0.20	0.70	2.70	0.70	1.00	0.90	0.55	0.70	0.24	0.03	0.00		
20	0.24	0.20	0.55	2.40	0.70	1.00	1.00	0.50	0.65	0.24	0.03	0.00		
21	0.24	0.41	0.50	1.40	0.70	0.95	1.35	0.50	0.65	0.20	0.24	0.00		
22	0.24	0.38	0.38	1.40	2.70	0.90	1.25	0.45	0.65	0.17	0.20	0.00		
23	0.24	0.31	0.35	1.20	2.03	0.90	1.30	0.45	0.60	0.14	0.14	0.00		
24	0.24	0.27	0.31	1.10	1.20	0.75	2.03	0.41	0.60	0.14	0.08	0.00		
25	0.24	0.27	0.31	0.90	0.90	0.85	1.84	0.41	0.55	0.10	0.07	0.00		
26	0.24	0.24	0.31	1.00	0.85	0.85	1.52	0.41	0.50	0.09	0.06	0.03		
27	0.24	0.38	0.27	0.90	0.75	0.90	1.20	0.41	0.45	0.08	0.06	0.06		
28	0.24	0.27	0.27	0.85	0.75	0.90	1.00	0.38	0.45	0.07	0.06	0.06		
29	0.24	0.27	0.27	0.85	0.80	0.95	0.90	0.38	0.41	0.06		0.06		
30	0.20	0.27	0.27	0.90	0.85	0.95	1.15	0.38	0.41	0.06		0.05		
31		0.27		1.00	0.90		0.90		0.41	0.06		0.05		
Total	7.93	8.30	13.13	31.24	43.23	34.51	40.70	20.98	21.68	8.78	3.11	1.14	234.73	CMSDAY
Mean	0.26	0.27	0.44	1.01	1.39	1.15	1.31	0.70	0.70	0.28	0.11	0.04	0.64	CMS
Max	0.38	0.75	1.45	2.70	4.29	2.32	2.93	1.65	0.90	0.65	0.80	0.35	4.29	CMS
Min	0.20	0.17	0.24	0.24	0.70	0.75	0.80	0.38	0.41	0.06	0.03	0.00	0.00	CMS
Runoff	0.69	0.72	1.13	2.70	3.74	2.98	3.52	1.81	1.87	0.76	0.27	0.10	20.28	MCM

Momentary Peak 5.97 CMS. at 81.26 m. (MSL.) at 06.00 Hours , on Aug 10 , 2014

Runoff Yield 5.23 Liters/Second/Square KM. Momentary Peak Yield 48.537 Liters/Second/Square KM.

WATER YEAR : 2014

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

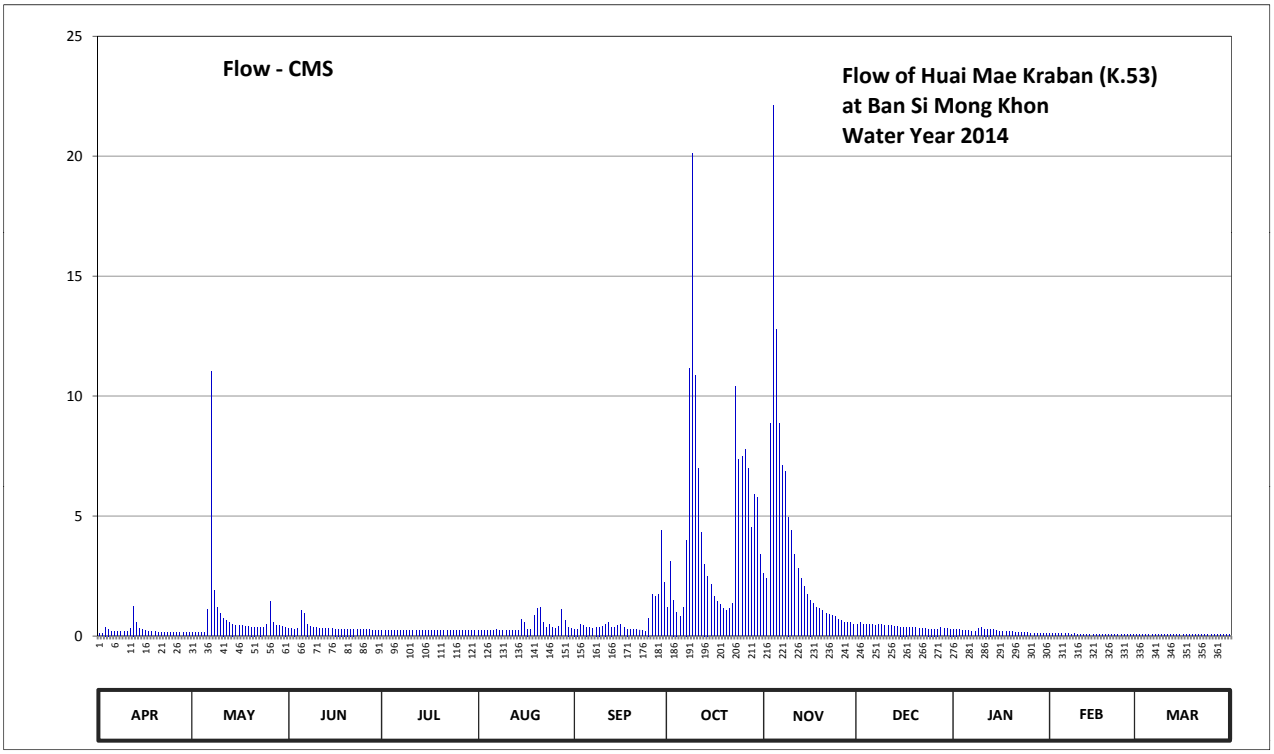
Location : on right bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	1992 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.96	35.97	36.04	36.01	36.01	36.03	36.24	36.43	36.09	36.03	35.95	35.94	
2	35.96	35.97	36.04	36.01	36.01	36.03	36.48	36.41	36.11	36.03	35.95	35.94	
3	36.06	35.97	36.03	36.01	36.01	36.09	36.30	36.97	36.10	36.02	35.95	35.94	
4	36.03	35.97	36.04	36.01	36.01	36.08	36.20	37.74	36.09	36.01	35.95	35.94	
5	36.00	35.97	36.21	36.01	36.01	36.06	36.16	37.23	36.09	36.01	35.95	35.94	
6	36.00	36.22	36.19	36.01	36.01	36.05	36.24	36.97	36.09	36.01	35.95	35.94	
7	36.00	37.12	36.10	36.01	36.02	36.04	36.57	36.84	36.08	36.00	35.95	35.94	
8	35.99	36.35	36.07	36.01	36.01	36.06	37.13	36.82	36.09	35.99	35.94	35.94	
9	36.00	36.24	36.05	36.01	36.01	36.06	37.64	36.66	36.09	36.04	35.95	35.94	
10	36.00	36.19	36.05	36.01	36.01	36.07	37.11	36.61	36.08	36.05	35.94	35.94	
11	36.04	36.15	36.04	36.01	36.01	36.10	36.83	36.51	36.08	36.03	35.94	35.94	
12	36.25	36.13	36.04	36.01	36.01	36.11	36.60	36.45	36.08	36.03	35.94	35.94	
13	36.11	36.11	36.04	36.01	36.01	36.06	36.47	36.41	36.07	36.03	35.94	35.94	
14	36.04	36.10	36.04	36.01	36.01	36.05	36.42	36.37	36.07	36.02	35.94	35.94	
15	36.02	36.08	36.04	36.01	36.14	36.08	36.38	36.33	36.06	36.01	35.94	35.94	
16	36.01	36.08	36.03	36.01	36.11	36.09	36.32	36.30	36.06	36.00	35.94	35.94	
17	36.00	36.08	36.03	36.01	36.03	36.05	36.29	36.27	36.06	36.00	35.94	35.94	
18	36.00	36.07	36.03	36.01	36.02	36.03	36.26	36.24	36.05	35.99	35.94	35.94	
19	35.99	36.07	36.03	36.01	36.17	36.02	36.23	36.23	36.05	35.99	35.94	35.94	
20	35.98	36.06	36.03	36.01	36.23	36.02	36.21	36.21	36.05	35.99	35.94	35.94	
21	35.98	36.06	36.03	36.01	36.24	36.02	36.23	36.19	36.04	35.98	35.94	35.93	
22	35.98	36.05	36.03	36.01	36.11	36.02	36.27	36.18	36.04	35.98	35.94	35.94	
23	35.98	36.06	36.02	36.01	36.05	36.01	37.08	36.17	36.04	35.98	35.94	35.94	
24	35.98	36.05	36.02	36.01	36.09	36.00	36.86	36.16	36.03	35.98	35.94	35.94	
25	35.98	36.09	36.02	36.01	36.06	36.15	36.87	36.14	36.03	35.98	35.94	35.94	
26	35.98	36.29	36.02	36.01	36.04	36.33	36.89	36.13	36.03	35.96	35.94	35.94	
27	35.98	36.11	36.02	36.01	36.07	36.32	36.83	36.11	36.03	35.96	35.94	35.93	
28	35.97	36.08	36.01	36.01	36.22	36.33	36.62	36.11	36.05	35.96	35.94	35.93	
29	35.97	36.08	36.01	36.01	36.13	36.61	36.74	36.11	36.04	35.96		35.93	
30	35.97	36.07	36.01	36.01	36.06	36.39	36.73	36.09	36.04	35.95		35.93	
31		36.06		36.01	36.04		36.51		36.03	35.95		35.93	
Mean	36.01	36.13	36.05	36.01	36.06	36.11	36.57	36.45	36.06	36.00	35.94	35.94	
Max	36.25	37.12	36.21	36.01	36.24	36.61	37.64	37.74	36.11	36.05	35.95	35.94	37.74
Min	35.96	35.97	36.01	36.01	36.01	36.00	36.16	36.09	36.03	35.95	35.94	35.93	35.93

Annual Max Momentary Gage Height	39.83	m. (MSL.) ,	at 02.00 Hours , on May 7 , 2014		
Zero Gage at Bottom Elevation	34.63	m. (MSL.) ,	River Bed	35.85	m. (MSL.)
Left Bank Elevation	40.14	m. (MSL.) ,			
Right Bank Elevation	40.02	m. (MSL.) ,	Drainage Area	308	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	0.14	0.32	0.23	0.23	0.29	1.20	2.60	0.47	0.29	0.10	0.08		
2	0.12	0.14	0.32	0.23	0.23	0.29	3.10	2.40	0.55	0.29	0.10	0.08		
3	0.38	0.14	0.29	0.23	0.23	0.47	1.50	8.88	0.50	0.26	0.10	0.08		
4	0.29	0.14	0.32	0.23	0.23	0.44	1.00	22.10	0.47	0.23	0.10	0.08		
5	0.20	0.14	1.05	0.23	0.23	0.38	0.80	12.78	0.47	0.23	0.10	0.08		
6	0.20	1.10	0.95	0.23	0.23	0.35	1.20	8.88	0.47	0.23	0.10	0.08		
7	0.20	11.02	0.50	0.23	0.26	0.32	4.00	7.12	0.44	0.20	0.10	0.08		
8	0.18	1.90	0.41	0.23	0.23	0.38	11.18	6.86	0.47	0.18	0.08	0.08		
9	0.20	1.20	0.35	0.23	0.23	0.38	20.10	4.96	0.47	0.32	0.10	0.08		
10	0.20	0.95	0.35	0.23	0.23	0.41	10.86	4.41	0.44	0.35	0.08	0.08		
11	0.32	0.75	0.32	0.23	0.23	0.50	6.99	3.40	0.44	0.29	0.08	0.08		
12	1.25	0.65	0.32	0.23	0.23	0.55	4.30	2.80	0.44	0.29	0.08	0.08		
13	0.55	0.55	0.32	0.23	0.23	0.38	3.00	2.40	0.41	0.29	0.08	0.08		
14	0.32	0.50	0.32	0.23	0.23	0.35	2.50	2.06	0.41	0.26	0.08	0.08		
15	0.26	0.44	0.32	0.23	0.70	0.44	2.14	1.74	0.38	0.23	0.08	0.08		
16	0.23	0.44	0.29	0.23	0.55	0.47	1.66	1.50	0.38	0.20	0.08	0.08		
17	0.20	0.44	0.29	0.23	0.29	0.35	1.45	1.35	0.38	0.20	0.08	0.08		
18	0.20	0.41	0.29	0.23	0.26	0.29	1.30	1.20	0.35	0.18	0.08	0.08		
19	0.18	0.41	0.29	0.23	0.85	0.26	1.15	1.15	0.35	0.18	0.08	0.08		
20	0.16	0.38	0.29	0.23	1.15	0.26	1.05	1.05	0.35	0.18	0.08	0.08		
21	0.16	0.38	0.29	0.23	1.20	0.26	1.15	0.95	0.32	0.16	0.08	0.06		
22	0.16	0.35	0.29	0.23	0.55	0.26	1.35	0.90	0.32	0.16	0.08	0.08		
23	0.16	0.38	0.26	0.23	0.35	0.23	10.42	0.85	0.32	0.16	0.08	0.08		
24	0.16	0.35	0.26	0.23	0.47	0.20	7.38	0.80	0.29	0.16	0.08	0.08		
25	0.16	0.47	0.26	0.23	0.38	0.75	7.51	0.70	0.29	0.16	0.08	0.08		
26	0.16	1.45	0.26	0.23	0.32	1.74	7.77	0.65	0.29	0.12	0.08	0.08		
27	0.16	0.55	0.26	0.23	0.41	1.66	6.99	0.55	0.29	0.12	0.08	0.06		
28	0.14	0.44	0.23	0.23	1.10	1.74	4.52	0.55	0.35	0.12	0.08	0.06		
29	0.14	0.44	0.23	0.23	0.65	4.41	5.88	0.55	0.32	0.12		0.06		
30	0.14	0.41	0.23	0.23	0.38	2.22	5.76	0.47	0.32	0.10		0.06		
31		0.38		0.23	0.32		3.40		0.29	0.10		0.06		
Total	7.30	27.44	10.48	7.13	13.18	21.03	142.61	106.61	12.04	6.36	2.40	2.36	358.94	CMSDAY
Mean	0.24	0.89	0.35	0.23	0.43	0.70	4.60	3.55	0.39	0.21	0.09	0.08	0.98	CMS
Max	1.25	11.02	1.05	0.23	1.20	4.41	20.10	22.10	0.55	0.35	0.10	0.08	22.10	CMS
Min	0.12	0.14	0.23	0.23	0.23	0.20	0.80	0.47	0.29	0.10	0.08	0.06	0.06	CMS
Runoff	0.63	2.37	0.91	0.62	1.14	1.82	12.32	9.21	1.04	0.55	0.21	0.20	31.01	MCM

Momentary Peak 110.60 CMS. at 39.83 m. (MSL.) at 02.00 Hours , on May 7 , 2014

Runoff Yield 3.19 Liters/Second/Square KM. Momentary Peak Yield 358.974 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Lin Thin , Kanchanaburi (K.54)

Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

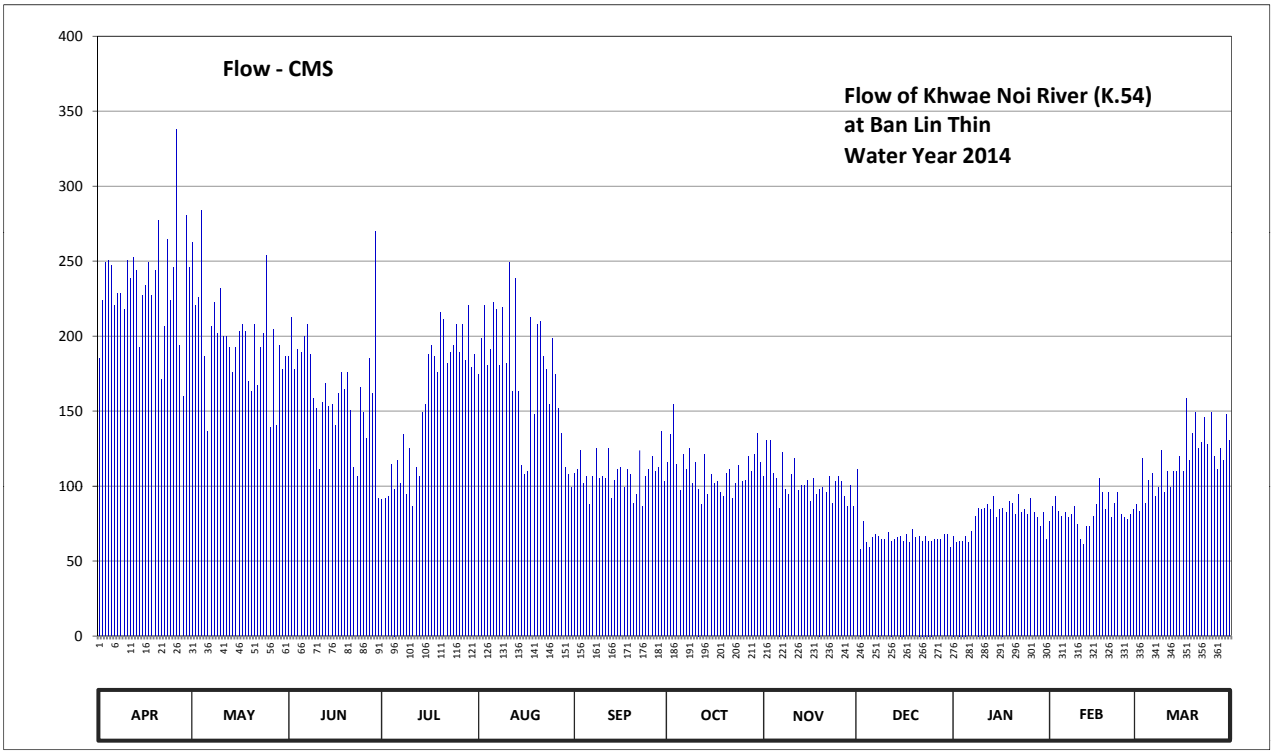
Location : on right bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Khao Laem Dam.		
	Stage-discharge relation defined by 29 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.30	63.78	63.31	62.59	63.23	62.74	62.80	62.72	62.76	62.37	62.46	62.56	
2	63.55	63.53	63.48	62.60	63.39	62.76	62.94	62.91	62.29	62.33	62.55	62.52	
3	63.70	63.56	63.25	62.61	63.53	62.86	63.09	62.91	62.46	62.34	62.61	62.82	
4	63.71	63.90	63.34	62.79	63.27	62.68	62.79	62.74	62.33	62.34	62.52	62.57	
5	63.69	63.31	63.33	62.65	63.34	62.72	62.64	62.71	62.30	62.37	62.49	62.70	
6	63.53	62.96	63.40	62.81	63.54	62.56	62.84	62.54	62.36	62.33	62.51	62.74	
7	63.58	63.44	63.45	62.68	63.51	62.72	62.76	62.85	62.38	62.40	62.48	62.61	
8	63.58	63.54	63.32	62.94	63.27	62.87	62.87	62.65	62.37	62.49	62.50	62.66	
9	63.51	63.41	63.12	62.62	63.52	62.71	62.68	62.62	62.35	62.54	62.55	62.86	
10	63.71	63.60	63.07	62.87	63.28	62.72	62.80	62.73	62.35	62.53	62.44	62.63	
11	63.64	63.40	62.76	62.55	63.70	62.71	62.65	62.82	62.39	62.54	62.35	62.75	
12	63.72	63.40	63.10	62.77	63.15	62.87	62.56	62.64	62.34	62.56	62.32	62.66	
13	63.67	63.35	63.19	62.72	63.64	62.60	62.84	62.67	62.35	62.53	62.43	62.75	
14	63.35	63.24	63.08	63.05	63.15	62.70	62.62	62.67	62.36	62.61	62.43	62.75	
15	63.57	63.35	63.09	63.09	62.78	62.76	62.73	62.70	62.37	62.48	62.49	62.83	
16	63.61	63.42	62.99	63.32	62.73	62.77	62.68	62.58	62.34	62.53	62.56	62.75	
17	63.70	63.45	63.14	63.36	62.75	62.66	62.69	62.71	62.38	62.54	62.71	63.12	
18	63.57	63.42	63.24	63.31	63.48	62.76	62.63	62.62	62.33	62.51	62.63	62.81	
19	63.67	63.20	63.16	63.24	63.04	62.73	62.61	62.65	62.41	62.58	62.53	62.95	
20	63.86	63.15	63.24	63.50	63.45	62.57	62.74	62.66	62.36	62.57	62.63	63.05	
21	63.21	63.45	63.06	63.47	63.46	62.62	62.76	62.63	62.37	62.50	62.48	62.87	
22	63.44	63.18	62.77	63.28	63.31	62.86	62.60	62.72	62.34	62.62	62.57	62.90	
23	63.79	63.35	62.72	63.33	63.25	62.55	62.68	62.57	62.37	62.51	62.63	63.03	
24	63.55	63.41	63.17	63.36	63.09	62.72	62.78	62.69	62.34	62.53	62.50	62.89	
25	63.68	63.73	63.05	63.45	63.39	62.76	62.69	62.72	62.34	62.50	62.48	63.05	
26	64.18	62.98	62.92	63.33	63.23	62.83	62.70	62.69	62.35	62.60	62.47	62.83	
27	63.36	63.43	63.30	63.45	63.07	62.75	62.83	62.61	62.35	62.51	62.50	62.76	
28	63.13	62.99	63.14	63.29	62.95	62.77	62.75	62.55	62.35	62.48	62.53	62.87	
29	63.88	63.36	63.82	63.53	62.77	62.96	62.84	62.67	62.38	62.43		62.81	
30	63.68	63.25	62.60	63.26	62.73	62.69	62.95	62.55	62.38	62.51		63.04	
31		63.31		63.32	62.66		62.80		62.30	62.35		62.91	
Mean	63.60	63.38	63.15	63.07	63.21	62.73	62.75	62.68	62.37	62.48	62.51	62.81	
Max	64.18	63.90	63.82	63.53	63.70	62.96	63.09	62.91	62.76	62.62	62.71	63.12	64.18
Min	63.13	62.96	62.60	62.55	62.66	62.55	62.56	62.54	62.29	62.33	62.32	62.52	62.29

Annual Max Momentary Gage Height	64.97	m. (MSL.) ,	at 04.00 Hours , on Apr 4 , 2014		
Zero Gage at Bottom Elevation	60.54	m. (MSL.) ,	River Bed	60.33	m. (MSL.)
Left Bank Elevation	68.52	m. (MSL.) ,			
Right Bank Elevation	74.54	m. (MSL.) ,	Drainage Area	4774	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	185.00	262.60	186.50	90.90	174.50	108.80	116.00	106.40	111.20	66.70	76.60	87.60		
2	224.00	220.80	212.80	92.00	198.50	111.20	134.20	130.30	58.00	62.30	86.50	83.20		
3	249.00	225.60	177.50	93.20	220.80	123.80	154.60	130.30	76.60	63.40	93.20	118.60		
4	250.70	284.00	191.00	114.80	180.50	101.60	114.80	108.80	62.30	63.40	83.20	88.70		
5	247.30	186.50	189.50	98.00	191.00	106.40	96.80	105.20	59.00	66.70	79.90	104.00		
6	220.80	136.80	200.00	117.30	222.40	87.60	121.20	85.40	65.60	62.30	82.10	108.80		
7	228.80	206.40	208.00	101.60	217.60	106.40	111.20	122.50	67.80	70.00	78.80	93.20		
8	228.80	222.40	188.00	134.20	180.50	125.10	125.10	98.00	66.70	79.90	81.00	99.20		
9	217.60	201.60	158.80	94.40	219.20	105.20	101.60	94.40	64.50	85.40	86.50	123.80		
10	250.70	232.00	151.80	125.10	182.00	106.40	116.00	107.60	64.50	84.30	74.40	95.60		
11	238.80	200.00	111.20	86.50	249.00	105.20	98.00	118.60	68.90	85.40	64.50	110.00		
12	252.40	200.00	156.00	112.40	163.00	125.10	87.60	96.80	63.40	87.60	61.20	99.20		
13	243.90	192.50	168.60	106.40	238.80	92.00	121.20	100.40	64.50	84.30	73.30	110.00		
14	192.50	176.00	153.20	149.00	163.00	104.00	94.40	100.40	65.60	93.20	73.30	110.00		
15	227.20	192.50	154.60	154.60	113.60	111.20	107.60	104.00	66.70	78.80	79.90	119.90		
16	233.70	203.20	140.70	188.00	107.60	112.40	101.60	89.80	63.40	84.30	87.60	110.00		
17	249.00	208.00	161.60	194.00	110.00	99.20	102.80	105.20	67.80	85.40	105.20	158.80		
18	227.20	203.20	176.00	186.50	212.80	111.20	95.60	94.40	62.30	82.10	95.60	117.30		
19	243.90	170.00	164.40	176.00	147.60	107.60	93.20	98.00	71.10	89.80	84.30	135.50		
20	276.80	163.00	176.00	216.00	208.00	88.70	108.80	99.20	65.60	88.70	95.60	149.00		
21	171.50	208.00	150.40	211.20	209.60	94.40	111.20	95.60	66.70	81.00	78.80	125.10		
22	206.40	167.20	112.40	182.00	186.50	123.80	92.00	106.40	63.40	94.40	88.70	129.00		
23	264.30	192.50	106.40	189.50	177.50	86.50	101.60	88.70	66.70	82.10	95.60	146.20		
24	224.00	201.60	165.80	194.00	154.60	106.40	113.60	102.80	63.40	84.30	81.00	127.70		
25	245.60	254.10	149.00	208.00	198.50	111.20	102.80	106.40	63.40	81.00	78.80	149.00		
26	338.00	139.40	131.60	189.50	174.50	119.90	104.00	102.80	64.50	92.00	77.70	119.90		
27	194.00	204.80	185.00	208.00	151.80	110.00	119.90	93.20	64.50	82.10	81.00	111.20		
28	160.20	140.70	161.60	183.50	135.50	112.40	110.00	86.50	64.50	78.80	84.30	125.10		
29	280.40	194.00	269.60	220.80	112.40	136.80	121.20	100.40	67.80	73.30		117.30		
30	245.60	177.50	92.00	179.00	107.60	102.80	135.50	86.50	67.80	82.10		147.60		
31		186.50		188.00	99.20		116.00		59.00	64.50		130.30		
Total	7018.10	6153.40	4950.00	4784.40	5408.10	3243.30	3430.10	3065.00	2067.20	2459.60	2308.60	3650.80	48538.61	CMSDAY
Mean	233.94	198.50	165.00	154.34	174.45	108.11	110.65	102.17	66.68	79.34	82.45	117.77	132.98	CMS
Max	338.00	284.00	269.60	220.80	249.00	136.80	154.60	130.30	111.20	94.40	105.20	158.80	338.00	CMS
Min	160.20	136.80	92.00	86.50	99.20	86.50	87.60	85.40	58.00	62.30	61.20	83.20	58.00	CMS
Runoff	606.36	531.65	427.68	413.37	467.26	280.22	296.36	264.82	178.61	212.51	199.46	315.43	4193.74	MCM

Momentary Peak 512.80 CMS. at 64.97 m. (MSL.) at 04.00 Hours , on Apr 4 , 2014

Runoff Yield 27.86 Liters/Second/Square KM. Momentary Peak Yield 107.415 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Pak Saeng , Kanchanaburi (K.58)

Lat 14 - 12 - 46 N Long 99 - 03 - 39 E

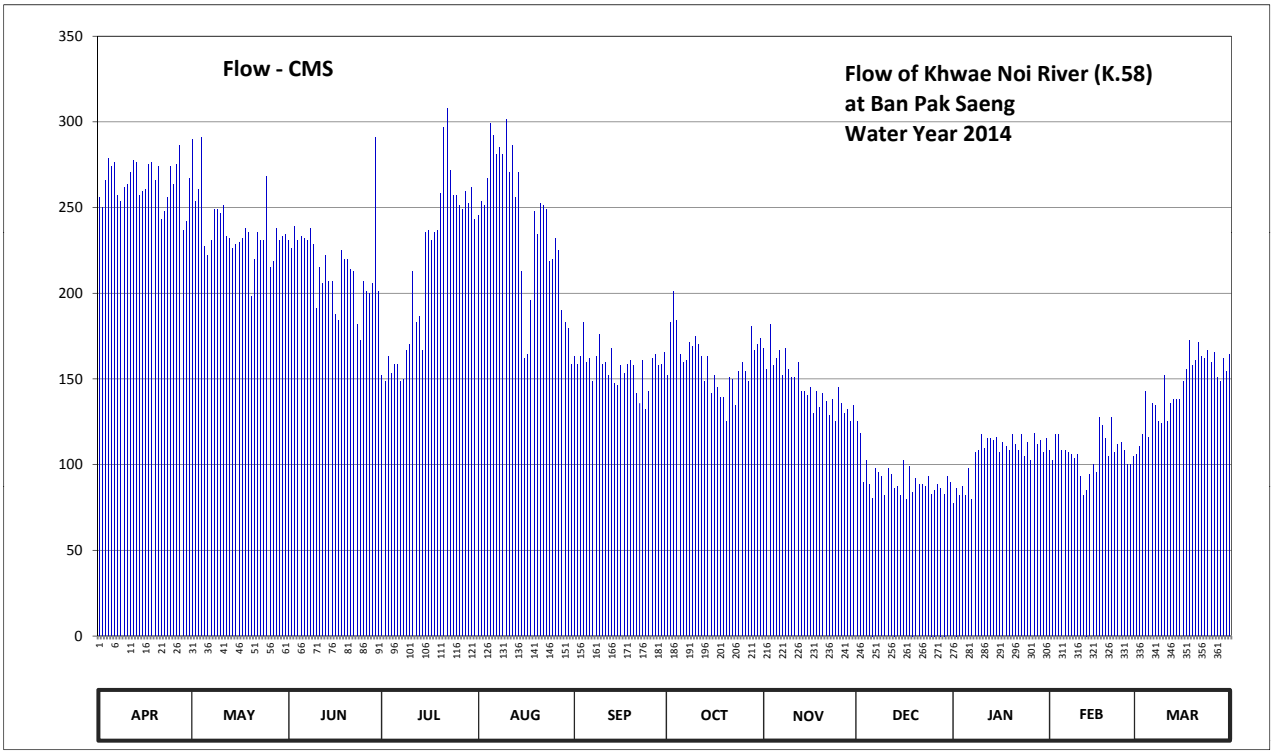
Location : on left bank at Ban Pak Saeng.

	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 mean of 5 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.65	42.93	42.44	41.76	42.56	41.86	41.76	41.90	41.53	41.11	41.38	41.36	
2	42.60	42.63	42.40	41.73	42.63	41.82	42.03	41.79	41.47	41.19	41.33	41.40	
3	42.73	42.69	42.51	41.86	42.61	41.86	42.19	42.02	41.22	41.15	41.46	41.46	
4	42.84	42.94	42.44	41.77	42.74	42.03	42.04	41.81	41.33	41.20	41.46	41.68	
5	42.80	42.41	42.46	41.82	43.01	41.83	41.87	41.85	41.21	41.15	41.38	41.45	
6	42.82	42.37	42.45	41.82	42.95	41.85	41.83	41.89	41.14	41.29	41.38	41.62	
7	42.66	42.44	42.44	41.73	42.86	41.73	41.84	41.76	41.29	41.13	41.37	41.61	
8	42.63	42.59	42.50	41.74	42.89	41.86	41.93	41.90	41.27	41.37	41.36	41.53	
9	42.70	42.59	42.42	41.89	42.86	41.97	41.91	41.79	41.25	41.38	41.34	41.52	
10	42.71	42.57	42.10	41.92	43.03	41.82	41.96	41.75	41.15	41.46	41.36	41.76	
11	42.77	42.61	42.31	42.29	42.77	41.83	41.92	41.75	41.29	41.39	41.25	41.53	
12	42.83	42.46	42.23	42.03	42.90	41.76	41.86	41.83	41.26	41.44	41.15	41.62	
13	42.82	42.45	42.37	42.06	42.65	41.90	41.73	41.68	41.19	41.44	41.18	41.64	
14	42.66	42.40	42.24	41.89	42.77	41.72	41.86	41.68	41.20	41.43	41.26	41.64	
15	42.68	42.42	42.24	42.48	42.29	41.71	41.67	41.66	41.15	41.45	41.31	41.64	
16	42.69	42.43	42.07	42.49	41.85	41.81	41.76	41.70	41.33	41.37	41.27	41.73	
17	42.81	42.45	42.04	42.44	41.87	41.77	41.70	41.57	41.13	41.42	41.55	41.79	
18	42.82	42.50	42.39	42.48	42.14	41.82	41.65	41.68	41.30	41.40	41.51	41.94	
19	42.73	42.48	42.35	42.49	42.58	41.84	41.65	41.60	41.17	41.38	41.44	41.81	
20	42.80	42.16	42.35	42.67	42.47	41.81	41.53	41.67	41.24	41.46	41.35	41.84	
21	42.54	42.35	42.30	42.99	42.62	41.67	41.75	41.63	41.21	41.41	41.55	41.93	
22	42.58	42.48	42.29	43.08	42.61	41.62	41.74	41.56	41.21	41.38	41.37	41.86	
23	42.65	42.44	42.02	42.78	42.59	41.84	41.61	41.64	41.20	41.46	41.41	41.85	
24	42.80	42.44	41.94	42.66	42.34	41.59	41.78	41.53	41.25	41.35	41.42	41.89	
25	42.71	42.75	42.24	42.66	42.35	41.68	41.83	41.70	41.16	41.42	41.38	41.83	
26	42.81	42.31	42.19	42.61	42.45	41.85	41.78	41.62	41.18	41.33	41.31	41.88	
27	42.90	42.34	42.18	42.59	42.39	41.87	41.73	41.57	41.21	41.47	41.31	41.75	
28	42.49	42.50	42.23	42.68	42.09	41.81	42.01	41.59	41.19	41.41	41.35	41.73	
29	42.53	42.44	42.94	42.62	42.03	41.82	41.89	41.53	41.16	41.43		41.85	
30	42.74	42.46	42.19	42.70	42.00	41.88	41.92	41.61	41.25	41.37		41.78	
31		42.47		42.54	41.82		41.95		41.22	41.44		41.87	
Mean	42.72	42.50	42.31	42.30	42.51	41.81	41.83	41.71	41.24	41.36	41.36	41.70	
Max	42.90	42.94	42.94	43.08	43.03	42.03	42.19	42.02	41.53	41.47	41.55	41.94	43.08
Min	42.49	42.16	41.94	41.73	41.82	41.59	41.53	41.53	41.13	41.11	41.15	41.36	41.11

Annual Max Momentary Gage Height	43.61	m. (MSL.) ,	at 19.00 Hours , on Jun 29 , 2014		
Zero Gage at Bottom Elevation	39.57	m. (MSL.) ,	River Bed	40.27	m. (MSL)
Left Bank Elevation	48.55	m. (MSL.) ,			
Right Bank Elevation	48.48	m. (MSL.) ,	Drainage Area	6725	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	256.00	289.60	230.80	151.90	245.20	163.40	151.90	168.00	125.45	77.15	108.20	105.90		
2	250.00	253.60	226.00	148.45	253.60	158.80	182.95	155.35	118.55	86.35	102.45	110.50		
3	265.60	260.80	239.20	163.40	251.20	163.40	201.35	181.80	89.80	81.75	117.40	117.40		
4	278.80	290.80	230.80	153.05	266.80	182.95	184.10	157.65	102.45	87.50	117.40	142.70		
5	274.00	227.20	233.20	158.80	299.20	159.95	164.55	162.25	88.65	81.75	108.20	116.25		
6	276.40	222.40	232.00	158.80	292.00	162.25	159.95	166.85	80.60	97.85	108.20	135.80		
7	257.20	230.80	230.80	148.45	281.20	148.45	161.10	151.90	97.85	79.45	107.05	134.65		
8	253.60	248.80	238.00	149.60	284.80	163.40	171.45	168.00	95.55	107.05	105.90	125.45		
9	262.00	248.80	228.40	166.85	281.20	176.05	169.15	155.35	93.25	108.20	103.60	124.30		
10	263.20	246.40	191.00	170.30	301.60	158.80	174.90	150.75	81.75	117.40	105.90	151.90		
11	270.40	251.20	215.20	212.85	270.40	159.95	170.30	150.75	97.85	109.35	93.25	125.45		
12	277.60	233.20	205.95	182.95	286.00	151.90	163.40	159.95	94.40	115.10	81.75	135.80		
13	276.40	232.00	222.40	186.40	256.00	168.00	148.45	142.70	86.35	115.10	85.20	138.10		
14	257.20	226.00	207.10	166.85	270.40	147.30	163.40	142.70	87.50	113.95	94.40	138.10		
15	259.60	228.40	207.10	235.60	212.85	146.15	141.55	140.40	81.75	116.25	100.15	138.10		
16	260.80	229.60	187.55	236.80	162.25	157.65	151.90	145.00	102.45	107.05	95.55	148.45		
17	275.20	232.00	184.10	230.80	164.55	153.05	145.00	130.05	79.45	112.80	127.75	155.35		
18	276.40	238.00	224.80	235.60	195.60	158.80	139.25	142.70	99.00	110.50	123.15	172.60		
19	265.60	235.60	220.00	236.80	247.60	161.10	139.25	133.50	84.05	108.20	115.10	157.65		
20	274.00	197.90	220.00	258.40	234.40	157.65	125.45	141.55	92.10	117.40	104.75	161.10		
21	242.80	220.00	214.00	296.80	252.40	141.55	150.75	136.95	88.65	111.65	127.75	171.45		
22	247.60	235.60	212.85	307.60	251.20	135.80	149.60	128.90	88.65	108.20	107.05	163.40		
23	256.00	230.80	181.80	271.60	248.80	161.10	134.65	138.10	87.50	117.40	111.65	162.25		
24	274.00	230.80	172.60	257.20	218.80	132.35	154.20	125.45	93.25	104.75	112.80	166.85		
25	263.20	268.00	207.10	257.20	220.00	142.70	159.95	145.00	82.90	112.80	108.20	159.95		
26	275.20	215.20	201.35	251.20	232.00	162.25	154.20	135.80	85.20	102.45	100.15	165.70		
27	286.00	218.80	200.20	248.80	224.80	164.55	148.45	130.05	88.65	118.55	100.15	150.75		
28	236.80	238.00	205.95	259.60	189.85	157.65	180.65	132.35	86.35	111.65	104.75	148.45		
29	241.60	230.80	290.80	252.40	182.95	158.80	166.85	125.45	82.90	113.95		162.25		
30	266.80	233.20	201.35	262.00	179.50	165.70	170.30	134.65	93.25	107.05		154.20		
31		234.40		242.80	158.80		173.75		89.80	115.10		164.55		
Total	7920.00	7378.70	6462.40	6659.85	7415.95	4721.45	4952.70	4379.90	2845.90	3273.70	2977.85	4505.35	63493.75	CMSDAY
Mean	264.00	238.02	215.41	214.83	239.22	157.38	159.76	146.00	91.80	105.60	106.35	145.33	173.96	CMS
Max	286.00	290.80	290.80	307.60	301.60	182.95	201.35	181.80	125.45	118.55	127.75	172.60	307.60	CMS
Min	236.80	197.90	172.60	148.45	158.80	132.35	125.45	125.45	79.45	77.15	81.75	105.90	77.15	CMS
Runoff	684.29	637.52	558.35	575.41	640.74	407.93	427.91	378.42	245.89	282.85	257.29	389.26	5485.86	MCM

Momentary Peak 375.30 CMS. at 43.61 m. (MSL.) at 19.00 Hours , on Jun 29 , 2014

Runoff Yield 25.87 Liters/Second/Square KM. Momentary Peak Yield 55.807 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

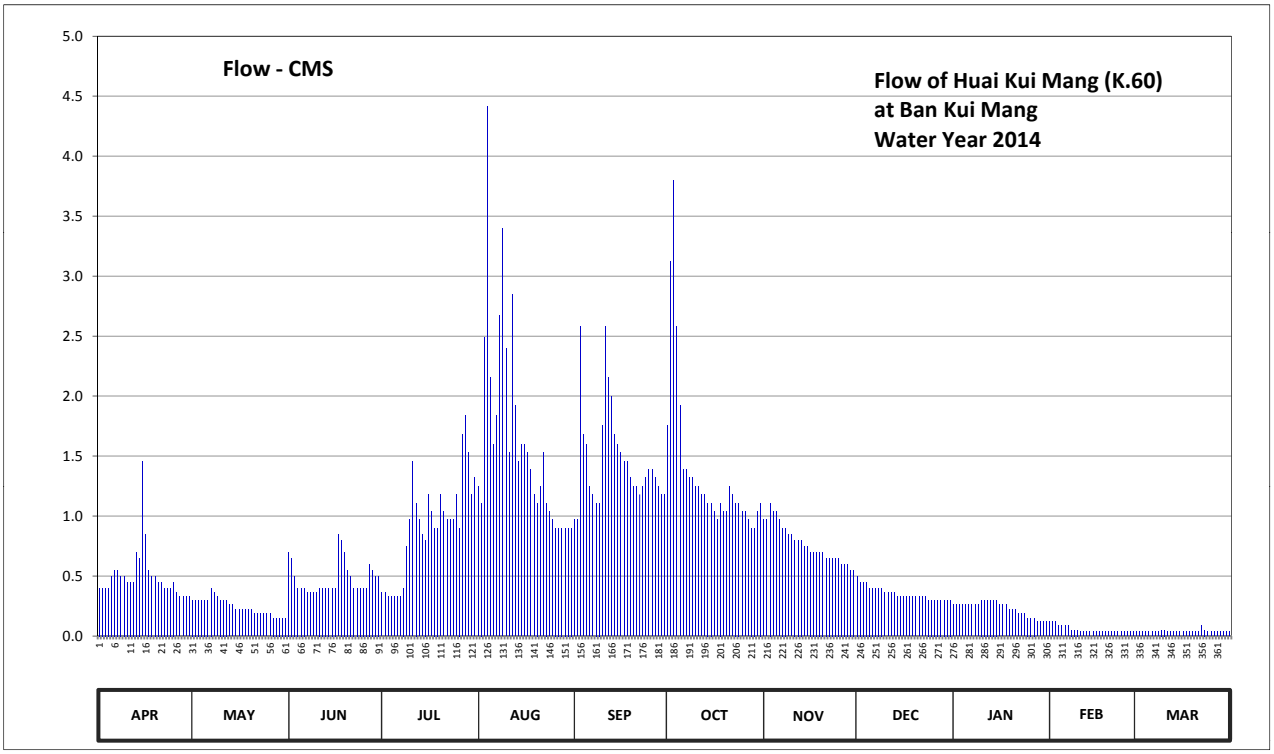
Location : on right bank at the bridge on road.

	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 Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.50	74.47	74.56	74.49	74.65	74.61	74.72	74.61	74.52	74.46	74.42	74.39	
2	74.50	74.47	74.55	74.49	74.63	74.61	74.88	74.61	74.51	74.46	74.42	74.39	
3	74.50	74.47	74.52	74.48	74.81	74.82	74.95	74.63	74.51	74.46	74.42	74.39	
4	74.50	74.47	74.50	74.48	75.01	74.71	74.82	74.62	74.51	74.46	74.41	74.39	
5	74.52	74.47	74.50	74.48	74.77	74.70	74.74	74.62	74.50	74.46	74.41	74.39	
6	74.53	74.47	74.50	74.48	74.70	74.65	74.67	74.61	74.50	74.46	74.41	74.39	
7	74.53	74.50	74.49	74.48	74.73	74.64	74.67	74.60	74.50	74.46	74.41	74.39	
8	74.52	74.49	74.49	74.50	74.83	74.63	74.66	74.60	74.50	74.46	74.40	74.39	
9	74.52	74.48	74.49	74.57	74.91	74.63	74.66	74.59	74.50	74.46	74.40	74.40	
10	74.51	74.47	74.49	74.61	74.80	74.72	74.65	74.59	74.49	74.47	74.40	74.40	
11	74.51	74.47	74.50	74.68	74.69	74.82	74.65	74.58	74.49	74.47	74.39	74.39	
12	74.51	74.47	74.50	74.63	74.85	74.77	74.64	74.58	74.49	74.47	74.39	74.39	
13	74.56	74.46	74.50	74.61	74.74	74.75	74.64	74.58	74.49	74.47	74.39	74.39	
14	74.55	74.46	74.50	74.59	74.68	74.71	74.63	74.57	74.48	74.47	74.39	74.39	
15	74.68	74.45	74.50	74.58	74.70	74.70	74.63	74.57	74.48	74.47	74.39	74.39	
16	74.59	74.45	74.50	74.64	74.70	74.69	74.62	74.56	74.48	74.46	74.39	74.39	
17	74.53	74.45	74.59	74.62	74.69	74.68	74.61	74.56	74.48	74.46	74.39	74.38	
18	74.52	74.45	74.58	74.60	74.67	74.68	74.63	74.56	74.48	74.46	74.39	74.38	
19	74.52	74.45	74.56	74.60	74.64	74.66	74.62	74.56	74.48	74.45	74.39	74.38	
20	74.51	74.45	74.53	74.64	74.63	74.65	74.62	74.56	74.48	74.45	74.39	74.38	
21	74.51	74.44	74.52	74.62	74.65	74.65	74.65	74.55	74.48	74.45	74.39	74.38	
22	74.50	74.44	74.50	74.61	74.69	74.64	74.64	74.55	74.48	74.44	74.39	74.41	
23	74.50	74.44	74.50	74.61	74.63	74.65	74.63	74.55	74.48	74.44	74.39	74.40	
24	74.50	74.44	74.50	74.61	74.62	74.66	74.63	74.55	74.47	74.44	74.39	74.39	
25	74.51	74.44	74.50	74.64	74.61	74.67	74.62	74.55	74.47	74.43	74.39	74.39	
26	74.49	74.44	74.50	74.60	74.60	74.67	74.62	74.54	74.47	74.43	74.39	74.39	
27	74.48	74.43	74.54	74.71	74.60	74.66	74.61	74.54	74.47	74.43	74.39	74.39	
28	74.48	74.43	74.53	74.73	74.60	74.65	74.60	74.54	74.47	74.42	74.39	74.38	
29	74.48	74.43	74.52	74.69	74.60	74.64	74.60	74.53	74.47	74.42		74.38	
30	74.48	74.43	74.52	74.64	74.60	74.64	74.62	74.53	74.47	74.42		74.37	
31		74.43		74.66	74.60		74.63		74.47	74.42		74.37	
Mean	74.52	74.46	74.52	74.59	74.70	74.68	74.66	74.57	74.49	74.45	74.40	74.39	
Max	74.68	74.50	74.59	74.73	75.01	74.82	74.95	74.63	74.52	74.47	74.42	74.41	75.01
Min	74.48	74.43	74.49	74.48	74.60	74.61	74.60	74.53	74.47	74.42	74.39	74.37	74.37

Annual Max Momentary Gage Height	75.04	m. (MSL.) ,	at 12.00 Hours , on Aug 4 , 2014		
Zero Gage at Bottom Elevation	73.68	m. (MSL.) ,	River Bed	73.50	m. (MSL.)
Left Bank Elevation	82.02	m. (MSL.) ,			
Right Bank Elevation	82.11	m. (MSL.) ,	Drainage Area	128	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.30	0.70	0.36	1.25	0.97	1.76	0.97	0.50	0.26	0.12	0.04		
2	0.40	0.30	0.65	0.36	1.11	0.97	3.12	0.97	0.45	0.26	0.12	0.04		
3	0.40	0.30	0.50	0.33	2.49	2.58	3.80	1.11	0.45	0.26	0.12	0.04		
4	0.40	0.30	0.40	0.33	4.41	1.68	2.58	1.04	0.45	0.26	0.09	0.04		
5	0.50	0.30	0.40	0.33	2.16	1.60	1.92	1.04	0.40	0.26	0.09	0.04		
6	0.55	0.30	0.40	0.33	1.60	1.25	1.39	0.97	0.40	0.26	0.09	0.04		
7	0.55	0.40	0.36	0.33	1.84	1.18	1.39	0.90	0.40	0.26	0.09	0.04		
8	0.50	0.36	0.36	0.40	2.67	1.11	1.32	0.90	0.40	0.26	0.05	0.04		
9	0.50	0.33	0.36	0.75	3.40	1.11	1.32	0.85	0.40	0.26	0.05	0.05		
10	0.45	0.30	0.36	0.97	2.40	1.76	1.25	0.85	0.36	0.30	0.05	0.05		
11	0.45	0.30	0.40	1.46	1.53	2.58	1.25	0.80	0.36	0.30	0.04	0.04		
12	0.45	0.30	0.40	1.11	2.85	2.16	1.18	0.80	0.36	0.30	0.04	0.04		
13	0.70	0.26	0.40	0.97	1.92	2.00	1.18	0.80	0.36	0.30	0.04	0.04		
14	0.65	0.26	0.40	0.85	1.46	1.68	1.11	0.75	0.33	0.30	0.04	0.04		
15	1.46	0.22	0.40	0.80	1.60	1.60	1.11	0.75	0.33	0.30	0.04	0.04		
16	0.85	0.22	0.40	1.18	1.60	1.53	1.04	0.70	0.33	0.26	0.04	0.04		
17	0.55	0.22	0.85	1.04	1.53	1.46	0.97	0.70	0.33	0.26	0.04	0.04		
18	0.50	0.22	0.80	0.90	1.39	1.46	1.11	0.70	0.33	0.26	0.04	0.04		
19	0.50	0.22	0.70	0.90	1.18	1.32	1.04	0.70	0.33	0.22	0.04	0.04		
20	0.45	0.22	0.55	1.18	1.11	1.25	1.04	0.70	0.33	0.22	0.04	0.04		
21	0.45	0.19	0.50	1.04	1.25	1.25	1.25	0.65	0.33	0.22	0.04	0.04		
22	0.40	0.19	0.40	0.97	1.53	1.18	1.18	0.65	0.33	0.19	0.04	0.09		
23	0.40	0.19	0.40	0.97	1.11	1.25	1.11	0.65	0.33	0.19	0.04	0.05		
24	0.40	0.19	0.40	0.97	1.04	1.32	1.11	0.65	0.30	0.19	0.04	0.04		
25	0.45	0.19	0.40	1.18	0.97	1.39	1.04	0.65	0.30	0.15	0.04	0.04		
26	0.36	0.19	0.40	0.90	0.90	1.39	1.04	0.60	0.30	0.15	0.04	0.04		
27	0.33	0.15	0.60	1.68	0.90	1.32	0.97	0.60	0.30	0.15	0.04	0.04		
28	0.33	0.15	0.55	1.84	0.90	1.25	0.90	0.60	0.30	0.12	0.04	0.04		
29	0.33	0.15	0.50	1.53	0.90	1.18	0.90	0.55	0.30	0.12		0.04		
30	0.33	0.15	0.50	1.18	0.90	1.18	1.04	0.55	0.30	0.12		0.04		
31		0.15		1.32	0.90		1.11		0.30	0.12		0.04		
Total	14.99	7.52	14.44	28.46	50.80	43.96	42.53	23.15	10.99	7.08	1.59	1.32	246.83	CMSDAY
Mean	0.50	0.24	0.48	0.92	1.64	1.47	1.37	0.77	0.35	0.23	0.06	0.04	0.68	CMS
Max	1.46	0.40	0.85	1.84	4.41	2.58	3.80	1.11	0.50	0.30	0.12	0.09	4.41	CMS
Min	0.33	0.15	0.36	0.33	0.90	0.97	0.90	0.55	0.30	0.12	0.04	0.04	0.04	CMS
Runoff	1.30	0.65	1.25	2.46	4.39	3.80	3.68	2.00	0.95	0.61	0.14	0.11	21.33	MCM

Momentary Peak 4.74 CMS. at 75.04 m. (MSL.) at 12.00 Hours , on Aug 4 , 2014

Runoff Yield 5.28 Liters/Second/Square KM. Momentary Peak Yield 36.927 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Lam Phachi at Ban Dan Thaptako , Ratchaburi (K.61)

Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

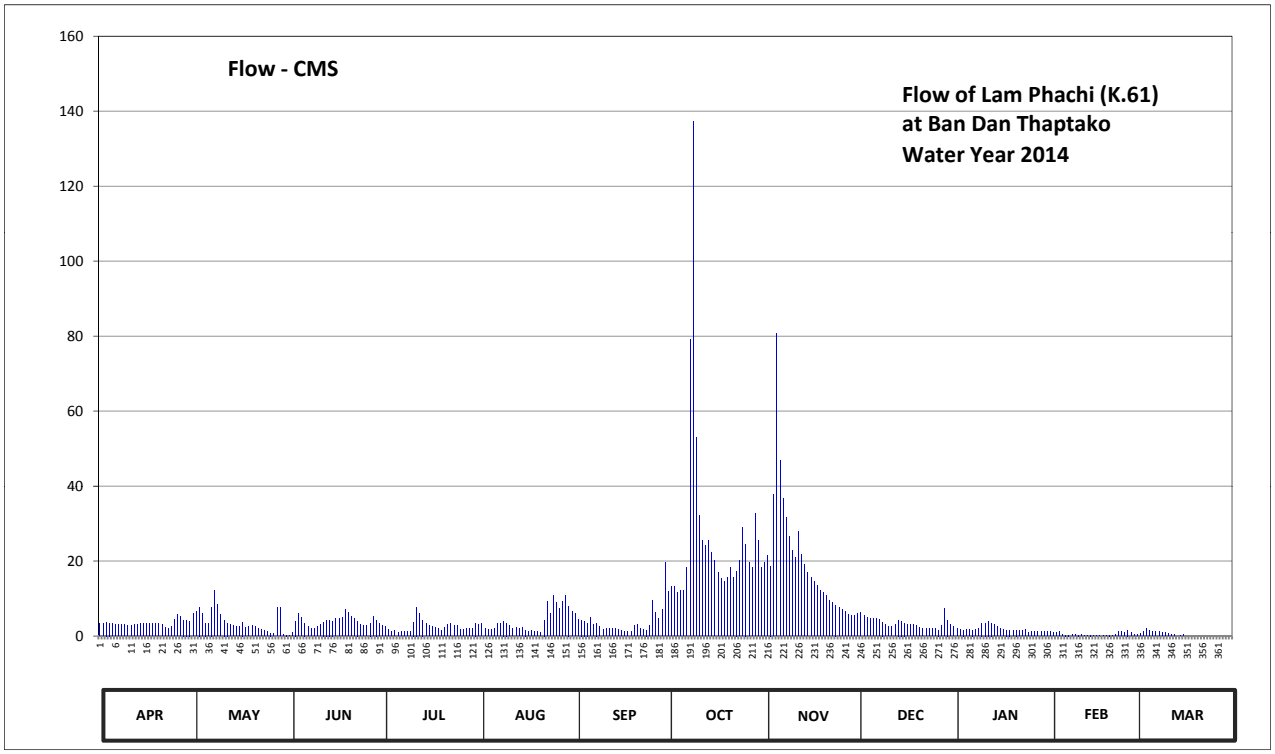
Location : on right bank at the bridge on highway.

	Ban Dan Thaptako	**Amphoe** Chom Bung	**Changwat** Ratchaburi
Drainge Area	1,844 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+64.630 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +71.913 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.25	65.36	65.02	65.23	65.24	65.36	65.58	65.78	65.36	65.22	65.11	65.04	
2	65.25	65.38	65.10	65.22	65.25	65.30	65.62	65.82	65.37	65.20	65.10	65.06	
3	65.27	65.43	65.28	65.17	65.20	65.29	65.62	65.76	65.34	65.18	65.09	65.12	
4	65.26	65.36	65.36	65.12	65.17	65.28	65.57	66.14	65.32	65.16	65.13	65.19	
5	65.25	65.26	65.32	65.15	65.17	65.26	65.59	66.74	65.31	65.17	65.05	65.14	
6	65.24	65.25	65.26	65.10	65.19	65.32	65.59	66.29	65.31	65.18	65.03	65.13	
7	65.24	65.43	65.22	65.13	65.25	65.24	65.75	66.12	65.31	65.16	65.03	65.12	
8	65.24	65.59	65.20	65.12	65.25	65.26	66.72	66.03	65.30	65.17	65.04	65.11	
9	65.24	65.46	65.20	65.11	65.28	65.22	67.29	65.93	65.27	65.20	65.04	65.10	
10	65.23	65.35	65.22	65.11	65.26	65.18	66.38	65.85	65.24	65.26	65.03	65.09	
11	65.23	65.29	65.24	65.27	65.23	65.19	66.04	65.81	65.22	65.26	65.04	65.07	
12	65.24	65.26	65.27	65.43	65.19	65.19	65.91	65.96	65.22	65.28	65.02	65.05	
13	65.24	65.24	65.29	65.36	65.21	65.19	65.88	65.83	65.24	65.26	65.01	65.04	
14	65.25	65.23	65.29	65.29	65.19	65.19	65.91	65.77	65.29	65.24	65.03	64.99	
15	65.25	65.22	65.28	65.25	65.21	65.17	65.84	65.72	65.28	65.22	65.02	65.02	
16	65.25	65.22	65.31	65.23	65.16	65.14	65.79	65.69	65.26	65.20	65.01	65.04	
17	65.25	65.27	65.31	65.22	65.11	65.13	65.72	65.66	65.24	65.18	65.01	64.97	
18	65.25	65.21	65.32	65.21	65.15	65.12	65.68	65.63	65.24	65.16	65.01	64.96	
19	65.25	65.22	65.40	65.20	65.11	65.12	65.66	65.59	65.24	65.16	65.02	64.96	
20	65.25	65.23	65.37	65.15	65.11	65.23	65.69	65.57	65.23	65.15	65.03	64.97	
21	65.24	65.22	65.33	65.21	65.10	65.24	65.75	65.54	65.21	65.16	65.02	64.96	
22	65.21	65.19	65.31	65.24	65.29	65.19	65.69	65.50	65.20	65.15	65.04	64.96	
23	65.20	65.17	65.28	65.25	65.49	65.17	65.73	65.48	65.19	65.15	65.12	64.96	
24	65.22	65.14	65.24	65.23	65.36	65.16	65.79	65.45	65.20	65.17	65.11	64.96	
25	65.30	65.11	65.23	65.23	65.54	65.23	65.98	65.42	65.19	65.10	65.09	64.96	
26	65.35	65.08	65.23	65.18	65.48	65.50	65.89	65.40	65.19	65.11	65.16	64.97	
27	65.33	65.07	65.26	65.18	65.41	65.37	65.78	65.38	65.16	65.11	65.09	64.95	
28	65.29	65.42	65.33	65.19	65.49	65.31	65.75	65.35	65.23	65.11	65.05	64.95	
29	65.29	65.42	65.29	65.19	65.54	65.40	66.05	65.34	65.41	65.11		64.95	
30	65.28	65.05	65.25	65.20	65.44	65.78	65.91	65.34	65.29	65.11		64.98	
31		65.03		65.26	65.38		65.75		65.24	65.11		64.99	
Mean	65.25	65.26	65.27	65.21	65.27	65.26	65.87	65.73	65.26	65.17	65.05	65.02	
Max	65.35	65.59	65.40	65.43	65.54	65.78	67.29	66.74	65.41	65.28	65.16	65.19	67.29
Min	65.20	65.03	65.02	65.10	65.10	65.12	65.57	65.34	65.16	65.10	65.01	64.95	64.95

Annual Max Momentary Gage Height	68.34	m. (MSL.) ,	at 24.00 Hours , on Oct 8 , 2014		
Zero Gage at Bottom Elevation	64.63	m. (MSL.) ,	River Bed	64.34	m. (MSL.)
Left Bank Elevation	71.52	m. (MSL.) ,			
Right Bank Elevation	71.89	m. (MSL.) ,	Drainage Area	1844	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.25	6.00	0.20	2.75	3.00	6.00	11.90	19.60	6.00	2.50	1.10	0.40		
2	3.25	6.50	1.00	2.50	3.25	4.50	13.20	21.40	6.25	2.00	1.00	0.60		
3	3.75	7.75	4.00	1.70	2.00	4.25	13.20	18.70	5.50	1.80	0.90	1.20		
4	3.50	6.00	6.00	1.20	1.70	4.00	11.60	37.70	5.00	1.60	1.30	1.90		
5	3.25	3.50	5.00	1.50	1.70	3.50	12.20	80.70	4.75	1.70	0.50	1.40		
6	3.00	3.25	3.50	1.00	1.90	5.00	12.20	46.85	4.75	1.80	0.30	1.30		
7	3.00	7.75	2.50	1.30	3.25	3.00	18.25	36.60	4.75	1.60	0.30	1.20		
8	3.00	12.20	2.00	1.20	3.25	3.50	79.10	31.65	4.50	1.70	0.40	1.10		
9	3.00	8.50	2.00	1.10	4.00	2.50	137.35	26.50	3.75	2.00	0.40	1.00		
10	2.75	5.75	2.50	1.10	3.50	1.80	53.10	22.75	3.00	3.50	0.30	0.90		
11	2.75	4.25	3.00	3.75	2.75	1.90	32.20	20.95	2.50	3.50	0.40	0.70		
12	3.00	3.50	3.75	7.75	1.90	1.90	25.50	28.00	2.50	4.00	0.20	0.50		
13	3.00	3.00	4.25	6.00	2.25	1.90	24.10	21.85	3.00	3.50	0.10	0.40		
14	3.25	2.75	4.25	4.25	1.90	1.90	25.50	19.15	4.25	3.00	0.30	0.00		
15	3.25	2.50	4.00	3.25	2.25	1.70	22.30	16.90	4.00	2.50	0.20	0.20		
16	3.25	2.50	4.75	2.75	1.60	1.40	20.05	15.65	3.50	2.00	0.10	0.40		
17	3.25	3.75	4.75	2.50	1.10	1.30	16.90	14.60	3.00	1.80	0.10	0.00		
18	3.25	2.25	5.00	2.25	1.50	1.20	15.30	13.55	3.00	1.60	0.10	0.00		
19	3.25	2.50	7.00	2.00	1.10	1.20	14.60	12.20	3.00	1.60	0.20	0.00		
20	3.25	2.75	6.25	1.50	1.10	2.75	15.65	11.60	2.75	1.50	0.30	0.00		
21	3.00	2.50	5.25	2.25	1.00	3.00	18.25	10.70	2.25	1.60	0.20	0.00		
22	2.25	1.90	4.75	3.00	4.25	1.90	15.65	9.50	2.00	1.50	0.40	0.00		
23	2.00	1.70	4.00	3.25	9.25	1.70	17.35	9.00	1.90	1.50	1.20	0.00		
24	2.50	1.40	3.00	2.75	6.00	1.60	20.05	8.25	2.00	1.70	1.10	0.00		
25	4.50	1.10	2.75	2.75	10.70	2.75	29.00	7.50	1.90	1.00	0.90	0.00		
26	5.75	0.80	2.75	1.80	9.00	9.50	24.55	7.00	1.90	1.10	1.60	0.00		
27	5.25	0.70	3.50	1.80	7.25	6.25	19.60	6.50	1.60	1.10	0.90	0.00		
28	4.25	7.50	5.25	1.90	9.25	4.75	18.25	5.75	2.75	1.10	0.50	0.00		
29	4.25	7.50	4.25	1.90	10.70	7.00	32.75	5.50	7.25	1.10		0.00		
30	4.00	0.50	3.25	2.00	8.00	19.60	25.50	5.50	4.25	1.10		0.00		
31		0.30		3.50	6.50		18.25		3.00	1.10		0.00		
Total	101.00	122.85	114.45	78.25	126.90	113.25	813.40	592.10	110.55	59.10	15.30	13.20	2260.35	CMSDAY
Mean	3.37	3.96	3.82	2.52	4.09	3.78	26.24	19.74	3.57	1.91	0.55	0.43	6.19	CMS
Max	5.75	12.20	7.00	7.75	10.70	19.60	137.35	80.70	7.25	4.00	1.60	1.90	137.35	CMS
Min	2.00	0.30	0.20	1.00	1.00	1.20	11.60	5.50	1.60	1.00	0.10	0.00	0.00	CMS
Runoff	8.73	10.61	9.89	6.76	10.96	9.79	70.28	51.16	9.55	5.11	1.32	1.14	195.29	MCM

Momentary Peak 285.30 CMS. at 68.34 m. (MSL.) at 24.00 Hours , on Oct 8 , 2014

Runoff Yield 3.36 Liters/Second/Square KM. Momentary Peak Yield 154.718 Liters/Second/Square KM.

WATER YEAR : 2014

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

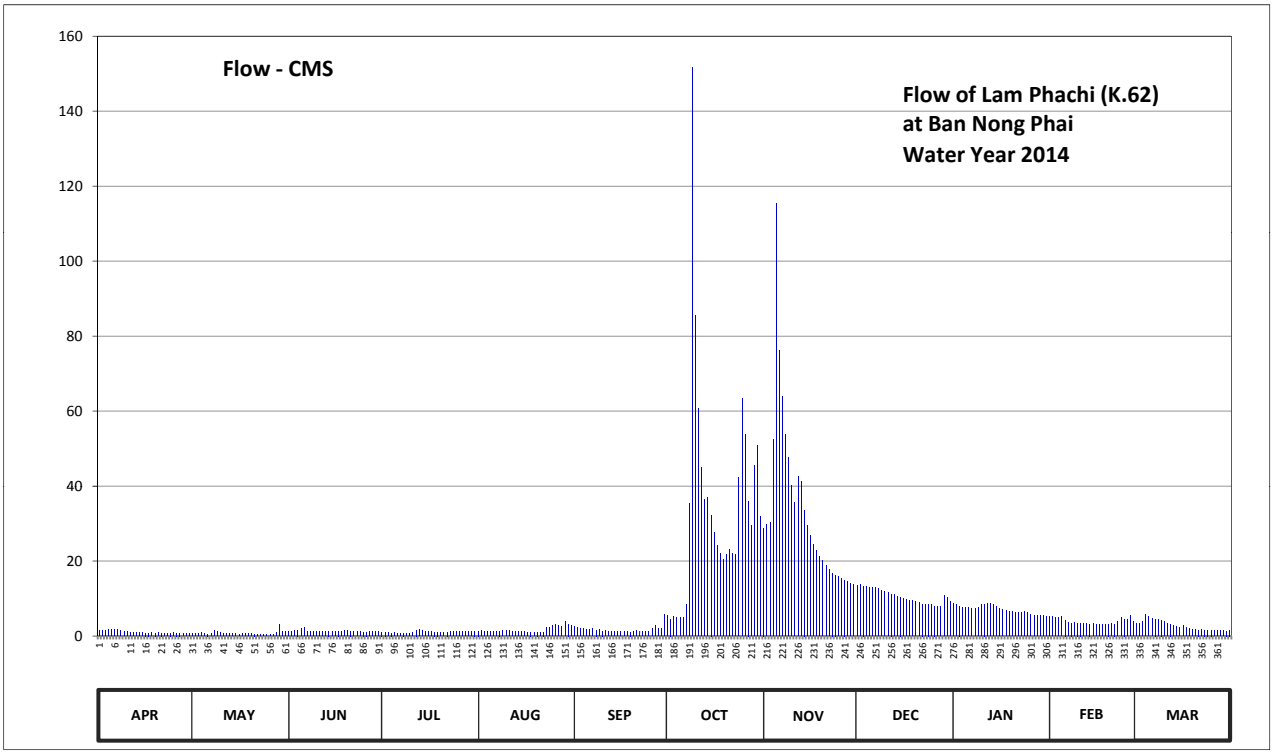
Location : on left bank at Ban Nong Phai.

	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 mean of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.23	48.99	48.92	48.91	48.97	49.10	49.34	50.36	49.78	49.54	49.32	49.19	
2	49.22	49.02	48.93	48.91	48.98	49.07	49.27	50.39	49.79	49.52	49.31	49.18	
3	49.22	48.99	48.99	48.90	48.96	49.05	49.32	50.41	49.77	49.50	49.29	49.22	
4	49.26	49.08	49.01	48.86	48.94	49.04	49.29	51.01	49.76	49.48	49.30	49.35	
5	49.25	48.97	49.05	48.87	48.93	49.03	49.30	52.23	49.75	49.47	49.31	49.31	
6	49.25	48.93	49.08	48.84	48.95	49.03	49.30	51.52	49.75	49.47	49.25	49.28	
7	49.24	48.98	48.96	48.85	48.96	49.05	49.52	51.27	49.75	49.45	49.21	49.27	
8	49.22	49.23	48.93	48.86	48.97	49.01	50.56	51.04	49.74	49.46	49.20	49.26	
9	49.16	49.15	48.93	48.84	48.98	49.02	52.82	50.90	49.72	49.47	49.21	49.25	
10	49.12	49.06	48.95	48.84	48.98	48.97	51.70	50.70	49.70	49.52	49.20	49.22	
11	49.09	49.00	48.93	48.87	48.98	48.98	51.20	50.57	49.69	49.53	49.20	49.19	
12	49.07	48.96	48.93	49.01	48.95	48.96	50.83	50.77	49.67	49.54	49.19	49.17	
13	49.05	48.95	48.92	49.02	48.94	48.96	50.59	50.73	49.66	49.54	49.18	49.14	
14	49.08	48.97	48.97	48.98	48.94	48.95	50.61	50.51	49.64	49.52	49.17	49.11	
15	49.07	48.94	48.93	48.94	48.94	48.95	50.47	50.38	49.63	49.49	49.18	49.08	
16	49.04	48.91	48.94	48.92	48.94	48.94	50.32	50.29	49.61	49.46	49.16	49.12	
17	49.04	48.94	48.97	48.92	48.90	48.93	50.20	50.21	49.59	49.44	49.16	49.09	
18	49.06	48.95	48.94	48.91	48.91	48.92	50.12	50.15	49.58	49.42	49.15	49.06	
19	49.04	48.96	48.99	48.91	48.90	48.91	50.06	50.09	49.58	49.40	49.15	49.03	
20	49.05	48.96	49.00	48.89	48.91	48.93	50.11	50.05	49.57	49.40	49.17	49.02	
21	49.03	48.92	48.97	48.90	48.89	48.98	50.16	50.00	49.55	49.39	49.18	49.01	
22	49.01	48.88	48.95	48.91	48.91	48.97	50.12	49.96	49.53	49.39	49.17	49.02	
23	49.00	48.87	48.93	48.93	49.09	48.94	50.11	49.92	49.52	49.38	49.23	49.01	
24	49.04	48.87	48.92	48.92	49.08	48.93	50.76	49.90	49.53	49.40	49.30	49.01	
25	49.05	48.84	48.91	48.94	49.12	48.95	51.26	49.88	49.52	49.38	49.27	49.01	
26	49.04	48.82	48.91	48.95	49.16	49.06	51.04	49.86	49.50	49.35	49.26	49.00	
27	49.03	48.81	48.92	48.93	49.13	49.12	50.58	49.84	49.49	49.34	49.34	49.00	
28	48.99	48.87	48.96	48.93	49.11	49.05	50.38	49.82	49.49	49.33	49.23	48.99	
29	48.96	49.15	48.96	48.94	49.22	49.04	50.84	49.80	49.65	49.33		48.98	
30	48.97	48.96	48.93	48.93	49.17	49.35	50.97	49.79	49.62	49.33		48.97	
31		48.94		48.97	49.12		50.46		49.57	49.32		49.01	
Mean	49.10	48.96	48.95	48.91	49.00	49.01	50.37	50.41	49.64	49.44	49.22	49.11	
Max	49.26	49.23	49.08	49.02	49.22	49.35	52.82	52.23	49.79	49.54	49.34	49.35	52.82
Min	48.96	48.81	48.91	48.84	48.89	48.91	49.27	49.79	49.49	49.32	49.15	48.97	48.81

Annual Max Momentary Gage Height	53.32	m. (MSL.) ,	at 04.00 Hours , on Oct 9 , 2014		
Zero Gage at Bottom Elevation	49.00	m. (MSL.) ,	River Bed	48.46	m. (MSL.)
Left Bank Elevation	54.97	m. (MSL.) ,			
Right Bank Elevation	54.96	m. (MSL.) ,	Drainage Area	1725	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.58	0.68	1.10	1.05	1.35	2.50	5.60	28.80	13.56	8.72	5.30	3.40		
2	1.52	0.76	1.15	1.05	1.40	2.20	4.55	29.70	13.78	8.36	5.15	3.30		
3	1.52	0.68	1.45	1.00	1.30	2.00	5.30	30.33	13.34	8.00	4.85	3.80		
4	1.76	0.94	1.60	0.80	1.20	1.90	4.85	52.43	13.12	7.70	5.00	5.75		
5	1.70	0.64	2.00	0.85	1.15	1.80	5.00	115.30	12.90	7.55	5.15	5.15		
6	1.70	0.56	2.30	0.70	1.25	1.80	5.00	76.30	12.90	7.55	4.25	4.70		
7	1.64	0.66	1.30	0.75	1.30	2.00	8.36	63.95	12.90	7.25	3.65	4.55		
8	1.52	1.58	1.15	0.80	1.35	1.60	35.34	53.72	12.68	7.40	3.50	4.40		
9	1.24	1.20	1.15	0.70	1.40	1.70	151.58	47.80	12.24	7.55	3.65	4.25		
10	1.08	0.88	1.25	0.70	1.40	1.35	85.50	40.20	11.80	8.36	3.50	3.80		
11	0.97	0.70	1.15	0.85	1.40	1.40	60.80	35.68	11.60	8.54	3.50	3.40		
12	0.91	0.62	1.15	1.60	1.25	1.30	45.00	42.72	11.20	8.72	3.40	3.20		
13	0.85	0.60	1.10	1.70	1.20	1.30	36.36	41.28	11.00	8.72	3.30	2.90		
14	0.94	0.64	1.35	1.40	1.20	1.25	37.05	33.64	10.60	8.36	3.20	2.60		
15	0.91	0.58	1.15	1.20	1.20	1.25	32.31	29.40	10.40	7.85	3.30	2.30		
16	0.82	0.52	1.20	1.10	1.20	1.20	27.60	26.72	10.00	7.40	3.10	2.70		
17	0.82	0.58	1.35	1.10	1.00	1.15	24.20	24.48	9.62	7.10	3.10	2.40		
18	0.88	0.60	1.20	1.05	1.05	1.10	21.96	22.80	9.44	6.80	3.00	2.10		
19	0.82	0.62	1.45	1.05	1.00	1.05	20.36	21.14	9.44	6.50	3.00	1.80		
20	0.85	0.62	1.50	0.95	1.05	1.15	21.68	20.10	9.26	6.50	3.20	1.70		
21	0.79	0.54	1.35	1.00	0.95	1.40	23.08	18.80	8.90	6.35	3.30	1.60		
22	0.73	0.46	1.25	1.05	1.05	1.35	21.96	17.80	8.54	6.35	3.20	1.70		
23	0.70	0.44	1.15	1.15	2.40	1.20	21.68	16.80	8.36	6.20	3.95	1.60		
24	0.82	0.44	1.10	1.10	2.30	1.15	42.36	16.30	8.54	6.50	5.00	1.60		
25	0.85	0.38	1.05	1.20	2.70	1.25	63.50	15.84	8.36	6.20	4.55	1.60		
26	0.82	0.34	1.05	1.25	3.10	2.10	53.72	15.38	8.00	5.75	4.40	1.50		
27	0.79	0.32	1.10	1.15	2.80	2.70	36.02	14.92	7.85	5.60	5.60	1.50		
28	0.68	0.85	1.30	1.15	2.60	2.00	29.40	14.46	7.85	5.45	3.95	1.45		
29	0.62	3.00	1.30	1.20	3.80	1.90	45.40	14.00	10.80	5.45		1.40		
30	0.64	1.30	1.15	1.15	3.20	5.75	50.74	13.78	10.20	5.45		1.35		
31		1.20		1.35	2.70		31.98		9.26	5.30		1.60		
Total	31.47	23.93	38.85	33.15	52.25	51.80	1058.24	994.57	328.44	219.53	110.05	85.10	3027.38	CMSDAY
Mean	1.05	0.77	1.30	1.07	1.69	1.73	34.14	33.15	10.59	7.08	3.93	2.75	8.29	CMS
Max	1.76	3.00	2.30	1.70	3.80	5.75	151.58	115.30	13.78	8.72	5.60	5.75	151.58	CMS
Min	0.62	0.32	1.05	0.70	0.95	1.05	4.55	13.78	7.85	5.30	3.00	1.35	0.32	CMS
Runoff	2.72	2.07	3.36	2.86	4.51	4.48	91.43	85.93	28.38	18.97	9.51	7.35	261.57	MCM

Momentary Peak 184.32 CMS. at 53.32 m. (MSL.) at 04.00 Hours , on Oct 9 , 2014

Runoff Yield 4.81 Liters/Second/Square KM. Momentary Peak Yield 106.852 Liters/Second/Square KM.

WATER YEAR : 2014

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.

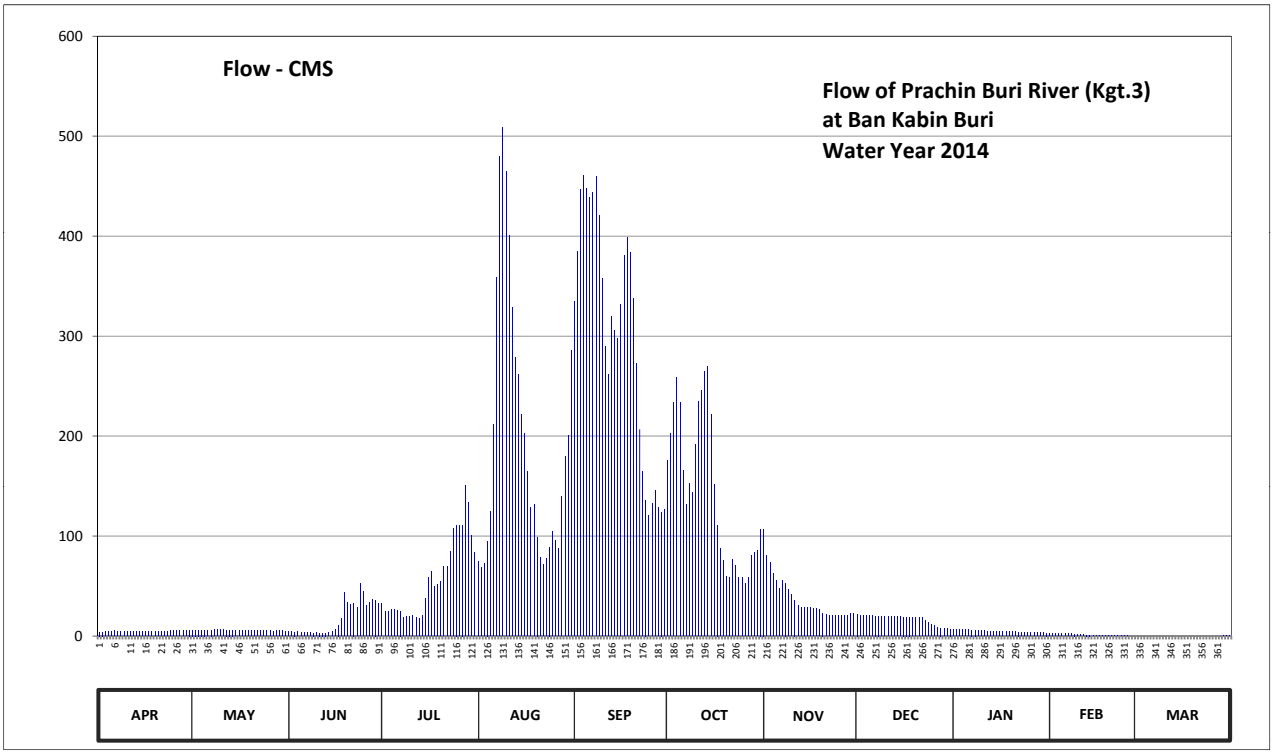
Ban Kabin Buri **Amphoe** Kabin Buri **Changwat** Prachin Buri

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	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	1941 to date
Rating Operation	
Period of Rating	1941 - 1943 , 1945, 1964 to date
Rated by Flot	-
Rated by Current Meter	1941 - 1943 , 1945, 1964 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 16 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.55	0.49	1.62	2.85	6.85	4.80	3.55	1.22	0.59	0.39	0.19	
2	0.45	0.55	0.47	1.33	2.70	7.41	5.18	2.99	1.18	0.59	0.39	0.19	
3	0.47	0.55	0.45	1.32	2.81	8.09	5.61	2.83	1.17	0.58	0.39	0.19	
4	0.47	0.55	0.46	1.39	3.31	8.23	5.93	2.54	1.15	0.58	0.38	0.18	
5	0.47	0.55	0.44	1.38	3.91	8.10	5.61	2.34	1.15	0.57	0.38	0.18	
6	0.51	0.54	0.43	1.36	5.31	8.00	4.63	2.12	1.15	0.57	0.38	0.18	
7	0.50	0.55	0.43	1.34	7.12	8.05	4.03	2.35	1.14	0.55	0.36	0.17	
8	0.50	0.56	0.41	1.08	8.42	8.22	4.41	2.28	1.14	0.55	0.36	0.17	
9	0.49	0.56	0.40	1.13	8.71	7.81	4.24	2.07	1.13	0.54	0.35	0.17	
10	0.49	0.56	0.41	1.11	8.27	7.11	5.02	1.93	1.13	0.52	0.33	0.17	
11	0.48	0.56	0.40	1.16	7.59	6.31	5.63	1.73	1.12	0.51	0.32	0.17	
12	0.48	0.55	0.40	1.09	6.78	5.96	5.77	1.55	1.12	0.50	0.31	0.17	
13	0.48	0.55	0.40	1.04	6.18	6.67	6.00	1.48	1.12	0.50	0.30	0.16	
14	0.48	0.55	0.41	1.17	5.96	6.51	6.07	1.46	1.11	0.49	0.30	0.16	
15	0.49	0.54	0.48	1.79	5.45	6.42	5.46	1.45	1.11	0.49	0.29	0.16	
16	0.49	0.54	0.57	2.44	5.18	6.82	4.40	1.45	1.10	0.48	0.27	0.16	
17	0.49	0.54	0.78	2.59	4.62	7.36	3.63	1.44	1.10	0.48	0.26	0.16	
18	0.49	0.53	1.03	2.17	3.97	7.56	3.15	1.42	1.10	0.47	0.25	0.16	
19	0.48	0.54	1.99	2.22	4.03	7.40	2.87	1.39	1.09	0.47	0.24	0.16	
20	0.48	0.54	1.65	2.33	3.39	6.89	2.47	1.26	1.09	0.46	0.24	0.16	
21	0.48	0.53	1.58	2.74	2.94	6.10	2.44	1.19	1.08	0.46	0.24	0.16	
22	0.48	0.53	1.63	2.73	2.78	5.24	2.90	1.17	1.07	0.45	0.24	0.16	
23	0.49	0.53	1.47	3.10	2.92	4.62	2.76	1.17	0.96	0.44	0.23	0.16	
24	0.51	0.52	2.25	3.56	3.19	4.11	2.43	1.16	0.88	0.44	0.23	0.16	
25	0.52	0.52	2.01	3.63	3.51	3.83	2.43	1.15	0.80	0.43	0.22	0.16	
26	0.52	0.52	1.55	3.62	3.32	4.04	2.27	1.15	0.75	0.43	0.21	0.18	
27	0.52	0.50	1.65	3.63	3.15	4.28	2.43	1.15	0.70	0.42	0.20	0.20	
28	0.52	0.52	1.75	4.37	4.18	3.98	2.99	1.18	0.65	0.42	0.20	0.20	
29	0.54	0.52	1.73	4.07	4.86	3.89	3.06	1.24	0.62	0.41		0.23	
30	0.55	0.51	1.60	3.42	5.16	3.94	3.12	1.23	0.61	0.41		0.25	
31		0.50		3.07	6.27		3.55		0.60	0.40		0.25	
Mean	0.49	0.54	0.99	2.23	4.80	6.33	4.04	1.71	1.01	0.49	0.29	0.18	
Max	0.55	0.56	2.25	4.37	8.71	8.23	6.07	3.55	1.22	0.59	0.39	0.25	8.71
Min	0.45	0.50	0.40	1.04	2.70	3.83	2.27	1.15	0.60	0.40	0.20	0.16	0.16

Annual Max Momentary Gage Height	8.73	m. (MSL.) ,	at 09.00 Hours, on Aug 9, 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-1.48	m. (MSL.)
Left Bank Elevation	11.24	m. (MSL.) ,			
Right Bank Elevation	10.98	m. (MSL.) ,	Drainage Area	7425	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	6.00	4.80	32.80	74.37	334.75	176.00	107.00	22.00	6.80	2.80	0.00		
2	4.00	6.00	4.40	24.83	68.25	384.90	202.60	80.33	21.00	6.80	2.80	0.00		
3	4.40	6.00	4.00	24.55	72.68	447.05	233.30	73.52	20.75	6.60	2.80	0.00		
4	4.40	6.00	4.20	26.47	95.00	461.00	258.90	62.25	20.25	6.60	2.60	0.00		
5	4.40	6.00	3.80	26.20	125.05	448.00	233.30	55.15	20.25	6.40	2.60	0.00		
6	5.20	5.80	3.60	25.65	211.70	438.50	165.80	47.90	20.25	6.40	2.60	0.00		
7	5.00	6.00	3.60	25.10	358.80	443.25	131.65	55.50	20.00	6.00	2.20	0.00		
8	5.00	6.20	3.20	18.50	480.00	460.00	152.60	53.10	20.00	6.00	2.20	0.00		
9	4.80	6.20	3.00	19.75	509.00	420.90	143.20	46.27	19.75	5.80	2.00	0.00		
10	4.80	6.20	3.20	19.25	465.00	357.90	191.40	41.90	19.75	5.40	1.60	0.00		
11	4.60	6.20	3.00	20.50	401.10	289.30	234.90	35.90	19.50	5.20	1.40	0.00		
12	4.60	6.00	3.00	18.75	328.80	261.30	246.10	30.87	19.50	5.00	1.20	0.00		
13	4.60	6.00	3.00	17.50	278.90	319.45	264.50	28.95	19.50	5.00	1.00	0.00		
14	4.60	6.00	3.20	20.75	261.30	305.85	270.10	28.40	19.25	4.80	1.00	0.00		
15	4.80	5.80	4.60	37.70	221.50	298.20	222.20	28.13	19.25	4.80	0.90	0.00		
16	4.80	5.80	6.40	58.65	202.60	332.20	152.00	28.13	19.00	4.60	0.70	0.00		
17	4.80	5.80	11.00	64.12	165.20	380.40	111.00	27.85	19.00	4.60	0.60	0.00		
18	4.80	5.60	17.25	49.53	128.35	398.40	87.25	27.30	19.00	4.40	0.50	0.00		
19	4.60	5.80	43.70	51.15	131.65	384.00	75.22	26.47	18.75	4.40	0.40	0.00		
20	4.60	5.80	33.63	54.80	99.00	338.15	59.70	23.00	18.75	4.20	0.40	0.00		
21	4.60	5.60	31.70	69.85	78.20	272.50	58.65	21.25	18.50	4.20	0.40	0.00		
22	4.60	5.60	33.08	69.45	71.45	206.80	76.50	20.75	18.25	4.00	0.40	0.00		
23	4.80	5.60	28.68	85.00	77.35	165.20	70.65	20.75	15.50	3.80	0.30	0.00		
24	5.20	5.40	52.13	107.50	89.05	136.05	58.30	20.50	13.50	3.80	0.30	0.00		
25	5.40	5.40	44.33	111.00	105.00	121.00	58.30	20.25	11.50	3.60	0.20	0.00		
26	5.40	5.40	30.87	110.50	95.50	132.20	52.78	20.25	10.25	3.60	0.10	0.00		
27	5.40	5.00	33.63	111.00	87.25	145.40	58.30	20.25	9.00	3.40	0.00	0.00		
28	5.40	5.40	36.50	150.35	139.90	128.90	80.33	21.00	8.00	3.40	0.00	0.00		
29	5.80	5.40	35.90	133.85	180.20	124.00	83.30	22.50	7.40	3.20		0.30		
30	6.00	5.20	32.25	100.50	201.20	126.70	85.90	22.25	7.20	3.20		0.50		
31		5.00		83.72	286.10		107.00		7.00	3.00		0.50		
Total	145.40	178.20	525.65	1769.27	6089.45	9062.25	4401.73	1117.67	521.60	149.00	34.00	1.30	23995.52	CMSDAY
Mean	4.85	5.75	17.52	57.07	196.43	302.08	141.99	37.26	16.83	4.81	1.21	0.04	65.74	CMS
Max	6.00	6.20	52.13	150.35	509.00	461.00	270.10	107.00	22.00	6.80	2.80	0.50	509.00	CMS
Min	4.00	5.00	3.00	17.50	68.25	121.00	52.78	20.25	7.00	3.00	0.00	0.00	0.00	CMS
Runoff	12.56	15.40	45.42	152.87	526.13	782.98	380.31	96.57	45.07	12.87	2.94	0.11	2073.21	MCM

Momentary Peak 511.00 CMS, at 8.73 m. (MSL.), at 09.00 Hours, on Aug 9, 2014

Runoff Yield 8.85 Liters/Second/Square KM. Momentary Peak Yield 68.822 Liters/Second/Square KM.

WATER YEAR : 2014

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.

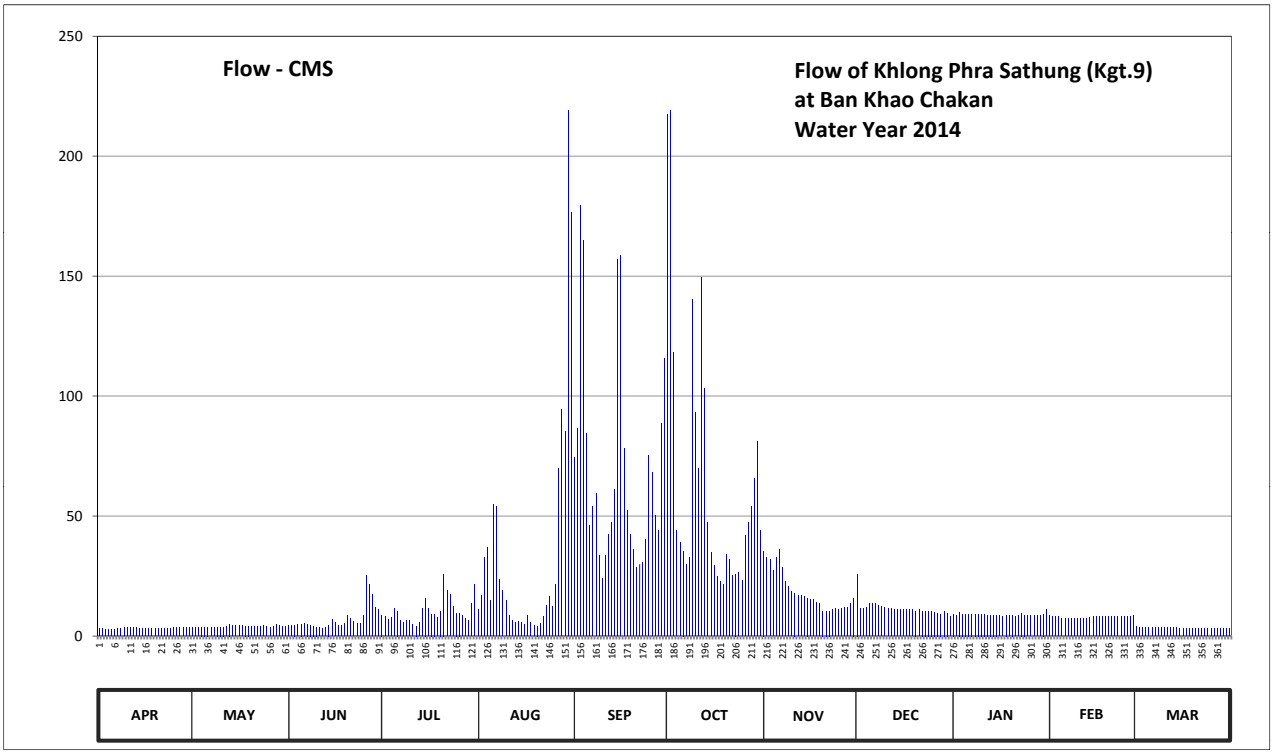
Ban Khao Chakan **Amphoe** Khao Chakan **Changwat** Sa Kaeo

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 Flot	-
Rated by Current Meter	1972 - 1987 , 1989 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 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.15	43.17	43.22	43.37	43.42	44.34	46.34	43.85	43.71	43.38	43.36	43.20	
2	43.15	43.17	43.22	43.35	43.54	44.46	46.36	43.81	43.43	43.36	43.35	43.18	
3	43.14	43.18	43.23	43.32	43.81	45.75	44.74	43.80	43.43	43.40	43.35	43.18	
4	43.14	43.19	43.24	43.34	43.87	45.40	43.97	43.73	43.44	43.38	43.35	43.18	
5	43.14	43.19	43.25	43.43	43.50	44.44	43.90	43.81	43.47	43.38	43.33	43.18	
6	43.14	43.19	43.26	43.41	44.12	44.00	43.85	43.86	43.47	43.38	43.33	43.18	
7	43.15	43.18	43.25	43.31	44.11	44.11	43.77	43.75	43.47	43.38	43.33	43.18	
8	43.15	43.18	43.23	43.28	43.67	44.17	43.81	43.65	43.46	43.38	43.33	43.18	
9	43.17	43.19	43.21	43.31	43.58	43.82	44.91	43.61	43.45	43.38	43.33	43.18	
10	43.17	43.19	43.19	43.31	43.50	43.68	44.52	43.57	43.44	43.38	43.33	43.18	
11	43.17	43.19	43.17	43.24	43.36	43.82	44.29	43.56	43.43	43.38	43.33	43.18	
12	43.17	43.20	43.16	43.21	43.31	43.95	44.97	43.54	43.43	43.37	43.33	43.18	
13	43.17	43.25	43.18	43.29	43.29	44.02	44.61	43.54	43.42	43.37	43.33	43.18	
14	43.16	43.22	43.23	43.43	43.30	44.19	44.02	43.53	43.42	43.37	43.34	43.18	
15	43.16	43.22	43.32	43.52	43.29	45.14	43.84	43.52	43.42	43.37	43.35	43.16	
16	43.16	43.22	43.29	43.43	43.24	45.19	43.76	43.51	43.42	43.36	43.35	43.16	
17	43.16	43.22	43.22	43.38	43.36	44.38	43.69	43.51	43.42	43.35	43.35	43.16	
18	43.16	43.21	43.22	43.38	43.29	44.09	43.65	43.48	43.42	43.37	43.35	43.16	
19	43.15	43.21	43.27	43.34	43.22	43.95	43.63	43.47	43.42	43.36	43.35	43.16	
20	43.15	43.20	43.36	43.41	43.21	43.86	43.83	43.41	43.41	43.37	43.35	43.16	
21	43.15	43.20	43.33	43.71	43.27	43.75	43.80	43.41	43.42	43.35	43.35	43.16	
22	43.16	43.20	43.30	43.58	43.35	43.77	43.70	43.41	43.41	43.36	43.35	43.15	
23	43.16	43.20	43.27	43.55	43.46	43.78	43.71	43.42	43.41	43.39	43.35	43.15	
24	43.16	43.22	43.27	43.45	43.53	43.92	43.72	43.43	43.41	43.37	43.35	43.15	
25	43.17	43.20	43.36	43.39	43.45	44.35	43.66	43.42	43.41	43.36	43.35	43.16	
26	43.17	43.17	43.70	43.39	43.63	44.27	43.94	43.43	43.40	43.36	43.35	43.16	
27	43.17	43.20	43.63	43.36	44.29	44.06	44.02	43.44	43.39	43.36	43.35	43.16	
28	43.17	43.24	43.55	43.33	44.53	43.97	44.11	43.44	43.38	43.36	43.36	43.16	
29	43.17	43.22	43.44	43.31	44.45	44.48	44.24	43.47	43.41	43.36		43.16	
30	43.17	43.20	43.42	43.47	46.36	44.72	44.41	43.52	43.39	43.38		43.15	
31		43.20		43.63	45.69		43.97		43.35	43.42		43.16	
Mean	43.16	43.20	43.30	43.39	43.74	44.26	44.19	43.56	43.43	43.37	43.34	43.17	
Max	43.17	43.25	43.70	43.71	46.36	45.75	46.36	43.86	43.71	43.42	43.36	43.20	46.36
Min	43.14	43.17	43.16	43.21	43.21	43.68	43.63	43.41	43.35	43.35	43.33	43.15	43.14

Annual Max Momentary Gage Height	47.50	m. (MSL.) ,	at 24.00 Hours, on Oct 9, 2014		
Zero Gage at Bottom Elevation	39.57	m. (MSL.) ,	River Bed	38.33	m. (MSL.)
Left Bank Elevation	49.92	m. (MSL.) ,			
Right Bank Elevation	50.59	m. (MSL.) ,	Drainage Area	2264	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.00	3.40	4.40	8.80	10.96	74.60	217.20	35.50	25.88	9.20	8.40	4.00		
2	3.00	3.40	4.40	8.00	16.88	86.60	218.80	32.70	11.44	8.40	8.00	3.60		
3	2.80	3.60	4.60	6.80	32.70	179.50	118.20	32.00	11.44	10.00	8.00	3.60		
4	2.80	3.80	4.80	7.60	36.90	165.00	43.90	27.24	11.92	9.20	8.00	3.60		
5	2.80	3.80	5.00	11.44	14.80	84.40	39.00	32.70	13.36	9.20	7.20	3.60		
6	2.80	3.80	5.20	10.48	54.80	46.00	35.50	36.20	13.36	9.20	7.20	3.60		
7	3.00	3.60	5.00	6.40	53.90	53.90	29.96	28.60	13.36	9.20	7.20	3.60		
8	3.00	3.60	4.60	5.60	23.64	59.30	32.70	22.60	12.88	9.20	7.20	3.60		
9	3.40	3.80	4.20	6.40	18.96	33.40	140.50	20.52	12.40	9.20	7.20	3.60		
10	3.40	3.80	3.80	6.40	14.80	24.16	93.20	18.44	11.92	9.20	7.20	3.60		
11	3.40	3.80	3.40	4.80	8.40	33.40	70.10	17.92	11.44	9.20	7.20	3.60		
12	3.40	4.00	3.20	4.20	6.40	42.50	149.50	16.88	11.44	8.80	7.20	3.60		
13	3.40	5.00	3.60	5.80	5.80	47.40	103.10	16.88	10.96	8.80	7.20	3.60		
14	3.20	4.40	4.60	11.44	6.00	61.10	47.40	16.36	10.96	8.80	7.60	3.60		
15	3.20	4.40	6.80	15.84	5.80	157.20	34.80	15.84	10.96	8.80	8.00	3.20		
16	3.20	4.40	5.80	11.44	4.80	158.70	29.28	15.32	10.96	8.40	8.00	3.20		
17	3.20	4.40	4.40	9.20	8.40	78.20	24.68	15.32	10.96	8.00	8.00	3.20		
18	3.20	4.20	4.40	9.20	5.80	52.30	22.60	13.84	10.96	8.80	8.00	3.20		
19	3.00	4.20	5.40	7.60	4.40	42.50	21.56	13.36	10.96	8.40	8.00	3.20		
20	3.00	4.00	8.40	10.48	4.20	36.20	34.10	10.48	10.48	8.80	8.00	3.20		
21	3.00	4.00	7.20	25.88	5.40	28.60	32.00	10.48	10.96	8.00	8.00	3.20		
22	3.20	4.00	6.00	18.96	8.00	29.96	25.20	10.48	10.48	8.40	8.00	3.00		
23	3.20	4.00	5.40	17.40	12.88	30.64	25.88	10.96	10.48	9.60	8.00	3.00		
24	3.20	4.40	5.40	12.40	16.36	40.40	26.56	11.44	10.48	8.80	8.00	3.00		
25	3.40	4.00	8.40	9.60	12.40	75.50	23.12	10.96	10.48	8.40	8.00	3.20		
26	3.40	3.40	25.20	9.60	21.56	68.30	41.80	11.44	10.00	8.40	8.00	3.20		
27	3.40	4.00	21.56	8.40	70.10	50.20	47.40	11.92	9.60	8.40	8.00	3.20		
28	3.40	4.80	17.40	7.20	94.30	43.90	53.90	11.92	9.20	8.40	8.40	3.20		
29	3.40	4.40	11.92	6.40	85.50	88.80	65.60	13.36	10.48	8.40		3.20		
30	3.40	4.00	10.96	13.36	218.80	115.60	81.10	15.84	9.60	9.20		3.00		
31		4.00		21.56	176.60		43.90		8.00	10.96		3.20		
Total	95.20	124.40	215.44	318.68	1060.24	2088.26	1972.54	557.50	357.80	275.76	217.20	104.40	7387.42	CMSDAY
Mean	3.17	4.01	7.18	10.28	34.20	69.61	63.63	18.58	11.54	8.90	7.76	3.37	20.24	CMS
Max	3.40	5.00	25.20	25.88	218.80	179.50	218.80	36.20	25.88	10.96	8.40	4.00	218.80	CMS
Min	2.80	3.40	3.20	4.20	4.20	24.16	21.56	10.48	8.00	8.00	7.20	3.00	2.80	CMS
Runoff	8.23	10.75	18.61	27.53	91.61	180.43	170.43	48.17	30.91	23.83	18.77	9.02	638.27	MCM

Momentary Peak 370.00 CMS, at 47.50 m. (MSL.), at 24.00 Hours, on Oct 9, 2014

Runoff Yield 8.94 Liters/Second/Square KM. Momentary Peak Yield 163.428 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng , Sa Kaeo (Kgt.12)

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

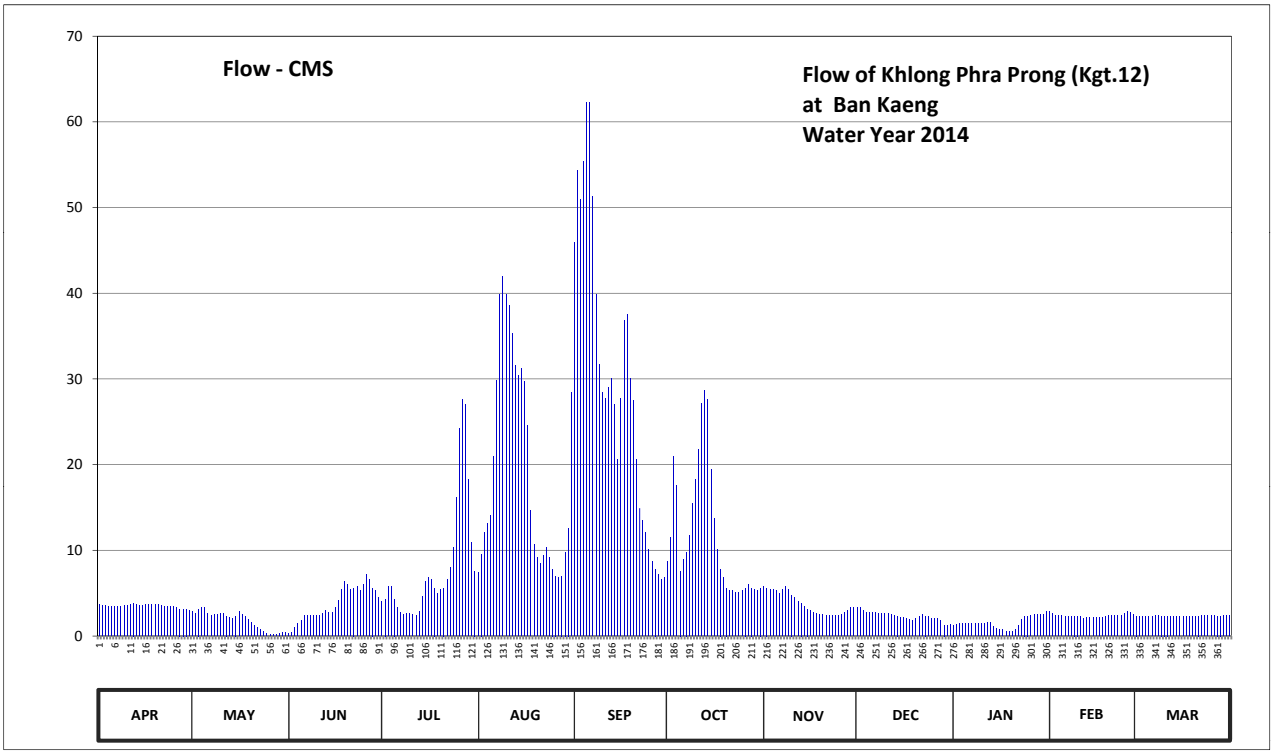
Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	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 Flot	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.28	16.22	15.90	16.30	16.49	18.56	16.55	16.41	16.25	16.04	16.22	16.17	
2	16.27	16.20	15.92	16.32	16.59	19.04	16.66	16.40	16.25	16.05	16.20	16.16	
3	16.27	16.24	16.00	16.41	16.68	18.85	16.95	16.39	16.23	16.06	16.18	16.16	
4	16.26	16.25	16.06	16.41	16.72	19.10	16.86	16.39	16.21	16.07	16.18	16.16	
5	16.26	16.25	16.11	16.32	16.75	19.46	16.50	16.38	16.21	16.07	16.18	16.16	
6	16.26	16.20	16.18	16.25	16.95	19.46	16.56	16.36	16.21	16.07	16.16	16.16	
7	16.26	16.18	16.18	16.21	17.39	18.87	16.60	16.39	16.21	16.07	16.16	16.18	
8	16.26	16.19	16.18	16.19	18.15	18.15	16.67	16.41	16.20	16.07	16.16	16.18	
9	16.27	16.19	16.18	16.20	18.30	17.54	16.80	16.39	16.20	16.06	16.17	16.17	
10	16.27	16.20	16.18	16.20	18.15	17.24	16.88	16.35	16.20	16.06	16.17	16.17	
11	16.28	16.20	16.18	16.19	18.06	17.17	16.97	16.33	16.20	16.06	16.16	16.17	
12	16.29	16.17	16.20	16.18	17.82	17.30	17.12	16.30	16.19	16.08	16.14	16.16	
13	16.28	16.15	16.23	16.22	17.53	17.41	17.27	16.29	16.18	16.08	16.15	16.16	
14	16.27	16.14	16.21	16.34	17.44	17.11	17.16	16.26	16.17	16.02	16.15	16.16	
15	16.27	16.17	16.21	16.44	17.50	16.94	16.91	16.24	16.15	15.98	16.15	16.16	
16	16.28	16.22	16.25	16.46	17.37	17.17	16.74	16.23	16.15	15.96	16.15	16.16	
17	16.28	16.19	16.31	16.45	17.04	17.93	16.61	16.21	16.14	15.96	16.15	16.16	
18	16.28	16.16	16.39	16.40	16.77	17.98	16.51	16.20	16.12	15.94	16.15	16.16	
19	16.28	16.13	16.44	16.36	16.63	17.41	16.46	16.19	16.11	15.94	16.16	16.16	
20	16.28	16.08	16.42	16.39	16.57	17.15	16.40	16.19	16.14	15.94	16.18	16.16	
21	16.27	16.03	16.39	16.40	16.54	16.94	16.38	16.18	16.16	15.96	16.18	16.17	
22	16.26	16.00	16.40	16.45	16.58	16.78	16.38	16.18	16.19	16.03	16.18	16.18	
23	16.26	15.96	16.41	16.52	16.62	16.73	16.37	16.18	16.17	16.12	16.18	16.18	
24	16.26	15.93	16.38	16.62	16.57	16.68	16.37	16.18	16.16	16.17	16.18	16.18	
25	16.26	15.89	16.42	16.82	16.51	16.61	16.38	16.18	16.14	16.17	16.20	16.18	
26	16.25	15.87	16.48	17.03	16.47	16.55	16.40	16.19	16.14	16.18	16.22	16.18	
27	16.24	15.85	16.45	17.16	16.46	16.51	16.42	16.21	16.14	16.19	16.21	16.17	
28	16.24	15.86	16.40	17.10	16.47	16.48	16.40	16.23	16.11	16.19	16.19	16.17	
29	16.24	15.89	16.38	16.88	16.60	16.45	16.39	16.25	16.04	16.19		16.18	
30	16.23	15.91	16.33	16.64	16.70	16.46	16.38	16.25	16.03	16.19		16.18	
31		15.91		16.50	17.25		16.40		16.05	16.22		16.18	
Mean	16.27	16.09	16.26	16.46	17.02	17.53	16.63	16.28	16.16	16.07	16.17	16.17	
Max	16.29	16.25	16.48	17.16	18.30	19.46	17.27	16.41	16.25	16.22	16.22	16.18	19.46
Min	16.23	15.85	15.90	16.18	16.46	16.45	16.37	16.18	16.03	15.94	16.14	16.16	15.85

Annual Max Momentary Gage Height	19.58	m. (MSL.) ,	at 03.00 Hours, on Sep 6, 2014		
Zero Gage at Bottom Elevation	13.84	m. (MSL.) ,	River Bed	13.63	m. (MSL.)
Left Bank Elevation	23.48	m. (MSL.) ,			
Right Bank Elevation	21.97	m. (MSL.) ,	Drainage Area	1478	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.72	2.88	0.30	4.00	7.40	45.96	8.70	5.80	3.30	1.28	2.88	2.33		
2	3.58	2.60	0.44	4.32	9.58	54.32	11.48	5.60	3.30	1.35	2.60	2.24		
3	3.58	3.16	1.00	5.80	12.04	50.90	21.00	5.44	3.02	1.42	2.42	2.24		
4	3.44	3.30	1.42	5.80	13.18	55.40	17.60	5.44	2.74	1.49	2.42	2.24		
5	3.44	3.30	1.79	4.32	14.05	62.20	7.60	5.28	2.74	1.49	2.42	2.24		
6	3.44	2.60	2.42	3.30	21.00	62.20	8.92	4.96	2.74	1.49	2.24	2.24		
7	3.44	2.42	2.42	2.74	29.90	51.26	9.80	5.44	2.74	1.49	2.24	2.42		
8	3.44	2.51	2.42	2.51	39.90	39.90	11.76	5.80	2.60	1.49	2.24	2.42		
9	3.58	2.51	2.42	2.60	42.00	31.68	15.50	5.44	2.60	1.42	2.33	2.33		
10	3.58	2.60	2.42	2.60	39.90	28.40	18.30	4.80	2.60	1.42	2.33	2.33		
11	3.72	2.60	2.42	2.51	38.64	27.70	21.80	4.48	2.60	1.42	2.24	2.33		
12	3.86	2.33	2.60	2.42	35.28	29.00	27.20	4.00	2.51	1.56	2.06	2.24		
13	3.72	2.15	3.02	2.88	31.56	30.12	28.70	3.86	2.42	1.56	2.15	2.24		
14	3.58	2.06	2.74	4.64	30.48	27.10	27.60	3.44	2.33	1.14	2.15	2.24		
15	3.58	2.33	2.74	6.40	31.20	20.60	19.40	3.16	2.15	0.86	2.15	2.24		
16	3.72	2.88	3.30	6.80	29.70	27.70	13.76	3.02	2.15	0.72	2.15	2.24		
17	3.72	2.51	4.16	6.60	24.60	36.82	10.08	2.74	2.06	0.72	2.15	2.24		
18	3.72	2.24	5.44	5.60	14.63	37.52	7.82	2.60	1.88	0.58	2.15	2.24		
19	3.72	1.97	6.40	4.96	10.64	30.12	6.80	2.51	1.79	0.58	2.24	2.24		
20	3.72	1.56	6.00	5.44	9.14	27.50	5.60	2.51	2.06	0.58	2.42	2.24		
21	3.58	1.21	5.44	5.60	8.48	20.60	5.28	2.42	2.24	0.72	2.42	2.33		
22	3.44	1.00	5.60	6.60	9.36	14.92	5.28	2.42	2.51	1.21	2.42	2.42		
23	3.44	0.72	5.80	8.04	10.36	13.47	5.12	2.42	2.33	1.88	2.42	2.42		
24	3.44	0.51	5.28	10.36	9.14	12.04	5.12	2.42	2.24	2.33	2.42	2.42		
25	3.44	0.27	6.00	16.20	7.82	10.08	5.28	2.42	2.06	2.33	2.60	2.42		
26	3.30	0.21	7.20	24.20	7.00	8.70	5.60	2.51	2.06	2.42	2.88	2.42		
27	3.16	0.15	6.60	27.60	6.80	7.82	6.00	2.74	2.06	2.51	2.74	2.33		
28	3.16	0.18	5.60	27.00	7.00	7.20	5.60	3.02	1.79	2.51	2.51	2.33		
29	3.16	0.27	5.28	18.30	9.80	6.60	5.44	3.30	1.28	2.51		2.42		
30	3.02	0.37	4.48	10.92	12.60	6.80	5.28	3.30	1.21	2.51		2.42		
31		0.37		7.60	28.50		5.60		1.35	2.88		2.42		
Total	105.44	55.77	113.15	248.66	601.68	884.63	359.02	113.29	71.46	47.87	66.39	71.87	2739.23	CMSDAY
Mean	3.51	1.80	3.77	8.02	19.41	29.49	11.58	3.78	2.31	1.54	2.37	2.32	7.50	CMS
Max	3.86	3.30	7.20	27.60	42.00	62.20	28.70	5.80	3.30	2.88	2.88	2.42	62.20	CMS
Min	3.02	0.15	0.30	2.42	6.80	6.60	5.12	2.42	1.21	0.58	2.06	2.24	0.15	CMS
Runoff	9.11	4.82	9.78	21.48	51.99	76.43	31.02	9.79	6.17	4.14	5.74	6.21	236.67	MCM

Momentary Peak 64.60 CMS, at 19.58 m. (MSL.), at 03.00 Hours, on Sep 6, 2014

Runoff Yield 5.08 Liters/Second/Square KM. Momentary Peak Yield 43.696 Liters/Second/Square KM.

WATER YEAR : 2014

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

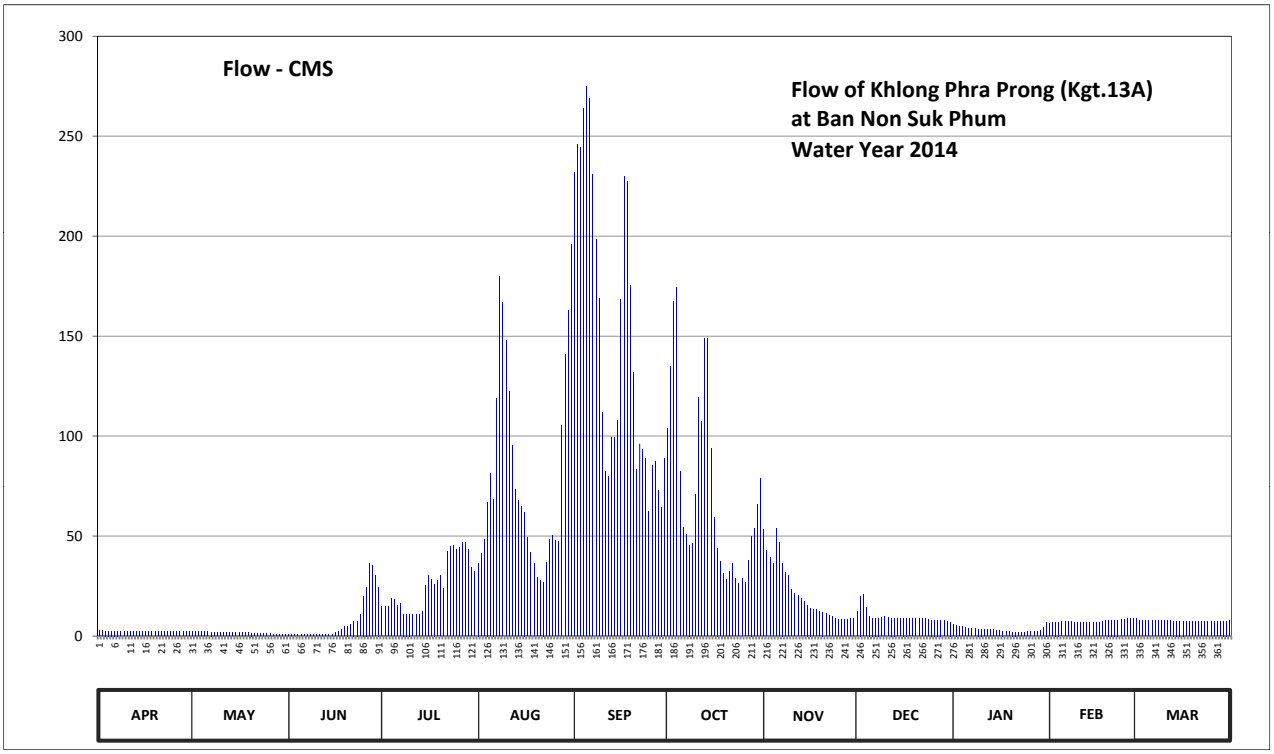
Location : on left bank about 21 kilometers upstream from station Kgt.13

	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	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the top staff gage.	**Elevation**	+16.168 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
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 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.40	5.29	4.90	6.83	8.16	13.39	10.50	8.86	6.60	5.99	6.05	6.26	
2	5.40	5.28	4.90	6.85	8.37	13.67	11.30	8.45	7.23	5.92	6.06	6.19	
3	5.39	5.28	4.90	6.86	8.66	13.64	12.05	8.29	7.28	5.80	6.10	6.19	
4	5.39	5.27	4.90	7.16	9.36	14.02	12.20	8.14	6.80	5.79	6.10	6.19	
5	5.39	5.27	4.90	7.12	9.82	14.23	9.85	8.87	6.40	5.74	6.11	6.18	
6	5.38	5.26	4.91	6.90	9.41	14.11	8.90	8.61	6.30	5.64	6.12	6.18	
7	5.38	5.25	4.91	6.99	10.89	13.37	8.76	8.16	6.30	5.62	6.12	6.17	
8	5.37	5.22	4.92	6.50	12.31	12.70	8.56	7.94	6.30	5.60	6.11	6.17	
9	5.36	5.21	4.92	6.50	12.04	12.08	8.58	7.84	6.32	5.58	6.09	6.16	
10	5.36	5.20	4.92	6.50	11.61	10.71	9.50	7.45	6.38	5.58	6.09	6.16	
11	5.36	5.20	4.92	6.49	10.98	9.85	10.90	7.32	6.34	5.56	6.09	6.16	
12	5.35	5.19	4.92	6.48	10.24	9.78	10.59	7.25	6.30	5.56	6.08	6.16	
13	5.35	5.19	4.92	6.48	9.57	10.36	11.63	7.16	6.30	5.55	6.08	6.15	
14	5.35	5.19	4.92	6.61	9.38	10.37	11.63	7.06	6.29	5.52	6.08	6.15	
15	5.35	5.19	4.94	7.57	9.28	10.60	10.21	6.91	6.29	5.48	6.08	6.15	
16	5.35	5.19	5.15	7.86	9.18	12.07	9.08	6.77	6.30	5.43	6.08	6.15	
17	5.34	5.19	5.33	7.75	8.70	13.35	8.50	6.71	6.30	5.38	6.08	6.14	
18	5.34	5.19	5.56	7.61	8.40	13.30	8.20	6.69	6.29	5.35	6.11	6.14	
19	5.34	5.16	5.81	7.71	8.15	12.22	7.90	6.61	6.29	5.33	6.16	6.14	
20	5.33	5.12	5.84	7.84	7.80	11.22	7.73	6.59	6.29	5.25	6.20	6.13	
21	5.33	5.11	5.95	7.48	7.70	9.89	7.95	6.51	6.29	5.24	6.20	6.13	
22	5.33	5.09	6.15	8.43	7.67	10.27	8.15	6.41	6.29	5.21	6.20	6.12	
23	5.32	5.07	6.15	8.53	8.18	10.18	7.76	6.39	6.27	5.18	6.20	6.12	
24	5.32	5.06	6.47	8.55	8.66	10.05	7.62	6.26	6.23	5.19	6.21	6.12	
25	5.31	5.05	7.23	8.46	8.75	9.20	7.76	6.25	6.20	5.26	6.25	6.12	
26	5.31	5.02	7.53	8.52	8.65	9.95	7.65	6.25	6.20	5.30	6.28	6.12	
27	5.30	4.99	8.15	8.61	8.63	10.01	8.22	6.25	6.20	5.30	6.29	6.12	
28	5.30	4.98	8.10	8.61	10.53	9.55	8.73	6.25	6.20	5.33	6.29	6.12	
29	5.29	4.96	7.85	8.47	11.45	9.27	8.87	6.26	6.19	5.48		6.15	
30	5.29	4.93	7.53	8.06	11.95	10.05	9.31	6.29	6.14	5.70		6.15	
31		4.90		7.95	12.64		9.75		6.10	6.10		6.16	
Mean	5.35	5.15	5.75	7.49	9.58	11.45	9.30	7.16	6.36	5.51	6.14	6.15	
Max	5.40	5.29	8.15	8.61	12.64	14.23	12.20	8.87	7.28	6.10	6.29	6.26	14.23
Min	5.29	4.90	4.90	6.48	7.67	9.20	7.62	6.25	6.10	5.18	6.05	6.12	4.90

Annual Max Momentary Gage Height	14.25	m. (MSL.) ,	at 12.00 Hours, on Sep 5, 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	4.90	m. (MSL.)
Left Bank Elevation	18.48	m. (MSL.) ,			
Right Bank Elevation	19.16	m. (MSL.) ,	Drainage Area	4906	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.60	2.16	0.75	14.63	36.52	231.72	104.00	53.36	12.10	5.94	6.50	8.60		
2	2.60	2.12	0.75	14.85	41.14	245.84	135.00	42.90	19.95	5.52	6.60	7.90		
3	2.56	2.12	0.75	14.96	48.16	244.28	167.40	39.38	20.70	4.80	7.00	7.90		
4	2.56	2.08	0.75	18.90	67.08	264.04	174.60	36.08	14.30	4.74	7.00	7.90		
5	2.56	2.08	0.75	18.30	81.24	274.96	82.20	53.62	10.00	4.44	7.10	7.80		
6	2.52	2.04	0.77	15.40	68.48	268.72	54.40	46.86	9.00	3.84	7.20	7.80		
7	2.52	2.00	0.77	16.39	118.82	230.76	50.76	36.52	9.00	3.72	7.20	7.70		
8	2.48	1.88	0.80	11.00	179.88	198.60	45.56	31.92	9.00	3.60	7.10	7.70		
9	2.44	1.84	0.80	11.00	166.92	168.84	46.08	30.12	9.20	3.48	6.90	7.60		
10	2.44	1.80	0.80	11.00	147.84	111.98	71.00	23.25	9.80	3.48	6.90	7.60		
11	2.44	1.80	0.80	10.90	122.24	82.20	119.20	21.30	9.40	3.36	6.90	7.60		
12	2.40	1.76	0.80	10.80	95.16	79.96	107.42	20.25	9.00	3.36	6.80	7.60		
13	2.40	1.76	0.80	10.80	73.24	99.24	148.72	18.90	9.00	3.30	6.80	7.50		
14	2.40	1.76	0.80	12.21	67.64	99.58	148.72	17.40	8.90	3.12	6.80	7.50		
15	2.40	1.76	0.85	25.26	64.84	107.80	94.14	15.51	8.90	2.92	6.80	7.50		
16	2.40	1.76	1.60	30.48	62.04	168.36	59.24	13.97	9.00	2.72	6.80	7.50		
17	2.36	1.76	2.32	28.50	49.20	229.80	44.00	13.31	9.00	2.52	6.80	7.40		
18	2.36	1.76	3.36	25.98	41.80	227.40	37.40	13.09	8.90	2.40	7.10	7.40		
19	2.36	1.64	4.86	27.78	36.30	175.56	31.20	12.21	8.90	2.32	7.60	7.40		
20	2.32	1.48	5.04	30.12	29.40	131.80	28.14	11.99	8.90	2.00	8.00	7.30		
21	2.32	1.44	5.70	23.70	27.60	83.48	32.10	11.11	8.90	1.96	8.00	7.30		
22	2.32	1.36	7.50	42.46	27.06	96.18	36.30	10.10	8.90	1.84	8.00	7.20		
23	2.28	1.28	7.50	44.78	36.96	93.12	28.68	9.90	8.70	1.72	8.00	7.20		
24	2.28	1.24	10.70	45.30	48.16	88.70	26.16	8.60	8.30	1.76	8.10	7.20		
25	2.24	1.20	19.95	43.12	50.50	62.60	28.68	8.50	8.00	2.04	8.50	7.20		
26	2.24	1.08	24.54	44.52	47.90	85.40	26.70	8.50	8.00	2.20	8.80	7.20		
27	2.20	0.97	36.30	46.86	47.38	87.34	37.84	8.50	8.00	2.20	8.90	7.20		
28	2.20	0.95	35.20	46.86	105.14	72.60	49.98	8.50	8.00	2.32	8.90	7.20		
29	2.16	0.90	30.30	43.34	141.00	64.56	53.62	8.60	7.90	2.92		7.50		
30	2.16	0.82	24.54	34.32	162.80	88.70	65.68	8.90	7.40	4.20		7.50		
31		0.75		32.10	195.72		79.00		7.00	7.00		7.60		
Total	71.52	49.35	231.15	806.62	2488.16	4464.12	2213.92	643.15	302.05	101.74	207.10	233.50	11812.38	CMSDAY
Mean	2.38	1.59	7.71	26.02	80.26	148.80	71.42	21.44	9.74	3.28	7.40	7.53	32.36	CMS
Max	2.60	2.16	36.30	46.86	195.72	274.96	174.60	53.62	20.70	7.00	8.90	8.60	274.96	CMS
Min	2.16	0.75	0.75	10.80	27.06	62.60	26.16	8.50	7.00	1.72	6.50	7.20	0.75	CMS
Runoff	6.18	4.26	19.97	69.69	214.98	385.70	191.28	55.57	26.10	8.79	17.89	20.17	1020.59	MCM

Momentary Peak 276.00 CMS, at 14.25 m. (MSL.), at 12.00 Hours, on Sep 5, 2014

Runoff Yield 6.60 Liters/Second/Square KM. Momentary Peak Yield 56.258 Liters/Second/Square KM.

WATER YEAR : 2015

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.

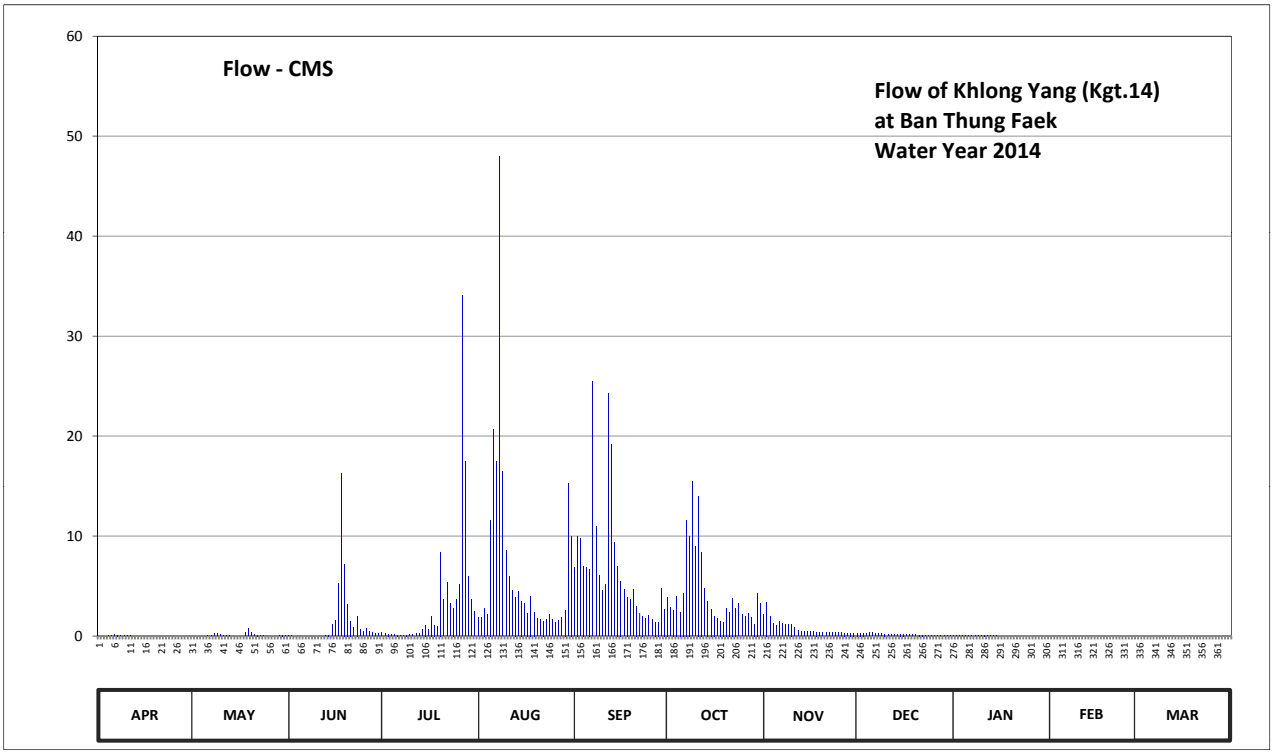
Ban Thung Faek **Amphoe** Na Di **Changwat** Prachin Buri

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 Flot	-
Rated by Current Meter	1966 - 1981 , 1986 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.20	35.24	35.35	35.66	36.12	36.59	36.36	36.18	35.60	35.34	35.22	35.13	
2	35.23	35.23	35.31	35.58	36.13	36.75	36.26	36.31	35.60	35.33	35.21	35.15	
3	35.29	35.21	35.27	35.51	36.25	36.74	36.23	36.14	35.60	35.33	35.19	35.16	
4	35.31	35.19	35.24	35.46	36.17	36.60	36.37	36.01	35.59	35.34	35.18	35.17	
5	35.37	35.18	35.22	35.43	36.83	36.59	36.21	35.97	35.63	35.33	35.17	35.17	
6	35.45	35.35	35.20	35.40	37.19	36.58	36.40	36.05	35.61	35.34	35.17	35.16	
7	35.41	35.38	35.18	35.39	37.08	37.35	36.83	36.02	35.59	35.33	35.18	35.15	
8	35.36	35.53	35.16	35.37	37.92	36.80	36.75	35.99	35.56	35.33	35.18	35.13	
9	35.34	35.57	35.14	35.40	37.04	36.54	37.00	35.99	35.53	35.32	35.17	35.12	
10	35.33	35.48	35.14	35.42	36.68	36.42	36.70	36.00	35.50	35.34	35.17	35.12	
11	35.32	35.39	35.16	35.44	36.53	36.47	36.94	35.93	35.48	35.40	35.17	35.10	
12	35.30	35.33	35.28	35.57	36.42	37.31	36.67	35.84	35.48	35.39	35.17	35.10	
13	35.28	35.31	35.36	35.57	36.36	37.14	36.44	35.79	35.47	35.37	35.16	35.09	
14	35.26	35.28	35.41	35.87	36.41	36.72	36.32	35.74	35.48	35.35	35.17	35.08	
15	35.24	35.25	35.99	35.98	36.32	36.60	36.24	35.73	35.50	35.32	35.20	35.09	
16	35.23	35.22	36.07	35.88	36.30	36.50	36.15	35.72	35.51	35.30	35.22	35.09	
17	35.22	35.20	36.48	36.15	36.20	36.43	36.11	35.71	35.49	35.29	35.21	35.08	
18	35.22	35.66	37.03	35.98	36.37	36.36	36.06	35.69	35.47	35.28	35.19	35.08	
19	35.21	35.91	36.61	35.95	36.21	36.34	36.04	35.67	35.45	35.26	35.19	35.07	
20	35.21	35.64	36.29	36.67	36.11	36.43	36.25	35.65	35.43	35.25	35.20	35.06	
21	35.21	35.49	36.06	36.34	36.10	36.27	36.21	35.64	35.41	35.25	35.20	35.07	
22	35.21	35.41	35.93	36.49	36.06	36.20	36.35	35.63	35.40	35.25	35.20	35.06	
23	35.21	35.35	36.15	36.30	36.10	36.15	36.25	35.63	35.39	35.24	35.18	35.05	
24	35.20	35.31	35.86	36.25	36.17	36.11	36.30	35.62	35.39	35.24	35.17	35.05	
25	35.19	35.27	35.76	36.34	36.09	36.16	36.18	35.62	35.38	35.23	35.16	35.04	
26	35.17	35.26	35.91	36.47	36.03	36.10	36.14	35.61	35.38	35.23	35.15	35.05	
27	35.17	35.28	35.74	37.59	36.07	36.04	36.19	35.60	35.37	35.23	35.14	35.08	
28	35.17	35.30	35.63	37.08	36.12	36.04	36.13	35.57	35.37	35.23	35.13	35.14	
29	35.16	35.32	35.57	36.53	36.23	36.44	36.00	35.60	35.36	35.23		35.13	
30	35.16	35.40	35.56	36.34	36.99	36.24	36.40	35.60	35.35	35.23		35.12	
31		35.38		36.22	36.75		36.30		35.35	35.23		35.10	
Mean	35.25	35.37	35.67	35.99	36.43	36.50	36.35	35.81	35.47	35.29	35.18	35.10	
Max	35.45	35.91	37.03	37.59	37.92	37.35	37.00	36.31	35.63	35.40	35.22	35.17	37.92
Min	35.16	35.18	35.14	35.37	36.03	36.04	36.00	35.57	35.35	35.23	35.13	35.04	35.04

Annual Max Momentary Gage Height	38.24	m. (MSL.) ,	at 18.00 Hours, on Aug 8, 2014		
Zero Gage at Bottom Elevation	34.60	m. (MSL.) ,	River Bed	32.21	m. (MSL.)
Left Bank Elevation	41.63	m. (MSL.) ,			
Right Bank Elevation	42.06	m. (MSL.) ,	Drainage Area	354	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.05	0.36	1.82	6.85	3.90	2.18	0.30	0.04	0.00	0.00		
2	0.00	0.00	0.01	0.28	1.88	10.00	2.90	3.40	0.30	0.03	0.00	0.00		
3	0.00	0.00	0.00	0.21	2.80	9.80	2.60	1.94	0.30	0.03	0.00	0.00		
4	0.01	0.00	0.00	0.16	2.12	7.00	4.00	1.25	0.29	0.04	0.00	0.00		
5	0.07	0.00	0.00	0.13	11.60	6.85	2.40	1.05	0.33	0.03	0.00	0.00		
6	0.15	0.05	0.00	0.10	20.70	6.70	4.30	1.45	0.31	0.04	0.00	0.00		
7	0.11	0.08	0.00	0.09	17.50	25.50	11.60	1.30	0.29	0.03	0.00	0.00		
8	0.06	0.23	0.00	0.07	48.00	11.00	10.00	1.15	0.26	0.03	0.00	0.00		
9	0.04	0.27	0.00	0.10	16.50	6.10	15.50	1.15	0.23	0.02	0.00	0.00		
10	0.03	0.18	0.00	0.12	8.60	4.54	9.00	1.20	0.20	0.04	0.00	0.00		
11	0.02	0.09	0.00	0.14	5.95	5.14	14.00	0.85	0.18	0.10	0.00	0.00		
12	0.00	0.03	0.00	0.27	4.54	24.30	8.40	0.58	0.18	0.09	0.00	0.00		
13	0.00	0.01	0.06	0.27	3.90	19.20	4.78	0.49	0.17	0.07	0.00	0.00		
14	0.00	0.00	0.11	0.64	4.42	9.40	3.50	0.44	0.18	0.05	0.00	0.00		
15	0.00	0.00	1.15	1.10	3.50	7.00	2.70	0.43	0.20	0.02	0.00	0.00		
16	0.00	0.00	1.55	0.66	3.30	5.50	2.00	0.42	0.21	0.00	0.00	0.00		
17	0.00	0.00	5.26	2.00	2.30	4.66	1.76	0.41	0.19	0.00	0.00	0.00		
18	0.00	0.36	16.25	1.10	4.00	3.90	1.50	0.39	0.17	0.00	0.00	0.00		
19	0.00	0.75	7.20	0.95	2.40	3.70	1.40	0.37	0.15	0.00	0.00	0.00		
20	0.00	0.34	3.20	8.40	1.76	4.66	2.80	0.35	0.13	0.00	0.00	0.00		
21	0.00	0.19	1.50	3.70	1.70	3.00	2.40	0.34	0.11	0.00	0.00	0.00		
22	0.00	0.11	0.85	5.38	1.50	2.30	3.80	0.33	0.10	0.00	0.00	0.00		
23	0.00	0.05	2.00	3.30	1.70	2.00	2.80	0.33	0.09	0.00	0.00	0.00		
24	0.00	0.01	0.62	2.80	2.12	1.76	3.30	0.32	0.09	0.00	0.00	0.00		
25	0.00	0.00	0.46	3.70	1.65	2.06	2.18	0.32	0.08	0.00	0.00	0.00		
26	0.00	0.00	0.75	5.14	1.35	1.70	1.94	0.31	0.08	0.00	0.00	0.00		
27	0.00	0.00	0.44	34.10	1.55	1.40	2.24	0.30	0.07	0.00	0.00	0.00		
28	0.00	0.00	0.33	17.50	1.82	1.40	1.88	0.27	0.07	0.00	0.00	0.00		
29	0.00	0.02	0.27	5.95	2.60	4.78	1.20	0.30	0.06	0.00		0.00		
30	0.00	0.10	0.26	3.70	15.25	2.70	4.30	0.30	0.05	0.00		0.00		
31		0.08		2.50	10.00		3.30		0.05	0.00		0.00		
Total	0.49	2.95	42.32	104.92	208.83	204.90	138.38	23.92	5.42	0.66	0.00	0.00	732.79	CMSDAY
Mean	0.02	0.10	1.41	3.38	6.74	6.83	4.46	0.80	0.17	0.02	0.00	0.00	2.01	CMS
Max	0.15	0.75	16.25	34.10	48.00	25.50	15.50	3.40	0.33	0.10	0.00	0.00	48.00	CMS
Min	0.00	0.00	0.00	0.07	1.35	1.40	1.20	0.27	0.05	0.00	0.00	0.00	0.00	CMS
Runoff	0.04	0.26	3.66	9.07	18.04	17.70	11.96	2.07	0.47	0.06	0.00	0.00	63.31	MCM

Momentary Peak 64.70 CMS, at 38.24 m. (MSL.), at 18.00 Hours, on Aug 8, 2014

Runoff Yield 5.67 Liters/Second/Square KM. Momentary Peak Yield 182.717 Liters/Second/Square KM.

WATER YEAR : 2014

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.

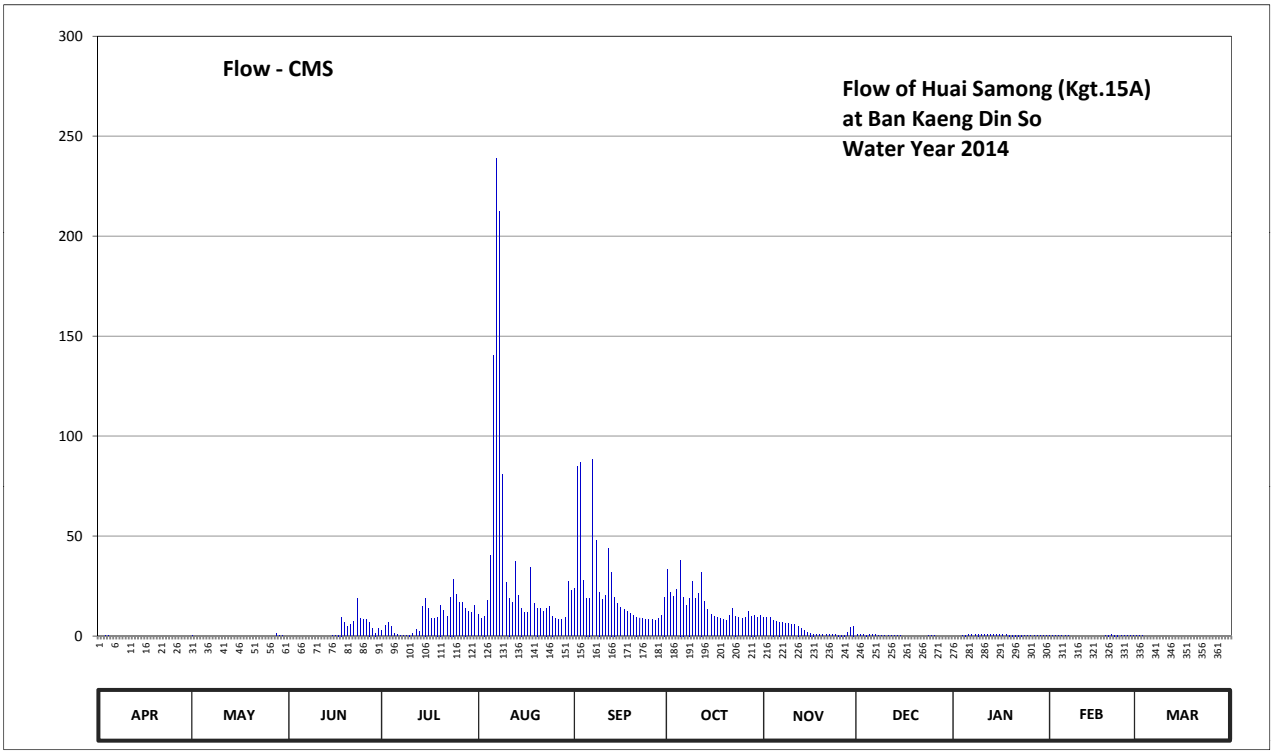
Ban Kaeng Din So **Amphoe** Na Di **Changwat** Prachin Buri

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 Flot	-
Rated by Current Meter	1968 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir.
	Stage-discharge relation defined by 15 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.61	14.90	14.74	15.33	15.72	16.04	16.22	15.65	15.18	14.30	14.88	14.85	
2	14.79	14.75	14.69	15.46	15.63	16.99	15.99	15.66	15.11	14.58	14.88	14.83	
3	14.91	14.68	14.66	15.53	15.69	17.04	15.95	15.65	15.06	14.75	14.88	14.81	
4	14.83	14.63	14.63	15.43	15.90	16.13	16.03	15.60	15.02	14.90	14.86	14.79	
5	14.78	14.60	14.60	15.22	16.33	15.93	16.30	15.57	15.04	15.01	14.86	14.77	
6	14.79	14.58	14.58	15.06	18.08	15.93	15.94	15.55	15.07	15.06	14.85	14.73	
7	14.75	14.58	14.56	14.98	19.40	17.07	15.83	15.54	15.04	15.10	14.84	14.69	
8	14.70	14.59	14.53	14.94	19.10	16.42	15.93	15.52	14.99	15.16	14.76	14.65	
9	14.69	14.59	14.49	14.91	16.88	16.00	16.12	15.51	14.95	15.20	14.62	14.61	
10	14.66	14.57	14.45	15.00	16.11	15.91	15.92	15.49	14.93	15.18	14.55	14.58	
11	14.64	14.55	14.42	15.21	15.93	15.96	15.98	15.49	14.90	15.16	14.48	14.55	
12	14.62	14.53	14.39	15.36	15.87	16.37	16.20	15.45	14.88	15.14	14.44	14.52	
13	14.61	14.51	14.38	15.32	16.29	16.20	15.89	15.39	14.85	15.12	14.47	14.49	
14	14.60	14.48	14.51	15.82	15.96	15.94	15.78	15.33	14.83	15.10	14.52	14.44	
15	14.60	14.46	14.83	15.93	15.80	15.86	15.72	15.29	14.81	15.08	14.60	14.40	
16	14.60	14.43	14.86	15.79	15.74	15.81	15.68	15.25	14.79	15.06	14.67	14.39	
17	14.59	14.40	15.01	15.64	15.74	15.78	15.66	15.20	14.75	15.05	14.73	14.37	
18	14.58	14.37	15.67	15.63	16.24	15.76	15.64	15.16	14.68	15.04	14.78	14.37	
19	14.57	14.35	15.53	15.67	15.86	15.73	15.61	15.09	14.63	15.03	14.86	14.37	
20	14.57	14.32	15.43	15.84	15.80	15.70	15.59	15.10	14.61	15.02	15.01	14.38	
21	14.57	14.29	15.49	15.77	15.79	15.67	15.70	15.09	14.59	15.01	15.07	14.38	
22	14.57	14.27	15.57	15.68	15.75	15.65	15.79	15.07	14.64	15.01	15.03	14.39	
23	14.56	14.24	15.92	15.94	15.80	15.63	15.69	15.05	14.73	15.00	15.00	14.39	
24	14.55	14.22	15.64	16.14	15.82	15.61	15.65	15.04	14.85	14.98	14.97	14.38	
25	14.53	14.20	15.61	15.97	15.69	15.62	15.63	15.03	14.97	14.96	14.95	14.38	
26	14.50	14.19	15.62	15.87	15.64	15.61	15.66	15.02	14.82	14.94	14.93	14.41	
27	14.47	14.28	15.55	15.87	15.61	15.58	15.75	15.02	14.50	14.93	14.91	14.47	
28	14.45	15.21	15.38	15.80	15.62	15.63	15.69	15.27	14.19	14.92	14.89	14.55	
29	14.46	14.90	15.25	15.76	15.65	15.70	15.71	15.41	13.91	14.91		14.60	
30	14.44	14.86	15.38	15.74	16.12	15.94	15.66	15.45	13.72	14.90		14.63	
31		14.79		15.83	16.02		15.70		13.90	14.89		14.65	
Mean	14.62	14.53	15.01	15.56	16.18	15.97	15.83	15.33	14.74	14.98	14.80	14.54	
Max	14.91	15.21	15.92	16.14	19.40	17.07	16.30	15.66	15.18	15.20	15.07	14.85	19.40
Min	14.44	14.19	14.38	14.91	15.61	15.58	15.59	15.02	13.72	14.30	14.44	14.37	13.72

Annual Max Momentary Gage Height	19.84	m. (MSL.) ,	at 06.00 Hours, on Aug 8, 2014		
Zero Gage at Bottom Elevation	12.80	m. (MSL.) ,	River Bed	12.10	m. (MSL.)
Left Bank Elevation	22.24	m. (MSL.) ,			
Right Bank Elevation	24.36	m. (MSL.) ,	Drainage Area	548	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.25	0.00	2.60	10.96	23.68	33.20	9.10	0.95	0.00	0.20	0.13		
2	0.00	0.00	0.00	5.20	8.66	85.02	21.58	9.32	0.77	0.00	0.20	0.07		
3	0.27	0.00	0.00	6.60	9.98	87.00	19.90	9.10	0.65	0.00	0.20	0.03		
4	0.07	0.00	0.00	4.60	17.80	27.94	23.26	8.00	0.55	0.25	0.15	0.00		
5	0.00	0.00	0.00	1.20	40.40	19.06	38.00	7.40	0.60	0.53	0.15	0.00		
6	0.00	0.00	0.00	0.65	140.60	19.06	19.48	7.00	0.67	0.65	0.13	0.00		
7	0.00	0.00	0.00	0.45	238.80	88.20	15.14	6.80	0.60	0.75	0.10	0.00		
8	0.00	0.00	0.00	0.35	212.10	47.60	19.06	6.40	0.47	0.90	0.00	0.00		
9	0.00	0.00	0.00	0.27	80.84	22.00	27.36	6.20	0.37	1.00	0.00	0.00		
10	0.00	0.00	0.00	0.50	26.78	18.22	18.64	5.80	0.33	0.95	0.00	0.00		
11	0.00	0.00	0.00	1.10	19.06	20.32	21.16	5.80	0.25	0.90	0.00	0.00		
12	0.00	0.00	0.00	3.20	16.66	43.60	32.00	5.00	0.20	0.85	0.00	0.00		
13	0.00	0.00	0.00	2.40	37.40	32.00	17.42	3.80	0.13	0.80	0.00	0.00		
14	0.00	0.00	0.00	14.76	20.32	19.48	13.24	2.60	0.07	0.75	0.00	0.00		
15	0.00	0.00	0.07	19.06	14.00	16.28	10.96	1.90	0.03	0.70	0.00	0.00		
16	0.00	0.00	0.15	13.62	11.72	14.38	9.76	1.50	0.00	0.65	0.00	0.00		
17	0.00	0.00	0.53	8.88	11.72	13.24	9.32	1.00	0.00	0.63	0.00	0.00		
18	0.00	0.00	9.54	8.66	34.40	12.48	8.88	0.90	0.00	0.60	0.00	0.00		
19	0.00	0.00	6.60	9.54	16.28	11.34	8.22	0.73	0.00	0.57	0.15	0.00		
20	0.00	0.00	4.60	15.52	14.00	10.20	7.80	0.75	0.00	0.55	0.53	0.00		
21	0.00	0.00	5.80	12.86	13.62	9.54	10.20	0.73	0.00	0.53	0.67	0.00		
22	0.00	0.00	7.40	9.76	12.10	9.10	13.62	0.67	0.00	0.53	0.57	0.00		
23	0.00	0.00	18.64	19.48	14.00	8.66	9.98	0.63	0.00	0.50	0.50	0.00		
24	0.00	0.00	8.88	28.52	14.76	8.22	9.10	0.60	0.13	0.45	0.43	0.00		
25	0.00	0.00	8.22	20.74	9.98	8.44	8.66	0.57	0.43	0.40	0.37	0.00		
26	0.00	0.00	8.44	16.66	8.88	8.22	9.32	0.55	0.05	0.35	0.33	0.00		
27	0.00	0.00	7.00	16.66	8.22	7.60	12.10	0.55	0.00	0.33	0.27	0.00		
28	0.00	1.10	3.60	14.00	8.44	8.66	9.98	1.70	0.00	0.30	0.23	0.00		
29	0.00	0.25	1.50	12.48	9.10	10.20	10.58	4.20	0.00	0.27		0.00		
30	0.00	0.15	3.60	11.72	27.36	19.48	9.32	5.00	0.00	0.25		0.00		
31		0.00		15.14	22.84		10.20		0.00	0.23		0.00		
Total	0.34	1.75	94.57	297.18	1131.78	729.22	487.44	114.30	7.25	16.17	5.18	0.23	2885.41	CMSDAY
Mean	0.01	0.06	3.15	9.59	36.51	24.31	15.72	3.81	0.23	0.52	0.18	0.01	7.91	CMS
Max	0.27	1.10	18.64	28.52	238.80	88.20	38.00	9.32	0.95	1.00	0.67	0.13	238.80	CMS
Min	0.00	0.00	0.00	0.27	8.22	7.60	7.80	0.55	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.03	0.15	8.17	25.68	97.79	63.01	42.12	9.88	0.63	1.40	0.45	0.02	249.30	MCM

Momentary Peak 280.88 CMS, at 19.84 m. (MSL.), at 06.00 Hours, on Aug 8, 2014

Runoff Yield 14.43 Liters/Second/Square KM. Momentary Peak Yield 512.555 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khwae Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

Lat 14 - 07 - 55 N Long 101 - 43 - 52 E

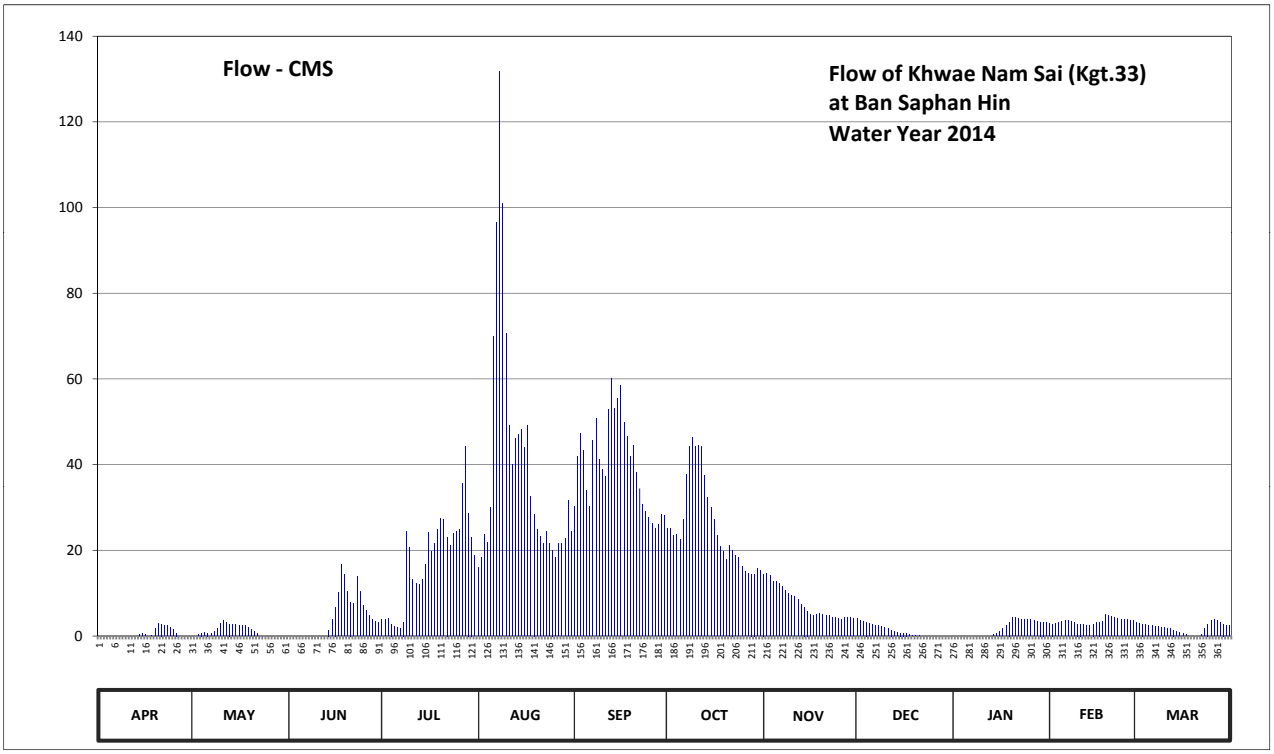
Location : on left bank at Ban Saphan Hin.

	Ban Saphan Hin	**Amphoe** Na Di	**Changwat** Prachin Buri
Drainge Area	617 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +10.598 m. (A.D.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.88	0.79	1.16	1.88	2.60	2.34	1.80	1.18	0.89	1.11	1.12	
2	0.67	0.90	0.74	1.17	2.00	3.11	2.34	1.81	1.15	0.88	1.10	1.11	
3	0.66	0.93	0.68	1.18	2.27	3.34	2.26	1.78	1.14	0.87	1.11	1.10	
4	0.65	0.95	0.75	1.10	2.18	3.17	2.27	1.70	1.13	0.87	1.12	1.09	
5	0.65	0.96	0.72	1.06	2.59	2.76	2.21	1.70	1.11	0.85	1.14	1.08	
6	0.64	0.95	0.70	1.04	4.27	2.60	2.44	1.67	1.09	0.80	1.15	1.07	
7	0.64	0.94	0.71	1.03	5.25	3.27	2.92	1.63	1.08	0.80	1.15	1.06	
8	0.71	0.97	0.70	1.13	6.50	3.49	3.21	1.58	1.07	0.81	1.14	1.06	
9	0.73	1.02	0.71	2.30	5.41	3.08	3.30	1.54	1.06	0.85	1.12	1.05	
10	0.75	1.11	0.73	2.12	4.29	2.97	3.21	1.51	1.04	0.87	1.10	1.04	
11	0.77	1.15	0.76	1.73	3.42	2.90	3.22	1.49	1.02	0.88	1.10	1.03	
12	0.82	1.12	0.81	1.68	3.03	3.58	3.21	1.45	1.00	0.88	1.09	1.02	
13	0.88	1.10	0.87	1.66	3.29	3.88	2.91	1.39	0.98	0.90	1.08	1.00	
14	0.93	1.09	1.00	1.73	3.33	3.59	2.69	1.35	0.96	0.92	1.08	0.98	
15	0.94	1.09	1.17	1.92	3.38	3.69	2.59	1.29	0.95	0.94	1.10	0.96	
16	0.93	1.07	1.35	2.29	3.20	3.82	2.45	1.24	0.95	0.97	1.12	0.94	
17	0.90	1.08	1.55	2.07	3.42	3.45	2.26	1.23	0.95	1.02	1.13	0.92	
18	0.91	1.07	1.92	2.16	2.70	3.31	2.13	1.24	0.93	1.07	1.14	0.90	
19	1.02	1.05	1.79	2.33	2.51	3.11	2.07	1.25	0.91	1.13	1.24	0.89	
20	1.11	1.01	1.57	2.46	2.33	3.22	1.98	1.24	0.91	1.20	1.23	0.88	
21	1.10	0.97	1.42	2.44	2.25	2.94	2.14	1.23	0.91	1.19	1.21	0.88	
22	1.08	0.94	1.40	2.24	2.16	2.78	2.09	1.22	0.90	1.18	1.20	0.93	
23	1.07	0.89	1.77	2.14	2.30	2.62	2.03	1.20	0.90	1.17	1.18	1.03	
24	1.05	0.83	1.56	2.28	2.16	2.54	2.00	1.19	0.90	1.17	1.16	1.10	
25	1.01	0.76	1.37	2.30	2.09	2.47	1.90	1.18	0.89	1.16	1.16	1.15	
26	0.95	0.72	1.30	2.33	2.00	2.40	1.83	1.17	0.89	1.16	1.16	1.16	
27	0.89	0.70	1.23	2.83	2.16	2.34	1.81	1.19	0.88	1.15	1.15	1.15	
28	0.85	0.73	1.17	3.21	2.17	2.39	1.80	1.20	0.88	1.14	1.15	1.12	
29	0.85	0.79	1.14	2.52	2.22	2.50	1.80	1.19	0.88	1.13		1.10	
30	0.83	0.80	1.12	2.24	2.66	2.49	1.87	1.18	0.87	1.13		1.08	
31		0.78		2.03	2.31		1.84		0.87	1.12		1.08	
Mean	0.86	0.95	1.12	1.93	2.96	3.01	2.36	1.39	0.98	1.00	1.14	1.03	
Max	1.11	1.15	1.92	3.21	6.50	3.88	3.30	1.81	1.18	1.20	1.24	1.16	6.50
Min	0.64	0.70	0.68	1.03	1.88	2.34	1.80	1.17	0.87	0.80	1.08	0.88	0.64

Annual Max Momentary Gage Height	7.00	m. (A.D.),	at 06.00 Hours, on Aug 8, 2014		
Zero Gage at Bottom Elevation	0.00	m. (A.D.),	River Bed	-0.85	m. (A.D.)
Left Bank Elevation	10.57	m. (A.D.),			
Right Bank Elevation	10.88	m. (A.D.),	Drainage Area	617	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	3.76	15.94	30.30	25.10	14.50	4.08	0.00	2.96	3.12		
2	0.00	0.00	0.00	3.92	18.30	42.03	25.10	14.68	3.60	0.00	2.80	2.96		
3	0.00	0.42	0.00	4.08	23.70	47.32	23.50	14.14	3.44	0.00	2.96	2.80		
4	0.00	0.70	0.00	2.80	21.90	43.41	23.70	12.70	3.28	0.00	3.12	2.66		
5	0.00	0.84	0.00	2.24	30.10	33.98	22.50	12.70	2.96	0.00	3.44	2.52		
6	0.00	0.70	0.00	1.96	69.99	30.30	27.10	12.19	2.66	0.00	3.60	2.38		
7	0.00	0.56	0.00	1.82	96.50	45.71	37.66	11.51	2.52	0.00	3.60	2.24		
8	0.00	0.98	0.00	3.28	131.80	50.77	44.33	10.66	2.38	0.00	3.44	2.24		
9	0.00	1.68	0.00	24.30	100.98	41.34	46.40	9.98	2.24	0.00	3.12	2.10		
10	0.00	2.96	0.00	20.70	70.53	38.81	44.33	9.47	1.96	0.00	2.80	1.96		
11	0.00	3.60	0.00	13.24	49.16	37.20	44.56	9.13	1.68	0.00	2.80	1.82		
12	0.00	3.12	0.00	12.36	40.19	52.84	44.33	8.45	1.40	0.00	2.66	1.68		
13	0.00	2.80	0.00	12.02	46.17	60.10	37.43	7.44	1.12	0.00	2.52	1.40		
14	0.42	2.66	1.40	13.24	47.09	53.07	32.37	6.80	0.84	0.28	2.52	1.12		
15	0.56	2.66	3.92	16.70	48.24	55.37	30.10	5.84	0.70	0.56	2.80	0.84		
16	0.42	2.38	6.80	24.10	44.10	58.60	27.30	5.04	0.70	0.98	3.12	0.56		
17	0.00	2.52	10.15	19.70	49.16	49.85	23.50	4.88	0.70	1.68	3.28	0.28		
18	0.14	2.38	16.70	21.50	32.60	46.63	20.90	5.04	0.42	2.38	3.44	0.00		
19	1.68	2.10	14.32	24.90	28.50	42.03	19.70	5.20	0.14	3.28	5.04	0.00		
20	2.96	1.54	10.49	27.50	24.90	44.56	17.90	5.04	0.14	4.40	4.88	0.00		
21	2.80	0.98	7.94	27.10	23.30	38.12	21.10	4.88	0.14	4.24	4.56	0.00		
22	2.52	0.56	7.60	23.10	21.50	34.44	20.10	4.72	0.00	4.08	4.40	0.42		
23	2.38	0.00	13.96	21.10	24.30	30.76	18.90	4.40	0.00	3.92	4.08	1.82		
24	2.10	0.00	10.32	23.90	21.50	29.10	18.30	4.24	0.00	3.92	3.76	2.80		
25	1.54	0.00	7.12	24.30	20.10	27.70	16.30	4.08	0.00	3.76	3.76	3.60		
26	0.70	0.00	6.00	24.90	18.30	26.30	15.04	3.92	0.00	3.76	3.76	3.76		
27	0.00	0.00	4.88	35.59	21.50	25.10	14.68	4.24	0.00	3.60	3.60	3.60		
28	0.00	0.00	3.92	44.33	21.70	26.10	14.50	4.40	0.00	3.44	3.60	3.12		
29	0.00	0.00	3.44	28.70	22.70	28.30	14.50	4.24	0.00	3.28		2.80		
30	0.00	0.00	3.12	23.10	31.68	28.10	15.76	4.08	0.00	3.28		2.52		
31		0.00		18.90	24.50		15.22		0.00	3.12		2.52		
Total	18.22	36.14	132.08	549.14	1240.93	1198.24	802.21	228.59	37.10	53.96	96.42	59.64	4452.67	CMSDAY
Mean	0.61	1.17	4.40	17.71	40.03	39.94	25.88	7.62	1.20	1.74	3.44	1.92	12.20	CMS
Max	2.96	3.60	16.70	44.33	131.80	60.10	46.40	14.68	4.08	4.40	5.04	3.76	131.80	CMS
Min	0.00	0.00	0.00	1.82	15.94	25.10	14.50	3.92	0.00	0.00	2.52	0.00	0.00	CMS
Runoff	1.57	3.12	11.41	47.45	107.22	103.53	69.31	19.75	3.21	4.66	8.33	5.15	384.71	MCM

Momentary Peak 146.30 CMS, at 7.00 m. (A.D.), at 06.00 Hours, on Aug 8, 2014

Runoff Yield 19.77 Liters/Second/Square KM. Momentary Peak Yield 237.038 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Wang Man , Prachin Buri (Kgt.34)

Lat 13 - 28 - 29 N Long 101 - 44 - 55 E

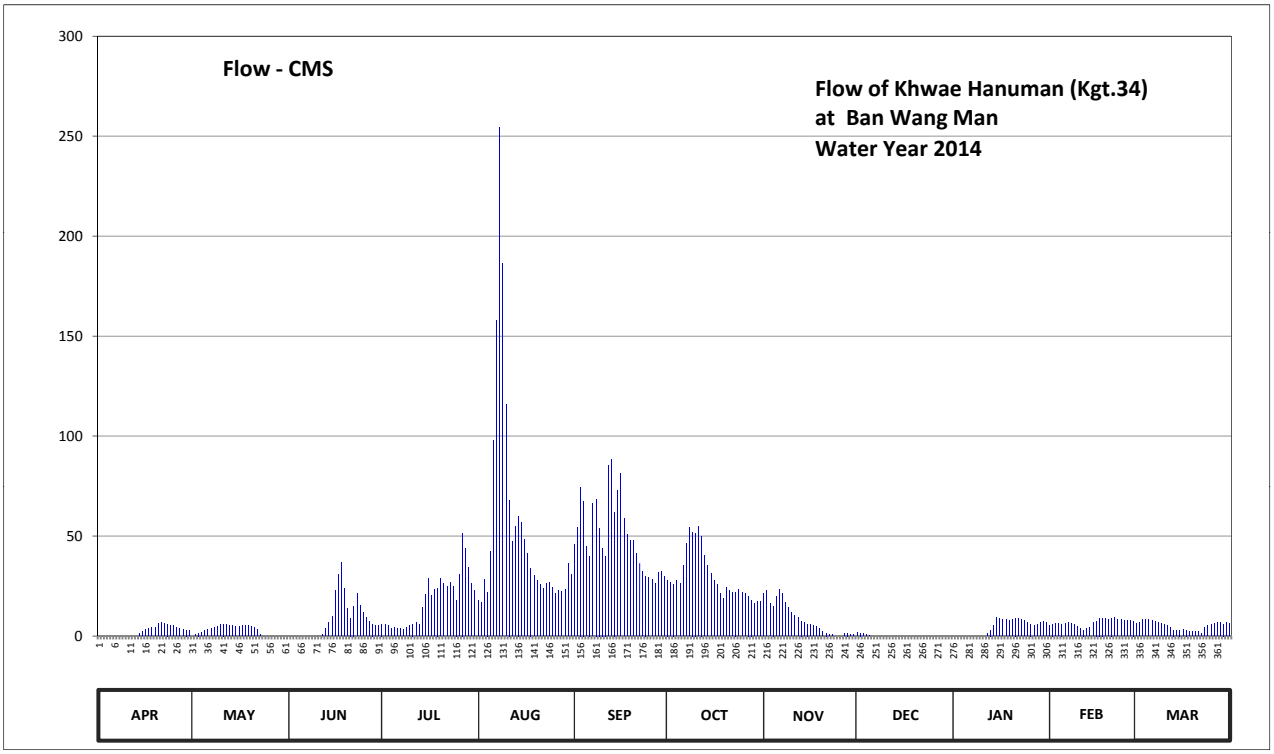
Location : on left bank at the bridge.

	Ban Wang Man	**Amphoe** Na Di	**Changwat** Prachin Buri
Drainge Area	1,210 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+3.560 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +9.822 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	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	Overbank flow starts at elevation +8.920 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.45	4.80	4.70	5.00	5.39	6.09	5.65	5.48	4.86	4.54	4.98	5.01	
2	4.43	4.83	4.72	4.99	5.36	6.29	5.62	5.52	4.85	4.52	5.00	5.02	
3	4.44	4.85	4.69	4.98	5.66	6.69	5.60	5.34	4.84	4.51	5.01	5.07	
4	4.47	4.86	4.68	4.93	5.50	6.55	5.64	5.30	4.82	4.50	5.01	5.08	
5	4.49	4.89	4.67	4.95	6.01	6.07	5.61	5.44	4.81	4.49	5.00	5.08	
6	4.51	4.91	4.65	4.93	7.16	5.95	5.83	5.53	4.79	4.50	5.01	5.06	
7	4.52	4.92	4.64	4.92	8.23	6.53	6.11	5.48	4.75	4.56	5.03	5.04	
8	4.54	4.94	4.61	4.91	9.72	6.57	6.29	5.36	4.74	4.70	5.01	5.03	
9	4.55	4.96	4.58	4.94	8.71	6.28	6.24	5.27	4.73	4.73	4.99	5.01	
10	4.58	4.99	4.66	4.97	7.52	6.05	6.23	5.19	4.72	4.76	4.96	4.99	
11	4.61	5.00	4.74	5.00	6.56	5.95	6.30	5.15	4.71	4.79	4.93	4.97	
12	4.64	4.99	4.82	5.02	6.13	6.91	6.20	5.11	4.70	4.84	4.90	4.94	
13	4.79	4.98	4.92	4.99	6.30	6.97	5.96	5.05	4.69	4.90	4.93	4.90	
14	4.84	4.97	5.03	5.27	6.40	6.44	5.83	5.02	4.68	4.98	4.95	4.89	
15	4.88	4.96	5.13	5.47	6.34	6.66	5.73	5.00	4.68	5.11	5.02	4.90	
16	4.91	4.96	5.52	5.67	6.16	6.83	5.64	4.99	4.67	5.09	5.05	4.91	
17	4.93	4.98	5.72	5.46	5.98	6.38	5.59	4.98	4.66	5.08	5.10	4.90	
18	4.95	4.98	5.87	5.53	5.80	6.22	5.48	4.96	4.66	5.07	5.10	4.88	
19	4.94	4.97	5.54	5.55	5.71	6.14	5.42	4.93	4.65	5.06	5.09	4.87	
20	5.01	4.96	5.26	5.67	5.64	6.14	5.56	4.87	4.63	5.08	5.08	4.87	
21	5.02	4.95	5.10	5.61	5.59	5.98	5.52	4.85	4.61	5.10	5.10	4.88	
22	5.01	4.91	5.30	5.57	5.54	5.86	5.49	4.83	4.58	5.09	5.11	4.84	
23	5.00	4.82	5.48	5.62	5.61	5.76	5.50	4.82	4.57	5.08	5.08	4.94	
24	4.98	4.80	5.31	5.57	5.62	5.70	5.53	4.80	4.55	5.06	5.07	4.97	
25	4.97	4.78	5.19	5.40	5.56	5.68	5.49	4.79	4.54	5.03	5.06	4.99	
26	4.95	4.77	5.11	5.72	5.48	5.66	5.48	4.80	4.53	5.00	5.06	5.01	
27	4.93	4.74	5.04	6.23	5.52	5.61	5.45	4.84	4.52	4.98	5.06	5.03	
28	4.91	4.70	5.00	6.04	5.51	5.74	5.40	4.85	4.51	4.99	5.05	5.02	
29	4.90	4.68	4.98	5.81	5.53	5.76	5.34	4.83	4.51	5.03		5.00	
30	4.89	4.71	4.97	5.61	5.86	5.69	5.38	4.83	4.50	5.04		5.02	
31		4.71		5.52	5.72		5.37		4.49	5.02		5.01	
Mean	4.77	4.88	5.02	5.35	6.19	6.17	5.69	5.07	4.66	4.88	5.03	4.97	
Max	5.02	5.00	5.87	6.23	9.72	6.97	6.30	5.53	4.86	5.11	5.11	5.08	9.72
Min	4.43	4.68	4.58	4.91	5.36	5.61	5.34	4.79	4.49	4.49	4.90	4.84	4.43

Annual Max Momentary Gage Height	9.81	m. (MSL.) ,	at 06.00 Hours, on Aug 8, 2014		
Zero Gage at Bottom Elevation	3.56	m. (MSL.) ,	River Bed	-1.59	m. (MSL.)
Left Bank Elevation	8.91	m. (MSL.) ,			
Right Bank Elevation	9.79	m. (MSL.) ,	Drainage Area	1210	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	6.00	17.70	45.60	28.00	21.20	1.80	0.00	5.40	6.30		
2	0.00	0.90	0.00	5.70	16.80	54.50	26.80	22.80	1.50	0.00	6.00	6.60		
3	0.00	1.50	0.00	5.40	28.40	74.50	26.00	16.20	1.20	0.00	6.30	8.10		
4	0.00	1.80	0.00	3.90	22.00	67.50	27.60	15.00	0.60	0.00	6.30	8.40		
5	0.00	2.70	0.00	4.50	42.40	44.80	26.40	19.60	0.30	0.00	6.00	8.40		
6	0.00	3.30	0.00	3.90	98.00	40.00	35.20	23.20	0.00	0.00	6.30	7.80		
7	0.00	3.60	0.00	3.60	157.80	66.50	46.40	21.20	0.00	0.00	6.90	7.20		
8	0.00	4.20	0.00	3.30	254.40	68.50	54.50	16.80	0.00	0.00	6.30	6.90		
9	0.00	4.80	0.00	4.20	186.60	54.00	52.00	14.10	0.00	0.00	5.70	6.30		
10	0.00	5.70	0.00	5.10	116.00	44.00	51.50	11.70	0.00	0.00	4.80	5.70		
11	0.00	6.00	0.00	6.00	68.00	40.00	55.00	10.50	0.00	0.00	3.90	5.10		
12	0.00	5.70	0.60	6.60	47.20	85.50	50.00	9.30	0.00	1.20	3.00	4.20		
13	0.00	5.40	3.60	5.70	55.00	88.50	40.40	7.50	0.00	3.00	3.90	3.00		
14	1.20	5.10	6.90	14.10	60.00	62.00	35.20	6.60	0.00	5.40	4.50	2.70		
15	2.40	4.80	9.90	20.80	57.00	73.00	31.20	6.00	0.00	9.30	6.60	3.00		
16	3.30	4.80	22.80	28.80	48.40	81.50	27.60	5.70	0.00	8.70	7.50	3.30		
17	3.90	5.40	30.80	20.40	41.20	59.00	25.60	5.40	0.00	8.40	9.00	3.00		
18	4.50	5.40	36.80	23.20	34.00	51.00	21.20	4.80	0.00	8.10	9.00	2.40		
19	4.20	5.10	23.60	24.00	30.40	47.60	18.80	3.90	0.00	7.80	8.70	2.10		
20	6.30	4.80	13.80	28.80	27.60	47.60	24.40	2.10	0.00	8.40	8.40	2.10		
21	6.60	4.50	9.00	26.40	25.60	41.20	22.80	1.50	0.00	9.00	9.00	2.40		
22	6.30	3.30	15.00	24.80	23.60	36.40	21.60	0.90	0.00	8.70	9.30	1.20		
23	6.00	0.60	21.20	26.80	26.40	32.40	22.00	0.60	0.00	8.40	8.40	4.20		
24	5.40	0.00	15.30	24.80	26.80	30.00	23.20	0.00	0.00	7.80	8.10	5.10		
25	5.10	0.00	11.70	18.00	24.40	29.20	21.60	0.00	0.00	6.90	7.80	5.70		
26	4.50	0.00	9.30	30.80	21.20	28.40	21.20	0.00	0.00	6.00	7.80	6.30		
27	3.90	0.00	7.20	51.50	22.80	26.40	20.00	1.20	0.00	5.40	7.80	6.90		
28	3.30	0.00	6.00	43.60	22.40	31.60	18.00	1.50	0.00	5.70	7.50	6.60		
29	3.00	0.00	5.40	34.40	23.20	32.40	16.20	0.90	0.00	6.90		6.00		
30	2.70	0.00	5.10	26.40	36.40	29.60	17.40	0.90	0.00	7.20		6.60		
31		0.00		22.80	30.80		17.10		0.00	6.60		6.30		
Total	72.60	89.40	254.00	554.30	1692.50	1513.20	924.90	251.10	5.40	138.90	190.20	159.90	5846.40	CMSDAY
Mean	2.42	2.88	8.47	17.88	54.60	50.44	29.84	8.37	0.17	4.48	6.79	5.16	16.02	CMS
Max	6.60	6.00	36.80	51.50	254.40	88.50	55.00	23.20	1.80	9.30	9.30	8.40	254.40	CMS
Min	0.00	0.00	0.00	3.30	16.80	26.40	16.20	0.00	0.00	0.00	3.00	1.20	0.00	CMS
Runoff	6.27	7.72	21.95	47.89	146.23	130.74	79.91	21.70	0.47	12.00	16.43	13.82	505.13	MCM

Momentary Peak 260.70 CMS, at 9.81 m. (MSL.), at 06.00 Hours, on Aug 8, 2014

Runoff Yield 13.24 Liters/Second/Square KM. Momentary Peak Yield 215.455 Liters/Second/Square KM.

WATER YEAR : 2014

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

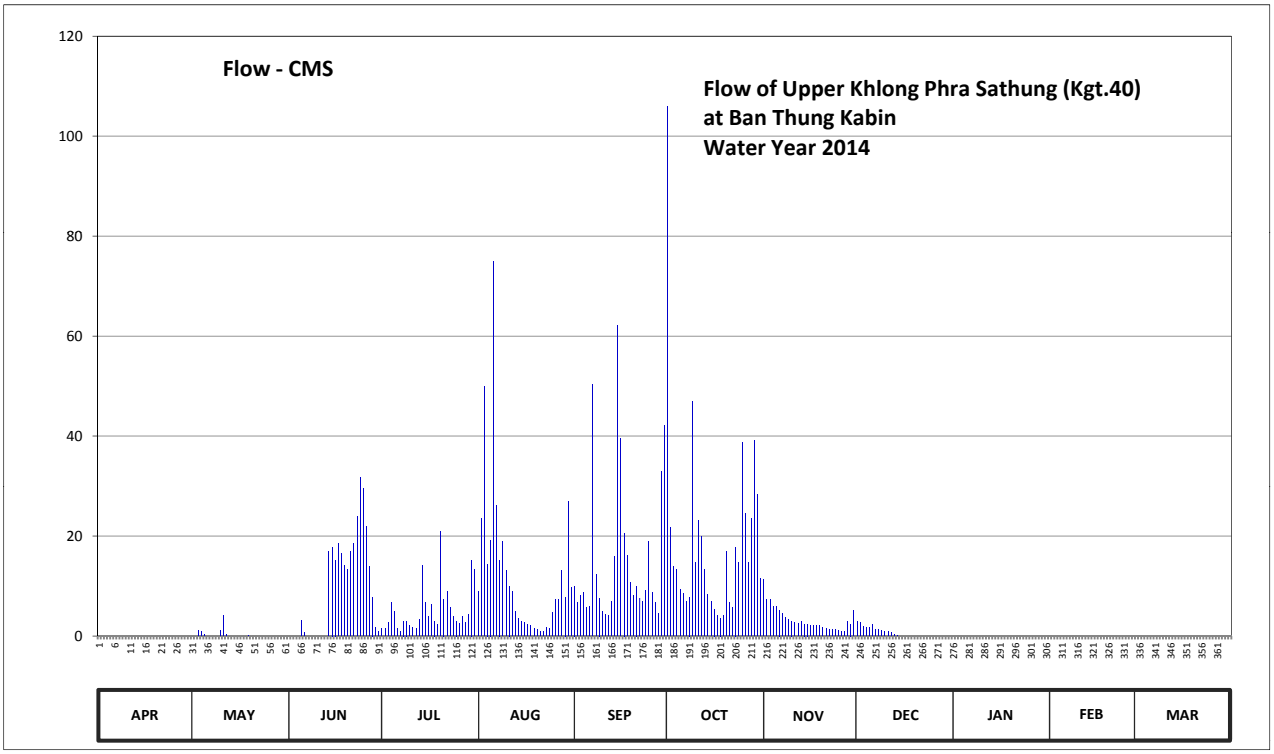
Location : on left bank at the bridge on highway.

	Ban Thung Kabin	**Amphoe** Wang Sombun	**Changwat** Sa Kaeo
Drainge Area	574 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+77.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+87.423 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.16	77.20	77.20	77.46	77.95	78.00	80.19	78.05	77.59	77.28	77.15	77.05	
2	77.16	77.23	77.29	77.47	78.44	77.84	78.39	77.87	77.57	77.27	77.14	77.06	
3	77.17	77.42	77.25	77.58	79.10	77.91	78.15	77.87	77.51	77.27	77.14	77.07	
4	77.18	77.39	77.27	77.84	78.17	77.94	78.13	77.80	77.49	77.26	77.13	77.08	
5	77.18	77.34	77.61	77.74	78.32	77.79	77.97	77.80	77.49	77.26	77.12	77.09	
6	77.18	77.30	77.38	77.46	79.63	77.80	77.93	77.76	77.54	77.25	77.11	77.10	
7	77.18	77.27	77.30	77.41	78.51	79.11	77.85	77.72	77.45	77.25	77.10	77.10	
8	77.17	77.25	77.30	77.60	78.20	78.09	77.90	77.66	77.44	77.25	77.10	77.10	
9	77.17	77.29	77.25	77.60	78.31	77.89	79.03	77.63	77.42	77.25	77.09	77.10	
10	77.17	77.42	77.25	77.52	78.12	77.74	78.18	77.60	77.40	77.25	77.09	77.10	
11	77.16	77.69	77.25	77.48	78.00	77.71	78.43	77.58	77.40	77.25	77.08	77.09	
12	77.16	77.34	77.30	77.46	77.95	77.70	78.34	77.56	77.38	77.25	77.08	77.08	
13	77.15	77.25	77.22	77.62	77.74	77.85	78.13	77.59	77.34	77.20	77.07	77.07	
14	77.15	77.24	78.25	78.16	77.64	78.22	77.92	77.55	77.31	77.19	77.07	77.06	
15	77.15	77.22	78.28	77.84	77.59	79.37	77.85	77.55	77.30	77.19	77.06	77.05	
16	77.15	77.20	78.20	77.67	77.58	78.86	77.77	77.53	77.28	77.18	77.06	77.04	
17	77.15	77.30	78.30	77.82	77.54	78.36	77.69	77.53	77.27	77.18	77.06	77.04	
18	77.15	77.20	78.24	77.60	77.53	78.23	77.65	77.53	77.27	77.18	77.05	77.04	
19	77.15	77.31	78.16	77.54	77.46	78.03	77.70	77.52	77.27	77.18	77.05	77.03	
20	77.15	77.28	78.13	78.37	77.44	77.91	78.25	77.49	77.27	77.18	77.05	77.03	
21	77.15	77.25	78.25	77.88	77.40	78.00	77.84	77.46	77.26	77.18	77.05	77.02	
22	77.15	77.23	78.30	77.95	77.40	77.89	77.79	77.45	77.28	77.18	77.05	77.02	
23	77.15	77.22	78.45	77.79	77.50	77.85	78.28	77.45	77.27	77.18	77.05	77.01	
24	77.20	77.20	78.66	77.67	77.47	77.96	78.18	77.45	77.28	77.17	77.05	77.00	
25	77.16	77.18	78.60	77.60	77.73	78.31	78.84	77.42	77.29	77.17	77.05	77.00	
26	77.29	77.25	78.40	77.56	77.87	77.94	78.47	77.40	77.29	77.16	77.05	77.01	
27	77.23	77.24	78.15	77.67	77.87	77.84	78.18	77.39	77.29	77.16	77.05	77.01	
28	77.22	77.24	77.90	77.57	78.12	77.72	78.44	77.59	77.29	77.15	77.05	77.02	
29	77.20	77.20	77.50	77.71	77.90	78.69	78.85	77.55	77.29	77.15		77.02	
30	77.20	77.20	77.40	78.20	78.53	78.92	78.57	77.75	77.29	77.15		77.03	
31		77.20		78.13	77.99		78.06		77.29	77.15		77.03	
Mean	77.17	77.28	77.80	77.71	77.97	78.12	78.22	77.60	77.36	77.21	77.08	77.05	
Max	77.29	77.69	78.66	78.37	79.63	79.37	80.19	78.05	77.59	77.28	77.15	77.10	80.19
Min	77.15	77.18	77.20	77.41	77.40	77.70	77.65	77.39	77.26	77.15	77.05	77.00	77.00

Annual Max Momentary Gage Height	81.35	m. (MSL.) ,	at 06.00 Hours, on Oct 1, 2014		
Zero Gage at Bottom Elevation	77.00	m. (MSL.) ,	River Bed	77.02	m. (MSL.)
Left Bank Elevation	87.08	m. (MSL.) ,			
Right Bank Elevation	85.57	m. (MSL.) ,	Drainage Area	574	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.44	8.90	10.00	105.90	11.25	2.88	0.00	0.00	0.00		
2	0.00	0.00	0.00	1.53	23.48	6.66	21.65	7.23	2.64	0.00	0.00	0.00		
3	0.00	1.08	0.00	2.76	50.00	8.02	13.85	7.23	1.92	0.00	0.00	0.00		
4	0.00	0.81	0.00	6.66	14.39	8.68	13.31	5.90	1.71	0.00	0.00	0.00		
5	0.00	0.36	3.12	4.88	19.20	5.73	9.34	5.90	1.71	0.00	0.00	0.00		
6	0.00	0.00	0.72	1.44	75.00	5.90	8.46	5.22	2.28	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.99	26.08	50.45	6.85	4.54	1.35	0.00	0.00	0.00		
8	0.00	0.00	0.00	3.00	15.20	12.25	7.80	3.72	1.26	0.00	0.00	0.00		
9	0.00	0.00	0.00	3.00	18.85	7.61	46.85	3.36	1.08	0.00	0.00	0.00		
10	0.00	1.08	0.00	2.04	13.04	4.88	14.66	3.00	0.90	0.00	0.00	0.00		
11	0.00	4.08	0.00	1.62	10.00	4.37	23.11	2.76	0.90	0.00	0.00	0.00		
12	0.00	0.36	0.00	1.44	8.90	4.20	19.90	2.52	0.72	0.00	0.00	0.00		
13	0.00	0.00	0.00	3.24	4.88	6.85	13.31	2.88	0.36	0.00	0.00	0.00		
14	0.00	0.00	16.85	14.12	3.48	15.86	8.24	2.40	0.09	0.00	0.00	0.00		
15	0.00	0.00	17.84	6.66	2.88	62.15	6.85	2.40	0.00	0.00	0.00	0.00		
16	0.00	0.00	15.20	3.84	2.76	39.56	5.39	2.16	0.00	0.00	0.00	0.00		
17	0.00	0.00	18.50	6.28	2.28	20.60	4.08	2.16	0.00	0.00	0.00	0.00		
18	0.00	0.00	16.52	3.00	2.16	16.19	3.60	2.16	0.00	0.00	0.00	0.00		
19	0.00	0.09	14.12	2.28	1.44	10.75	4.20	2.04	0.00	0.00	0.00	0.00		
20	0.00	0.00	13.31	20.95	1.26	8.02	16.85	1.71	0.00	0.00	0.00	0.00		
21	0.00	0.00	16.85	7.42	0.90	10.00	6.66	1.44	0.00	0.00	0.00	0.00		
22	0.00	0.00	18.50	8.90	0.90	7.61	5.73	1.35	0.00	0.00	0.00	0.00		
23	0.00	0.00	23.85	5.73	1.80	6.85	17.84	1.35	0.00	0.00	0.00	0.00		
24	0.00	0.00	31.78	3.84	1.53	9.12	14.66	1.35	0.00	0.00	0.00	0.00		
25	0.00	0.00	29.50	3.00	4.71	18.85	38.74	1.08	0.00	0.00	0.00	0.00		
26	0.00	0.00	22.00	2.52	7.23	8.68	24.59	0.90	0.00	0.00	0.00	0.00		
27	0.00	0.00	13.85	3.84	7.23	6.66	14.66	0.81	0.00	0.00	0.00	0.00		
28	0.00	0.00	7.80	2.64	13.04	4.54	23.48	2.88	0.00	0.00	0.00	0.00		
29	0.00	0.00	1.80	4.37	7.80	32.92	39.15	2.40	0.00	0.00		0.00		
30	0.00	0.00	0.90	15.20	26.84	42.06	28.36	5.05	0.00	0.00		0.00		
31		0.00		13.31	9.78		11.50		0.00	0.00		0.00		
Total	0.00	7.86	283.01	161.94	385.94	456.02	579.57	99.15	19.80	0.00	0.00	0.00	1993.29	CMSDAY
Mean	0.00	0.25	9.43	5.22	12.45	15.20	18.70	3.31	0.64	0.00	0.00	0.00	5.46	CMS
Max	0.00	4.08	31.78	20.95	75.00	62.15	105.90	11.25	2.88	0.00	0.00	0.00	105.90	CMS
Min	0.00	0.00	0.00	0.99	0.90	4.20	3.60	0.81	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.68	24.45	13.99	33.35	39.40	50.08	8.57	1.71	0.00	0.00	0.00	172.22	MCM

Momentary Peak 180.75 CMS, at 81.35 m. (MSL.), at 06.00 Hours, on Oct 1, 2014

Runoff Yield 9.51 Liters/Second/Square KM. Momentary Peak Yield 314.895 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khlong Kawat Kong Yai at Ban Khok Noi , Sa Kaeo (Kgt.41)

Lat 13 - 22 - 40 N Long 102 - 05 - 30 E

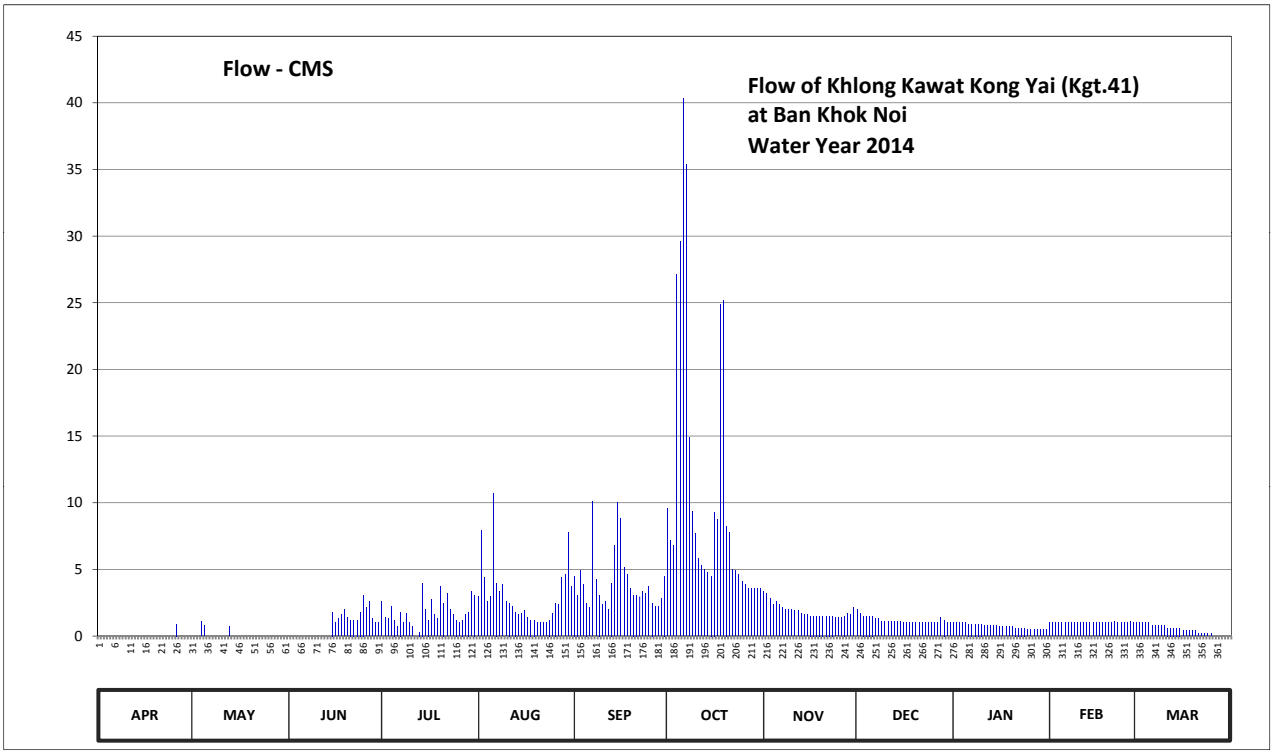
Location : on right bank at the bridge on highway.

	Ban Khok Noi	**Amphoe** Wang Sombun	**Changwat** Sa Kaeo
Drainge Area	123 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+79.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.	**Elevation**	+87.250 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	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	79.60	79.60	79.60	79.85	79.88	80.00	80.65	79.91	79.80	79.70	79.70	79.70	
2	79.60	79.60	79.60	79.74	80.30	79.89	80.18	79.90	79.77	79.70	79.70	79.70	
3	79.60	79.60	79.60	79.73	79.99	80.03	80.16	79.87	79.75	79.70	79.70	79.70	
4	79.60	79.71	79.60	79.82	79.85	79.95	82.51	79.83	79.75	79.70	79.70	79.70	
5	79.60	79.68	79.60	79.72	79.88	79.84	82.70	79.85	79.75	79.70	79.70	79.70	
6	79.60	79.60	79.60	79.67	80.84	79.81	83.44	79.83	79.75	79.69	79.70	79.68	
7	79.60	79.60	79.60	79.78	79.96	80.75	83.11	79.81	79.73	79.69	79.70	79.68	
8	79.60	79.60	79.60	79.70	79.91	79.98	81.39	79.80	79.73	79.69	79.70	79.68	
9	79.60	79.60	79.60	79.77	79.95	79.89	80.61	79.80	79.71	79.69	79.70	79.68	
10	79.60	79.60	79.60	79.70	79.85	79.83	80.25	79.80	79.71	79.69	79.70	79.68	
11	79.60	79.60	79.60	79.67	79.84	79.85	80.10	79.79	79.71	79.68	79.70	79.66	
12	79.60	79.60	79.60	79.60	79.82	79.80	80.06	79.79	79.71	79.68	79.70	79.66	
13	79.60	79.67	79.60	79.63	79.78	79.96	80.04	79.77	79.71	79.68	79.70	79.66	
14	79.60	79.60	79.60	79.96	79.76	80.16	80.02	79.76	79.71	79.68	79.70	79.66	
15	79.60	79.60	79.78	79.80	79.77	80.74	80.00	79.76	79.71	79.68	79.70	79.66	
16	79.60	79.60	79.70	79.72	79.79	80.50	80.60	79.75	79.70	79.67	79.70	79.64	
17	79.60	79.60	79.73	79.86	79.74	80.05	80.49	79.75	79.70	79.67	79.70	79.64	
18	79.60	79.60	79.76	79.76	79.72	80.01	82.34	79.75	79.70	79.67	79.70	79.64	
19	79.60	79.60	79.80	79.73	79.72	79.93	82.36	79.75	79.70	79.67	79.70	79.64	
20	79.60	79.60	79.74	79.94	79.70	79.89	80.39	79.75	79.70	79.67	79.70	79.64	
21	79.60	79.60	79.72	79.84	79.70	79.89	80.27	79.75	79.70	79.66	79.70	79.62	
22	79.60	79.60	79.72	79.90	79.70	79.88	80.04	79.75	79.70	79.66	79.71	79.62	
23	79.60	79.60	79.72	79.80	79.70	79.91	80.03	79.75	79.70	79.66	79.70	79.62	
24	79.60	79.60	79.78	79.76	79.72	79.90	80.01	79.74	79.70	79.66	79.70	79.62	
25	79.60	79.60	79.89	79.72	79.77	79.94	79.97	79.74	79.70	79.65	79.70	79.62	
26	79.69	79.60	79.81	79.70	79.84	79.84	79.95	79.74	79.70	79.65	79.70	79.60	
27	79.60	79.60	79.85	79.72	79.83	79.82	79.93	79.75	79.70	79.65	79.71	79.60	
28	79.60	79.60	79.73	79.76	79.99	79.82	79.93	79.77	79.74	79.65	79.70	79.60	
29	79.60	79.60	79.70	79.78	80.01	79.87	79.93	79.76	79.72	79.65		79.60	
30	79.60	79.60	79.70	79.91	80.27	80.00	79.93	79.81	79.70	79.65		79.60	
31		79.60		79.89	79.94		79.93		79.70	79.65		79.60	
Mean	79.60	79.61	79.68	79.77	79.89	79.99	80.69	79.79	79.72	79.67	79.70	79.65	
Max	79.69	79.71	79.89	79.96	80.84	80.75	83.44	79.91	79.80	79.70	79.71	79.70	83.44
Min	79.60	79.60	79.60	79.60	79.70	79.80	79.93	79.74	79.70	79.65	79.70	79.60	79.60

Annual Max Momentary Gage Height	84.29	m. (MSL.) ,	at 06.00 Hours, on Oct 7, 2014		
Zero Gage at Bottom Elevation	79.00	m. (MSL.) ,	River Bed	79.26	m. (MSL.)
Left Bank Elevation	87.88	m. (MSL.) ,			
Right Bank Elevation	88.07	m. (MSL.) ,	Drainage Area	123	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	2.60	2.96	4.50	9.55	3.33	2.00	1.00	1.00	1.00		
2	0.00	0.00	0.00	1.40	7.90	3.08	7.16	3.20	1.70	1.00	1.00	1.00		
3	0.00	0.00	0.00	1.30	4.37	4.89	6.82	2.84	1.50	1.00	1.00	1.00		
4	0.00	1.10	0.00	2.24	2.60	3.85	27.13	2.36	1.50	1.00	1.00	1.00		
5	0.00	0.80	0.00	1.20	2.96	2.48	29.60	2.60	1.50	1.00	1.00	1.00		
6	0.00	0.00	0.00	0.70	10.68	2.12	40.34	2.36	1.50	0.90	1.00	0.80		
7	0.00	0.00	0.00	1.80	3.98	10.10	35.35	2.12	1.30	0.90	1.00	0.80		
8	0.00	0.00	0.00	1.00	3.33	4.24	14.91	2.00	1.30	0.90	1.00	0.80		
9	0.00	0.00	0.00	1.70	3.85	3.08	9.35	2.00	1.10	0.90	1.00	0.80		
10	0.00	0.00	0.00	1.00	2.60	2.36	7.70	2.00	1.10	0.90	1.00	0.80		
11	0.00	0.00	0.00	0.70	2.48	2.60	5.80	1.90	1.10	0.80	1.00	0.60		
12	0.00	0.00	0.00	0.00	2.24	2.00	5.28	1.90	1.10	0.80	1.00	0.60		
13	0.00	0.70	0.00	0.30	1.80	3.98	5.02	1.70	1.10	0.80	1.00	0.60		
14	0.00	0.00	0.00	3.98	1.60	6.82	4.76	1.60	1.10	0.80	1.00	0.60		
15	0.00	0.00	1.80	2.00	1.70	10.04	4.50	1.60	1.10	0.80	1.00	0.60		
16	0.00	0.00	1.00	1.20	1.90	8.80	9.30	1.50	1.00	0.70	1.00	0.40		
17	0.00	0.00	1.30	2.72	1.40	5.15	8.75	1.50	1.00	0.70	1.00	0.40		
18	0.00	0.00	1.60	1.60	1.20	4.63	24.92	1.50	1.00	0.70	1.00	0.40		
19	0.00	0.00	2.00	1.30	1.20	3.59	25.18	1.50	1.00	0.70	1.00	0.40		
20	0.00	0.00	1.40	3.72	1.00	3.08	8.26	1.50	1.00	0.70	1.00	0.40		
21	0.00	0.00	1.20	2.48	1.00	3.08	7.78	1.50	1.00	0.60	1.00	0.20		
22	0.00	0.00	1.20	3.20	1.00	2.96	5.02	1.50	1.00	0.60	1.10	0.20		
23	0.00	0.00	1.20	2.00	1.00	3.33	4.89	1.50	1.00	0.60	1.00	0.20		
24	0.00	0.00	1.80	1.60	1.20	3.20	4.63	1.40	1.00	0.60	1.00	0.20		
25	0.00	0.00	3.08	1.20	1.70	3.72	4.11	1.40	1.00	0.50	1.00	0.20		
26	0.90	0.00	2.12	1.00	2.48	2.48	3.85	1.40	1.00	0.50	1.00	0.00		
27	0.00	0.00	2.60	1.20	2.36	2.24	3.59	1.50	1.00	0.50	1.10	0.00		
28	0.00	0.00	1.30	1.60	4.37	2.24	3.59	1.70	1.40	0.50	1.00	0.00		
29	0.00	0.00	1.00	1.80	4.63	2.84	3.59	1.60	1.20	0.50		0.00		
30	0.00	0.00	1.00	3.33	7.78	4.50	3.59	2.12	1.00	0.50		0.00		
31		0.00		3.08	3.72		3.59		1.00	0.50		0.00		
Total	0.90	2.60	25.60	54.95	92.99	121.98	337.91	56.63	36.60	22.90	28.20	15.00	796.26	CMSDAY
Mean	0.03	0.08	0.85	1.77	3.00	4.07	10.90	1.89	1.18	0.74	1.01	0.48	2.18	CMS
Max	0.90	1.10	3.08	3.98	10.68	10.10	40.34	3.33	2.00	1.00	1.10	1.00	40.34	CMS
Min	0.00	0.00	0.00	0.00	1.00	2.00	3.59	1.40	1.00	0.50	1.00	0.00	0.00	CMS
Runoff	0.08	0.23	2.21	4.75	8.03	10.54	29.20	4.89	3.16	1.98	2.44	1.30	68.80	MCM

Momentary Peak 55.31 CMS, at 84.29 m. (MSL.), at 06.00 Hours, on Oct 7, 2014

Runoff Yield 17.74 Liters/Second/Square KM. Momentary Peak Yield 449.675 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

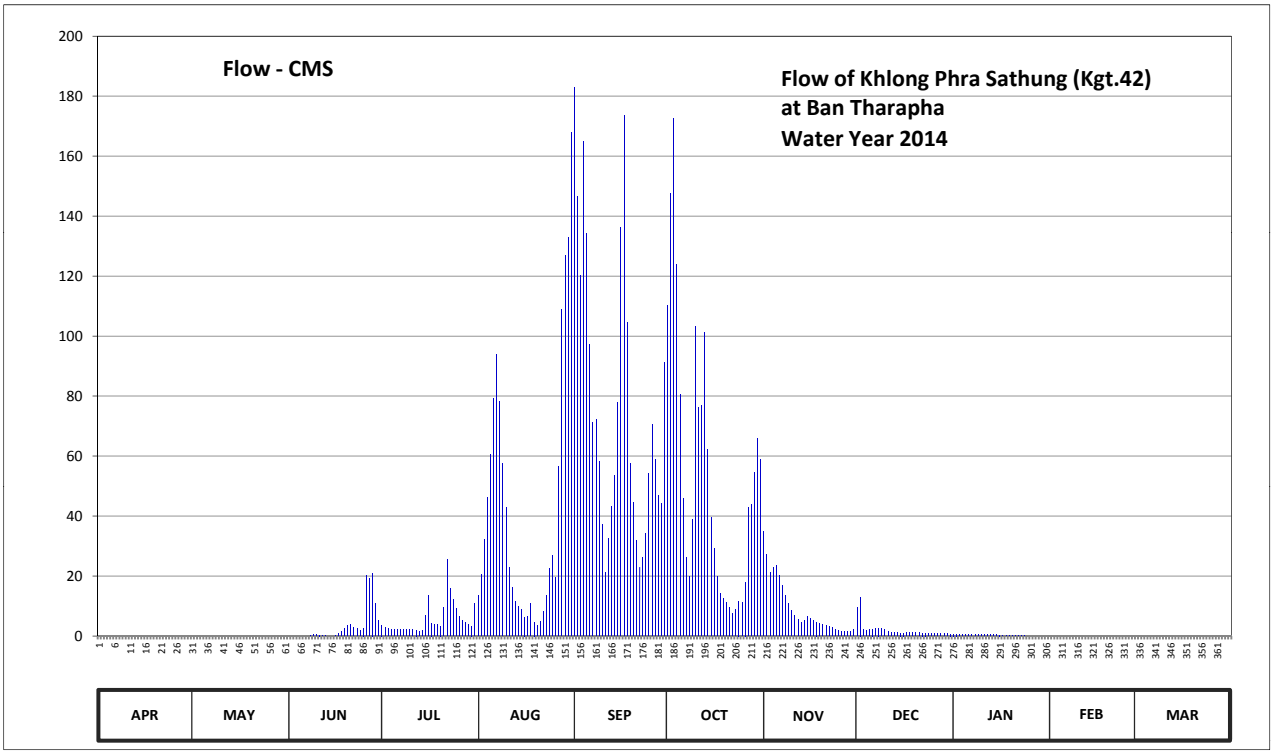
Location : on left bank at the bridge.

	Ban Tharapha	**Amphoe** Mueang	**Changwat** Sa Kaeo
Drainge Area	2,558 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+14.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +24.321 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Flot	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.50	14.50	14.50	15.23	16.41	22.46	20.61	17.66	15.97	14.64	14.50	14.50	
2	14.50	14.50	14.50	15.10	16.92	21.69	21.71	17.30	16.34	14.64	14.50	14.50	
3	14.50	14.50	14.50	14.98	17.53	20.94	22.25	16.97	14.95	14.63	14.50	14.50	
4	14.50	14.50	14.50	14.92	18.21	22.10	21.06	17.10	14.86	14.63	14.50	14.50	
5	14.50	14.50	14.50	14.92	18.89	21.38	19.62	17.13	14.92	14.62	14.50	14.50	
6	14.50	14.50	14.50	14.93	19.57	20.17	18.19	16.90	14.97	14.62	14.50	14.50	
7	14.50	14.50	14.50	14.94	20.06	19.31	17.25	16.66	15.02	14.61	14.50	14.50	
8	14.50	14.50	14.51	14.95	19.54	19.34	16.88	16.41	15.03	14.61	14.50	14.50	
9	14.50	14.50	14.61	14.95	18.75	18.77	17.86	16.10	14.98	14.60	14.50	14.50	
10	14.50	14.50	14.59	14.94	18.04	17.77	20.38	15.86	14.91	14.59	14.50	14.50	
11	14.50	14.50	14.57	14.93	17.08	16.98	19.48	15.70	14.82	14.59	14.50	14.50	
12	14.50	14.50	14.54	14.90	16.61	17.56	19.50	15.54	14.74	14.59	14.50	14.50	
13	14.50	14.50	14.52	14.82	16.18	18.06	20.31	15.40	14.72	14.58	14.50	14.50	
14	14.50	14.50	14.50	14.85	16.00	18.55	18.97	15.53	14.71	14.58	14.50	14.50	
15	14.50	14.50	14.50	15.71	15.90	19.53	17.89	15.67	14.70	14.58	14.50	14.50	
16	14.50	14.50	14.55	16.41	15.64	21.43	17.39	15.60	14.70	14.57	14.50	14.50	
17	14.50	14.50	14.68	15.37	15.67	22.27	16.87	15.52	14.71	14.55	14.50	14.50	
18	14.50	14.50	14.79	15.29	16.11	20.42	16.46	15.44	14.72	14.54	14.50	14.50	
19	14.50	14.50	14.98	15.24	15.44	18.74	16.29	15.36	14.72	14.53	14.50	14.50	
20	14.50	14.50	15.18	15.17	15.21	18.12	16.14	15.28	14.72	14.52	14.50	14.50	
21	14.50	14.50	15.24	15.97	15.46	17.52	15.97	15.20	14.71	14.51	14.50	14.50	
22	14.50	14.50	15.06	17.22	15.84	17.10	15.75	15.12	14.70	14.51	14.50	14.50	
23	14.50	14.50	15.02	16.59	16.40	17.25	15.91	15.05	14.70	14.51	14.50	14.50	
24	14.50	14.50	14.88	16.25	17.07	17.63	16.20	14.96	14.69	14.51	14.50	14.50	
25	14.50	14.50	15.03	15.93	17.28	18.58	16.16	14.88	14.69	14.50	14.50	14.50	
26	14.50	14.50	16.90	15.66	16.86	19.29	16.75	14.82	14.68	14.50	14.50	14.50	
27	14.50	14.50	16.83	15.53	18.70	18.81	18.04	14.80	14.68	14.50	14.50	14.50	
28	14.50	14.50	16.96	15.40	20.56	18.24	18.09	14.80	14.67	14.50	14.50	14.50	
29	14.50	14.50	16.11	15.27	21.16	18.11	18.60	14.81	14.66	14.50		14.50	
30	14.50	14.50	15.52	15.17	21.35	19.98	19.13	14.91	14.65	14.50		14.50	
31		14.50		16.11	22.16		18.81		14.64	14.50		14.50	
Mean	14.50	14.50	14.99	15.41	17.63	19.27	18.21	15.75	14.86	14.56	14.50	14.50	
Max	14.50	14.50	16.96	17.22	22.16	22.46	22.25	17.66	16.34	14.64	14.50	14.50	22.46
Min	14.50	14.50	14.50	14.82	15.21	16.98	15.75	14.80	14.64	14.50	14.50	14.50	14.50

Annual Max Momentary Gage Height	22.69	m. (MSL.) ,	at 06.00 Hours, on Sep 1, 2014		
Zero Gage at Bottom Elevation	14.50	m. (MSL.) ,	River Bed	14.32	m. (MSL.)
Left Bank Elevation	26.93	m. (MSL.) ,			
Right Bank Elevation	26.94	m. (MSL.) ,	Drainage Area	2558	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	3.65	13.64	183.00	110.30	34.76	9.47	0.70	0.00	0.00		
2	0.00	0.00	0.00	3.00	20.45	146.60	147.40	27.20	12.98	0.70	0.00	0.00		
3	0.00	0.00	0.00	2.40	32.03	120.20	172.50	21.16	2.25	0.65	0.00	0.00		
4	0.00	0.00	0.00	2.10	46.31	165.00	123.80	23.00	1.80	0.65	0.00	0.00		
5	0.00	0.00	0.00	2.10	60.59	134.20	80.60	23.63	2.10	0.60	0.00	0.00		
6	0.00	0.00	0.00	2.15	79.10	97.10	45.89	20.17	2.35	0.60	0.00	0.00		
7	0.00	0.00	0.00	2.20	93.80	71.30	26.15	16.77	2.60	0.55	0.00	0.00		
8	0.00	0.00	0.05	2.25	78.20	72.20	19.88	13.64	2.65	0.55	0.00	0.00		
9	0.00	0.00	0.55	2.25	57.65	58.07	38.96	10.70	2.40	0.50	0.00	0.00		
10	0.00	0.00	0.45	2.20	42.74	37.07	103.40	8.42	2.05	0.45	0.00	0.00		
11	0.00	0.00	0.35	2.15	22.72	21.30	76.40	6.90	1.60	0.45	0.00	0.00		
12	0.00	0.00	0.20	2.00	16.06	32.66	77.00	5.38	1.20	0.45	0.00	0.00		
13	0.00	0.00	0.10	1.60	11.46	43.16	101.30	4.50	1.10	0.40	0.00	0.00		
14	0.00	0.00	0.00	1.75	9.75	53.45	62.27	5.28	1.05	0.40	0.00	0.00		
15	0.00	0.00	0.00	7.00	8.80	77.90	39.59	6.62	1.00	0.40	0.00	0.00		
16	0.00	0.00	0.25	13.64	6.33	136.20	29.09	5.95	1.00	0.35	0.00	0.00		
17	0.00	0.00	0.90	4.35	6.62	173.50	19.74	5.19	1.05	0.25	0.00	0.00		
18	0.00	0.00	1.45	3.95	10.80	104.60	14.12	4.70	1.10	0.20	0.00	0.00		
19	0.00	0.00	2.40	3.70	4.70	57.44	12.51	4.30	1.10	0.15	0.00	0.00		
20	0.00	0.00	3.40	3.35	3.55	44.42	11.08	3.90	1.10	0.10	0.00	0.00		
21	0.00	0.00	3.70	9.47	4.80	31.82	9.47	3.50	1.05	0.05	0.00	0.00		
22	0.00	0.00	2.80	25.52	8.23	23.00	7.38	3.10	1.00	0.05	0.00	0.00		
23	0.00	0.00	2.60	15.78	13.55	26.15	8.89	2.75	1.00	0.05	0.00	0.00		
24	0.00	0.00	1.90	12.13	22.57	34.13	11.65	2.30	0.95	0.05	0.00	0.00		
25	0.00	0.00	2.65	9.09	26.78	54.08	11.27	1.90	0.95	0.00	0.00	0.00		
26	0.00	0.00	20.17	6.52	19.60	70.70	18.04	1.60	0.90	0.00	0.00	0.00		
27	0.00	0.00	19.17	5.28	56.60	58.91	42.74	1.50	0.90	0.00	0.00	0.00		
28	0.00	0.00	21.02	4.50	108.80	46.94	43.79	1.50	0.85	0.00	0.00	0.00		
29	0.00	0.00	10.80	3.85	126.80	44.21	54.50	1.55	0.80	0.00		0.00		
30	0.00	0.00	5.19	3.35	133.00	91.40	65.90	2.05	0.75	0.00		0.00		
31		0.00		10.80	168.00		58.91		0.70	0.00		0.00		
Total	0.00	0.00	100.10	174.08	1314.03	2310.71	1644.52	273.92	61.80	9.30	0.00	0.00	5888.46	CMSDAY
Mean	0.00	0.00	3.34	5.62	42.39	77.02	53.05	9.13	1.99	0.30	0.00	0.00	16.13	CMS
Max	0.00	0.00	21.02	25.52	168.00	183.00	172.50	34.76	12.98	0.70	0.00	0.00	183.00	CMS
Min	0.00	0.00	0.00	1.60	3.55	21.30	7.38	1.50	0.70	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	8.65	15.04	113.53	199.65	142.09	23.67	5.34	0.80	0.00	0.00	508.76	MCM

Momentary Peak 194.50 CMS, at 22.69 m. (MSL.), at 06.00 Hours, on Sep 1, 2014

Runoff Yield 6.31 Liters/Second/Square KM. Momentary Peak Yield 76.036 Liters/Second/Square KM.

WATER YEAR : 2014

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng Sai , Sa Kaeo (Kgt.44)

Lat 13 - 51 - 21 N Long 102 - 08 - 30 E

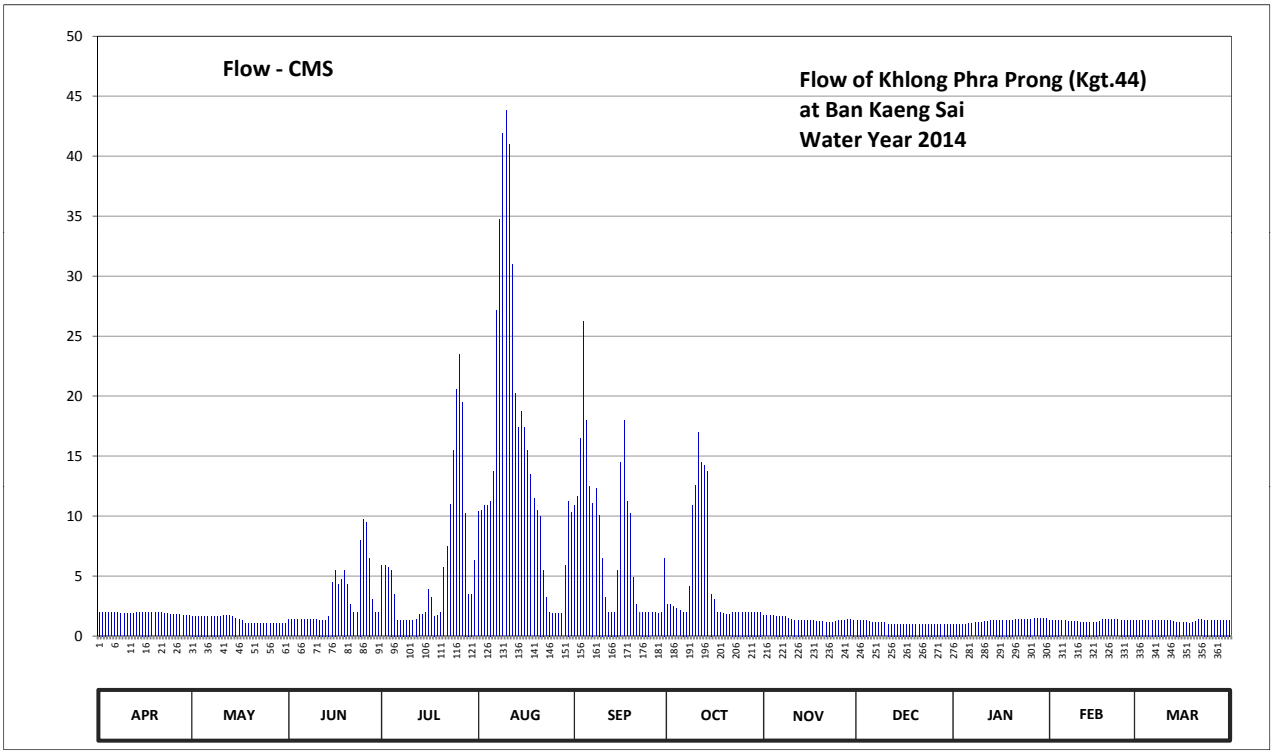
Location : on left bank at the bridge.

	Ban Kaeng Sai	**Amphoe** Mueang	**Changwat** Sa Kaeo
Drainge Area	- sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+27.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +33.898 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2014 to date		
Rating Operation			
Period of Rating	2014 to date		
Rated by Flot	-		
Rated by Current Meter	2014 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.60	27.50	27.41	27.82	28.16	28.27	27.64	27.52	27.40	27.30	27.40	27.40	
2	27.60	27.50	27.41	27.82	28.20	28.41	27.64	27.52	27.40	27.30	27.40	27.40	
3	27.60	27.50	27.41	27.81	28.27	28.90	27.63	27.52	27.40	27.30	27.40	27.40	
4	27.59	27.50	27.41	27.80	28.28	29.50	27.62	27.52	27.40	27.30	27.40	27.40	
5	27.59	27.50	27.41	27.70	28.35	29.00	27.61	27.50	27.36	27.30	27.38	27.40	
6	27.58	27.50	27.41	27.40	28.62	28.50	27.60	27.50	27.34	27.31	27.38	27.40	
7	27.58	27.50	27.41	27.40	29.55	28.32	27.60	27.50	27.34	27.32	27.37	27.40	
8	27.57	27.50	27.41	27.40	29.93	28.48	27.73	27.48	27.34	27.33	27.37	27.40	
9	27.57	27.50	27.41	27.40	30.24	28.04	28.28	27.45	27.34	27.34	27.36	27.40	
10	27.56	27.50	27.41	27.40	30.32	27.85	28.51	27.42	27.33	27.35	27.36	27.40	
11	27.56	27.52	27.40	27.39	30.20	27.68	28.93	27.40	27.30	27.36	27.35	27.39	
12	27.57	27.52	27.40	27.43	29.75	27.60	28.70	27.40	27.30	27.37	27.35	27.38	
13	27.58	27.52	27.40	27.53	29.15	27.60	28.67	27.40	27.30	27.38	27.35	27.37	
14	27.59	27.49	27.50	27.53	28.96	27.60	28.62	27.38	27.30	27.39	27.35	27.35	
15	27.60	27.45	27.75	27.58	29.05	27.80	27.70	27.38	27.30	27.40	27.35	27.35	
16	27.60	27.42	27.80	27.72	28.96	28.70	27.67	27.38	27.30	27.40	27.35	27.34	
17	27.60	27.38	27.74	27.68	28.80	29.00	27.58	27.38	27.30	27.40	27.37	27.33	
18	27.59	27.32	27.76	27.50	28.60	28.34	27.58	27.36	27.30	27.40	27.41	27.32	
19	27.59	27.32	27.80	27.52	28.40	28.08	27.57	27.36	27.30	27.40	27.41	27.34	
20	27.58	27.32	27.74	27.59	28.20	27.77	27.54	27.36	27.30	27.40	27.41	27.37	
21	27.58	27.32	27.64	27.81	28.00	27.64	27.55	27.35	27.30	27.41	27.41	27.41	
22	27.57	27.32	27.58	27.90	27.80	27.60	27.60	27.35	27.30	27.41	27.41	27.41	
23	27.56	27.32	27.59	28.29	27.68	27.60	27.60	27.35	27.30	27.42	27.41	27.40	
24	27.55	27.32	27.92	28.80	27.60	27.60	27.60	27.37	27.30	27.42	27.40	27.40	
25	27.55	27.32	27.99	29.17	27.57	27.60	27.60	27.38	27.30	27.43	27.40	27.40	
26	27.54	27.32	27.98	29.34	27.56	27.58	27.60	27.39	27.30	27.43	27.40	27.40	
27	27.53	27.32	27.85	29.10	27.56	27.58	27.60	27.40	27.30	27.44	27.40	27.40	
28	27.52	27.32	27.67	28.10	27.56	27.57	27.60	27.42	27.30	27.44	27.40	27.40	
29	27.51	27.32	27.59	27.70	27.82	27.58	27.60	27.42	27.30	27.45		27.40	
30	27.51	27.32	27.58	27.70	28.35	27.85	27.60	27.40	27.30	27.45		27.40	
31		27.32		27.84	28.11		27.60		27.30	27.45		27.40	
Mean	27.57	27.41	27.59	27.84	28.57	28.05	27.81	27.42	27.32	27.38	27.38	27.39	
Max	27.60	27.52	27.99	29.34	30.32	29.50	28.93	27.52	27.40	27.45	27.41	27.41	30.32
Min	27.51	27.32	27.40	27.39	27.56	27.57	27.54	27.35	27.30	27.30	27.35	27.32	27.30

Annual Max Momentary Gage Height	30.33	m. (MSL.) ,	at 18.00 Hours, on Aug 10, 2014		
Zero Gage at Bottom Elevation	27.00	m. (MSL.) ,	River Bed	24.83	m. (MSL.)
Left Bank Elevation	34.28	m. (MSL.) ,			
Right Bank Elevation	34.27	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.00	1.67	1.37	5.90	10.40	10.85	2.60	1.73	1.33	1.00	1.33	1.33		
2	2.00	1.67	1.37	5.90	10.50	11.60	2.60	1.73	1.33	1.00	1.33	1.33		
3	2.00	1.67	1.37	5.70	10.85	16.50	2.45	1.73	1.33	1.00	1.33	1.33		
4	1.97	1.67	1.37	5.50	10.90	26.25	2.30	1.73	1.33	1.00	1.33	1.33		
5	1.97	1.67	1.37	3.50	11.25	18.00	2.15	1.67	1.20	1.00	1.27	1.33		
6	1.93	1.67	1.37	1.33	13.70	12.50	2.00	1.67	1.13	1.03	1.27	1.33		
7	1.93	1.67	1.37	1.33	27.12	11.10	2.00	1.67	1.13	1.07	1.23	1.33		
8	1.90	1.67	1.37	1.33	34.70	12.30	4.10	1.60	1.13	1.10	1.23	1.33		
9	1.90	1.67	1.37	1.33	41.93	10.10	10.90	1.50	1.13	1.13	1.20	1.33		
10	1.87	1.67	1.37	1.33	43.80	6.50	12.60	1.40	1.10	1.17	1.20	1.33		
11	1.87	1.73	1.33	1.30	41.00	3.20	16.95	1.33	1.00	1.20	1.17	1.30		
12	1.90	1.73	1.33	1.43	31.00	2.00	14.50	1.33	1.00	1.23	1.17	1.27		
13	1.93	1.73	1.33	1.77	20.25	2.00	14.20	1.33	1.00	1.27	1.17	1.23		
14	1.97	1.63	1.67	1.77	17.40	2.00	13.70	1.27	1.00	1.30	1.17	1.17		
15	2.00	1.50	4.50	1.93	18.75	5.50	3.50	1.27	1.00	1.33	1.17	1.17		
16	2.00	1.40	5.50	3.90	17.40	14.50	3.05	1.27	1.00	1.33	1.17	1.13		
17	2.00	1.27	4.30	3.20	15.50	18.00	1.93	1.27	1.00	1.33	1.23	1.10		
18	1.97	1.07	4.70	1.67	13.50	11.20	1.93	1.20	1.00	1.33	1.37	1.07		
19	1.97	1.07	5.50	1.73	11.50	10.20	1.90	1.20	1.00	1.33	1.37	1.13		
20	1.93	1.07	4.30	1.97	10.50	4.90	1.80	1.20	1.00	1.33	1.37	1.23		
21	1.93	1.07	2.60	5.70	10.00	2.60	1.83	1.17	1.00	1.37	1.37	1.37		
22	1.90	1.07	1.93	7.50	5.50	2.00	2.00	1.17	1.00	1.37	1.37	1.37		
23	1.87	1.07	1.97	10.95	3.20	2.00	2.00	1.17	1.00	1.40	1.37	1.33		
24	1.83	1.07	8.00	15.50	2.00	2.00	2.00	1.23	1.00	1.40	1.33	1.33		
25	1.83	1.07	9.75	20.55	1.90	2.00	2.00	1.27	1.00	1.43	1.33	1.33		
26	1.80	1.07	9.50	23.45	1.87	1.93	2.00	1.30	1.00	1.43	1.33	1.33		
27	1.77	1.07	6.50	19.50	1.87	1.93	2.00	1.33	1.00	1.47	1.33	1.33		
28	1.73	1.07	3.05	10.25	1.87	1.90	2.00	1.40	1.00	1.47	1.33	1.33		
29	1.70	1.07	1.97	3.50	5.90	1.93	2.00	1.40	1.00	1.50		1.33		
30	1.70	1.07	1.93	3.50	11.25	6.50	2.00	1.33	1.00	1.50		1.33		
31		1.07		6.30	10.28		2.00		1.00	1.50		1.33		
Total	57.07	42.67	95.36	180.52	467.59	233.99	138.99	41.87	33.14	39.32	35.84	39.81	1406.17	CMSDAY
Mean	1.90	1.38	3.18	5.82	15.08	7.80	4.48	1.40	1.07	1.27	1.28	1.28	3.85	CMS
Max	2.00	1.73	9.75	23.45	43.80	26.25	16.95	1.73	1.33	1.50	1.37	1.37	43.80	CMS
Min	1.70	1.07	1.33	1.30	1.87	1.90	1.80	1.17	1.00	1.00	1.17	1.07	1.00	CMS
Runoff	4.93	3.69	8.24	15.60	40.40	20.22	12.01	3.62	2.86	3.40	3.10	3.44	121.49	MCM

Momentary Peak 44.03 CMS, at 30.33 m. (MSL.), at 18.00 Hours, on Aug 10, 2014

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

WATER YEAR : 2014

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

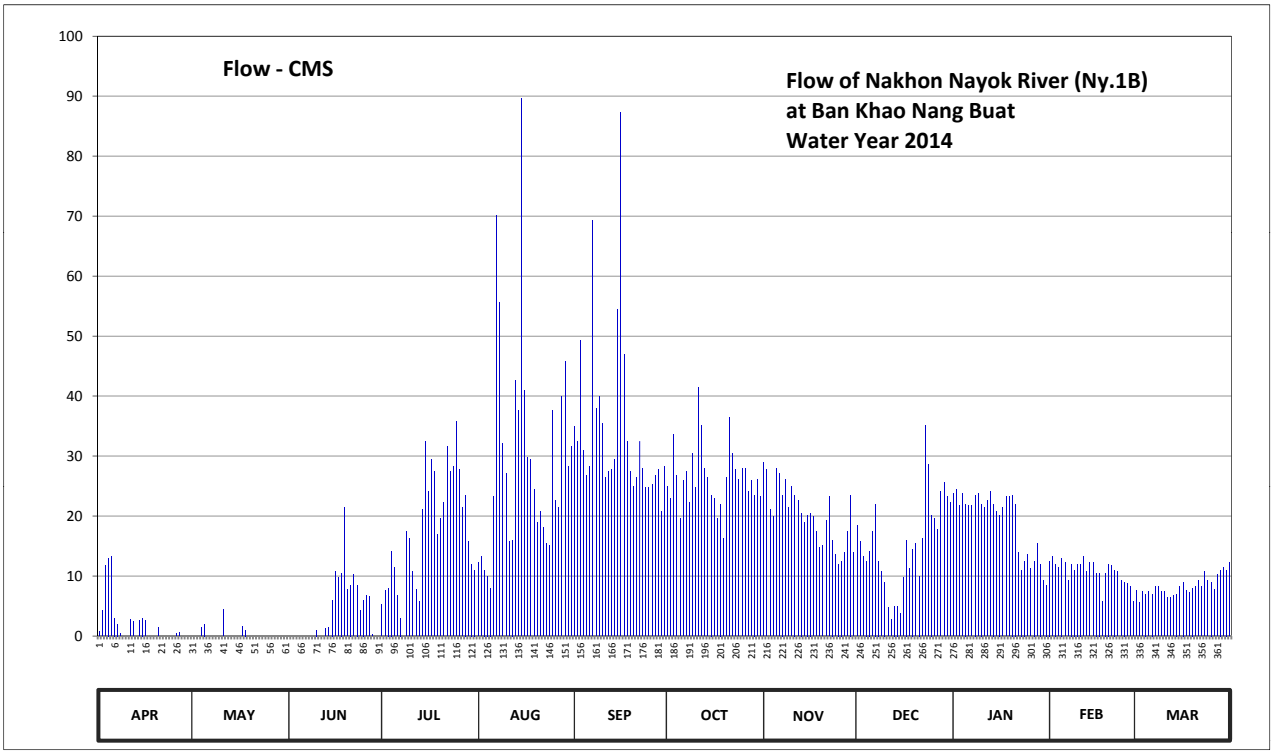
Location : on right bank about 700 meters upstream from Ny.1

	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	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 - 1980 , 1991 to date		
Rated by Flot	-		
Rated by Current Meter	1973 - 1980 , 1991 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.84	3.79	3.65	4.06	4.37	5.13	4.80	4.93	4.58	4.76	4.38	4.18	
2	4.01	3.78	3.63	4.18	4.41	5.05	4.73	4.89	4.49	4.78	4.41	4.08	
3	4.35	3.78	3.69	4.20	4.32	5.57	5.09	4.67	4.41	4.69	4.36	4.17	
4	4.40	3.87	3.70	4.44	4.28	5.00	4.86	4.63	4.38	4.76	4.34	4.15	
5	4.41	3.90	3.65	4.34	4.20	4.86	4.62	4.90	4.44	4.70	4.40	4.17	
6	3.95	3.78	3.67	4.14	4.74	4.91	4.83	4.87	4.55	4.69	4.37	4.15	
7	3.90	3.80	3.65	3.95	6.09	6.07	4.88	4.75	4.70	4.69	4.25	4.21	
8	3.82	3.78	3.60	3.80	5.73	5.23	4.71	4.84	4.38	4.75	4.36	4.21	
9	3.79	3.77	3.68	4.55	5.04	5.30	4.98	4.68	4.31	4.76	4.32	4.17	
10	3.79	3.80	3.85	4.51	4.87	5.15	4.79	4.80	4.24	4.70	4.36	4.17	
11	3.94	4.02	3.70	4.31	4.49	4.85	5.35	4.75	4.04	4.68	4.36	4.12	
12	3.92	3.79	3.80	4.19	4.50	4.88	5.14	4.72	3.94	4.72	4.41	4.12	
13	3.80	3.79	3.86	4.09	5.39	4.89	4.90	4.65	4.05	4.77	4.31	4.14	
14	3.93	3.76	3.87	4.67	5.22	4.95	4.85	4.60	4.05	4.70	4.37	4.15	
15	3.95	3.73	4.10	5.05	6.58	5.70	4.75	4.64	3.99	4.66	4.37	4.21	
16	3.93	3.67	4.31	4.77	5.33	6.52	4.73	4.65	4.27	4.64	4.30	4.24	
17	3.80	3.88	4.27	4.95	4.96	5.51	4.62	4.63	4.50	4.68	4.30	4.18	
18	3.80	3.85	4.30	4.88	4.95	5.05	4.70	4.55	4.33	4.74	4.09	4.16	
19	3.80	3.69	4.68	4.53	4.78	4.88	4.51	4.46	4.45	4.74	4.30	4.20	
20	3.87	3.65	4.19	4.62	4.60	4.80	4.85	4.47	4.48	4.75	4.36	4.21	
21	3.80	3.64	4.22	4.71	4.66	4.85	5.18	4.61	4.28	4.70	4.35	4.25	
22	3.77	3.63	4.29	5.02	4.57	5.05	4.98	4.74	4.51	4.43	4.32	4.21	
23	3.79	3.61	4.22	4.88	4.48	4.90	4.89	4.50	5.14	4.32	4.31	4.31	
24	3.80	3.60	4.01	4.91	4.47	4.79	4.84	4.42	4.92	4.38	4.25	4.25	
25	3.78	3.61	4.10	5.16	5.22	4.79	4.90	4.36	4.64	4.42	4.24	4.24	
26	3.82	3.61	4.14	4.89	4.72	4.81	4.90	4.38	4.62	4.33	4.23	4.19	
27	3.83	3.63	4.13	4.68	4.68	4.86	4.77	4.43	4.56	4.38	4.21	4.29	
28	3.77	3.67	3.81	4.75	5.30	4.89	4.83	4.55	4.77	4.48	4.09	4.32	
29	3.75	3.66	3.80	4.49	5.48	4.66	4.75	4.75	4.82	4.36		4.34	
30	3.79	3.65	3.77	4.36	4.91	4.91	4.84	4.43	4.74	4.25		4.32	
31		3.65		4.32	5.02		4.74		4.71	4.22		4.37	
Mean	3.90	3.74	3.94	4.53	4.91	5.09	4.85	4.64	4.46	4.60	4.31	4.21	
Max	4.41	4.02	4.68	5.16	6.58	6.52	5.35	4.93	5.14	4.78	4.41	4.37	6.58
Min	3.75	3.60	3.60	3.80	4.20	4.66	4.51	4.36	3.94	4.22	4.09	4.08	3.60

Annual Max Momentary Gage Height	7.22	m. (MSL.) ,	at 12.00 Hours , on Aug 15 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	2.61	m. (MSL.)
Left Bank Elevation	11.54	m. (MSL.) ,			
Right Bank Elevation	11.54	m. (MSL.) ,	Drainage Area	521	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	0.00	0.00	5.20	12.25	34.90	25.00	28.90	18.40	23.80	12.50	7.60		
2	4.20	0.00	0.00	7.60	13.30	32.50	22.90	27.70	15.70	24.40	13.30	5.60		
3	11.75	0.00	0.00	8.00	11.00	49.30	33.70	21.10	13.30	21.70	12.00	7.40		
4	13.00	1.40	0.00	14.20	10.00	31.00	26.80	19.90	12.50	23.80	11.50	7.00		
5	13.30	2.00	0.00	11.50	8.00	26.80	19.60	28.00	14.20	22.00	13.00	7.40		
6	3.00	0.00	0.00	6.80	23.20	28.30	25.90	27.10	17.50	21.70	12.25	7.00		
7	2.00	0.00	0.00	3.00	70.10	69.30	27.40	23.50	22.00	21.70	9.25	8.25		
8	0.40	0.00	0.00	0.00	55.70	37.90	22.30	26.20	12.50	23.50	12.00	8.25		
9	0.00	0.00	0.00	17.50	32.20	40.00	30.40	21.40	10.75	23.80	11.00	7.40		
10	0.00	0.00	1.00	16.30	27.10	35.50	24.70	25.00	9.00	22.00	12.00	7.40		
11	2.80	4.40	0.00	10.75	15.70	26.50	41.50	23.50	4.80	21.40	12.00	6.40		
12	2.40	0.00	0.00	7.80	16.00	27.40	35.20	22.60	2.80	22.60	13.30	6.40		
13	0.00	0.00	1.20	5.80	42.70	27.70	28.00	20.50	5.00	24.10	10.75	6.80		
14	2.60	0.00	1.40	21.10	37.60	29.50	26.50	19.00	5.00	22.00	12.25	7.00		
15	3.00	0.00	6.00	32.50	89.70	54.50	23.50	20.20	3.80	20.80	12.25	8.25		
16	2.60	0.00	10.75	24.10	40.90	87.30	22.90	20.50	9.75	20.20	10.50	9.00		
17	0.00	1.60	9.75	29.50	29.80	46.90	19.60	19.90	16.00	21.40	10.50	7.60		
18	0.00	1.00	10.50	27.40	29.50	32.50	22.00	17.50	11.25	23.20	5.80	7.20		
19	0.00	0.00	21.40	16.90	24.40	27.40	16.30	14.80	14.50	23.20	10.50	8.00		
20	1.40	0.00	7.80	19.60	19.00	25.00	26.50	15.10	15.40	23.50	12.00	8.25		
21	0.00	0.00	8.50	22.30	20.80	26.50	36.40	19.30	10.00	22.00	11.75	9.25		
22	0.00	0.00	10.25	31.60	18.10	32.50	30.40	23.20	16.30	13.90	11.00	8.25		
23	0.00	0.00	8.50	27.40	15.40	28.00	27.70	16.00	35.20	11.00	10.75	10.75		
24	0.00	0.00	4.20	28.30	15.10	24.70	26.20	13.60	28.60	12.50	9.25	9.25		
25	0.00	0.00	6.00	35.80	37.60	24.70	28.00	12.00	20.20	13.60	9.00	9.00		
26	0.40	0.00	6.80	27.70	22.60	25.30	28.00	12.50	19.60	11.25	8.75	7.80		
27	0.60	0.00	6.60	21.40	21.40	26.80	24.10	13.90	17.80	12.50	8.25	10.25		
28	0.00	0.00	0.20	23.50	40.00	27.70	25.90	17.50	24.10	15.40	5.80	11.00		
29	0.00	0.00	0.00	15.70	45.80	20.80	23.50	23.50	25.60	12.00		11.50		
30	0.00	0.00	0.00	12.00	28.30	28.30	26.20	13.90	23.20	9.25		11.00		
31		0.00		11.00	31.60		23.20		22.30	8.50		12.25		
Total	64.25	10.40	120.85	542.25	904.85	1035.50	820.30	607.80	477.05	592.70	303.20	258.50	5737.65	CMSDAY
Mean	2.14	0.34	4.03	17.49	29.19	34.52	26.46	20.26	15.39	19.12	10.83	8.34	15.72	CMS
Max	13.30	4.40	21.40	35.80	89.70	87.30	41.50	28.90	35.20	24.40	13.30	12.25	89.70	CMS
Min	0.00	0.00	0.00	0.00	8.00	20.80	16.30	12.00	2.80	8.50	5.80	5.60	0.00	CMS
Runoff	5.55	0.90	10.44	46.85	78.18	89.47	70.87	52.51	41.22	51.21	26.20	22.33	495.73	MCM

Momentary Peak 119.00 CMS. at 7.22 m. (MSL.) at 12.00 Hours , on Aug 15 , 2014

Runoff Yield 30.17 Liters/Second/Square KM. Momentary Peak Yield 228.407 Liters/Second/Square KM.

WATER YEAR : 2014

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

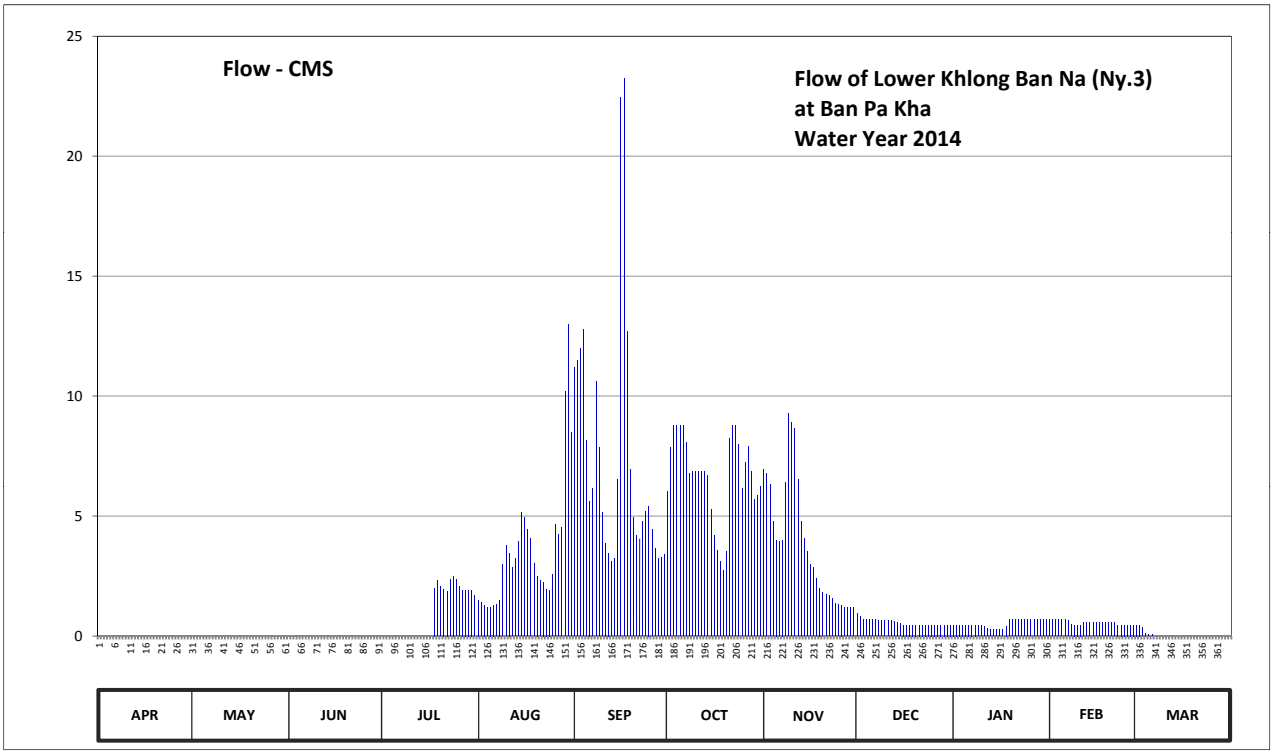
Location : on left bank near Wat Ban Pa Kha.

	Ban Pa Kha	**Amphoe** Ban Na	**Changwat** Nakhon Nayok
Drainge Area	203 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+6.330 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 10 meters from the top staff gage.		**Elevation** +12.695 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1977 to date		
Rating Operation			
Period of Rating	1977 - 1978 , 1980, 1988 to date		
Rated by Flot	-		
Rated by Current Meter	1977 - 1978 , 1980, 1988 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Flow effected by the local weir.		
	Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.73	6.43	6.43	6.43	7.57	8.94	8.34	8.46	7.41	7.23	7.33	7.23	
2	6.73	6.43	6.43	6.43	7.54	8.97	8.58	8.44	7.37	7.23	7.33	7.23	
3	6.73	6.43	6.43	6.43	7.51	9.02	8.70	8.38	7.33	7.23	7.33	7.17	
4	6.73	6.43	6.43	6.43	7.48	9.10	8.70	8.17	7.33	7.23	7.33	7.06	
5	6.73	6.43	6.43	6.43	7.49	8.62	8.70	8.05	7.33	7.23	7.33	7.03	
6	6.73	6.43	6.43	6.43	7.51	8.29	8.70	8.04	7.33	7.23	7.33	7.03	
7	6.73	6.43	6.43	6.43	7.52	8.36	8.61	8.05	7.33	7.23	7.32	7.00	
8	6.73	6.43	6.43	6.43	7.57	8.88	8.44	8.39	7.31	7.23	7.24	6.98	
9	6.73	6.43	6.43	6.43	7.88	8.58	8.45	8.75	7.31	7.22	7.23	6.98	
10	6.73	6.43	6.43	6.43	8.01	8.22	8.45	8.71	7.31	7.22	7.23	6.97	
11	6.73	6.43	6.43	6.43	7.96	8.03	8.45	8.68	7.31	7.20	7.23	6.90	
12	6.73	6.43	6.43	6.43	7.86	7.96	8.45	8.41	7.31	7.15	7.28	6.88	
13	6.73	6.43	6.43	6.43	7.92	7.90	8.45	8.17	7.30	7.14	7.28	6.88	
14	6.73	6.43	6.43	6.43	8.04	7.92	8.43	8.06	7.28	7.13	7.28	6.88	
15	6.73	6.43	6.43	6.43	8.22	8.41	8.24	7.97	7.27	7.13	7.28	6.88	
16	6.73	6.43	6.43	6.43	8.19	9.95	8.08	7.88	7.23	7.13	7.28	6.88	
17	6.73	6.43	6.43	6.53	8.12	10.01	7.98	7.86	7.23	7.13	7.28	6.87	
18	6.73	6.43	6.43	7.70	8.06	9.09	7.90	7.78	7.23	7.21	7.28	6.76	
19	6.73	6.43	6.43	7.76	7.89	8.46	7.84	7.70	7.23	7.33	7.28	6.75	
20	6.73	6.43	6.43	7.71	7.80	8.19	7.97	7.65	7.23	7.33	7.28	6.73	
21	6.73	6.43	6.43	7.69	7.76	8.08	8.63	7.63	7.23	7.33	7.28	6.73	
22	6.73	6.43	6.43	7.67	7.75	8.06	8.70	7.62	7.23	7.33	7.28	6.73	
23	6.73	6.43	6.43	7.77	7.69	8.17	8.70	7.59	7.23	7.33	7.23	6.73	
24	6.73	6.43	6.43	7.80	7.68	8.23	8.60	7.53	7.23	7.33	7.23	6.74	
25	6.73	6.43	6.43	7.77	7.81	8.26	8.36	7.52	7.23	7.33	7.23	6.83	
26	6.73	6.43	6.43	7.71	8.15	8.12	8.50	7.51	7.23	7.33	7.23	6.83	
27	6.73	6.43	6.43	7.68	8.09	7.99	8.59	7.48	7.23	7.33	7.23	6.83	
28	6.73	6.43	6.43	7.68	8.13	7.92	8.45	7.48	7.23	7.33	7.23	6.83	
29	6.73	6.43	6.43	7.68	8.84	7.93	8.30	7.48	7.23	7.33		6.83	
30	6.73	6.43	6.43	7.68	9.12	7.95	8.32	7.48	7.23	7.33		6.83	
31		6.43		7.62	8.66		8.37		7.23	7.33		6.83	
Mean	6.73	6.43	6.43	7.01	7.93	8.45	8.42	7.96	7.27	7.25	7.27	6.90	
Max	6.73	6.43	6.43	7.80	9.12	10.01	8.70	8.75	7.41	7.33	7.33	7.23	10.01
Min	6.73	6.43	6.43	6.43	7.48	7.90	7.84	7.48	7.23	7.13	7.23	6.73	6.43

Annual Max Momentary Gage Height	10.63	m. (MSL.) ,	at 18.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	6.33	m. (MSL.) ,	River Bed	6.47	m. (MSL.)
Left Bank Elevation	13.60	m. (MSL.) ,			
Right Bank Elevation	13.63	m. (MSL.) ,	Drainage Area	203	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	1.50	11.20	6.01	6.93	0.93	0.46	0.69	0.46		
2	0.00	0.00	0.00	0.00	1.39	11.50	7.85	6.77	0.81	0.46	0.69	0.46		
3	0.00	0.00	0.00	0.00	1.29	12.00	8.80	6.31	0.69	0.46	0.69	0.34		
4	0.00	0.00	0.00	0.00	1.18	12.80	8.80	4.79	0.69	0.46	0.69	0.12		
5	0.00	0.00	0.00	0.00	1.21	8.16	8.80	4.00	0.69	0.46	0.69	0.06		
6	0.00	0.00	0.00	0.00	1.29	5.63	8.80	3.94	0.69	0.46	0.69	0.06		
7	0.00	0.00	0.00	0.00	1.32	6.16	8.08	4.00	0.69	0.46	0.66	0.00		
8	0.00	0.00	0.00	0.00	1.50	10.60	6.77	6.39	0.63	0.46	0.48	0.00		
9	0.00	0.00	0.00	0.00	2.98	7.85	6.85	9.30	0.63	0.44	0.46	0.00		
10	0.00	0.00	0.00	0.00	3.76	5.14	6.85	8.90	0.63	0.44	0.46	0.00		
11	0.00	0.00	0.00	0.00	3.46	3.88	6.85	8.64	0.63	0.40	0.46	0.00		
12	0.00	0.00	0.00	0.00	2.86	3.46	6.85	6.54	0.63	0.30	0.56	0.00		
13	0.00	0.00	0.00	0.00	3.22	3.10	6.85	4.79	0.60	0.28	0.56	0.00		
14	0.00	0.00	0.00	0.00	3.94	3.22	6.70	4.06	0.56	0.26	0.56	0.00		
15	0.00	0.00	0.00	0.00	5.14	6.54	5.28	3.52	0.54	0.26	0.56	0.00		
16	0.00	0.00	0.00	0.00	4.93	22.45	4.18	2.98	0.46	0.26	0.56	0.00		
17	0.00	0.00	0.00	0.00	4.44	23.24	3.58	2.86	0.46	0.26	0.56	0.00		
18	0.00	0.00	0.00	2.00	4.06	12.70	3.10	2.40	0.46	0.42	0.56	0.00		
19	0.00	0.00	0.00	2.30	3.04	6.93	2.74	2.00	0.46	0.69	0.56	0.00		
20	0.00	0.00	0.00	2.05	2.50	4.93	3.52	1.80	0.46	0.69	0.56	0.00		
21	0.00	0.00	0.00	1.96	2.30	4.18	8.24	1.72	0.46	0.69	0.56	0.00		
22	0.00	0.00	0.00	1.88	2.25	4.06	8.80	1.68	0.46	0.69	0.56	0.00		
23	0.00	0.00	0.00	2.35	1.96	4.79	8.80	1.57	0.46	0.69	0.46	0.00		
24	0.00	0.00	0.00	2.50	1.92	5.21	8.00	1.36	0.46	0.69	0.46	0.00		
25	0.00	0.00	0.00	2.35	2.56	5.42	6.16	1.32	0.46	0.69	0.46	0.00		
26	0.00	0.00	0.00	2.05	4.65	4.44	7.23	1.29	0.46	0.69	0.46	0.00		
27	0.00	0.00	0.00	1.92	4.24	3.64	7.92	1.18	0.46	0.69	0.46	0.00		
28	0.00	0.00	0.00	1.92	4.51	3.22	6.85	1.18	0.46	0.69	0.46	0.00		
29	0.00	0.00	0.00	1.92	10.20	3.28	5.70	1.18	0.46	0.69		0.00		
30	0.00	0.00	0.00	1.92	13.00	3.40	5.85	1.18	0.46	0.69		0.00		
31		0.00		1.68	8.48		6.24		0.46	0.69		0.00		
Total	0.00	0.00	0.00	28.80	111.08	223.13	207.05	114.58	17.40	15.97	15.58	1.50	735.09	CMSDAY
Mean	0.00	0.00	0.00	0.93	3.58	7.44	6.68	3.82	0.56	0.52	0.56	0.05	2.01	CMS
Max	0.00	0.00	0.00	2.50	13.00	23.24	8.80	9.30	0.93	0.69	0.69	0.46	23.24	CMS
Min	0.00	0.00	0.00	0.00	1.18	3.10	2.74	1.18	0.46	0.26	0.46	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	2.49	9.60	19.28	17.89	9.90	1.50	1.38	1.35	0.13	63.51	MCM

Momentary Peak 32.07 CMS. at 10.63 m. (MSL.) at 18.00 Hours , on Sep 16 , 2014

Runoff Yield 9.92 Liters/Second/Square KM. Momentary Peak Yield 157.825 Liters/Second/Square KM.

WATER YEAR : 2014

BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

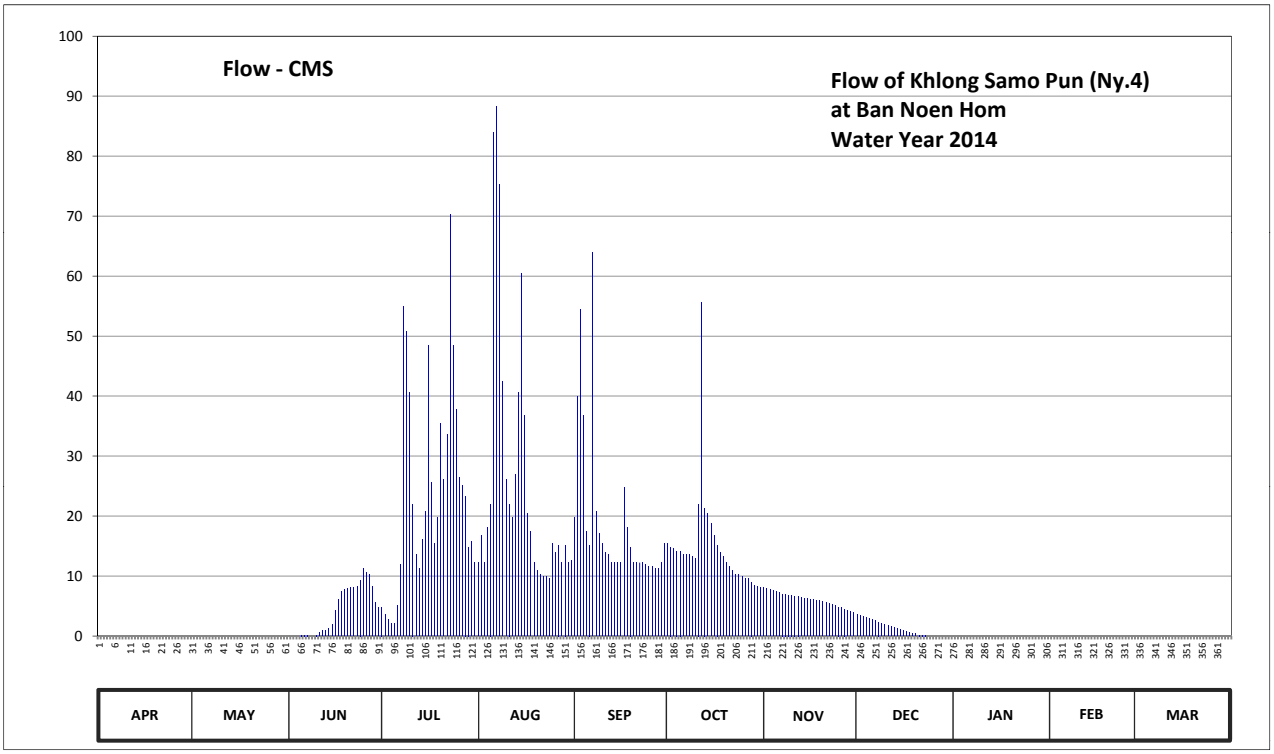
Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	Ban Noen Hom	**Amphoe** Mueang	**Changwat** Prachin Buri
Drainge Area	128 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+376.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +382.580 m. (MSL.)
Gage Reading Frequency	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 Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.37	376.35	376.42	376.77	377.10	377.33	377.20	376.95	376.70	376.46	376.40	376.37	
2	376.37	376.35	376.43	376.70	377.24	377.80	377.18	376.94	376.69	376.46	376.40	376.40	
3	376.37	376.35	376.45	376.65	377.10	378.04	377.17	376.93	376.68	376.45	376.40	376.40	
4	376.37	376.35	376.50	376.62	377.28	377.73	377.16	376.92	376.67	376.45	376.40	376.40	
5	376.37	376.35	376.51	376.62	377.40	377.26	377.16	376.91	376.66	376.45	376.39	376.40	
6	376.37	376.35	376.51	376.78	378.50	377.19	377.14	376.90	376.65	376.44	376.39	376.39	
7	376.37	376.35	376.51	377.09	378.57	378.20	377.14	376.89	376.64	376.44	376.39	376.39	
8	376.37	376.35	376.50	378.05	378.36	377.36	377.14	376.89	376.63	376.44	376.39	376.39	
9	376.37	376.35	376.50	377.98	377.84	377.25	377.13	376.88	376.62	376.44	376.39	376.39	
10	376.37	376.35	376.51	377.81	377.49	377.20	377.12	376.88	376.61	376.43	376.39	376.39	
11	376.37	376.35	376.53	377.40	377.40	377.15	377.40	376.87	376.60	376.43	376.39	376.39	
12	376.37	376.35	376.55	377.14	377.33	377.14	378.06	376.87	376.59	376.43	376.39	376.39	
13	376.37	376.35	376.55	377.07	377.51	377.10	377.38	376.86	376.58	376.43	376.39	376.39	
14	376.36	376.38	376.57	377.22	377.81	377.10	377.35	376.85	376.57	376.43	376.38	376.39	
15	376.36	376.38	376.61	377.36	378.14	377.10	377.30	376.85	376.56	376.43	376.38	376.38	
16	376.36	376.38	376.74	377.94	377.73	377.10	377.24	376.84	376.55	376.42	376.38	376.38	
17	376.36	376.38	376.84	377.48	377.35	377.46	377.19	376.84	376.54	376.42	376.38	376.38	
18	376.36	376.38	376.91	377.20	377.26	377.28	377.15	376.83	376.53	376.42	376.38	376.38	
19	376.36	376.38	376.93	377.33	377.10	377.18	377.13	376.83	376.52	376.42	376.38	376.38	
20	376.36	376.38	376.94	377.70	377.06	377.10	377.10	376.82	376.52	376.41	376.38	376.38	
21	376.36	376.38	376.95	377.49	377.04	377.10	377.08	376.81	376.51	376.41	376.38	376.37	
22	376.36	376.38	376.95	377.66	377.03	377.10	377.06	376.80	376.51	376.41	376.38	376.37	
23	376.36	376.38	376.96	378.29	377.03	377.10	377.04	376.79	376.51	376.41	376.38	376.37	
24	376.36	376.37	377.01	377.94	377.02	377.09	377.04	376.78	376.50	376.41	376.38	376.37	
25	376.35	376.37	377.07	377.75	377.20	377.08	377.03	376.77	376.50	376.41	376.38	376.37	
26	376.35	376.37	377.05	377.50	377.15	377.08	377.02	376.76	376.49	376.41	376.38	376.37	
27	376.35	376.37	377.04	377.47	377.19	377.07	377.02	376.75	376.49	376.41	376.38	376.37	
28	376.35	376.37	376.96	377.43	377.10	377.07	377.00	376.74	376.48	376.41	376.38	376.37	
29	376.35	376.37	376.81	377.18	377.19	377.10	376.97	376.73	376.48	376.40		376.37	
30	376.35	376.37	376.76	377.21	377.10	377.20	376.96	376.72	376.47	376.40		376.37	
31		376.37		377.10	377.11		376.95		376.47	376.40		376.37	
Mean	376.36	376.36	376.72	377.35	377.41	377.27	377.16	376.84	376.57	376.43	376.39	376.38	
Max	376.37	376.38	377.07	378.29	378.57	378.20	378.06	376.95	376.70	376.46	376.40	376.40	378.57
Min	376.35	376.35	376.42	376.62	377.02	377.07	376.95	376.72	376.47	376.40	376.38	376.37	376.35

Annual Max Momentary Gage Height	379.10	m. (MSL.) ,	at 06.00 Hours , on Jul 23 , 2014		
Zero Gage at Bottom Elevation	376.10	m. (MSL.) ,	River Bed	374.38	m. (MSL.)
Left Bank Elevation	382.58	m. (MSL.) ,			
Right Bank Elevation	383.59	m. (MSL.) ,	Drainage Area	128	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	4.86	12.25	19.72	15.50	8.10	3.60	0.00	0.00	0.00		
2	0.00	0.00	0.00	3.60	16.80	40.00	14.85	7.92	3.42	0.00	0.00	0.00		
3	0.00	0.00	0.00	2.70	12.25	54.40	14.53	7.74	3.24	0.00	0.00	0.00		
4	0.00	0.00	0.00	2.16	18.10	36.85	14.20	7.56	3.06	0.00	0.00	0.00		
5	0.00	0.00	0.18	2.16	22.00	17.45	14.20	7.38	2.88	0.00	0.00	0.00		
6	0.00	0.00	0.18	5.04	84.00	15.18	13.55	7.20	2.70	0.00	0.00	0.00		
7	0.00	0.00	0.18	11.92	88.20	64.00	13.55	7.02	2.52	0.00	0.00	0.00		
8	0.00	0.00	0.00	55.00	75.20	20.70	13.55	7.02	2.34	0.00	0.00	0.00		
9	0.00	0.00	0.00	50.80	42.40	17.13	13.23	6.84	2.16	0.00	0.00	0.00		
10	0.00	0.00	0.18	40.60	26.05	15.50	12.90	6.84	1.98	0.00	0.00	0.00		
11	0.00	0.00	0.54	22.00	22.00	13.87	22.00	6.66	1.80	0.00	0.00	0.00		
12	0.00	0.00	0.90	13.55	19.72	13.55	55.60	6.66	1.62	0.00	0.00	0.00		
13	0.00	0.00	0.90	11.28	26.95	12.25	21.35	6.48	1.44	0.00	0.00	0.00		
14	0.00	0.00	1.26	16.15	40.60	12.25	20.38	6.30	1.26	0.00	0.00	0.00		
15	0.00	0.00	1.98	20.70	60.40	12.25	18.75	6.30	1.08	0.00	0.00	0.00		
16	0.00	0.00	4.32	48.40	36.85	12.25	16.80	6.12	0.90	0.00	0.00	0.00		
17	0.00	0.00	6.12	25.60	20.38	24.70	15.18	6.12	0.72	0.00	0.00	0.00		
18	0.00	0.00	7.38	15.50	17.45	18.10	13.87	5.94	0.54	0.00	0.00	0.00		
19	0.00	0.00	7.74	19.72	12.25	14.85	13.23	5.94	0.36	0.00	0.00	0.00		
20	0.00	0.00	7.92	35.50	10.95	12.25	12.25	5.76	0.36	0.00	0.00	0.00		
21	0.00	0.00	8.10	26.05	10.30	12.25	11.60	5.58	0.18	0.00	0.00	0.00		
22	0.00	0.00	8.10	33.70	9.97	12.25	10.95	5.40	0.18	0.00	0.00	0.00		
23	0.00	0.00	8.28	70.30	9.97	12.25	10.30	5.22	0.18	0.00	0.00	0.00		
24	0.00	0.00	9.33	48.40	9.65	11.92	10.30	5.04	0.00	0.00	0.00	0.00		
25	0.00	0.00	11.28	37.75	15.50	11.60	9.97	4.86	0.00	0.00	0.00	0.00		
26	0.00	0.00	10.62	26.50	13.87	11.60	9.65	4.68	0.00	0.00	0.00	0.00		
27	0.00	0.00	10.30	25.15	15.18	11.28	9.65	4.50	0.00	0.00	0.00	0.00		
28	0.00	0.00	8.28	23.35	12.25	11.28	9.00	4.32	0.00	0.00	0.00	0.00		
29	0.00	0.00	5.58	14.85	15.18	12.25	8.46	4.14	0.00	0.00		0.00		
30	0.00	0.00	4.68	15.82	12.25	15.50	8.28	3.96	0.00	0.00		0.00		
31		0.00		12.25	12.57		8.10		0.00	0.00		0.00		
Total	0.00	0.00	124.33	741.36	801.49	569.43	455.73	183.60	38.52	0.00	0.00	0.00	2914.46	CMSDAY
Mean	0.00	0.00	4.14	23.91	25.85	18.98	14.70	6.12	1.24	0.00	0.00	0.00	7.98	CMS
Max	0.00	0.00	11.28	70.30	88.20	64.00	55.60	8.10	3.60	0.00	0.00	0.00	88.20	CMS
Min	0.00	0.00	0.00	2.16	9.65	11.28	8.10	3.96	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	10.74	64.05	69.25	49.20	39.38	15.86	3.33	0.00	0.00	0.00	251.81	MCM

Momentary Peak 136.00 CMS. at 379.10 m. (MSL.) at 06.00 Hours , on Jul 23, 2014

Runoff Yield 62.38 Liters/Second/Square KM. Momentary Peak Yield 1060.925 Liters/Second/Square KM.

WATER YEAR : 2014

BANG PAKONG RIVER BASIN

Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

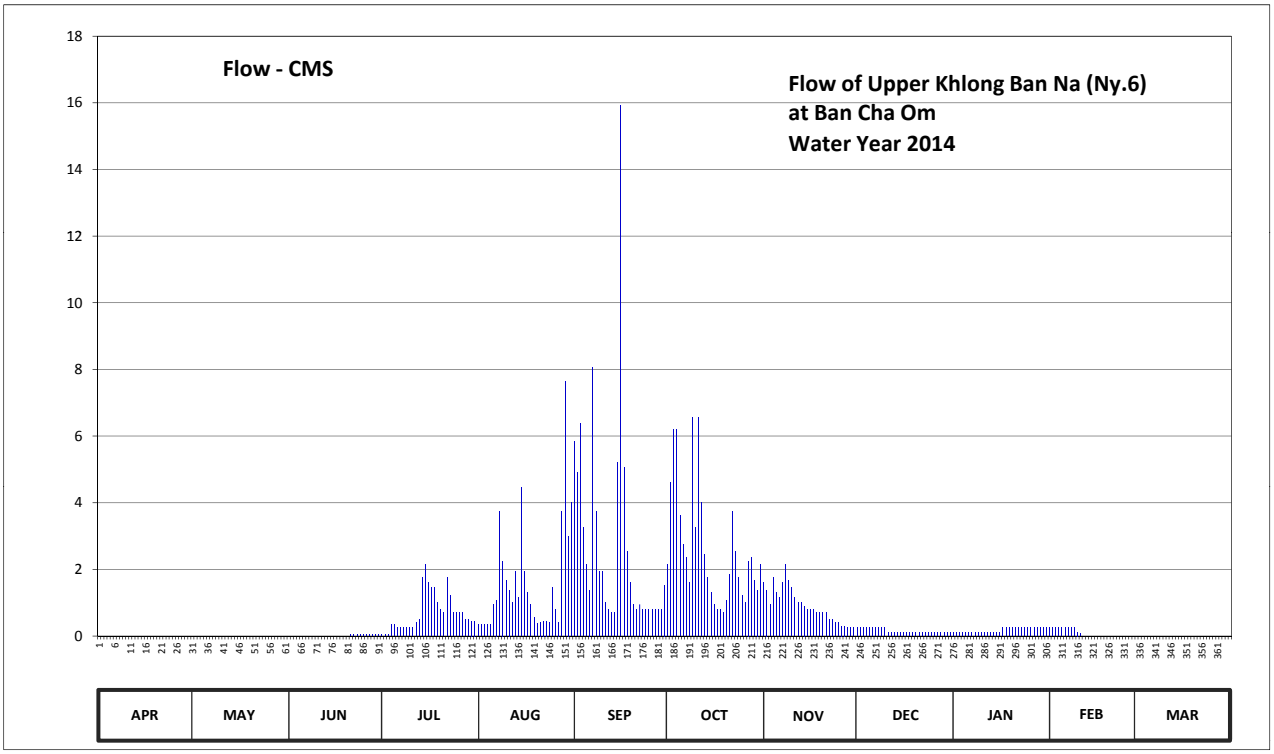
Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	**Amphoe** Kaeng Khoi	**Changwat** Saraburi
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 left bank about 50 meters from the top staff gage.	**Elevation**	+34.960 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	1988 to date		
Rating Operation			
Period of Rating	1988 to date		
Rated by Flot	-		
Rated by Current Meter	1988 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.10	30.10	30.00	30.52	30.64	31.22	30.94	30.88	30.60	30.54	30.60	30.27	
2	30.10	30.07	30.00	30.52	30.64	31.16	31.14	30.85	30.60	30.54	30.60	30.27	
3	30.10	30.07	30.00	30.52	30.64	31.25	31.24	30.79	30.60	30.54	30.60	30.27	
4	30.10	30.07	30.00	30.64	30.64	31.04	31.24	30.90	30.60	30.54	30.60	30.27	
5	30.10	30.07	30.00	30.64	30.64	30.94	31.07	30.84	30.60	30.54	30.60	30.27	
6	30.10	30.05	30.00	30.60	30.79	30.85	31.00	30.82	30.60	30.54	30.60	30.27	
7	30.10	30.05	30.10	30.60	30.81	31.34	30.96	30.88	30.60	30.54	30.60	30.27	
8	30.10	30.05	30.10	30.60	31.08	31.08	30.88	30.94	30.60	30.54	30.60	30.27	
9	30.10	30.05	30.10	30.60	30.95	30.92	31.26	30.89	30.60	30.54	30.60	30.27	
10	30.10	30.05	30.10	30.60	30.89	30.92	31.04	30.86	30.60	30.54	30.55	30.27	
11	30.10	30.03	30.10	30.60	30.85	30.80	31.26	30.82	30.54	30.54	30.53	30.27	
12	30.10	30.03	30.10	30.66	30.80	30.76	31.10	30.80	30.54	30.54	30.50	30.27	
13	30.10	30.03	30.10	30.70	30.92	30.74	30.97	30.80	30.54	30.54	30.48	30.27	
14	30.10	30.03	30.10	30.90	30.82	30.74	30.90	30.78	30.54	30.54	30.45	30.27	
15	30.10	30.03	30.42	30.94	31.13	31.18	30.84	30.76	30.54	30.54	30.45	30.27	
16	30.10	30.02	30.42	30.88	30.92	31.67	30.79	30.76	30.54	30.54	30.40	30.27	
17	30.10	30.00	30.42	30.86	30.84	31.17	30.76	30.76	30.54	30.60	30.35	30.27	
18	30.10	30.00	30.42	30.86	30.79	30.98	30.76	30.74	30.54	30.60	30.33	30.27	
19	30.10	30.00	30.42	30.80	30.71	30.88	30.74	30.74	30.54	30.60	30.30	30.27	
20	30.10	30.00	30.42	30.76	30.65	30.79	30.81	30.74	30.54	30.60	30.27	30.27	
21	30.10	30.00	30.52	30.74	30.67	30.76	30.91	30.74	30.54	30.60	30.27	30.27	
22	30.10	30.00	30.52	30.90	30.68	30.79	31.08	30.70	30.54	30.60	30.27	30.27	
23	30.10	30.00	30.52	30.83	30.68	30.76	30.98	30.70	30.54	30.60	30.27	30.27	
24	30.10	30.00	30.52	30.74	30.66	30.76	30.90	30.66	30.54	30.60	30.27	30.27	
25	30.10	30.00	30.52	30.74	30.86	30.76	30.83	30.66	30.54	30.60	30.27	30.27	
26	30.10	30.00	30.52	30.74	30.76	30.76	30.80	30.62	30.54	30.60	30.27	30.27	
27	30.10	30.00	30.52	30.74	30.67	30.76	30.95	30.62	30.54	30.60	30.27	30.27	
28	30.10	30.00	30.52	30.70	31.08	30.76	30.96	30.60	30.54	30.60	30.27	30.27	
29	30.10	30.00	30.52	30.70	31.32	30.76	30.89	30.60	30.54	30.60		30.27	
30	30.10	30.00	30.52	30.68	31.02	30.87	30.85	30.60	30.54	30.60		30.27	
31		30.00		30.68	31.10		30.94		30.54	30.60		30.27	
Mean	30.10	30.03	30.28	30.71	30.83	30.94	30.96	30.76	30.56	30.57	30.43	30.27	
Max	30.10	30.10	30.52	30.94	31.32	31.67	31.26	30.94	30.60	30.60	30.60	30.27	31.67
Min	30.10	30.00	30.00	30.52	30.64	30.74	30.74	30.60	30.54	30.54	30.27	30.27	30.00

Annual Max Momentary Gage Height	31.90	m. (MSL.) ,	at 06.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	29.60	m. (MSL.) ,	River Bed	30.06	m. (MSL.)
Left Bank Elevation	34.83	m. (MSL.) ,			
Right Bank Elevation	34.83	m. (MSL.) ,	Drainage Area	126	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.05	0.35	5.85	2.15	1.60	0.25	0.10	0.25	0.00		
2	0.00	0.00	0.00	0.05	0.35	4.90	4.60	1.38	0.25	0.10	0.25	0.00		
3	0.00	0.00	0.00	0.05	0.35	6.38	6.20	0.95	0.25	0.10	0.25	0.00		
4	0.00	0.00	0.00	0.35	0.35	3.25	6.20	1.75	0.25	0.10	0.25	0.00		
5	0.00	0.00	0.00	0.35	0.35	2.15	3.62	1.30	0.25	0.10	0.25	0.00		
6	0.00	0.00	0.00	0.25	0.95	1.38	2.75	1.15	0.25	0.10	0.25	0.00		
7	0.00	0.00	0.00	0.25	1.08	8.05	2.35	1.60	0.25	0.10	0.25	0.00		
8	0.00	0.00	0.00	0.25	3.75	3.75	1.60	2.15	0.25	0.10	0.25	0.00		
9	0.00	0.00	0.00	0.25	2.25	1.95	6.55	1.67	0.25	0.10	0.25	0.00		
10	0.00	0.00	0.00	0.25	1.67	1.95	3.25	1.45	0.25	0.10	0.12	0.00		
11	0.00	0.00	0.00	0.25	1.38	1.00	6.55	1.15	0.10	0.10	0.08	0.00		
12	0.00	0.00	0.00	0.40	1.00	0.80	4.00	1.00	0.10	0.10	0.00	0.00		
13	0.00	0.00	0.00	0.50	1.95	0.70	2.45	1.00	0.10	0.10	0.00	0.00		
14	0.00	0.00	0.00	1.75	1.15	0.70	1.75	0.90	0.10	0.10	0.00	0.00		
15	0.00	0.00	0.00	2.15	4.45	5.20	1.30	0.80	0.10	0.10	0.00	0.00		
16	0.00	0.00	0.00	1.60	1.95	15.92	0.95	0.80	0.10	0.10	0.00	0.00		
17	0.00	0.00	0.00	1.45	1.30	5.05	0.80	0.80	0.10	0.25	0.00	0.00		
18	0.00	0.00	0.00	1.45	0.95	2.55	0.80	0.70	0.10	0.25	0.00	0.00		
19	0.00	0.00	0.00	1.00	0.55	1.60	0.70	0.70	0.10	0.25	0.00	0.00		
20	0.00	0.00	0.00	0.80	0.37	0.95	1.08	0.70	0.10	0.25	0.00	0.00		
21	0.00	0.00	0.05	0.70	0.42	0.80	1.85	0.70	0.10	0.25	0.00	0.00		
22	0.00	0.00	0.05	1.75	0.45	0.95	3.75	0.50	0.10	0.25	0.00	0.00		
23	0.00	0.00	0.05	1.23	0.45	0.80	2.55	0.50	0.10	0.25	0.00	0.00		
24	0.00	0.00	0.05	0.70	0.40	0.80	1.75	0.40	0.10	0.25	0.00	0.00		
25	0.00	0.00	0.05	0.70	1.45	0.80	1.23	0.40	0.10	0.25	0.00	0.00		
26	0.00	0.00	0.05	0.70	0.80	0.80	1.00	0.30	0.10	0.25	0.00	0.00		
27	0.00	0.00	0.05	0.70	0.42	0.80	2.25	0.30	0.10	0.25	0.00	0.00		
28	0.00	0.00	0.05	0.50	3.75	0.80	2.35	0.25	0.10	0.25	0.00	0.00		
29	0.00	0.00	0.05	0.50	7.65	0.80	1.67	0.25	0.10	0.25		0.00		
30	0.00	0.00	0.05	0.45	3.00	1.53	1.38	0.25	0.10	0.25		0.00		
31		0.00		0.45	4.00		2.15		0.10	0.25		0.00		
Total	0.00	0.00	0.50	21.83	49.29	82.96	81.58	27.40	4.60	5.35	2.45	0.00	275.96	CMSDAY
Mean	0.00	0.00	0.02	0.70	1.59	2.77	2.63	0.91	0.15	0.17	0.09	0.00	0.76	CMS
Max	0.00	0.00	0.05	2.15	7.65	15.92	6.55	2.15	0.25	0.25	0.25	0.00	15.92	CMS
Min	0.00	0.00	0.00	0.05	0.35	0.70	0.70	0.25	0.10	0.10	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.04	1.89	4.26	7.17	7.05	2.37	0.40	0.46	0.21	0.00	23.84	MCM

Momentary Peak 23.00 CMS. at 31.90 m. (MSL.) at 06.00 Hours , on Sep 16 , 2014

Runoff Yield 6.00 Liters/Second/Square KM. Momentary Peak Yield 182.540 Liters/Second/Square KM.

WATER YEAR : 2014

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	Water - stage recorder.		
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	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	1973 - 1978 , 1999 to date		
Rated by Flot	-		
Rated by Current Meter	1973 - 1978 , 1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records very good. Stage-discharge relation defined by 42 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

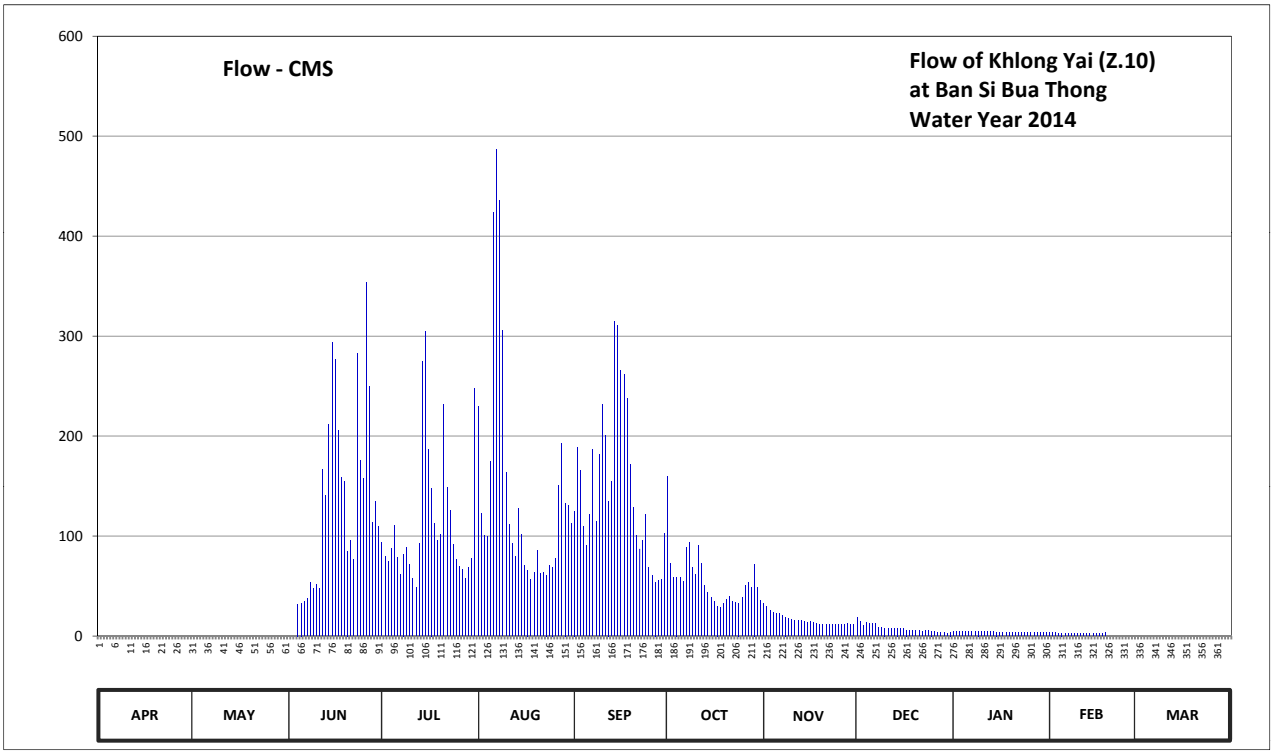
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.24	5.00	4.76	6.55	9.32	7.28	8.00	4.76	4.21	3.42	3.32	3.38	
2	4.23	4.88	4.66	6.18	7.22	8.56	5.99	4.65	4.04	3.44	3.31	3.41	
3	4.38	4.76	4.65	6.05	6.71	8.11	5.58	4.51	3.84	3.45	3.31	3.41	
4	4.37	4.73	4.73	6.38	6.69	6.94	5.60	4.43	3.98	3.42	3.29	3.37	
5	4.54	4.82	4.77	6.95	8.30	6.47	5.59	4.37	3.91	3.42	3.30	3.34	
6	4.67	4.97	4.82	6.16	12.22	7.20	5.48	4.39	3.91	3.41	3.27	3.32	
7	4.69	4.91	4.92	5.67	13.05	8.53	6.42	4.30	3.91	3.42	3.27	3.31	
8	4.57	4.75	5.44	6.25	12.37	7.04	6.54	4.24	3.73	3.50	3.28	3.28	
9	4.47	4.56	5.24	6.41	10.57	8.44	5.88	4.16	3.72	3.51	3.28	3.28	
10	4.41	4.46	5.38	5.95	8.08	9.34	5.67	4.13	3.70	3.49	3.27	3.27	
11	4.32	4.42	5.24	5.55	6.97	8.79	6.46	4.08	3.68	3.47	3.27	3.27	
12	4.31	4.45	8.14	5.30	6.51	7.50	5.98	4.07	3.68	3.45	3.27	3.27	
13	4.28	4.48	7.61	6.51	6.19	7.90	5.36	4.06	3.66	3.42	3.27	3.27	
14	4.26	4.52	8.99	10.06	7.34	10.70	5.12	4.02	3.70	3.41	3.27	3.27	
15	4.39	4.60	10.38	10.56	6.74	10.64	4.94	3.97	3.69	3.39	3.27	3.27	
16	4.42	4.50	10.10	8.53	5.92	9.91	4.81	4.01	3.66	3.38	3.27	3.27	
17	4.35	4.53	8.87	7.76	5.80	9.85	4.67	3.96	3.60	3.37	3.27	3.27	
18	4.28	4.54	7.97	7.01	5.52	9.44	4.63	3.92	3.59	3.37	3.27	3.27	
19	4.34	4.64	7.90	6.59	5.72	8.23	4.74	3.89	3.56	3.37	3.38	3.27	
20	4.58	4.70	6.33	6.74	6.34	7.35	4.89	3.88	3.56	3.37	3.55	3.27	
21	4.50	4.65	6.59	9.35	5.71	6.71	4.97	3.86	3.54	3.35	3.49	3.27	
22	4.40	4.54	6.11	7.77	5.72	6.38	4.81	3.86	3.47	3.35	3.95	3.27	
23	4.44	4.45	10.19	7.30	5.66	6.58	4.79	3.86	3.54	3.35	5.12	3.27	
24	4.41	4.39	8.32	6.48	5.93	7.21	4.77	3.86	3.56	3.35	4.83	3.27	
25	4.40	4.35	7.96	6.11	5.89	5.86	4.96	3.86	3.51	3.34	4.25	3.26	
26	4.41	4.35	11.26	5.90	6.12	5.64	5.34	3.86	3.44	3.35	3.99	3.26	
27	4.42	4.37	9.65	5.81	7.81	5.46	5.45	3.86	3.38	3.34	4.44	3.26	
28	4.46	4.61	7.02	5.56	8.65	5.50	5.30	3.94	3.36	3.34	4.63	3.27	
29	4.55	4.85	7.49	5.88	7.46	5.54	5.97	3.86	3.32	3.33		3.35	
30	4.76	4.98	6.94	6.12	7.40	6.77	5.29	3.88	3.25	3.34		3.76	
31		4.91		9.61	7.00		4.84		3.39	3.33		4.17	
Mean	4.43	4.63	7.08	6.87	7.45	7.66	5.45	4.08	3.65	3.40	3.60	3.34	
Max	4.76	5.00	11.26	10.56	13.05	10.70	8.00	4.76	4.21	3.51	5.12	4.17	13.05
Min	4.23	4.35	4.65	5.30	5.52	5.46	4.63	3.86	3.25	3.33	3.27	3.26	3.25

Annual Max Momentary Gage Height 13.11 m. (MSL.) , at 14.00 Hours, on Aug 7, 2014

Zero Gage at Bottom Elevation 1.90 m. (MSL.) , River Bed 1.92 m. (MSL.)

Left Bank Elevation 14.19 m. (MSL.) ,

Right Bank Elevation 15.93 m. (MSL.) , Drainage Area 779 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	94.00	230.20	125.10	160.00	32.80	18.25	4.20	3.20	0.00		
2	0.00	0.00	0.00	79.30	122.40	188.30	72.65	29.50	14.80	4.40	3.10	0.00		
3	0.00	0.00	0.00	74.75	100.40	165.50	58.30	25.75	10.80	4.50	3.10	0.00		
4	0.00	0.00	31.90	87.20	99.60	109.80	59.00	23.75	13.60	4.20	2.90	0.00		
5	0.00	0.00	33.10	110.25	175.00	90.80	58.65	22.25	12.20	4.20	3.00	0.00		
6	0.00	0.00	34.60	78.60	424.00	121.50	54.80	22.75	12.20	4.10	2.70	0.00		
7	0.00	0.00	37.60	61.45	487.00	186.65	88.80	20.50	12.20	4.20	2.70	0.00		
8	0.00	0.00	53.40	82.00	435.25	114.30	93.60	19.00	8.60	5.00	2.80	0.00		
9	0.00	0.00	47.20	88.40	305.90	182.00	68.80	17.20	8.40	5.10	2.80	0.00		
10	0.00	0.00	51.40	71.25	164.00	231.40	61.45	16.60	8.00	4.90	2.70	0.00		
11	0.00	0.00	47.20	57.25	111.15	200.95	90.40	15.60	7.60	4.70	2.70	0.00		
12	0.00	0.00	167.00	49.00	92.40	135.00	72.30	15.40	7.60	4.50	2.70	0.00		
13	0.00	0.00	140.50	92.40	79.65	155.00	50.80	15.20	7.20	4.20	2.70	0.00		
14	0.00	0.00	211.95	274.60	127.80	315.00	43.60	14.40	8.00	4.10	2.70	0.00		
15	0.00	0.00	293.80	305.20	101.60	310.80	38.20	13.40	7.80	3.90	2.70	0.00		
16	0.00	0.00	277.00	186.65	70.20	265.60	34.30	14.20	7.20	3.80	2.70	0.00		
17	0.00	0.00	205.35	148.00	66.00	262.00	30.10	13.20	6.00	3.70	2.70	0.00		
18	0.00	0.00	158.50	112.95	56.20	237.40	28.90	12.40	5.90	3.70	2.70	0.00		
19	0.00	0.00	155.00	95.60	63.20	171.50	32.20	11.80	5.60	3.70	3.80	0.00		
20	0.00	0.00	85.20	101.60	85.60	128.25	36.70	11.60	5.60	3.70	0.00	0.00		
21	0.00	0.00	95.60	232.00	62.85	100.40	39.10	11.20	5.40	3.50	0.00	0.00		
22	0.00	0.00	76.85	148.50	63.20	87.20	34.30	11.20	4.70	3.50	0.00	0.00		
23	0.00	0.00	282.40	126.00	61.10	95.20	33.70	11.20	5.40	3.50	0.00	0.00		
24	0.00	0.00	176.00	91.20	70.55	121.95	33.10	11.20	5.60	3.50	0.00	0.00		
25	0.00	0.00	158.00	76.85	69.15	68.10	38.80	11.20	5.10	3.40	0.00	0.00		
26	0.00	0.00	354.20	69.50	77.20	60.40	50.20	11.20	4.40	3.50	0.00	0.00		
27	0.00	0.00	250.00	66.35	150.50	54.10	53.75	11.20	3.80	3.40	0.00	0.00		
28	0.00	0.00	113.40	57.60	193.25	55.50	49.00	12.80	3.60	3.40	0.00	0.00		
29	0.00	0.00	134.55	68.80	133.20	56.90	71.95	11.20	3.20	3.30		0.00		
30	0.00	0.00	109.80	77.20	130.50	102.80	48.70	11.60	2.50	3.40		0.00		
31		0.00		247.60	112.50		35.20		3.90	3.30		0.00		
Total	0.00	0.00	3781.50	3512.05	4521.55	4499.40	1721.35	481.30	235.15	122.50	54.40	0.00	18929.20	CMSDAY
Mean	0.00	0.00	126.05	113.29	145.86	149.98	55.53	16.04	7.59	3.95	1.94	0.00	51.86	CMS
Max	0.00	0.00	354.20	305.20	487.00	315.00	160.00	32.80	18.25	5.10	3.80	0.00	487.00	CMS
Min	0.00	0.00	0.00	49.00	56.20	54.10	28.90	11.20	2.50	3.30	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	326.72	303.44	390.66	388.75	148.73	41.58	20.32	10.58	4.70	0.00	1635.48	MCM

Momentary Peak 491.80 CMS, at 13.11 m. (MSL.), at 14.00 Hours, on Aug 7, 2014

Runoff Yield 66.57 Liters/Second/Square KM. Momentary Peak Yield 631.322 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

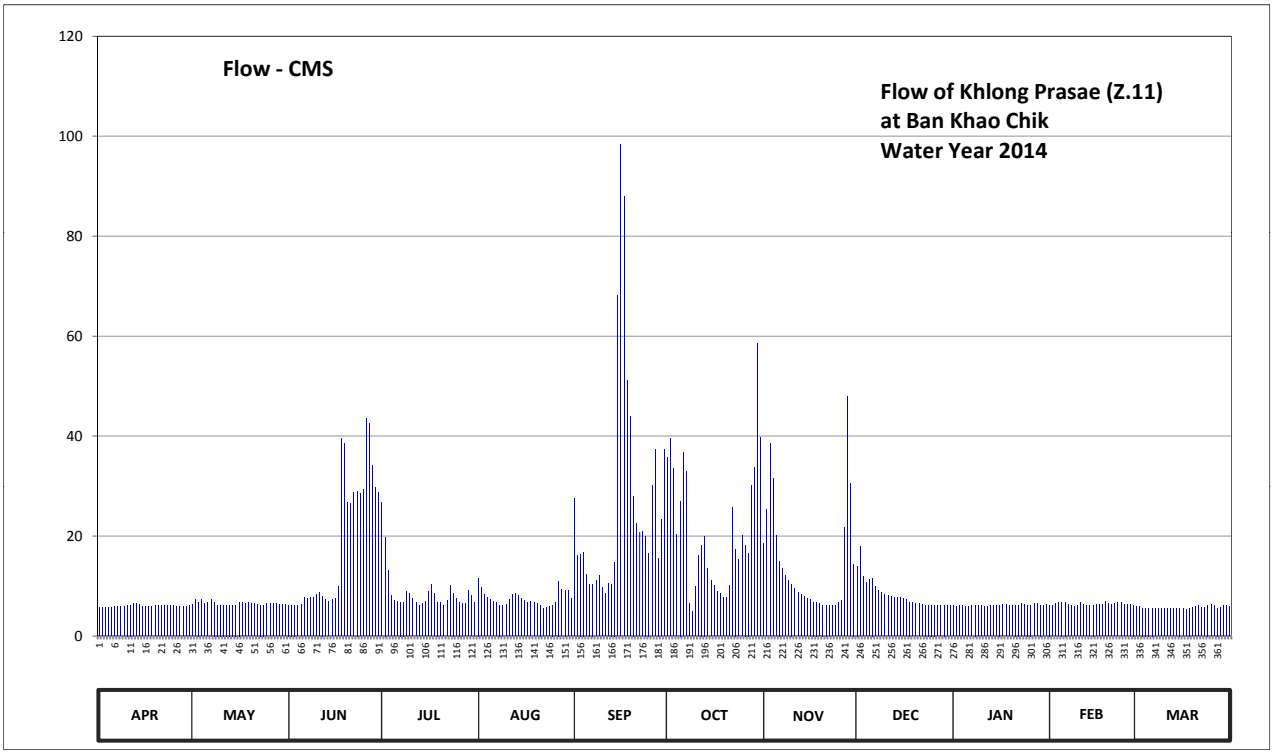
Location : on left bank near the Meteorological Station.

	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 Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	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 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.65	4.69	4.68	5.79	5.04	5.82	6.15	5.43	5.20	4.67	4.68	4.66	
2	4.65	4.75	4.68	5.49	4.92	5.31	6.30	5.73	5.40	4.66	4.67	4.66	
3	4.65	4.72	4.68	5.14	4.82	5.32	6.06	6.26	5.06	4.67	4.70	4.64	
4	4.65	4.75	4.67	4.81	4.78	5.34	5.52	5.98	4.98	4.67	4.71	4.64	
5	4.65	4.70	4.69	4.74	4.75	5.09	5.80	5.51	5.02	4.66	4.72	4.64	
6	4.66	4.71	4.78	4.73	4.73	4.96	6.19	5.25	5.04	4.66	4.72	4.64	
7	4.66	4.76	4.77	4.72	4.71	4.96	6.04	5.17	4.93	4.67	4.69	4.63	
8	4.66	4.72	4.78	4.72	4.68	5.01	4.70	5.08	4.87	4.68	4.67	4.63	
9	4.66	4.68	4.78	4.86	4.67	5.07	4.60	5.01	4.85	4.67	4.66	4.63	
10	4.68	4.68	4.82	4.83	4.69	4.91	4.93	4.96	4.82	4.67	4.67	4.63	
11	4.68	4.68	4.85	4.77	4.76	4.83	5.31	4.90	4.81	4.66	4.71	4.63	
12	4.70	4.68	4.80	4.71	4.82	4.97	5.41	4.85	4.79	4.66	4.69	4.63	
13	4.70	4.68	4.75	4.67	4.83	4.96	5.50	4.82	4.78	4.67	4.67	4.63	
14	4.69	4.68	4.73	4.70	4.81	5.24	5.17	4.79	4.78	4.67	4.67	4.63	
15	4.66	4.68	4.75	4.73	4.77	7.34	5.01	4.77	4.78	4.67	4.68	4.64	
16	4.66	4.72	4.77	4.86	4.74	8.21	4.94	4.76	4.77	4.68	4.69	4.63	
17	4.66	4.71	4.93	4.95	4.71	7.91	4.86	4.72	4.76	4.69	4.69	4.62	
18	4.66	4.70	6.30	4.83	4.73	6.77	4.83	4.72	4.72	4.69	4.69	4.64	
19	4.67	4.71	6.26	4.72	4.71	6.48	4.78	4.70	4.71	4.67	4.73	4.65	
20	4.67	4.70	5.79	4.71	4.70	5.84	4.78	4.68	4.70	4.67	4.70	4.66	
21	4.67	4.70	5.78	4.67	4.68	5.62	4.94	4.68	4.70	4.68	4.69	4.67	
22	4.67	4.69	5.87	4.74	4.63	5.54	5.75	4.67	4.69	4.68	4.70	4.65	
23	4.67	4.68	5.88	4.94	4.65	5.55	5.37	4.67	4.68	4.70	4.71	4.65	
24	4.67	4.68	5.86	4.84	4.66	5.50	5.27	4.67	4.68	4.69	4.71	4.68	
25	4.67	4.70	5.89	4.77	4.68	5.33	5.51	4.71	4.68	4.68	4.69	4.69	
26	4.66	4.70	6.46	4.72	4.71	5.93	5.41	4.74	4.68	4.68	4.69	4.67	
27	4.66	4.70	6.42	4.70	5.00	6.21	5.33	5.59	4.67	4.70	4.69	4.64	
28	4.66	4.70	6.09	4.70	4.89	5.28	5.93	6.64	4.67	4.70	4.68	4.65	
29	4.66	4.69	5.91	4.87	4.88	5.65	6.07	5.94	4.68	4.68		4.67	
30	4.67	4.69	5.87	4.81	4.87	6.21	7.02	5.22	4.67	4.67		4.67	
31		4.69		4.71	4.77		6.31		4.67	4.69		4.66	
Mean	4.67	4.70	5.31	4.84	4.77	5.71	5.48	5.12	4.81	4.68	4.69	4.65	
Max	4.70	4.76	6.46	5.79	5.04	8.21	7.02	6.64	5.40	4.70	4.73	4.69	8.21
Min	4.65	4.68	4.67	4.67	4.63	4.83	4.60	4.67	4.67	4.66	4.66	4.62	4.60

Annual Max Momentary Gage Height	8.31	m. (MSL.) ,	at 18.00 Hours, on Sep 16, 2014		
Zero Gage at Bottom Elevation	2.63	m. (MSL.) ,	River Bed	3.42	m. (MSL.)
Left Bank Elevation	10.85	m. (MSL.) ,			
Right Bank Elevation	10.90	m. (MSL.) ,	Drainage Area	1236	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.75	6.35	6.20	26.75	11.60	27.50	35.75	18.60	14.00	6.05	6.20	5.90		
2	5.75	7.25	6.20	19.80	9.80	16.20	39.50	25.25	18.00	5.90	6.05	5.90		
3	5.75	6.80	6.20	13.10	8.30	16.40	33.50	38.50	11.90	6.05	6.50	5.60		
4	5.75	7.25	6.05	8.15	7.70	16.80	20.40	31.50	10.70	6.05	6.65	5.60		
5	5.75	6.50	6.35	7.10	7.25	12.35	27.00	20.20	11.30	5.90	6.80	5.60		
6	5.90	6.65	7.70	6.95	6.95	10.40	36.75	15.00	11.60	5.90	6.80	5.60		
7	5.90	7.40	7.55	6.80	6.65	10.40	33.00	13.55	9.95	6.05	6.35	5.45		
8	5.90	6.80	7.70	6.80	6.20	11.15	6.50	12.20	9.05	6.20	6.05	5.45		
9	5.90	6.20	7.70	8.90	6.05	12.05	5.00	11.15	8.75	6.05	5.90	5.45		
10	6.20	6.20	8.30	8.45	6.35	9.65	9.95	10.40	8.30	6.05	6.05	5.45		
11	6.20	6.20	8.75	7.55	7.40	8.45	16.20	9.50	8.15	5.90	6.65	5.45		
12	6.50	6.20	8.00	6.65	8.30	10.55	18.20	8.75	7.85	5.90	6.35	5.45		
13	6.50	6.20	7.25	6.05	8.45	10.40	20.00	8.30	7.70	6.05	6.05	5.45		
14	6.35	6.20	6.95	6.50	8.15	14.80	13.55	7.85	7.70	6.05	6.05	5.45		
15	5.90	6.20	7.25	6.95	7.55	68.20	11.15	7.55	7.70	6.05	6.20	5.60		
16	5.90	6.80	7.55	8.90	7.10	98.35	10.10	7.40	7.55	6.20	6.35	5.45		
17	5.90	6.65	9.95	10.25	6.65	87.85	8.90	6.80	7.40	6.35	6.35	5.30		
18	5.90	6.50	39.50	8.45	6.95	51.25	8.45	6.80	6.80	6.35	6.35	5.60		
19	6.05	6.65	38.50	6.80	6.65	44.00	7.70	6.50	6.65	6.05	6.95	5.75		
20	6.05	6.50	26.75	6.65	6.50	28.00	7.70	6.20	6.50	6.05	6.50	5.90		
21	6.05	6.50	26.50	6.05	6.20	22.50	10.10	6.20	6.50	6.20	6.35	6.05		
22	6.05	6.35	28.75	7.10	5.45	20.80	25.75	6.05	6.35	6.20	6.50	5.75		
23	6.05	6.20	29.00	10.10	5.75	21.00	17.40	6.05	6.20	6.50	6.65	5.75		
24	6.05	6.20	28.50	8.60	5.90	20.00	15.40	6.05	6.20	6.35	6.65	6.20		
25	6.05	6.50	29.25	7.55	6.20	16.60	20.20	6.65	6.20	6.20	6.35	6.35		
26	5.90	6.50	43.50	6.80	6.65	30.25	18.20	7.10	6.20	6.20	6.35	6.05		
27	5.90	6.50	42.50	6.50	11.00	37.25	16.60	21.80	6.05	6.50	6.35	5.60		
28	5.90	6.50	34.25	6.50	9.35	15.60	30.25	48.00	6.05	6.50	6.20	5.75		
29	5.90	6.35	29.75	9.05	9.20	23.25	33.75	30.50	6.20	6.20		6.05		
30	6.05	6.35	28.75	8.15	9.05	37.25	58.60	14.40	6.05	6.05		6.05		
31		6.35		6.65	7.55		39.75		6.05	6.35		5.90		
Total	179.70	201.80	551.15	270.60	232.85	809.25	655.30	424.80	255.60	190.40	178.55	176.90	4126.90	CMSDAY
Mean	5.99	6.51	18.37	8.73	7.51	26.97	21.14	14.16	8.25	6.14	6.38	5.71	11.31	CMS
Max	6.50	7.40	43.50	26.75	11.60	98.35	58.60	48.00	18.00	6.50	6.95	6.35	98.35	CMS
Min	5.75	6.20	6.05	6.05	5.45	8.45	5.00	6.05	6.05	5.90	5.90	5.30	5.00	CMS
Runoff	15.53	17.44	47.62	23.38	20.12	69.92	56.62	36.70	22.08	16.45	15.43	15.28	356.56	MCM

Momentary Peak 101.85 CMS, at 8.31 m. (MSL.), at 18.00 Hours, on Sep 16, 2014

Runoff Yield 9.15 Liters/Second/Square KM. Momentary Peak Yield 82.382 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

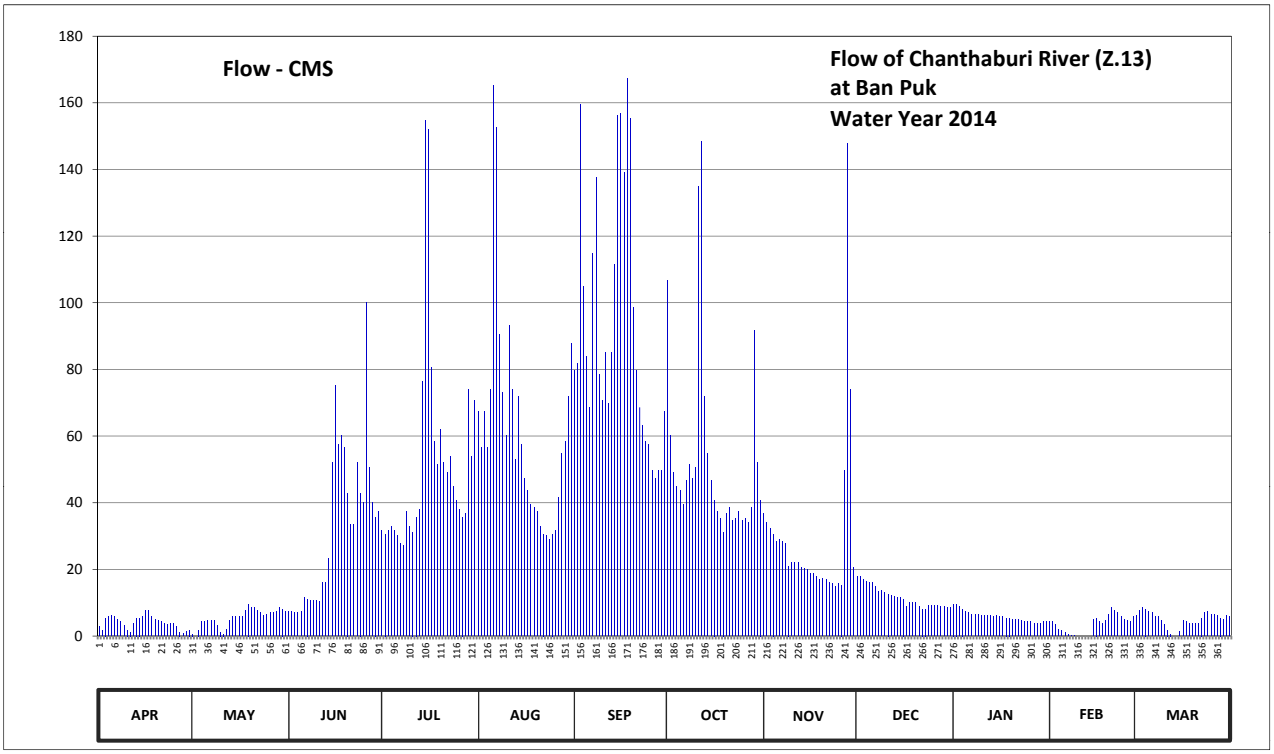
Location : on left bank at Ban Puk

	Ban Puk	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge Area	647 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+6.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +14.374 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1969 to date		
Rated by Flot	-		
Rated by Current Meter	1969 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.42	8.33	8.54	9.09	9.55	9.66	9.86	9.18	8.82	8.60	8.46	8.51	
2	8.38	8.28	8.54	9.07	9.44	9.68	9.48	9.13	8.82	8.60	8.46	8.55	
3	8.49	8.39	8.53	9.09	9.55	10.48	9.35	9.10	8.79	8.58	8.44	8.57	
4	8.50	8.46	8.53	9.11	9.44	9.85	9.30	9.07	8.78	8.56	8.40	8.56	
5	8.51	8.46	8.54	9.09	9.61	9.70	9.28	9.03	8.77	8.54	8.38	8.54	
6	8.50	8.47	8.65	9.06	10.56	9.56	9.22	9.04	8.77	8.53	8.35	8.53	
7	8.48	8.47	8.64	9.02	10.38	9.91	9.32	9.03	8.74	8.52	8.32	8.50	
8	8.46	8.47	8.63	9.01	9.75	10.13	9.38	9.02	8.70	8.52	8.31	8.50	
9	8.43	8.43	8.63	9.19	9.60	9.65	9.33	8.90	8.71	8.52	8.31	8.47	
10	8.39	8.36	8.63	9.11	9.48	9.58	9.37	8.92	8.69	8.51	8.27	8.44	
11	8.36	8.33	8.62	9.08	9.77	9.71	10.08	8.92	8.68	8.51	8.24	8.39	
12	8.45	8.40	8.77	9.16	9.61	9.57	10.32	8.92	8.67	8.51	8.22	8.33	
13	8.49	8.47	8.77	9.20	9.40	9.71	9.59	8.89	8.66	8.51	8.20	8.28	
14	8.49	8.50	8.94	9.63	9.59	9.89	9.42	8.88	8.65	8.50	8.28	8.28	
15	8.50	8.50	9.39	10.41	9.45	10.43	9.32	8.87	8.65	8.51	8.48	8.37	
16	8.55	8.50	9.62	10.37	9.33	10.44	9.24	8.84	8.64	8.50	8.49	8.47	
17	8.55	8.50	9.45	9.67	9.28	10.16	9.19	8.84	8.58	8.50	8.46	8.46	
18	8.50	8.55	9.48	9.46	9.22	10.59	9.15	8.82	8.61	8.49	8.45	8.45	
19	8.48	8.60	9.44	9.38	9.21	10.42	9.08	8.79	8.61	8.49	8.47	8.45	
20	8.47	8.57	9.27	9.50	9.19	9.81	9.18	8.80	8.61	8.48	8.52	8.45	
21	8.46	8.57	9.12	9.39	9.11	9.66	9.21	8.79	8.58	8.48	8.57	8.45	
22	8.45	8.55	9.12	9.35	9.07	9.56	9.14	8.77	8.56	8.48	8.55	8.49	
23	8.44	8.53	9.39	9.41	9.06	9.51	9.15	8.76	8.56	8.47	8.53	8.53	
24	8.45	8.51	9.27	9.30	9.04	9.46	9.19	8.74	8.59	8.46	8.50	8.54	
25	8.45	8.52	9.23	9.24	9.07	9.45	9.14	8.76	8.59	8.46	8.48	8.52	
26	8.42	8.53	9.82	9.20	9.09	9.36	9.15	8.75	8.59	8.46	8.47	8.52	
27	8.36	8.53	9.37	9.16	9.25	9.33	9.13	9.36	8.59	8.45	8.46	8.51	
28	8.34	8.54	9.23	9.18	9.42	9.36	9.21	10.31	8.58	8.45	8.50	8.49	
29	8.37	8.57	9.16	9.61	9.46	9.36	9.76	9.61	8.58	8.45		8.48	
30	8.39	8.56	9.19	9.41	9.59	9.55	9.39	8.89	8.57	8.46		8.51	
31		8.54		9.58	9.73		9.24		8.57	8.46		8.50	
Mean	8.45	8.48	9.02	9.34	9.46	9.78	9.36	8.99	8.66	8.50	8.41	8.47	
Max	8.55	8.60	9.82	10.41	10.56	10.59	10.32	10.31	8.82	8.60	8.57	8.57	10.59
Min	8.34	8.28	8.53	9.01	9.04	9.33	9.08	8.74	8.56	8.45	8.20	8.28	8.20

Annual Max Momentary Gage Height	11.02	m. (MSL.) ,	at 23.00 Hours, on Jul 15, 2014		
Zero Gage at Bottom Elevation	6.30	m. (MSL.) ,	River Bed	5.90	m. (MSL.)
Left Bank Elevation	14.82	m. (MSL.) ,			
Right Bank Elevation	14.84	m. (MSL.) ,	Drainage Area	647	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.76	0.60	7.32	31.77	67.50	79.60	106.60	36.87	17.96	9.60	4.28	6.18		
2	1.60	0.00	7.32	30.63	56.60	81.80	60.20	34.03	17.96	9.60	4.28	7.70		
3	5.42	1.80	6.94	31.77	67.50	159.60	49.00	32.33	16.82	8.84	3.52	8.46		
4	5.80	4.28	6.94	32.90	56.60	105.00	45.00	30.63	16.44	8.08	2.00	8.08		
5	6.18	4.28	7.32	31.77	74.10	84.00	43.60	28.37	16.06	7.32	1.60	7.32		
6	5.80	4.66	11.50	30.07	165.20	68.60	39.40	28.93	16.06	6.94	1.00	6.94		
7	5.04	4.66	11.12	27.80	152.60	114.70	46.60	28.37	14.92	6.56	0.40	5.80		
8	4.28	4.66	10.74	27.23	90.50	137.50	51.40	27.80	13.40	6.56	0.20	5.80		
9	3.14	3.14	10.74	37.43	73.00	78.50	47.40	21.00	13.78	6.56	0.20	4.66		
10	1.80	1.20	10.74	32.90	60.20	70.80	50.60	22.13	13.02	6.18	0.00	3.52		
11	1.20	0.60	10.36	31.20	93.10	85.30	134.80	22.13	12.64	6.18	0.00	1.80		
12	3.90	2.00	16.06	35.73	74.10	69.70	148.40	22.13	12.26	6.18	0.00	0.60		
13	5.42	4.66	16.06	38.00	53.00	85.30	71.90	20.62	11.88	6.18	0.00	0.00		
14	5.42	5.80	23.27	76.30	71.90	111.40	54.80	20.24	11.50	5.80	0.00	0.00		
15	5.80	5.80	52.20	154.70	57.50	156.10	46.60	19.86	11.50	6.18	5.04	1.40		
16	7.70	5.80	75.20	151.90	47.40	156.80	40.80	18.72	11.12	5.80	5.42	4.66		
17	7.70	5.80	57.50	80.70	43.60	139.00	37.43	18.72	8.84	5.80	4.28	4.28		
18	5.80	7.70	60.20	58.40	39.40	167.30	35.17	17.96	9.98	5.42	3.90	3.90		
19	5.04	9.60	56.60	51.40	38.70	155.40	31.20	16.82	9.98	5.42	4.66	3.90		
20	4.66	8.46	42.90	62.00	37.43	98.60	36.87	17.20	9.98	5.04	6.56	3.90		
21	4.28	8.46	33.47	52.20	32.90	79.60	38.70	16.82	8.84	5.04	8.46	3.90		
22	3.90	7.70	33.47	49.00	30.63	68.60	34.60	16.06	8.08	5.04	7.70	5.42		
23	3.52	6.94	52.20	53.90	30.07	63.10	35.17	15.68	8.08	4.66	6.94	6.94		
24	3.90	6.18	42.90	45.00	28.93	58.40	37.43	14.92	9.22	4.28	5.80	7.32		
25	3.90	6.56	40.10	40.80	30.63	57.50	34.60	15.68	9.22	4.28	5.04	6.56		
26	2.76	6.94	100.20	38.00	31.77	49.80	35.17	15.30	9.22	4.28	4.66	6.56		
27	1.20	6.94	50.60	35.73	41.50	47.40	34.03	49.80	9.22	3.90	4.28	6.18		
28	0.80	7.32	40.10	36.87	54.80	49.80	38.70	147.70	8.84	3.90	5.80	5.42		
29	1.40	8.46	35.73	74.10	58.40	49.80	91.80	74.10	8.84	3.90		5.04		
30	1.80	8.08	37.43	53.90	71.90	67.50	52.20	20.62	8.46	4.28		6.18		
31		7.32		70.80	87.90		40.80		8.46	4.28		5.80		
Total	121.92	166.40	967.23	1604.90	1919.36	2796.50	1650.97	871.54	362.58	182.08	96.02	154.22	10893.72	CMSDAY
Mean	4.06	5.37	32.24	51.77	61.91	93.22	53.26	29.05	11.70	5.87	3.43	4.97	29.85	CMS
Max	7.70	9.60	100.20	154.70	165.20	167.30	148.40	147.70	17.96	9.60	8.46	8.46	167.30	CMS
Min	0.80	0.00	6.94	27.23	28.93	47.40	31.20	14.92	8.08	3.90	0.00	0.00	0.00	CMS
Runoff	10.53	14.38	83.57	138.66	165.83	241.62	142.64	75.30	31.33	15.73	8.30	13.33	941.22	MCM

Momentary Peak 197.40 CMS, at 11.02 m. (MSL.), at 23.00 Hours, on Jul 15, 2014

Runoff Yield 46.13 Liters/Second/Square KM. Momentary Peak Yield 305.100 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

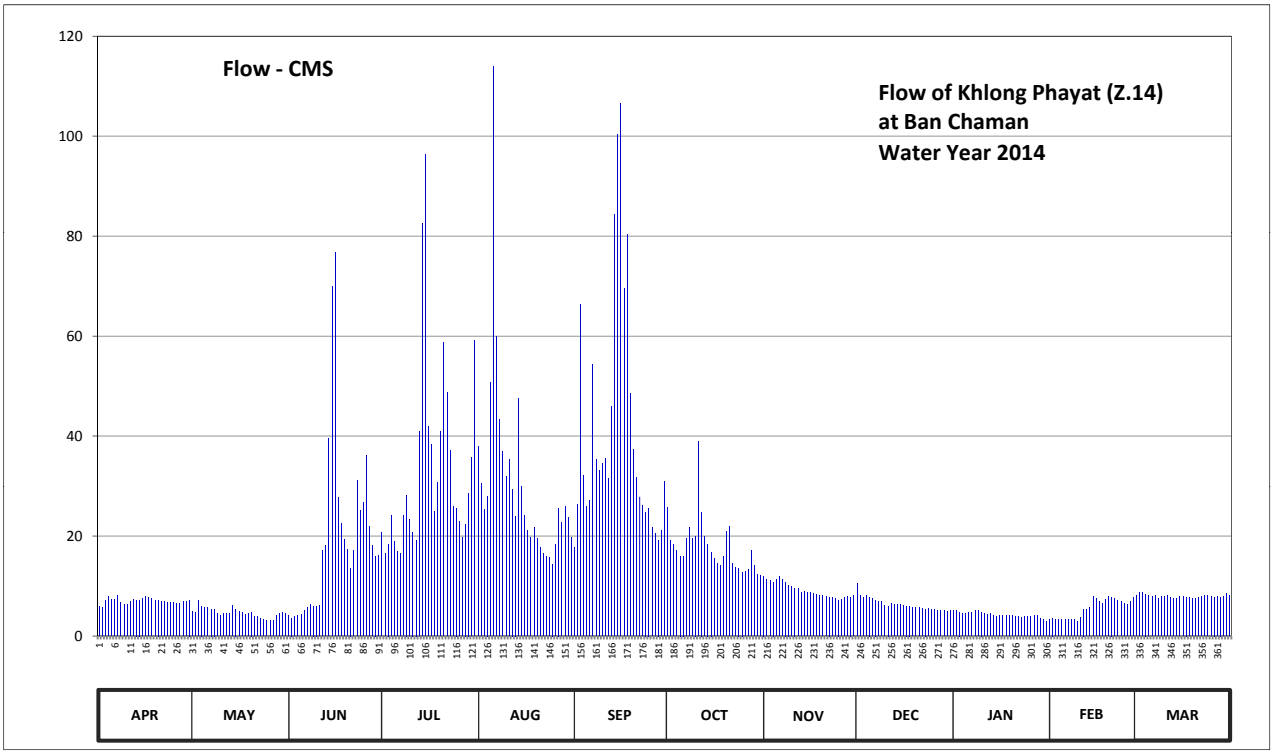
Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban Chaman	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge Area	229 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+5.400 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 30 meters from the top staff gage.		**Elevation** +13.690 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.49	6.41	6.34	7.54	8.50	7.36	7.86	7.00	6.88	6.42	6.27	6.67	
2	6.48	6.39	6.30	7.28	8.13	7.89	7.44	6.94	6.67	6.42	6.30	6.73	
3	6.59	6.59	6.32	7.40	7.83	9.74	7.39	6.92	6.64	6.40	6.28	6.72	
4	6.66	6.50	6.35	7.76	8.00	8.21	7.32	6.90	6.68	6.38	6.27	6.70	
5	6.61	6.48	6.36	7.43	9.10	7.87	7.25	6.95	6.65	6.38	6.27	6.67	
6	6.61	6.48	6.42	7.31	11.34	7.94	7.25	6.99	6.62	6.39	6.27	6.66	
7	6.68	6.45	6.48	7.28	9.49	9.26	7.47	6.95	6.60	6.39	6.28	6.67	
8	6.56	6.45	6.52	7.76	8.77	8.37	7.61	6.90	6.58	6.43	6.27	6.62	
9	6.53	6.37	6.50	8.01	8.45	8.26	7.47	6.85	6.57	6.42	6.27	6.66	
10	6.52	6.34	6.50	7.71	8.20	8.33	7.50	6.82	6.51	6.40	6.24	6.66	
11	6.58	6.37	6.51	7.55	8.37	8.38	8.55	6.80	6.50	6.38	6.31	6.67	
12	6.61	6.37	7.32	7.45	8.07	8.18	7.80	6.79	6.54	6.36	6.45	6.64	
13	6.60	6.37	7.38	8.65	7.75	8.89	7.49	6.72	6.53	6.37	6.44	6.63	
14	6.60	6.51	8.58	10.33	8.96	10.39	7.40	6.74	6.52	6.34	6.47	6.63	
15	6.62	6.45	9.87	10.79	8.10	10.92	7.30	6.73	6.52	6.33	6.66	6.66	
16	6.66	6.41	10.12	8.70	7.76	11.11	7.22	6.72	6.51	6.34	6.62	6.66	
17	6.64	6.39	7.98	8.52	7.57	9.86	7.16	6.71	6.50	6.35	6.57	6.65	
18	6.63	6.36	7.66	7.81	7.48	10.25	7.13	6.69	6.50	6.34	6.54	6.64	
19	6.59	6.38	7.46	8.14	7.61	9.01	7.24	6.68	6.48	6.34	6.61	6.63	
20	6.60	6.40	7.33	8.65	7.47	8.47	7.56	6.67	6.48	6.34	6.66	6.63	
21	6.58	6.33	7.10	9.45	7.36	8.19	7.62	6.66	6.47	6.33	6.65	6.64	
22	6.57	6.32	7.32	9.02	7.28	7.99	7.16	6.65	6.46	6.33	6.63	6.66	
23	6.56	6.29	8.16	8.46	7.24	7.88	7.11	6.64	6.45	6.31	6.59	6.67	
24	6.56	6.27	7.82	7.87	7.23	7.80	7.10	6.62	6.46	6.32	6.57	6.67	
25	6.56	6.26	7.92	7.85	7.15	7.85	7.05	6.60	6.44	6.32	6.55	6.66	
26	6.55	6.26	8.41	7.68	7.39	7.61	7.06	6.61	6.44	6.33	6.53	6.65	
27	6.55	6.26	7.62	7.48	7.85	7.53	7.08	6.64	6.43	6.35	6.57	6.66	
28	6.57	6.35	7.38	7.65	7.67	7.45	7.32	6.66	6.42	6.34	6.64	6.65	
29	6.57	6.37	7.25	8.03	7.87	7.57	7.13	6.65	6.42	6.29		6.66	
30	6.60	6.39	7.26	8.39	7.73	8.15	7.02	6.68	6.41	6.27		6.71	
31		6.37		9.46	7.48		7.01		6.42	6.24		6.68	
Mean	6.58	6.39	7.35	8.17	8.04	8.56	7.36	6.76	6.53	6.35	6.46	6.66	
Max	6.68	6.59	10.12	10.79	11.34	11.11	8.55	7.00	6.88	6.43	6.66	6.73	11.34
Min	6.48	6.26	6.30	7.28	7.15	7.36	7.01	6.60	6.41	6.24	6.24	6.62	6.24

Annual Max Momentary Gage Height	12.99	m. (MSL.) ,	at 03.00 Hours, on Aug 6, 2014		
Zero Gage at Bottom Elevation	5.40	m. (MSL.) ,	River Bed	5.85	m. (MSL.)
Left Bank Elevation	13.30	m. (MSL.) ,			
Right Bank Elevation	13.39	m. (MSL.) ,	Drainage Area	229	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.88	4.92	4.08	20.64	38.00	17.76	25.76	12.00	10.56	5.04	3.24	8.04		
2	5.76	4.68	3.60	16.48	30.60	26.24	19.04	11.28	8.04	5.04	3.60	8.76		
3	7.08	7.08	3.84	18.40	25.28	66.38	18.24	11.04	7.68	4.80	3.36	8.64		
4	7.92	6.00	4.20	24.16	28.00	32.20	17.12	10.80	8.16	4.56	3.24	8.40		
5	7.32	5.76	4.32	18.88	50.70	25.92	16.00	11.40	7.80	4.56	3.24	8.04		
6	7.32	5.76	5.04	16.96	114.02	27.04	16.00	11.88	7.44	4.68	3.24	7.92		
7	8.16	5.40	5.76	16.48	59.85	54.38	19.52	11.40	7.20	4.68	3.36	8.04		
8	6.72	5.40	6.24	24.16	43.40	35.40	21.76	10.80	6.96	5.16	3.24	7.44		
9	6.36	4.44	6.00	28.20	37.00	33.20	19.52	10.20	6.84	5.04	3.24	7.92		
10	6.24	4.08	6.00	23.36	32.00	34.60	20.00	9.84	6.12	4.80	2.88	7.92		
11	6.96	4.44	6.12	20.80	35.40	35.60	39.00	9.60	6.00	4.56	3.72	8.04		
12	7.32	4.44	17.12	19.20	29.40	31.60	24.80	9.48	6.48	4.32	5.40	7.68		
13	7.20	4.44	18.08	41.00	24.00	45.98	19.84	8.64	6.36	4.44	5.28	7.56		
14	7.20	6.12	39.60	82.64	47.52	84.32	18.40	8.88	6.24	4.08	5.64	7.56		
15	7.44	5.40	69.89	96.30	30.00	100.44	16.80	8.76	6.24	3.96	7.92	7.92		
16	7.92	4.92	76.76	42.00	24.16	106.52	15.52	8.64	6.12	4.08	7.44	7.92		
17	7.68	4.68	27.68	38.40	21.12	69.62	14.56	8.52	6.00	4.20	6.84	7.80		
18	7.56	4.32	22.56	24.96	19.68	80.40	14.08	8.28	6.00	4.08	6.48	7.68		
19	7.08	4.56	19.36	30.80	21.76	48.63	15.84	8.16	5.76	4.08	7.32	7.56		
20	7.20	4.80	17.28	41.00	19.52	37.40	20.96	8.04	5.76	4.08	7.92	7.56		
21	6.96	3.96	13.60	58.85	17.76	31.80	21.92	7.92	5.64	3.96	7.80	7.68		
22	6.84	3.84	17.12	48.86	16.48	27.84	14.56	7.80	5.52	3.96	7.56	7.92		
23	6.72	3.48	31.20	37.20	15.84	26.08	13.76	7.68	5.40	3.72	7.08	8.04		
24	6.72	3.24	25.12	25.92	15.68	24.80	13.60	7.44	5.52	3.84	6.84	8.04		
25	6.72	3.12	26.72	25.60	14.40	25.60	12.80	7.20	5.28	3.84	6.60	7.92		
26	6.60	3.12	36.20	22.88	18.24	21.76	12.96	7.32	5.28	3.96	6.36	7.80		
27	6.60	3.12	21.92	19.68	25.60	20.48	13.28	7.68	5.16	4.20	6.84	7.92		
28	6.84	4.20	18.08	22.40	22.72	19.20	17.12	7.92	5.04	4.08	7.68	7.80		
29	6.84	4.44	16.00	28.60	25.92	21.12	14.08	7.80	5.04	3.48		7.92		
30	7.20	4.68	16.16	35.80	23.68	31.00	12.32	8.16	4.92	3.24		8.52		
31		4.44		59.10	19.68		12.16		5.04	2.88		8.16		
Total	210.36	143.28	585.65	1029.71	947.41	1243.31	551.32	274.56	195.60	131.40	153.36	246.12	5712.08	CMSDAY
Mean	7.01	4.62	19.52	33.22	30.56	41.44	17.78	9.15	6.31	4.24	5.48	7.94	15.65	CMS
Max	8.16	7.08	76.76	96.30	114.02	106.52	39.00	12.00	10.56	5.16	7.92	8.76	114.02	CMS
Min	5.76	3.12	3.60	16.48	14.40	17.76	12.16	7.20	4.92	2.88	2.88	7.44	2.88	CMS
Runoff	18.18	12.38	50.60	88.97	81.86	107.42	47.63	23.72	16.90	11.35	13.25	21.27	493.52	MCM

Momentary Peak 171.82 CMS, at 12.99 m. (MSL.), at 03.00 Hours, on Aug 6, 2014

Runoff Yield 68.34 Liters/Second/Square KM. Momentary Peak Yield 750.044 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Phlo at Ban Chamkho , Rayong (Z.18)

Lat 12 - 57 - 18 N Long 101 - 40 - 32 E

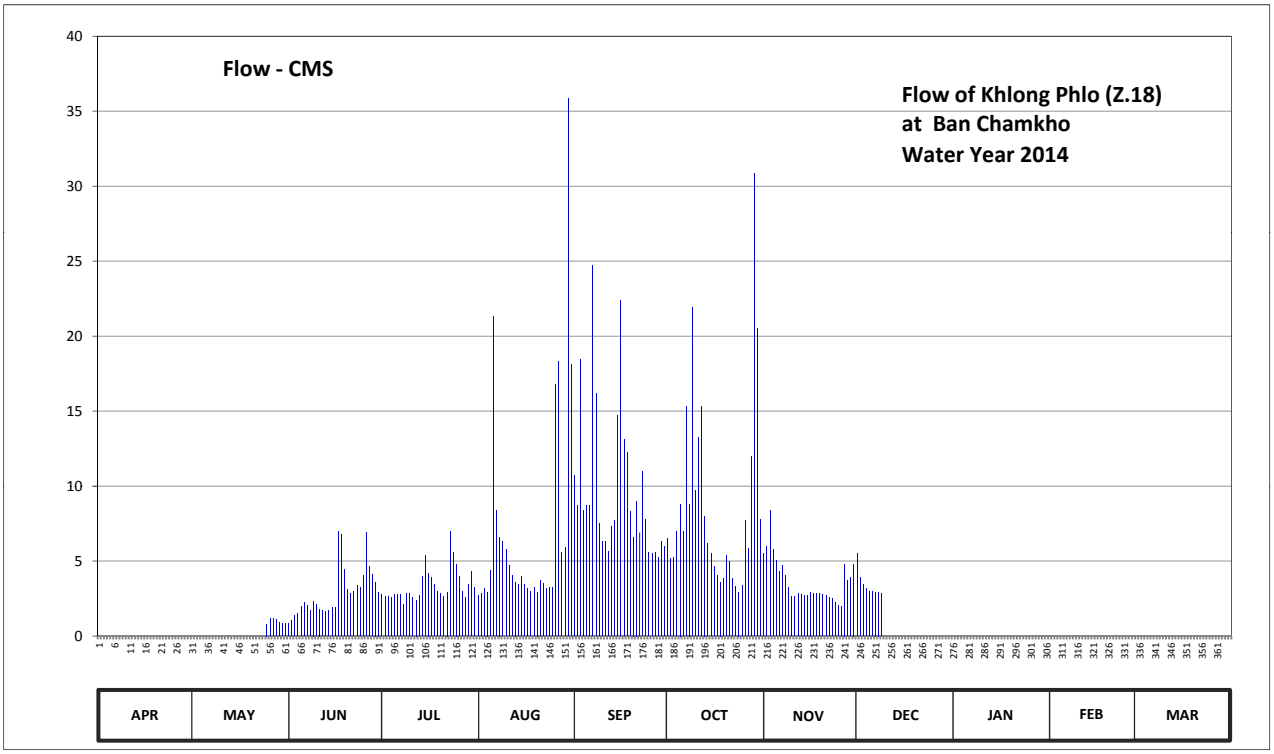
Location : on right bank at the bridge on road.

	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**	+40.318 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	1982 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Flot	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Un stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.11	29.98	29.17	29.47	29.46	30.37	29.95	29.83	29.83	30.38	30.30	30.24	
2	29.07	30.01	29.21	29.45	29.48	30.17	29.79	29.90	29.62	30.38	30.30	30.23	
3	29.05	30.06	29.28	29.45	29.52	30.93	29.80	30.14	29.56	30.37	30.30	30.23	
4	29.06	30.15	29.30	29.44	29.49	30.14	30.00	29.87	29.52	30.37	30.29	30.23	
5	29.07	30.17	29.36	29.47	29.68	30.17	30.18	29.77	29.50	30.36	30.30	30.23	
6	29.07	30.22	29.40	29.47	31.12	30.17	30.00	29.67	29.50	30.35	30.30	30.22	
7	29.18	30.28	29.37	29.47	30.14	31.35	30.72	29.73	29.49	30.36	30.28	30.22	
8	29.76	30.26	29.33	29.38	29.96	30.78	30.18	29.64	29.49	30.37	30.28	30.21	
9	29.80	30.26	29.41	29.48	29.93	30.05	31.16	29.53	29.48	30.39	30.28	30.21	
10	29.90	30.25	29.38	29.48	29.87	29.93	30.27	29.45	29.65	30.38	30.27	30.21	
11	29.89	30.25	29.34	29.44	29.73	29.93	30.58	29.45	30.51	30.38	30.27	30.21	
12	30.06	30.25	29.33	29.42	29.64	29.85	30.72	29.48	30.55	30.37	30.26	30.21	
13	30.37	30.26	29.32	29.46	29.58	30.03	30.10	29.47	30.58	30.37	30.26	30.21	
14	30.37	30.26	29.33	29.63	29.56	30.07	29.92	29.46	30.50	30.37	30.25	30.21	
15	30.35	30.26	29.35	29.82	29.63	30.68	29.83	29.46	30.50	30.35	30.25	30.20	
16	30.34	30.28	29.35	29.66	29.56	31.19	29.72	29.49	30.50	30.35	30.25	30.20	
17	30.32	30.30	30.00	29.62	29.52	30.57	29.64	29.48	30.50	30.35	30.25	30.20	
18	30.30	30.09	29.98	29.56	29.50	30.50	29.58	29.48	30.49	30.34	30.23	30.19	
19	30.28	29.46	29.69	29.50	29.53	30.13	29.61	29.48	30.49	30.34	30.23	30.19	
20	30.25	29.38	29.51	29.48	29.49	29.96	29.82	29.47	30.48	30.33	30.23	30.19	
21	30.20	29.20	29.48	29.45	29.59	30.20	29.76	29.46	30.48	30.33	30.22	30.19	
22	30.20	29.19	29.50	29.49	29.57	29.99	29.61	29.44	30.48	30.32	30.22	30.19	
23	30.19	29.17	29.55	30.00	29.52	30.40	29.54	29.43	30.48	30.32	30.20	30.18	
24	30.17	29.15	29.53	29.84	29.53	30.08	29.49	29.40	30.47	30.32	30.20	30.15	
25	30.15	29.16	29.64	29.74	29.53	29.84	29.55	29.37	30.47	30.32	30.19	30.14	
26	30.09	29.23	29.99	29.63	30.82	29.83	30.07	29.36	30.45	30.32	30.19	30.13	
27	30.06	29.23	29.72	29.50	30.92	29.84	29.88	29.74	30.45	30.31	30.19	30.12	
28	30.03	29.22	29.65	29.44	29.84	29.80	30.48	29.59	30.41	30.31	30.19	30.12	
29	29.99	29.18	29.58	29.56	29.89	29.93	31.68	29.62	30.40	30.31		30.08	
30	29.97	29.17	29.49	29.67	31.93	29.90	31.07	29.74	30.39	30.31		30.05	
31		29.17		29.53	30.91		30.08		30.39	30.30		30.04	
Mean	29.89	29.79	29.48	29.55	29.89	30.23	30.09	29.58	30.18	30.35	30.25	30.18	
Max	30.37	30.30	30.00	30.00	31.93	31.35	31.68	30.14	30.58	30.39	30.30	30.24	31.93
Min	29.05	29.15	29.17	29.38	29.46	29.80	29.49	29.36	29.48	30.30	30.19	30.04	29.05

Annual Max Momentary Gage Height	32.65	m. (MSL.) ,	at 15.00 Hours, on Aug 30, 2014		
Zero Gage at Bottom Elevation	28.15	m. (MSL.) ,	River Bed	24.60	m. (MSL.)
Left Bank Elevation	34.40	m. (MSL.) ,			
Right Bank Elevation	34.83	m. (MSL.) ,	Drainage Area	201	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.85	2.78	2.70	10.70	6.50	5.48	5.48	0.00	0.00	0.00		
2	0.00	0.00	1.05	2.63	2.85	8.70	5.18	6.00	3.90	0.00	0.00	0.00		
3	0.00	0.00	1.40	2.63	3.15	18.45	5.25	8.40	3.45	0.00	0.00	0.00		
4	0.00	0.00	1.50	2.55	2.93	8.40	7.00	5.78	3.15	0.00	0.00	0.00		
5	0.00	0.00	1.95	2.78	4.35	8.70	8.80	5.03	3.00	0.00	0.00	0.00		
6	0.00	0.00	2.25	2.78	21.30	8.70	7.00	4.28	3.00	0.00	0.00	0.00		
7	0.00	0.00	2.03	2.78	8.40	24.75	15.30	4.73	2.93	0.00	0.00	0.00		
8	0.00	0.00	1.73	2.10	6.60	16.20	8.80	4.05	2.93	0.00	0.00	0.00		
9	0.00	0.00	2.33	2.85	6.30	7.50	21.90	3.23	2.85	0.00	0.00	0.00		
10	0.00	0.00	2.10	2.85	5.78	6.30	9.70	2.63	0.00	0.00	0.00	0.00		
11	0.00	0.00	1.80	2.55	4.73	6.30	13.25	2.63	0.00	0.00	0.00	0.00		
12	0.00	0.00	1.73	2.40	4.05	5.63	15.30	2.85	0.00	0.00	0.00	0.00		
13	0.00	0.00	1.65	2.70	3.60	7.30	8.00	2.78	0.00	0.00	0.00	0.00		
14	0.00	0.00	1.73	3.97	3.45	7.70	6.20	2.70	0.00	0.00	0.00	0.00		
15	0.00	0.00	1.88	5.40	3.97	14.70	5.48	2.70	0.00	0.00	0.00	0.00		
16	0.00	0.00	1.88	4.20	3.45	22.35	4.65	2.93	0.00	0.00	0.00	0.00		
17	0.00	0.00	7.00	3.90	3.15	13.12	4.05	2.85	0.00	0.00	0.00	0.00		
18	0.00	0.00	6.80	3.45	3.00	12.25	3.60	2.85	0.00	0.00	0.00	0.00		
19	0.00	0.00	4.43	3.00	3.23	8.30	3.83	2.85	0.00	0.00	0.00	0.00		
20	0.00	0.00	3.08	2.85	2.93	6.60	5.40	2.78	0.00	0.00	0.00	0.00		
21	0.00	0.00	2.85	2.63	3.68	9.00	4.95	2.70	0.00	0.00	0.00	0.00		
22	0.00	0.00	3.00	2.93	3.53	6.90	3.83	2.55	0.00	0.00	0.00	0.00		
23	0.00	0.00	3.37	7.00	3.15	11.00	3.30	2.48	0.00	0.00	0.00	0.00		
24	0.00	0.00	3.23	5.55	3.23	7.80	2.93	2.25	0.00	0.00	0.00	0.00		
25	0.00	0.80	4.05	4.80	3.23	5.55	3.37	2.03	0.00	0.00	0.00	0.00		
26	0.00	1.15	6.90	3.97	16.80	5.48	7.70	1.95	0.00	0.00	0.00	0.00		
27	0.00	1.15	4.65	3.00	18.30	5.55	5.85	4.80	0.00	0.00	0.00	0.00		
28	0.00	1.10	4.13	2.55	5.55	5.25	12.00	3.68	0.00	0.00	0.00	0.00		
29	0.00	0.90	3.60	3.45	5.92	6.30	30.85	3.90	0.00	0.00		0.00		
30	0.00	0.85	2.93	4.28	35.85	6.00	20.55	4.80	0.00	0.00		0.00		
31		0.85		3.23	18.15		7.80		0.00	0.00		0.00		
Total	0.00	6.80	87.88	104.54	217.31	291.48	268.32	108.67	30.69	0.00	0.00	0.00	1115.69	CMSDAY
Mean	0.00	0.22	2.93	3.37	7.01	9.72	8.66	3.62	0.99	0.00	0.00	0.00	3.06	CMS
Max	0.00	1.15	7.00	7.00	35.85	24.75	30.85	8.40	5.48	0.00	0.00	0.00	35.85	CMS
Min	0.00	0.00	0.85	2.10	2.70	5.25	2.93	1.95	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.59	7.59	9.03	18.78	25.18	23.18	9.39	2.65	0.00	0.00	0.00	96.40	MCM

Momentary Peak 51.50 CMS, at 32.65 m. (MSL.), at 15.00 Hours, on Aug 30, 2014

Runoff Yield 15.21 Liters/Second/Square KM. Momentary Peak Yield 255.685 Liters/Second/Square KM.

WATER YEAR : 2014

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

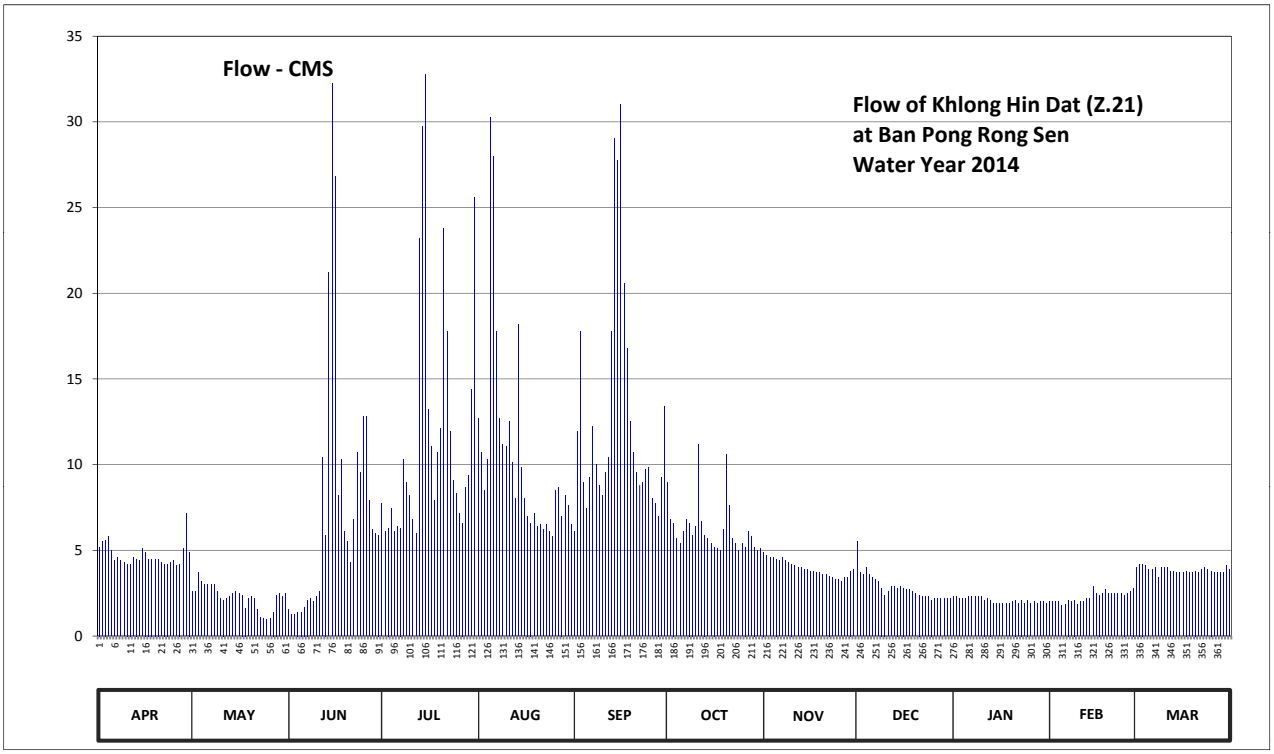
Location : on left bank at the bridge on highway.

	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 9 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.22	21.96	21.84	22.45	22.78	22.31	22.53	22.19	22.25	21.93	21.90	22.10	
2	22.25	21.96	21.80	22.31	22.65	22.73	22.38	22.17	22.07	21.93	21.90	22.12	
3	22.26	22.07	21.80	22.33	22.50	23.04	22.36	22.16	22.06	21.92	21.90	22.12	
4	22.28	22.02	21.82	22.43	22.62	22.53	22.27	22.16	22.10	21.92	21.90	22.11	
5	22.20	22.00	21.82	22.31	23.63	22.43	22.24	22.15	22.06	21.92	21.87	22.09	
6	22.14	22.00	21.86	22.34	23.54	22.55	22.31	22.14	22.04	21.93	21.88	22.09	
7	22.16	22.00	21.91	22.33	23.04	22.75	22.38	22.16	22.03	21.93	21.91	22.10	
8	22.14	22.00	21.92	22.62	22.78	22.60	22.36	22.14	22.02	21.93	21.90	22.04	
9	22.13	21.96	21.90	22.53	22.68	22.52	22.29	22.13	21.98	21.93	21.91	22.10	
10	22.12	21.92	21.93	22.48	22.67	22.48	22.34	22.12	21.94	21.93	21.88	22.10	
11	22.12	21.91	21.96	22.38	22.77	22.57	22.68	22.11	21.96	21.91	21.90	22.10	
12	22.16	21.92	22.63	22.30	22.61	22.63	22.37	22.10	21.99	21.92	21.90	22.08	
13	22.15	21.93	22.29	23.31	22.47	23.04	22.29	22.10	21.99	21.91	21.92	22.08	
14	22.14	21.95	23.21	23.61	23.06	23.58	22.27	22.09	21.98	21.89	21.92	22.07	
15	22.21	21.96	23.71	23.73	22.59	23.53	22.24	22.09	21.99	21.89	21.99	22.07	
16	22.19	21.95	23.49	22.81	22.47	23.66	22.22	22.08	21.98	21.89	21.95	22.07	
17	22.15	21.94	22.48	22.67	22.40	23.18	22.21	22.08	21.97	21.89	21.94	22.08	
18	22.15	21.85	22.62	22.46	22.36	22.99	22.20	22.07	21.97	21.89	21.95	22.07	
19	22.15	21.92	22.31	22.65	22.41	22.77	22.32	22.07	21.96	21.89	21.97	22.07	
20	22.15	21.93	22.25	22.74	22.34	22.65	22.64	22.06	21.95	21.90	21.95	22.08	
21	22.13	21.92	22.13	23.34	22.35	22.57	22.44	22.06	21.94	21.91	21.95	22.07	
22	22.12	21.84	22.38	23.04	22.32	22.52	22.27	22.05	21.93	21.89	21.95	22.09	
23	22.12	21.78	22.65	22.73	22.35	22.53	22.24	22.04	21.93	21.91	21.95	22.10	
24	22.13	21.77	22.57	22.54	22.31	22.58	22.20	22.03	21.93	21.89	21.95	22.09	
25	22.14	21.76	22.79	22.49	22.28	22.59	22.24	22.03	21.91	21.91	21.94	22.08	
26	22.11	21.77	22.79	22.41	22.50	22.47	22.22	22.02	21.92	21.89	21.95	22.07	
27	22.12	21.82	22.46	22.36	22.51	22.45	22.31	22.04	21.92	21.90	21.96	22.07	
28	22.21	21.94	22.32	22.51	22.40	22.40	22.28	22.04	21.92	21.89	21.98	22.07	
29	22.41	21.95	22.30	22.56	22.48	22.55	22.22	22.08	21.92	21.90		22.07	
30	22.19	21.93	22.29	22.87	22.44	22.82	22.20	22.09	21.92	21.90		22.11	
31		21.95		23.43	22.35		22.21		21.92	21.89		22.09	
Mean	22.17	21.92	22.34	22.68	22.60	22.73	22.31	22.10	21.98	21.91	21.93	22.09	
Max	22.41	22.07	23.71	23.73	23.63	23.66	22.68	22.19	22.25	21.93	21.99	22.12	23.73
Min	22.11	21.76	21.80	22.30	22.28	22.31	22.20	22.02	21.91	21.89	21.87	22.04	21.76

Annual Max Momentary Gage Height	25.78	m. (MSL.) ,	at 20.00 Hours, on Aug 5, 2014		
Zero Gage at Bottom Elevation	21.20	m. (MSL.) ,	River Bed	21.03	m. (MSL.)
Left Bank Elevation	29.70	m. (MSL.) ,			
Right Bank Elevation	29.69	m. (MSL.) ,	Drainage Area	78	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.20	2.60	1.55	7.75	12.70	6.10	8.95	4.90	5.50	2.30	2.00	4.00		
2	5.50	2.60	1.25	6.10	10.75	11.95	6.80	4.70	3.70	2.30	2.00	4.20		
3	5.60	3.70	1.25	6.30	8.50	17.80	6.60	4.60	3.60	2.20	2.00	4.20		
4	5.80	3.20	1.40	7.45	10.30	8.95	5.70	4.60	4.00	2.20	2.00	4.10		
5	5.00	3.00	1.40	6.10	30.25	7.45	5.40	4.50	3.60	2.20	1.78	3.90		
6	4.40	3.00	1.70	6.40	28.00	9.25	6.10	4.40	3.40	2.30	1.85	3.90		
7	4.60	3.00	2.10	6.30	17.80	12.25	6.80	4.60	3.30	2.30	2.10	4.00		
8	4.40	3.00	2.20	10.30	12.70	10.00	6.60	4.40	3.20	2.30	2.00	3.40		
9	4.30	2.60	2.00	8.95	11.20	8.80	5.90	4.30	2.80	2.30	2.10	4.00		
10	4.20	2.20	2.30	8.20	11.05	8.20	6.40	4.20	2.40	2.30	1.85	4.00		
11	4.20	2.10	2.60	6.80	12.55	9.55	11.20	4.10	2.60	2.10	2.00	4.00		
12	4.60	2.20	10.45	6.00	10.15	10.45	6.70	4.00	2.90	2.20	2.00	3.80		
13	4.50	2.30	5.90	23.20	8.05	17.80	5.90	4.00	2.90	2.10	2.20	3.80		
14	4.40	2.50	21.20	29.75	18.20	29.00	5.70	3.90	2.80	1.92	2.20	3.70		
15	5.10	2.60	32.25	32.75	9.85	27.75	5.40	3.90	2.90	1.92	2.90	3.70		
16	4.90	2.50	26.80	13.20	8.05	31.00	5.20	3.80	2.80	1.92	2.50	3.70		
17	4.50	2.40	8.20	11.05	7.00	20.60	5.10	3.80	2.70	1.92	2.40	3.80		
18	4.50	1.63	10.30	7.90	6.60	16.80	5.00	3.70	2.70	1.92	2.50	3.70		
19	4.50	2.20	6.10	10.75	7.15	12.55	6.20	3.70	2.60	1.92	2.70	3.70		
20	4.50	2.30	5.50	12.10	6.40	10.75	10.60	3.60	2.50	2.00	2.50	3.80		
21	4.30	2.20	4.30	23.80	6.50	9.55	7.60	3.60	2.40	2.10	2.50	3.70		
22	4.20	1.55	6.80	17.80	6.20	8.80	5.70	3.50	2.30	1.92	2.50	3.90		
23	4.20	1.10	10.75	11.95	6.50	8.95	5.40	3.40	2.30	2.10	2.50	4.00		
24	4.30	1.03	9.55	9.10	6.10	9.70	5.00	3.30	2.30	1.92	2.50	3.90		
25	4.40	0.95	12.85	8.35	5.80	9.85	5.40	3.30	2.10	2.10	2.40	3.80		
26	4.10	1.03	12.85	7.15	8.50	8.05	5.20	3.20	2.20	1.92	2.50	3.70		
27	4.20	1.40	7.90	6.60	8.65	7.75	6.10	3.40	2.20	2.00	2.60	3.70		
28	5.10	2.40	6.20	8.65	7.00	7.00	5.80	3.40	2.20	1.92	2.80	3.70		
29	7.15	2.50	6.00	9.40	8.20	9.25	5.20	3.80	2.20	2.00		3.70		
30	4.90	2.30	5.90	14.40	7.60	13.40	5.00	3.90	2.20	2.00		4.10		
31		2.50		25.60	6.50		5.10		2.20	1.92		3.90		
Total	141.55	70.59	229.55	370.15	324.80	379.30	193.75	118.50	87.50	64.52	63.88	119.50	2163.59	CMSDAY
Mean	4.72	2.28	7.65	11.94	10.48	12.64	6.25	3.95	2.82	2.08	2.28	3.85	5.93	CMS
Max	7.15	3.70	32.25	32.75	30.25	31.00	11.20	4.90	5.50	2.30	2.90	4.20	32.75	CMS
Min	4.10	0.95	1.25	6.00	5.80	6.10	5.00	3.20	2.10	1.92	1.78	3.40	0.95	CMS
Runoff	12.23	6.10	19.83	31.98	28.06	32.77	16.74	10.24	7.56	5.58	5.52	10.33	186.93	MCM

Momentary Peak 99.40 CMS, at 25.78 m. (MSL.), at 20.00 Hours, on Aug 5, 2014

Runoff Yield 76.00 Liters/Second/Square KM. Momentary Peak Yield 1274.359 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

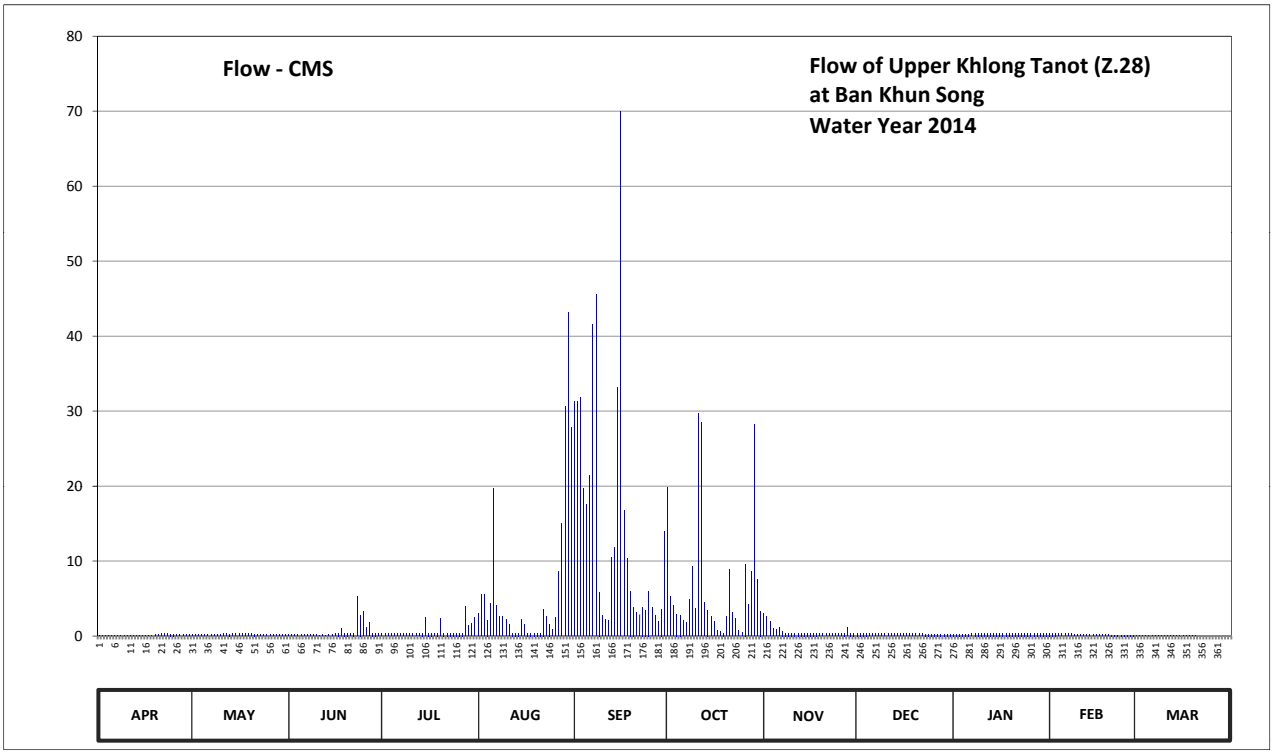
Location : on right bank near Wat Khun Song.

	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 Flot	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.08	33.19	33.19	33.26	33.94	36.40	35.62	33.95	33.43	33.22	33.31	33.11	
2	33.06	33.19	33.19	33.24	34.31	36.40	34.27	33.87	33.38	33.22	33.31	33.11	
3	33.04	33.18	33.19	33.24	34.31	36.43	34.11	33.72	33.37	33.22	33.31	33.10	
4	33.04	33.18	33.19	33.24	33.77	35.61	33.93	33.59	33.36	33.22	33.27	33.10	
5	33.09	33.18	33.18	33.24	34.15	35.46	33.91	33.57	33.28	33.22	33.27	33.10	
6	33.09	33.18	33.18	33.25	35.61	35.74	33.75	33.61	33.27	33.22	33.27	33.10	
7	33.09	33.17	33.18	33.25	34.11	36.98	33.71	33.54	33.27	33.25	33.25	33.10	
8	33.08	33.17	33.18	33.25	33.87	37.18	34.22	33.48	33.27	33.36	33.25	33.10	
9	33.06	33.17	33.18	33.26	33.88	34.35	34.73	33.46	33.27	33.36	33.20	33.09	
10	33.06	33.19	33.17	33.26	33.78	33.90	34.05	33.44	33.27	33.36	33.20	33.09	
11	33.06	33.23	33.03	33.24	33.66	33.79	36.29	33.41	33.27	33.36	33.20	33.09	
12	33.04	33.23	33.16	33.24	33.39	33.75	36.22	33.38	33.27	33.36	33.20	33.09	
13	33.04	33.22	33.05	33.26	33.37	34.85	34.17	33.37	33.26	33.36	33.20	33.07	
14	33.04	33.24	33.17	33.45	33.35	34.98	34.02	33.36	33.26	33.36	33.20	33.07	
15	33.08	33.25	33.19	33.84	33.80	36.51	33.86	33.35	33.26	33.36	33.20	33.04	
16	33.11	33.26	33.26	33.40	33.66	38.14	33.73	33.34	33.26	33.36	33.16	33.01	
17	33.11	33.25	33.33	33.31	33.43	35.40	33.55	33.33	33.24	33.35	33.16	33.01	
18	33.12	33.25	33.58	33.24	33.36	34.83	33.52	33.29	33.24	33.34	33.16	33.01	
19	33.17	33.25	33.37	33.37	33.32	34.37	33.46	33.28	33.24	33.34	33.16	33.01	
20	33.17	33.24	33.29	33.81	33.30	34.08	33.87	33.28	33.24	33.34	33.16	33.01	
21	33.26	33.21	33.27	33.47	33.30	33.97	34.69	33.27	33.24	33.34	33.13	32.95	
22	33.26	33.20	33.41	33.47	34.04	33.92	33.96	33.27	33.24	33.34	33.13	32.90	
23	33.24	33.20	34.27	33.47	33.88	34.08	33.81	33.27	33.22	33.34	33.13	32.90	
24	33.21	33.20	33.91	33.37	33.67	34.02	33.55	33.27	33.22	33.34	33.13	32.90	
25	33.21	33.19	33.99	33.34	33.56	34.37	33.51	33.26	33.22	33.34	33.13	32.90	
26	33.20	33.19	33.60	33.40	33.85	34.07	34.76	33.26	33.22	33.34	33.13	32.90	
27	33.20	33.20	33.71	33.38	34.66	33.90	34.12	33.30	33.22	33.34	33.13	32.88	
28	33.20	33.20	33.40	34.09	35.25	33.73	34.66	33.60	33.22	33.34	33.13	32.89	
29	33.20	33.20	33.31	33.64	36.35	34.04	36.20	33.42	33.22	33.34		32.90	
30	33.18	33.19	33.28	33.68	37.06	35.16	34.55	33.36	33.22	33.34		32.90	
31		33.19		33.84	36.17		34.00		33.22	33.31		32.90	
Mean	33.13	33.21	33.35	33.41	34.13	35.01	34.28	33.43	33.26	33.32	33.20	33.01	
Max	33.26	33.26	34.27	34.09	37.06	38.14	36.29	33.95	33.43	33.36	33.31	33.11	38.14
Min	33.04	33.17	33.03	33.24	33.30	33.73	33.46	33.26	33.22	33.22	33.13	32.88	32.88

Annual Max Momentary Gage Height	38.80	m. (MSL.) ,	at 09.00 Hours, on Sep 16, 2014		
Zero Gage at Bottom Elevation	32.60	m. (MSL.) ,	River Bed	32.43	m. (MSL.)
Left Bank Elevation	41.13	m. (MSL.) ,			
Right Bank Elevation	41.11	m. (MSL.) ,	Drainage Area	280	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.23	0.23	0.34	2.99	31.35	19.78	3.05	0.40	0.28	0.40	0.12		
2	0.06	0.23	0.23	0.31	5.58	31.35	5.28	2.60	0.40	0.28	0.40	0.12		
3	0.04	0.22	0.23	0.31	5.58	31.84	4.08	1.89	0.40	0.28	0.40	0.10		
4	0.04	0.22	0.23	0.31	2.12	19.64	2.93	1.03	0.40	0.28	0.36	0.10		
5	0.09	0.22	0.22	0.31	4.38	17.58	2.81	0.89	0.37	0.28	0.36	0.10		
6	0.09	0.22	0.22	0.33	19.64	21.48	2.03	1.17	0.36	0.28	0.36	0.10		
7	0.09	0.20	0.22	0.33	4.08	41.60	1.84	0.68	0.36	0.33	0.33	0.10		
8	0.08	0.20	0.22	0.33	2.60	45.60	4.90	0.40	0.36	0.40	0.33	0.10		
9	0.06	0.20	0.22	0.34	2.65	5.87	9.30	0.40	0.36	0.40	0.25	0.09		
10	0.06	0.23	0.20	0.34	2.16	2.75	3.68	0.40	0.36	0.40	0.25	0.09		
11	0.06	0.30	0.03	0.31	1.52	2.21	29.65	0.40	0.36	0.40	0.25	0.09		
12	0.04	0.30	0.19	0.31	0.40	2.03	28.56	0.40	0.36	0.40	0.25	0.09		
13	0.04	0.28	0.05	0.34	0.40	10.50	4.52	0.40	0.34	0.40	0.25	0.07		
14	0.04	0.31	0.20	0.40	0.40	11.80	3.48	0.40	0.34	0.40	0.25	0.07		
15	0.08	0.33	0.23	2.45	2.25	33.16	2.55	0.40	0.34	0.40	0.25	0.04		
16	0.12	0.34	0.34	0.40	1.52	69.95	1.93	0.40	0.34	0.40	0.19	0.01		
17	0.12	0.33	0.40	0.40	0.40	16.80	0.75	0.40	0.31	0.40	0.19	0.01		
18	0.13	0.33	0.96	0.31	0.40	10.30	0.54	0.39	0.31	0.40	0.19	0.01		
19	0.20	0.33	0.40	0.40	0.40	6.02	0.40	0.37	0.31	0.40	0.19	0.01		
20	0.20	0.31	0.39	2.30	0.40	3.87	2.60	0.37	0.31	0.40	0.19	0.01		
21	0.34	0.27	0.36	0.40	0.40	3.17	8.90	0.36	0.31	0.40	0.15	0.00		
22	0.34	0.25	0.40	0.40	3.61	2.87	3.11	0.36	0.31	0.40	0.15	0.00		
23	0.31	0.25	5.28	0.40	2.65	3.87	2.30	0.36	0.28	0.40	0.15	0.00		
24	0.27	0.25	2.81	0.40	1.59	3.48	0.75	0.36	0.28	0.40	0.15	0.00		
25	0.27	0.23	3.29	0.40	0.82	6.02	0.47	0.34	0.28	0.40	0.15	0.00		
26	0.25	0.23	1.10	0.40	2.50	3.81	9.60	0.34	0.28	0.40	0.15	0.00		
27	0.25	0.25	1.84	0.40	8.60	2.75	4.15	0.40	0.28	0.40	0.15	0.00		
28	0.25	0.25	0.40	3.94	15.00	1.93	8.60	1.10	0.28	0.40	0.15	0.00		
29	0.25	0.25	0.40	1.38	30.57	3.61	28.25	0.40	0.28	0.40		0.00		
30	0.22	0.23	0.37	1.66	43.20	13.92	7.55	0.40	0.28	0.40		0.00		
31		0.23		2.45	27.78		3.35		0.28	0.40		0.00		
Total	4.47	8.02	21.66	23.10	196.59	461.13	208.64	20.86	10.23	11.61	6.84	1.43	974.58	CMSDAY
Mean	0.15	0.26	0.72	0.75	6.34	15.37	6.73	0.70	0.33	0.37	0.24	0.05	2.67	CMS
Max	0.34	0.34	5.28	3.94	43.20	69.95	29.65	3.05	0.40	0.40	0.40	0.12	69.95	CMS
Min	0.04	0.20	0.03	0.31	0.40	1.93	0.40	0.34	0.28	0.28	0.15	0.00	0.00	CMS
Runoff	0.39	0.69	1.87	2.00	16.99	39.84	18.03	1.80	0.88	1.00	0.59	0.12	84.20	MCM

Momentary Peak 92.75 CMS, at 38.80 m. (MSL.), at 09.00 Hours, on Sep 16, 2014

Runoff Yield 9.54 Liters/Second/Square KM. Momentary Peak Yield 331.250 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Sato at Ban Nong Bua , Trat (Z.30)

Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

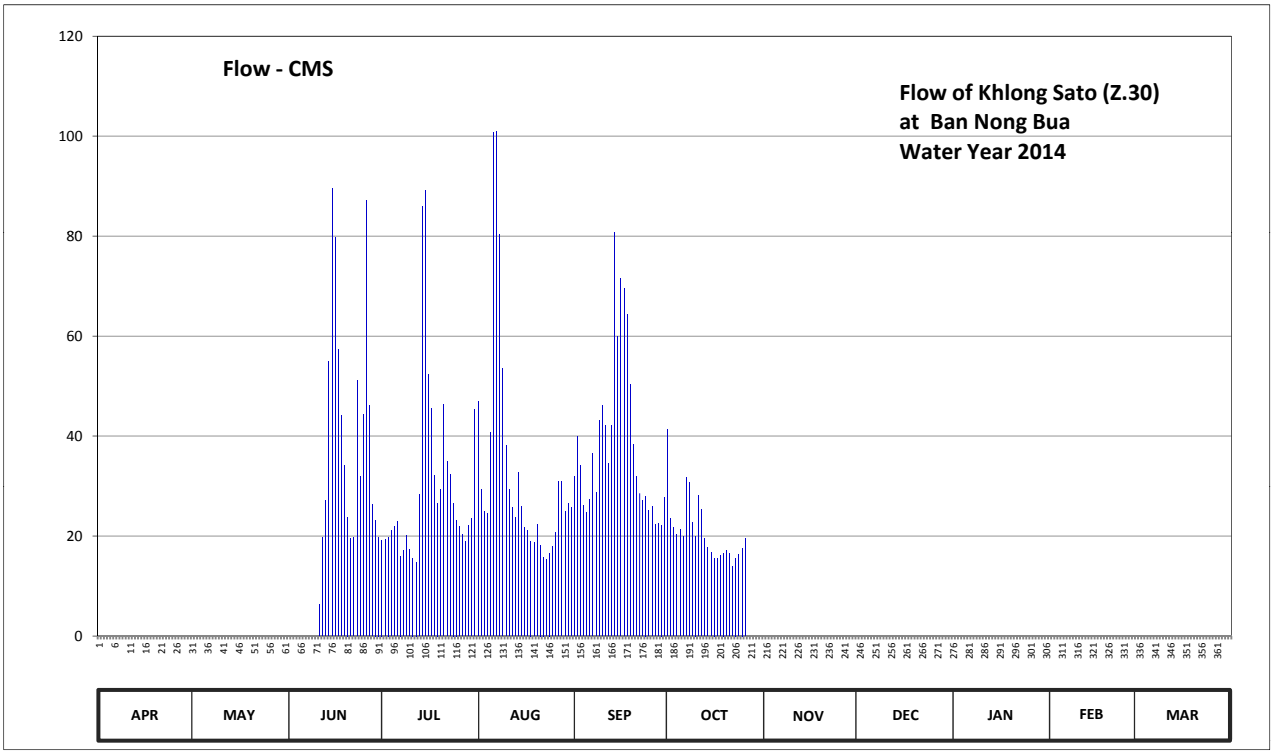
Location : on right bank at Ban Nong Bua.

	Ban Nong Bua	**Amphoe** Khao Saming	**Changwat** Trat
Drainge Area	316 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank next tall pole for eletric cable near dwelling.	**Elevation**	+18.683 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	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	13.19	13.02	12.12	14.20	13.18	13.83	11.73	11.63	12.90	12.67	12.88	
2	12.44	13.05	13.02	12.13	12.99	13.73	12.56	11.61	11.13	12.91	12.63	12.93	
3	12.39	12.95	13.08	12.18	12.67	13.34	12.37	11.40	10.90	12.91	12.61	12.89	
4	12.54	12.98	13.06	12.31	12.64	12.75	12.24	11.35	11.19	12.88	12.43	12.85	
5	12.64	13.11	13.07	12.40	13.78	12.65	12.33	11.32	10.96	12.88	10.63	12.78	
6	12.84	13.18	13.13	12.49	17.04	12.84	12.19	11.34	11.10	12.86	10.52	12.70	
7	12.89	13.06	12.96	11.80	17.05	13.50	13.16	11.35	10.69	12.88	10.50	12.66	
8	12.85	13.05	10.99	11.91	16.02	12.94	13.09	11.33	10.59	13.05	10.48	12.57	
9	12.75	12.83	10.71	12.21	14.64	13.95	12.47	11.29	10.56	13.10	10.48	12.54	
10	12.66	12.74	10.69	11.93	13.61	14.14	12.20	11.17	10.64	13.07	10.45	12.51	
11	12.66	12.78	10.83	11.76	12.98	13.88	12.90	10.97	10.56	13.01	10.43	12.46	
12	12.82	12.89	12.17	11.68	12.73	13.37	12.70	11.05	10.56	12.93	10.56	12.40	
13	12.77	12.88	12.83	12.91	12.57	13.88	12.15	11.04	10.61	12.88	11.85	12.37	
14	12.70	12.87	14.73	16.30	13.24	16.04	11.98	10.96	10.57	12.83	12.51	12.33	
15	12.73	12.87	16.48	16.46	12.74	15.00	11.87	10.95	10.55	12.78	12.64	12.30	
16	12.71	12.88	15.99	14.56	12.37	15.58	11.76	11.03	10.49	12.76	12.73	12.30	
17	12.66	12.85	14.87	14.10	12.31	15.48	11.75	10.81	10.45	12.80	12.81	12.31	
18	12.61	12.85	14.01	13.19	12.10	15.22	11.82	10.76	10.45	12.79	12.83	12.41	
19	12.60	12.98	13.33	12.79	12.07	14.43	11.86	10.77	10.44	12.76	13.10	12.45	
20	12.62	13.10	12.58	12.98	12.43	13.63	11.92	10.80	10.43	12.74	13.16	12.45	
21	12.61	13.01	12.16	14.16	12.02	13.17	11.85	10.72	10.40	12.74	13.17	12.44	
22	12.58	12.83	12.17	13.40	11.78	12.93	11.59	10.61	10.41	12.69	13.08	12.37	
23	12.50	12.71	14.47	13.20	11.74	12.83	11.76	10.59	10.38	12.66	12.97	12.31	
24	12.43	12.66	13.17	12.79	11.86	12.89	11.83	10.51	10.35	12.69	12.90	12.30	
25	12.40	12.63	14.02	12.52	11.99	12.68	11.96	10.61	10.31	12.68	12.81	12.30	
26	12.57	12.63	16.36	12.40	12.27	12.74	12.15	10.60	10.25	12.68	12.68	12.31	
27	12.52	12.71	14.15	12.23	13.11	12.43	11.89	10.71	10.92	12.69	12.63	12.43	
28	12.51	12.93	12.77	12.09	13.10	12.46	11.88	10.84	11.80	12.69	12.68	12.55	
29	12.94	13.13	12.52	12.41	12.67	12.42	12.13	10.87	12.45	12.67		12.57	
30	13.19	13.21	12.18	12.56	12.78	12.87	11.88	10.95	12.68	12.69		12.59	
31		13.09		14.09	12.72		11.77		12.85	12.68		12.36	
Mean	12.65	12.92	13.18	12.91	13.10	13.57	12.19	11.00	10.88	12.82	12.11	12.50	
Max	13.19	13.21	16.48	16.46	17.05	16.04	13.83	11.73	12.85	13.10	13.17	12.93	17.05
Min	12.39	12.63	10.69	11.68	11.74	12.42	11.59	10.51	10.25	12.66	10.43	12.30	10.25

Annual Max Momentary Gage Height	17.30	m. (MSL.) ,	at 06.00 Hours, on Aug 7, 2014		
Zero Gage at Bottom Elevation	9.20	m. (MSL.) ,	River Bed	9.00	m. (MSL.)
Left Bank Elevation	20.51	m. (MSL.) ,			
Right Bank Elevation	20.51	m. (MSL.) ,	Drainage Area	316	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	19.20	47.00	32.00	41.45	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	19.30	29.38	39.95	23.60	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	19.80	24.97	34.21	21.70	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	21.10	24.55	26.07	20.40	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	22.00	40.70	24.69	21.30	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	22.90	100.80	27.31	19.90	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	16.00	101.00	36.50	31.73	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	17.10	80.40	28.69	30.76	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	20.10	53.60	43.25	22.70	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	17.30	38.15	46.10	20.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	6.30	15.60	29.24	42.20	28.14	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	19.70	14.80	25.79	34.63	25.38	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	27.17	28.28	23.70	42.20	19.50	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	54.95	86.00	32.83	80.80	17.80	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	89.60	89.20	25.93	60.00	16.70	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	79.80	52.40	21.70	71.60	15.60	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	57.40	45.50	21.10	69.60	15.50	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	44.15	32.14	19.00	64.40	16.20	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	34.07	26.62	18.70	50.45	16.60	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	23.80	29.24	22.30	38.45	17.20	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	19.60	46.40	18.20	31.87	16.50	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	19.70	35.04	15.80	28.55	13.90	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	51.05	32.28	15.40	27.17	15.60	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	31.87	26.62	16.60	28.00	16.30	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	44.30	23.20	17.90	25.10	17.60	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	87.20	22.00	20.70	25.93	19.50	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	46.25	20.30	31.04	22.30	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	26.35	18.90	30.90	22.60	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	23.20	22.10	24.97	22.20	0.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	19.80	23.60	26.48	27.73	0.00	0.00	0.00	0.00		0.00		
31		0.00		45.35	25.66		0.00		0.00	0.00		0.00		
Total	0.00	0.00	806.26	930.37	1024.49	1154.55	541.56	0.00	0.00	0.00	0.00	0.00	4457.23	CMSDAY
Mean	0.00	0.00	26.88	30.01	33.05	38.49	17.47	0.00	0.00	0.00	0.00	0.00	12.21	CMS
Max	0.00	0.00	89.60	89.20	101.00	80.80	41.45	0.00	0.00	0.00	0.00	0.00	101.00	CMS
Min	0.00	0.00	0.00	14.80	15.40	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	69.66	80.38	88.52	99.75	46.79	0.00	0.00	0.00	0.00	0.00	385.11	MCM

Momentary Peak 106.00 CMS, at 17.30 m. (MSL.), at 06.00 Hours, on Aug 7, 2014

Runoff Yield 38.64 Liters/Second/Square KM. Momentary Peak Yield 335.443 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Thapma at Ban Khao Bot , Rayong (Z.38)

Lat 12 - 44 - 09 N Long 101 - 13 - 54 E

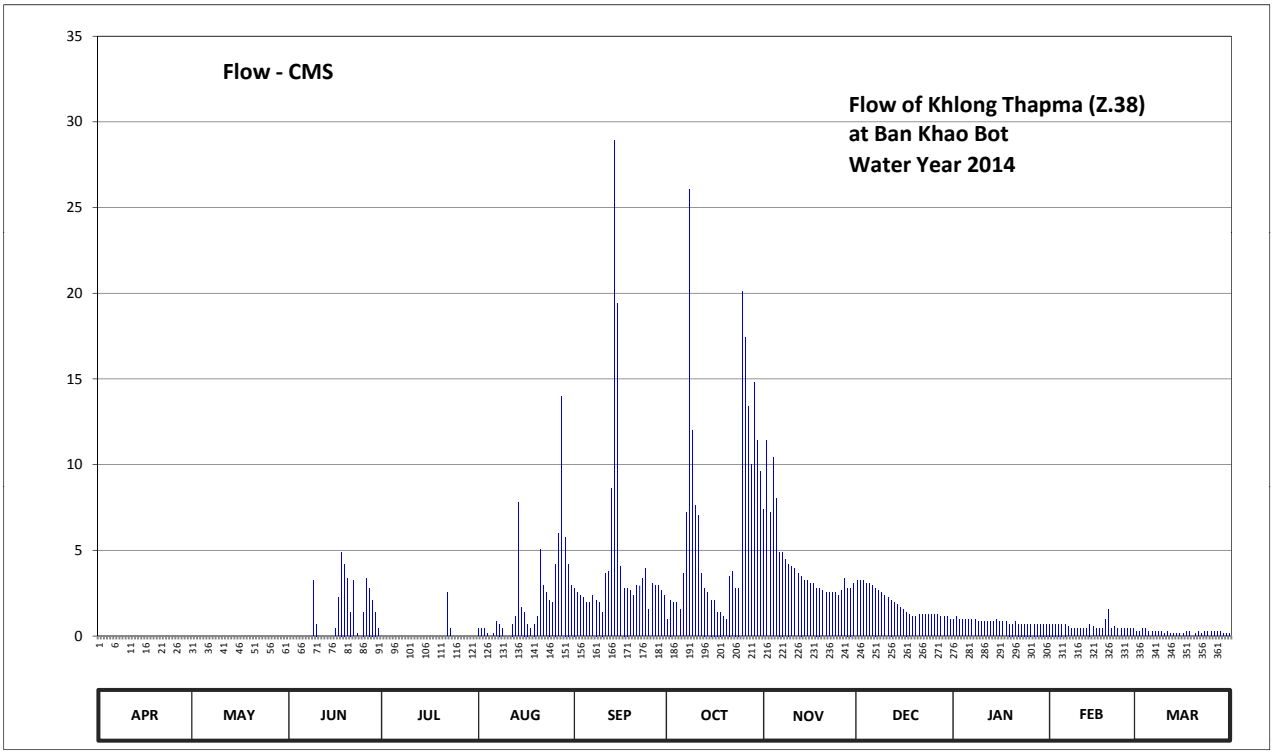
Location : on left bank at Ban Khao Bot.

	Ban Khao Bot	**Amphoe** Mueang	**Changwat** Rayong
Drainge Area	150 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+8.100 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank next tall pole for eletric cable near dwelling.		**Elevation** +12.100 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 5 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.37	8.38	8.41	8.51	8.73	8.90	8.77	9.20	8.93	8.77	8.75	8.72	
2	8.37	8.38	8.42	8.48	8.73	8.88	8.85	9.40	8.93	8.78	8.75	8.72	
3	8.37	8.38	8.42	8.46	8.73	8.87	8.84	9.19	8.93	8.77	8.75	8.73	
4	8.37	8.37	8.40	8.44	8.71	8.86	8.84	9.35	8.92	8.77	8.75	8.73	
5	8.40	8.37	8.40	8.42	8.70	8.84	8.81	9.23	8.92	8.77	8.75	8.72	
6	8.40	8.37	8.40	8.40	8.71	8.84	8.96	9.05	8.91	8.77	8.75	8.72	
7	8.40	8.36	8.38	8.38	8.76	8.87	9.19	9.05	8.90	8.77	8.74	8.72	
8	8.39	8.36	8.42	8.35	8.75	8.85	10.09	9.02	8.89	8.77	8.73	8.72	
9	8.39	8.36	8.93	8.34	8.73	8.84	9.43	9.00	8.88	8.76	8.73	8.72	
10	8.39	8.35	8.75	8.37	8.70	8.80	9.21	8.99	8.87	8.76	8.73	8.71	
11	8.38	8.34	8.60	8.37	8.69	8.96	9.18	8.98	8.86	8.76	8.73	8.72	
12	8.38	8.34	8.55	8.44	8.75	8.97	8.96	8.96	8.85	8.76	8.73	8.71	
13	8.38	8.34	8.53	8.42	8.78	9.26	8.90	8.95	8.84	8.76	8.73	8.71	
14	8.38	8.33	8.51	8.40	9.22	10.20	8.88	8.93	8.83	8.76	8.75	8.71	
15	8.37	8.33	8.65	8.38	8.82	9.80	8.85	8.93	8.82	8.77	8.74	8.71	
16	8.37	8.33	8.73	8.36	8.80	8.99	8.85	8.92	8.81	8.76	8.73	8.71	
17	8.37	8.32	8.86	8.36	8.75	8.90	8.80	8.92	8.80	8.76	8.73	8.72	
18	8.35	8.32	9.05	8.34	8.73	8.90	8.80	8.90	8.79	8.76	8.73	8.72	
19	8.35	8.32	9.00	8.34	8.75	8.89	8.78	8.90	8.78	8.75	8.77	8.70	
20	8.35	8.31	8.94	8.35	8.78	8.87	8.77	8.89	8.78	8.75	8.81	8.71	
21	8.35	8.30	8.80	8.68	9.06	8.91	8.95	8.88	8.79	8.76	8.73	8.72	
22	8.35	8.30	8.93	8.88	8.91	8.91	8.97	8.88	8.79	8.75	8.74	8.71	
23	8.35	8.30	8.71	8.73	8.88	8.94	8.90	8.88	8.79	8.75	8.73	8.72	
24	8.34	8.29	8.66	8.61	8.85	8.98	8.90	8.88	8.79	8.75	8.73	8.72	
25	8.34	8.29	8.80	8.58	8.84	8.81	9.83	8.87	8.79	8.75	8.73	8.72	
26	8.34	8.29	8.94	8.56	9.00	8.92	9.70	8.89	8.79	8.75	8.73	8.72	
27	8.33	8.28	8.90	8.52	9.12	8.91	9.50	8.94	8.79	8.75	8.73	8.72	
28	8.33	8.28	8.85	8.50	9.53	8.91	9.33	8.90	8.78	8.75	8.73	8.72	
29	8.33	8.28	8.80	8.48	9.11	8.89	9.57	8.90	8.78	8.75		8.71	
30	8.32	8.28	8.73	8.46	9.00	8.87	9.40	8.92	8.78	8.75		8.71	
31		8.29		8.46	8.91		9.31		8.77	8.75		8.71	
Mean	8.36	8.33	8.68	8.46	8.86	8.98	9.10	8.99	8.83	8.76	8.74	8.72	
Max	8.40	8.38	9.05	8.88	9.53	10.20	10.09	9.40	8.93	8.78	8.81	8.73	10.20
Min	8.32	8.28	8.38	8.34	8.69	8.80	8.77	8.87	8.77	8.75	8.73	8.70	8.28

Annual Max Momentary Gage Height	10.31	m. (MSL.) ,	at 15.00 Hours, on Sep 14, 2014		
Zero Gage at Bottom Elevation	8.10	m. (MSL.) ,	River Bed	7.79	m. (MSL.)
Left Bank Elevation	10.85	m. (MSL.) ,			
Right Bank Elevation	10.83	m. (MSL.) ,	Drainage Area	150	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	0.42	2.80	0.98	7.40	3.22	0.98	0.70	0.28		
2	0.00	0.00	0.00	0.00	0.42	2.52	2.10	11.40	3.22	1.12	0.70	0.28		
3	0.00	0.00	0.00	0.00	0.42	2.38	1.96	7.22	3.22	0.98	0.70	0.42		
4	0.00	0.00	0.00	0.00	0.14	2.24	1.96	10.40	3.08	0.98	0.70	0.42		
5	0.00	0.00	0.00	0.00	0.00	1.96	1.54	8.00	3.08	0.98	0.70	0.28		
6	0.00	0.00	0.00	0.00	0.14	1.96	3.64	4.90	2.94	0.98	0.70	0.28		
7	0.00	0.00	0.00	0.00	0.84	2.38	7.22	4.90	2.80	0.98	0.56	0.28		
8	0.00	0.00	0.00	0.00	0.70	2.10	26.07	4.48	2.66	0.98	0.42	0.28		
9	0.00	0.00	3.22	0.00	0.42	1.96	12.00	4.20	2.52	0.84	0.42	0.28		
10	0.00	0.00	0.70	0.00	0.00	1.40	7.60	4.06	2.38	0.84	0.42	0.14		
11	0.00	0.00	0.00	0.00	0.00	3.64	7.04	3.92	2.24	0.84	0.42	0.28		
12	0.00	0.00	0.00	0.00	0.70	3.78	3.64	3.64	2.10	0.84	0.42	0.14		
13	0.00	0.00	0.00	0.00	1.12	8.60	2.80	3.50	1.96	0.84	0.42	0.14		
14	0.00	0.00	0.00	0.00	7.80	28.94	2.52	3.22	1.82	0.84	0.70	0.14		
15	0.00	0.00	0.00	0.00	1.68	19.40	2.10	3.22	1.68	0.98	0.56	0.14		
16	0.00	0.00	0.42	0.00	1.40	4.06	2.10	3.08	1.54	0.84	0.42	0.14		
17	0.00	0.00	2.24	0.00	0.70	2.80	1.40	3.08	1.40	0.84	0.42	0.28		
18	0.00	0.00	4.90	0.00	0.42	2.80	1.40	2.80	1.26	0.84	0.42	0.28		
19	0.00	0.00	4.20	0.00	0.70	2.66	1.12	2.80	1.12	0.70	0.98	0.00		
20	0.00	0.00	3.36	0.00	1.12	2.38	0.98	2.66	1.12	0.70	1.54	0.14		
21	0.00	0.00	1.40	0.00	5.04	2.94	3.50	2.52	1.26	0.84	0.42	0.28		
22	0.00	0.00	3.22	2.52	2.94	2.94	3.78	2.52	1.26	0.70	0.56	0.14		
23	0.00	0.00	0.14	0.42	2.52	3.36	2.80	2.52	1.26	0.70	0.42	0.28		
24	0.00	0.00	0.00	0.00	2.10	3.92	2.80	2.52	1.26	0.70	0.42	0.28		
25	0.00	0.00	1.40	0.00	1.96	1.54	20.09	2.38	1.26	0.70	0.42	0.28		
26	0.00	0.00	3.36	0.00	4.20	3.08	17.40	2.66	1.26	0.70	0.42	0.28		
27	0.00	0.00	2.80	0.00	5.96	2.94	13.40	3.36	1.26	0.70	0.42	0.28		
28	0.00	0.00	2.10	0.00	14.00	2.94	10.00	2.80	1.12	0.70	0.42	0.28		
29	0.00	0.00	1.40	0.00	5.78	2.66	14.80	2.80	1.12	0.70		0.14		
30	0.00	0.00	0.42	0.00	4.20	2.38	11.40	3.08	1.12	0.70		0.14		
31		0.00		0.00	2.94		9.60		0.98	0.70		0.14		
Total	0.00	0.00	35.28	2.94	70.78	129.46	199.74	126.04	58.52	25.76	15.82	7.14	671.48	CMSDAY
Mean	0.00	0.00	1.18	0.09	2.28	4.32	6.44	4.20	1.89	0.83	0.57	0.23	1.84	CMS
Max	0.00	0.00	4.90	2.52	14.00	28.94	26.07	11.40	3.22	1.12	1.54	0.42	28.94	CMS
Min	0.00	0.00	0.00	0.00	0.00	1.40	0.98	2.38	0.98	0.70	0.42	0.00	0.00	CMS
Runoff	0.00	0.00	3.05	0.25	6.12	11.19	17.26	10.89	5.06	2.23	1.37	0.62	58.02	MCM

Momentary Peak 31.85 CMS, at 10.31 m. (MSL.), at 15.00 Hours, on Sep 14, 2014

Runoff Yield 12.26 Liters/Second/Square KM. Momentary Peak Yield 211.726 Liters/Second/Square KM.

WATER YEAR : 2014

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.

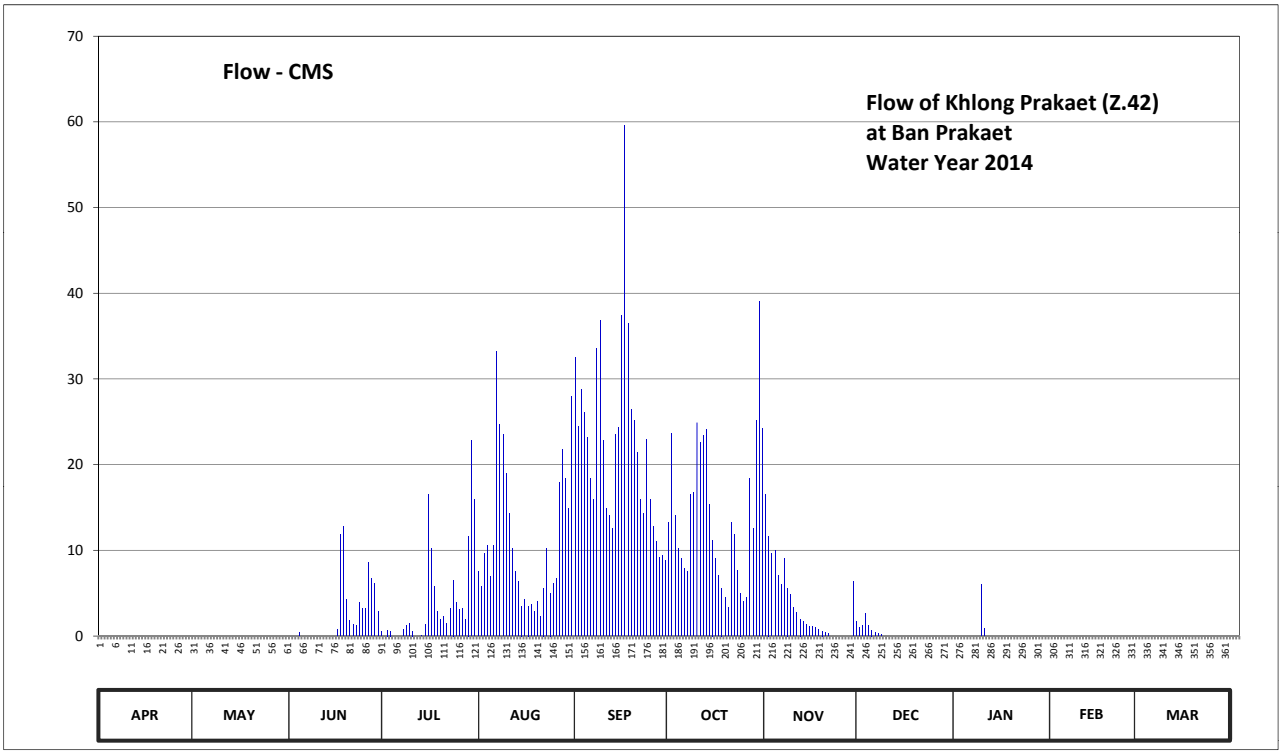
Ban Prakaet **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	451 sq.km.
Type of Gage	Water - stage recorder
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	Recording
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings
Period of Available Gage Records	1996 to date.
Rating Operation	
Period of Rating	2000 to date.
Rated by Flot	-
Rated by Current Meter	2000 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.61	17.61	17.75	17.96	18.42	19.47	19.33	18.72	18.12	17.75	17.61	17.61	
2	17.61	17.61	17.75	18.07	18.62	20.00	18.82	18.62	18.24	17.75	17.61	17.61	
3	17.61	17.61	17.78	18.06	18.67	19.70	18.65	18.64	18.12	17.75	17.61	17.61	
4	17.61	17.61	18.04	18.00	18.48	19.23	18.59	18.49	18.07	17.75	17.61	17.61	
5	17.61	17.61	17.93	17.99	18.67	18.98	18.53	18.43	18.04	17.75	17.61	17.61	
6	17.61	17.61	17.85	17.99	20.34	18.89	18.51	18.59	18.03	17.75	17.61	17.61	
7	17.61	17.61	17.81	18.08	19.52	20.37	18.91	18.41	18.02	17.81	17.61	17.61	
8	17.61	17.61	17.78	18.12	19.30	20.57	18.92	18.37	18.00	18.43	17.61	17.61	
9	17.61	17.61	17.78	18.15	19.00	19.17	19.55	18.29	17.98	18.09	17.61	17.61	
10	17.61	17.61	17.77	18.06	18.83	18.85	19.11	18.25	17.95	17.99	17.61	17.61	
11	17.61	17.61	17.76	17.94	18.65	18.82	19.29	18.20	17.95	17.90	17.61	17.61	
12	17.61	17.61	17.76	17.98	18.51	18.76	19.41	18.17	17.92	17.78	17.61	17.61	
13	17.61	17.61	17.76	18.01	18.45	19.30	18.87	18.13	17.86	17.75	17.61	17.61	
14	17.61	17.61	17.84	18.13	18.30	19.46	18.70	18.11	17.83	17.75	17.61	17.61	
15	17.61	17.61	17.88	18.91	18.34	20.60	18.59	18.11	17.80	17.75	17.61	17.61	
16	17.61	17.61	18.08	18.65	18.30	21.62	18.49	18.10	17.79	17.75	17.61	17.61	
17	17.61	17.61	18.73	18.42	18.31	20.55	18.41	18.08	17.78	17.75	17.61	17.61	
18	17.61	17.61	18.77	18.26	18.26	19.74	18.35	18.06	17.76	17.75	17.61	17.61	
19	17.61	17.61	18.34	18.19	18.33	19.59	18.29	18.04	17.75	17.75	17.61	17.61	
20	17.61	17.61	18.18	18.22	18.22	19.07	18.79	18.03	17.75	17.75	17.61	17.61	
21	17.61	17.61	18.13	18.15	18.41	18.89	18.73	17.99	17.75	17.75	17.61	17.61	
22	17.61	17.61	18.12	18.28	18.65	18.83	18.52	17.94	17.75	17.75	17.61	17.61	
23	17.61	17.61	18.32	18.46	18.38	19.20	18.38	17.88	17.75	17.75	17.61	17.61	
24	17.61	17.61	18.28	18.32	18.44	18.89	18.33	17.83	17.75	17.75	17.61	17.61	
25	17.61	17.61	18.28	18.27	18.47	18.77	18.35	17.88	17.75	17.75	17.61	17.61	
26	17.61	17.61	18.57	18.28	18.96	18.69	18.98	17.94	17.75	17.75	17.61	17.61	
27	17.61	17.61	18.47	18.19	19.08	18.60	18.76	17.99	17.75	17.75	17.61	17.61	
28	17.61	17.61	18.44	18.72	18.98	18.61	19.60	18.45	17.75	17.75	17.61	17.61	
29	17.61	17.61	18.26	19.16	18.85	18.58	20.69	18.17	17.75	17.75		17.61	
30	17.61	17.61	18.05	18.89	19.91	18.79	19.44	18.10	17.75	17.75		17.61	
31		17.61		18.51	20.29		18.91		17.75	17.75		17.61	
Mean	17.61	17.61	18.08	18.27	18.77	19.35	18.86	18.20	17.87	17.80	17.61	17.61	
Max	17.61	17.61	18.77	19.16	20.34	21.62	20.69	18.72	18.24	18.43	17.61	17.61	21.62
Min	17.61	17.61	17.75	17.94	18.22	18.58	18.29	18.83	17.75	17.75	17.61	17.61	17.61

Annual Max Momentary Gage Height	21.80	m. (MSL.) ,	at 12.00 Hours, on Sep 16, 2014		
Zero Gage at Bottom Elevation	17.75	m. (MSL.) ,	River Bed	17.52	m. (MSL.)
Left Bank Elevation	24.92	m. (MSL.) ,			
Right Bank Elevation	24.88	m. (MSL.) ,	Drainage Area	451	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	5.78	24.42	23.65	11.66	1.20	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.70	9.60	28.80	14.04	9.60	2.60	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.60	10.60	26.10	10.20	10.00	1.20	0.00	0.00	0.00		
4	0.00	0.00	0.40	0.00	6.92	23.15	9.01	7.11	0.70	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	10.60	18.44	7.87	5.97	0.40	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	33.22	15.93	7.49	9.01	0.30	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.80	24.72	33.61	16.48	5.59	0.20	0.00	0.00	0.00		
8	0.00	0.00	0.00	1.20	23.50	36.89	16.76	4.83	0.00	5.97	0.00	0.00		
9	0.00	0.00	0.00	1.50	19.00	22.85	24.90	3.35	0.00	0.90	0.00	0.00		
10	0.00	0.00	0.00	0.60	14.31	14.85	22.55	2.75	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	10.20	14.04	23.45	2.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	7.49	12.58	24.06	1.70	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.10	6.35	23.50	15.39	1.30	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	1.30	3.50	24.36	11.20	1.10	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	16.48	4.26	37.40	9.01	1.10	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.80	10.20	3.50	59.54	7.11	1.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	11.89	5.78	3.69	36.55	5.59	0.80	0.00	0.00	0.00	0.00		
18	0.00	0.00	12.81	2.90	2.90	26.46	4.45	0.60	0.00	0.00	0.00	0.00		
19	0.00	0.00	4.26	1.90	4.07	25.14	3.35	0.40	0.00	0.00	0.00	0.00		
20	0.00	0.00	1.80	2.30	2.30	21.45	13.27	0.30	0.00	0.00	0.00	0.00		
21	0.00	0.00	1.30	1.50	5.59	15.93	11.89	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	1.20	3.20	10.20	14.31	7.68	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	3.88	6.54	5.02	23.00	5.02	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	3.20	3.88	6.16	15.93	4.07	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	3.20	3.05	6.73	12.81	4.45	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	8.63	3.20	17.88	11.00	18.44	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	6.73	1.90	21.80	9.20	12.58	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	6.16	11.66	18.44	9.40	25.20	6.35	0.00	0.00	0.00	0.00		
29	0.00	0.00	2.90	22.80	14.85	8.82	39.02	1.70	0.00	0.00		0.00		
30	0.00	0.00	0.50	15.93	27.99	13.27	24.24	1.00	0.00	0.00		0.00		
31		0.00		7.49	32.57		16.48		0.00	0.00		0.00		
Total	0.00	0.00	69.66	127.51	373.74	659.73	438.90	89.22	6.60	6.87	0.00	0.00	1772.23	CMSDAY
Mean	0.00	0.00	2.32	4.11	12.06	21.99	14.16	2.97	0.21	0.22	0.00	0.00	4.86	CMS
Max	0.00	0.00	12.81	22.80	33.22	59.54	39.02	11.66	2.60	5.97	0.00	0.00	59.54	CMS
Min	0.00	0.00	0.00	0.00	2.30	8.82	3.35	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	6.02	11.02	32.29	57.00	37.92	7.71	0.57	0.59	0.00	0.00	153.12	MCM

Momentary Peak 64.50 CMS, at 21.80 m. (MSL.), at 12.00 Hours, on Sep 16, 2014

Runoff Yield 10.77 Liters/Second/Square KM. Momentary Peak Yield 143.016 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Aeng at Ban Kho Lae , Trat (Z.45)

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

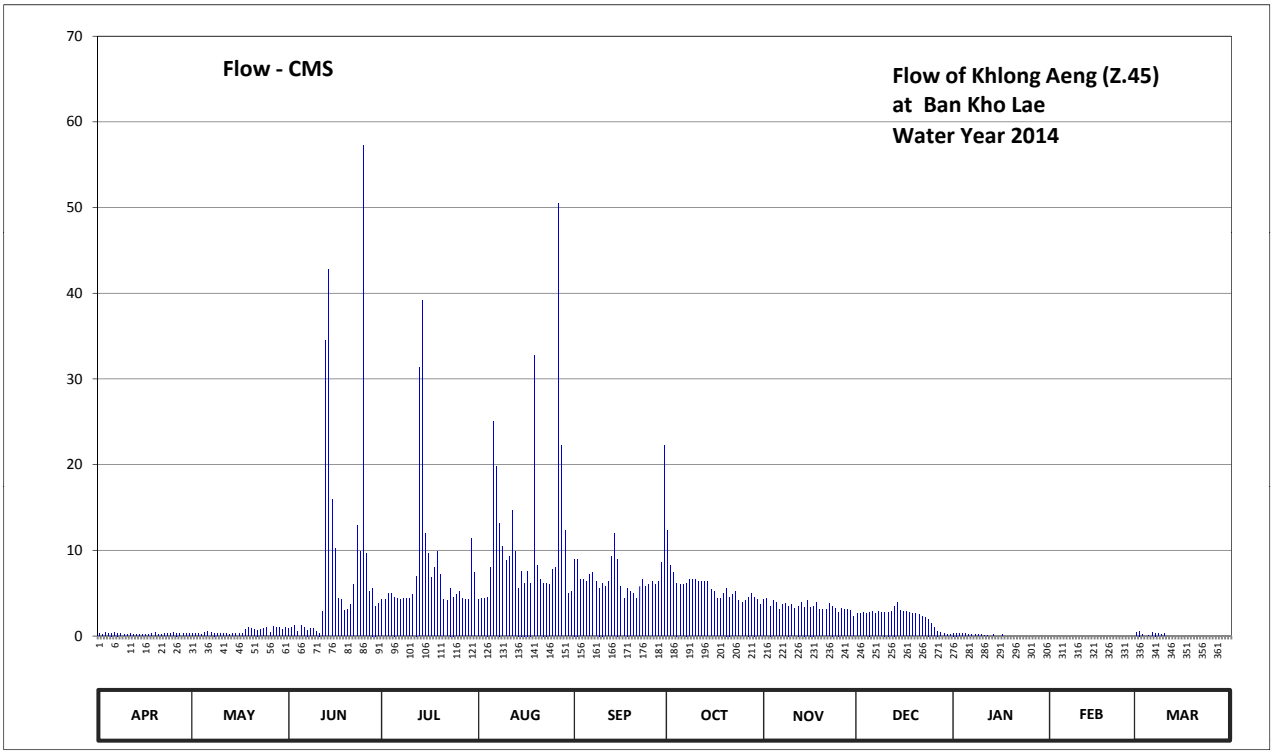
Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban Kho Lae	**Amphoe** Bo Rai	**Changwat** Trat
Drainge Area	58 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+30.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from the top staff gage.		**Elevation** +36.550 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Flot	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.85	30.85	30.94	31.25	31.25	31.50	31.61	31.25	31.11	30.87	30.66	30.89	
2	30.84	30.85	30.95	31.25	31.26	31.50	31.46	31.26	31.11	30.87	30.66	30.91	
3	30.88	30.86	30.97	31.30	31.26	31.38	31.42	31.20	31.12	30.85	30.59	30.84	
4	30.85	30.84	30.90	31.30	31.27	31.38	31.36	31.24	31.11	30.85	30.56	30.80	
5	30.87	30.89	30.97	31.27	31.45	31.37	31.35	31.23	31.13	30.85	30.64	30.81	
6	30.88	30.90	30.95	31.26	32.03	31.41	31.35	31.16	31.14	30.84	30.65	30.88	
7	30.87	30.88	30.92	31.25	31.86	31.42	31.36	31.21	31.11	30.83	30.65	30.87	
8	30.85	30.87	30.94	31.26	31.64	31.37	31.38	31.22	31.14	30.83	30.65	30.85	
9	30.84	30.86	30.94	31.26	31.55	31.33	31.38	31.20	31.12	30.84	30.65	30.83	
10	30.84	30.86	30.90	31.26	31.49	31.36	31.38	31.21	31.13	30.83	30.63	30.85	
11	30.85	30.86	30.87	31.29	31.51	31.34	31.37	31.17	31.13	30.82	30.65	30.80	
12	30.84	30.85	31.14	31.40	31.69	31.37	31.37	31.20	31.14	30.82	30.55	30.80	
13	30.84	30.84	32.30	32.21	31.53	31.51	31.37	31.23	31.20	30.75	30.57	30.80	
14	30.83	30.86	32.52	32.43	31.33	31.60	31.37	31.19	31.23	30.84	30.61	30.80	
15	30.84	30.85	31.73	31.60	31.43	31.50	31.32	31.24	31.15	30.79	30.56	30.77	
16	30.84	30.85	31.54	31.52	31.36	31.34	31.31	31.19	31.14	30.80	30.56	30.75	
17	30.84	30.86	31.26	31.39	31.43	31.26	31.26	31.20	31.14	30.83	30.62	30.71	
18	30.86	30.93	31.25	31.45	31.36	31.33	31.26	31.23	31.12	30.78	30.54	30.70	
19	30.88	30.95	31.15	31.53	32.25	31.31	31.30	31.16	31.11	30.80	30.55	30.70	
20	30.84	30.94	31.16	31.41	31.46	31.30	31.33	31.16	31.11	30.76	30.55	30.66	
21	30.84	30.93	31.21	31.25	31.38	31.26	31.27	31.16	31.10	30.75	30.54	30.65	
22	30.85	30.92	31.35	31.24	31.36	31.34	31.29	31.22	31.08	30.79	30.53	30.65	
23	30.85	30.93	31.63	31.33	31.36	31.38	31.31	31.20	31.07	30.72	30.52	30.65	
24	30.86	30.94	31.53	31.27	31.35	31.34	31.24	31.17	31.05	30.67	30.54	30.70	
25	30.89	30.95	32.86	31.29	31.44	31.35	31.23	31.13	31.00	30.77	30.54	30.71	
26	30.87	30.88	31.52	31.31	31.45	31.37	31.24	31.17	30.95	30.78	30.54	30.73	
27	30.85	30.96	31.31	31.26	32.71	31.35	31.27	31.16	30.91	30.74	30.53	30.75	
28	30.85	30.95	31.33	31.25	31.94	31.37	31.30	31.16	30.88	30.73	30.53	30.75	
29	30.85	30.95	31.20	31.25	31.61	31.48	31.27	31.15	30.86	30.67		30.75	
30	30.86	30.93	31.22	31.58	31.30	31.94	31.25	31.08	30.84	30.67		30.75	
31		30.95		31.42	31.31		31.21		30.83	30.66		30.75	
Mean	30.85	30.89	31.32	31.40	31.54	31.40	31.33	31.19	31.07	30.79	30.58	30.77	
Max	30.89	30.96	32.86	32.43	32.71	31.94	31.61	31.26	31.23	30.87	30.66	30.91	32.86
Min	30.83	30.84	30.87	31.24	31.25	31.26	31.21	31.08	30.83	30.66	30.52	30.65	30.52

Annual Max Momentary Gage Height	35.20	m. (MSL.) ,	at 18.00 Hours, on Aug 27, 2014		
Zero Gage at Bottom Elevation	30.00	m. (MSL.) ,	River Bed	29.88	m. (MSL.)
Left Bank Elevation	35.30	m. (MSL.) ,			
Right Bank Elevation	35.31	m. (MSL.) ,	Drainage Area	58	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	0.25	0.90	4.25	4.25	9.00	12.30	4.25	2.60	0.35	0.00	0.45		
2	0.20	0.25	1.00	4.25	4.40	9.00	8.20	4.40	2.60	0.35	0.00	0.60		
3	0.40	0.30	1.20	5.00	4.40	6.60	7.40	3.50	2.70	0.25	0.00	0.20		
4	0.25	0.20	0.50	5.00	4.55	6.60	6.20	4.10	2.60	0.25	0.00	0.00		
5	0.35	0.45	1.20	4.55	8.00	6.40	6.00	3.95	2.80	0.25	0.00	0.05		
6	0.40	0.50	1.00	4.40	25.05	7.20	6.00	3.10	2.90	0.20	0.00	0.40		
7	0.35	0.40	0.70	4.25	19.80	7.40	6.20	3.65	2.60	0.15	0.00	0.35		
8	0.25	0.35	0.90	4.40	13.20	6.40	6.60	3.80	2.90	0.15	0.00	0.25		
9	0.20	0.30	0.90	4.40	10.50	5.60	6.60	3.50	2.70	0.20	0.00	0.15		
10	0.20	0.30	0.50	4.40	8.80	6.20	6.60	3.65	2.80	0.15	0.00	0.25		
11	0.25	0.30	0.35	4.85	9.30	5.80	6.40	3.20	2.80	0.10	0.00	0.00		
12	0.20	0.25	2.90	7.00	14.70	6.40	6.40	3.50	2.90	0.10	0.00	0.00		
13	0.20	0.20	34.50	31.35	9.90	9.30	6.40	3.95	3.50	0.00	0.00	0.00		
14	0.15	0.30	42.80	39.20	5.60	12.00	6.40	3.40	3.95	0.20	0.00	0.00		
15	0.20	0.25	15.90	12.00	7.60	9.00	5.40	4.10	3.00	0.00	0.00	0.00		
16	0.20	0.25	10.20	9.60	6.20	5.80	5.20	3.40	2.90	0.00	0.00	0.00		
17	0.20	0.30	4.40	6.80	7.60	4.40	4.40	3.50	2.90	0.15	0.00	0.00		
18	0.30	0.80	4.25	8.00	6.20	5.60	4.40	3.95	2.70	0.00	0.00	0.00		
19	0.40	1.00	3.00	9.90	32.75	5.20	5.00	3.10	2.60	0.00	0.00	0.00		
20	0.20	0.90	3.10	7.20	8.20	5.00	5.60	3.10	2.60	0.00	0.00	0.00		
21	0.20	0.80	3.65	4.25	6.60	4.40	4.55	3.10	2.50	0.00	0.00	0.00		
22	0.25	0.70	6.00	4.10	6.20	5.80	4.85	3.80	2.30	0.00	0.00	0.00		
23	0.25	0.80	12.90	5.60	6.20	6.60	5.20	3.50	2.20	0.00	0.00	0.00		
24	0.30	0.90	9.90	4.55	6.00	5.80	4.10	3.20	2.00	0.00	0.00	0.00		
25	0.45	1.00	57.20	4.85	7.80	6.00	3.95	2.80	1.50	0.00	0.00	0.00		
26	0.35	0.40	9.60	5.20	8.00	6.40	4.10	3.20	1.00	0.00	0.00	0.00		
27	0.25	1.10	5.20	4.40	50.45	6.00	4.55	3.10	0.60	0.00	0.00	0.00		
28	0.25	1.00	5.60	4.25	22.20	6.40	5.00	3.10	0.40	0.00	0.00	0.00		
29	0.25	1.00	3.50	4.25	12.30	8.60	4.55	3.00	0.30	0.00		0.00		
30	0.30	0.80	3.80	11.40	5.00	22.20	4.25	2.30	0.20	0.00		0.00		
31		1.00		7.40	5.20		3.65		0.15	0.00		0.00		
Total	8.00	17.35	247.55	241.05	346.95	217.10	176.45	104.20	70.20	2.85	0.00	2.70	1434.40	CMSDAY
Mean	0.27	0.56	8.25	7.78	11.19	7.24	5.69	3.47	2.26	0.09	0.00	0.09	3.93	CMS
Max	0.45	1.10	57.20	39.20	50.45	22.20	12.30	4.40	3.95	0.35	0.00	0.60	57.20	CMS
Min	0.15	0.20	0.35	4.10	4.25	4.40	3.65	2.30	0.15	0.00	0.00	0.00	0.00	CMS
Runoff	0.69	1.50	21.39	20.83	29.98	18.76	15.25	9.00	6.07	0.25	0.00	0.23	123.93	MCM

Momentary Peak 176.00 CMS, at 35.20 m. (MSL.), at 18.00 Hours, on Aug 27, 2014

Runoff Yield 67.76 Liters/Second/Square KM. Momentary Peak Yield 3012.151 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Sano at Ban Nonthee , Trat (Z.46)

Lat 12 - 31 - 05 N Long 102 - 35 - 00 E

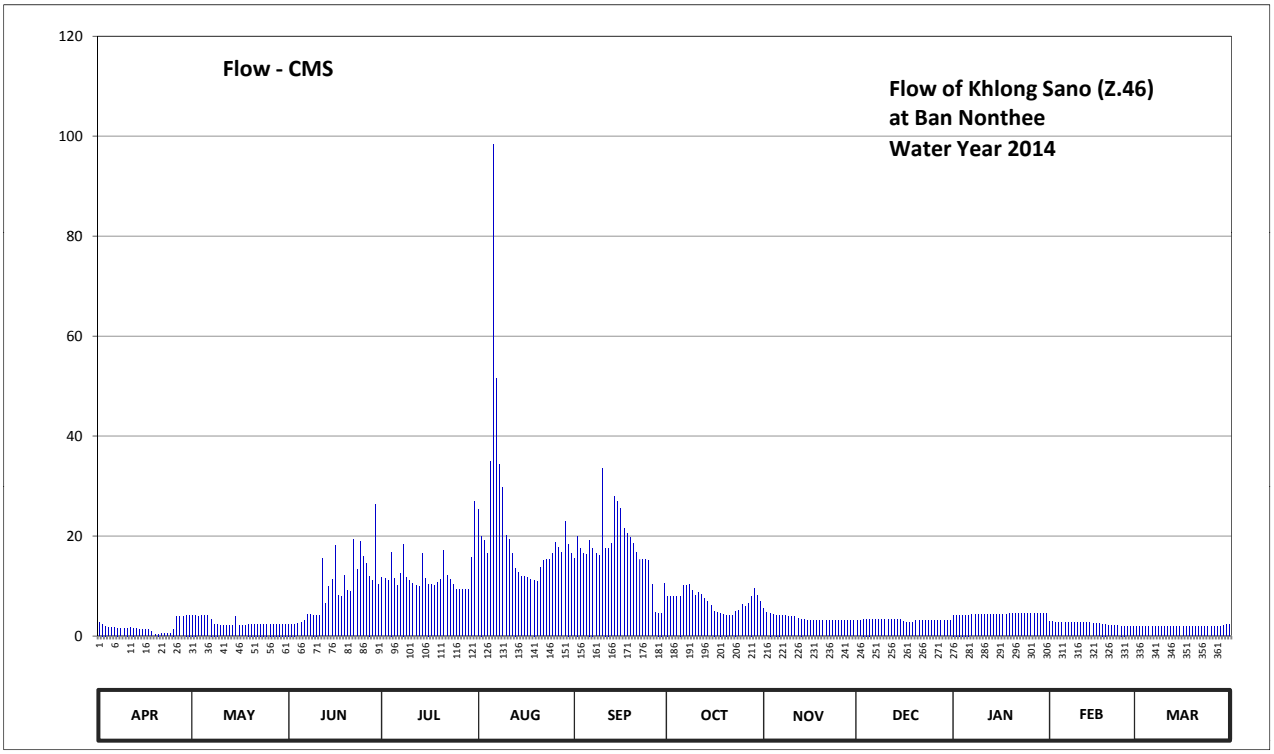
Location : on right bank at Ban Nonthee.

	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	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	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.05	20.17	20.03	20.68	21.48	20.92	20.44	20.26	20.09	20.17	20.07	19.99	
2	20.03	20.17	20.03	20.67	21.20	21.20	20.43	20.21	20.09	20.17	20.07	19.99	
3	20.00	20.15	20.03	20.64	21.14	21.04	20.43	20.20	20.11	20.17	20.06	19.99	
4	19.98	20.16	20.04	21.00	20.98	20.98	20.43	20.18	20.11	20.17	20.06	19.99	
5	19.97	20.16	20.06	20.67	21.98	20.97	20.44	20.17	20.11	20.17	20.06	19.99	
6	19.97	20.16	20.08	20.58	24.46	21.15	20.58	20.17	20.10	20.17	20.06	19.99	
7	19.96	20.11	20.18	20.73	22.72	21.05	20.58	20.16	20.10	20.18	20.06	19.99	
8	19.95	20.03	20.18	21.10	21.95	20.98	20.59	20.16	20.10	20.18	20.06	19.99	
9	19.95	20.03	20.17	20.68	21.71	20.96	20.51	20.15	20.10	20.18	20.05	19.99	
10	19.96	20.01	20.17	20.64	21.21	21.91	20.45	20.15	20.10	20.18	20.05	19.99	
11	19.97	20.01	20.16	20.61	21.16	21.05	20.49	20.15	20.10	20.18	20.05	19.99	
12	19.96	20.01	20.92	20.58	20.98	21.05	20.46	20.12	20.10	20.18	20.05	19.99	
13	19.95	20.01	20.33	20.57	20.80	21.11	20.41	20.11	20.10	20.18	20.05	19.99	
14	19.93	20.01	20.57	20.98	20.74	21.62	20.37	20.10	20.10	20.18	20.05	19.99	
15	19.93	20.15	20.66	20.67	20.69	21.56	20.31	20.09	20.10	20.18	20.04	19.99	
16	19.93	20.01	21.08	20.60	20.69	21.49	20.23	20.09	20.07	20.18	20.04	19.99	
17	19.93	20.01	20.45	20.59	20.68	21.28	20.21	20.09	20.05	20.18	20.04	19.99	
18	19.90	20.01	20.43	20.58	20.66	21.23	20.20	20.09	20.05	20.18	20.03	19.99	
19	19.83	20.03	20.71	20.62	20.65	21.18	20.18	20.09	20.05	20.19	20.03	19.99	
20	19.84	20.03	20.51	20.66	20.63	21.11	20.17	20.09	20.09	20.19	20.01	19.99	
21	19.85	20.03	20.50	21.02	20.81	20.99	20.16	20.09	20.09	20.19	20.01	19.99	
22	19.85	20.03	21.16	20.71	20.89	20.91	20.16	20.09	20.09	20.19	20.01	19.99	
23	19.85	20.03	20.78	20.66	20.91	20.91	20.23	20.09	20.09	20.19	20.01	19.99	
24	19.85	20.03	21.13	20.59	20.91	20.91	20.24	20.09	20.09	20.19	20.00	19.99	
25	19.94	20.03	20.94	20.53	20.98	20.89	20.32	20.09	20.09	20.19	20.00	19.99	
26	20.15	20.03	20.86	20.53	21.12	20.59	20.29	20.09	20.09	20.19	19.99	19.99	
27	20.15	20.03	20.70	20.53	21.06	20.21	20.34	20.09	20.09	20.19	19.99	19.99	
28	20.14	20.03	20.64	20.53	20.99	20.20	20.44	20.09	20.09	20.19	19.99	19.99	
29	20.17	20.03	21.53	20.53	21.35	20.20	20.54	20.09	20.09	20.19		20.01	
30	20.17	20.03	20.59	20.93	21.10	20.61	20.45	20.09	20.09	20.19		20.02	
31		20.03		21.56	20.98		20.36		20.09	20.19		20.02	
Mean	19.97	20.06	20.52	20.71	21.21	21.01	20.37	20.12	20.09	20.18	20.04	19.99	
Max	20.17	20.17	21.53	21.56	24.46	21.91	20.59	20.26	20.11	20.19	20.07	20.02	24.46
Min	19.83	20.01	20.03	20.53	20.63	20.20	20.16	20.09	20.05	20.17	19.99	19.99	19.83

Annual Max Momentary Gage Height	24.77	m. (MSL.) ,	at 06.00 Hours, on Aug 6, 2014		
Zero Gage at Bottom Elevation	20.13	m. (MSL.) ,	River Bed	19.23	m. (MSL.)
Left Bank Elevation	28.02	m. (MSL.) ,			
Right Bank Elevation	27.84	m. (MSL.) ,	Drainage Area	92	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.65	4.21	2.39	11.68	25.32	15.52	8.00	5.44	3.17	4.21	2.91	1.90		
2	2.39	4.21	2.39	11.52	20.00	20.00	7.85	4.74	3.17	4.21	2.91	1.90		
3	2.00	3.95	2.39	11.04	19.04	17.44	7.85	4.60	3.43	4.21	2.78	1.90		
4	1.80	4.08	2.52	16.80	16.48	16.48	7.85	4.34	3.43	4.21	2.78	1.90		
5	1.70	4.08	2.78	11.52	35.06	16.32	8.00	4.21	3.43	4.21	2.78	1.90		
6	1.70	4.08	3.04	10.10	98.28	19.20	10.10	4.21	3.30	4.21	2.78	1.90		
7	1.60	3.43	4.34	12.48	51.50	17.60	10.10	4.08	3.30	4.34	2.78	1.90		
8	1.50	2.39	4.34	18.40	34.45	16.48	10.25	4.08	3.30	4.34	2.78	1.90		
9	1.50	2.39	4.21	11.68	29.69	16.16	9.05	3.95	3.30	4.34	2.65	1.90		
10	1.60	2.13	4.21	11.04	20.19	33.64	8.15	3.95	3.30	4.34	2.65	1.90		
11	1.70	2.13	4.08	10.56	19.36	17.60	8.75	3.95	3.30	4.34	2.65	1.90		
12	1.60	2.13	15.52	10.10	16.48	17.60	8.30	3.56	3.30	4.34	2.65	1.90		
13	1.50	2.13	6.42	9.95	13.60	18.56	7.55	3.43	3.30	4.34	2.65	1.90		
14	1.30	2.13	9.95	16.48	12.64	27.98	6.98	3.30	3.30	4.34	2.65	1.90		
15	1.30	3.95	11.36	11.52	11.84	26.84	6.14	3.17	3.30	4.34	2.52	1.90		
16	1.30	2.13	18.08	10.40	11.84	25.51	5.02	3.17	2.91	4.34	2.52	1.90		
17	1.30	2.13	8.15	10.25	11.68	21.52	4.74	3.17	2.65	4.34	2.52	1.90		
18	1.00	2.13	7.85	10.10	11.36	20.57	4.60	3.17	2.65	4.34	2.39	1.90		
19	0.30	2.39	12.16	10.72	11.20	19.68	4.34	3.17	2.65	4.47	2.39	1.90		
20	0.40	2.39	9.05	11.36	10.88	18.56	4.21	3.17	3.17	4.47	2.13	1.90		
21	0.50	2.39	8.90	17.12	13.76	16.64	4.08	3.17	3.17	4.47	2.13	1.90		
22	0.50	2.39	19.36	12.16	15.04	15.36	4.08	3.17	3.17	4.47	2.13	1.90		
23	0.50	2.39	13.28	11.36	15.36	15.36	5.02	3.17	3.17	4.47	2.13	1.90		
24	0.50	2.39	18.88	10.25	15.36	15.36	5.16	3.17	3.17	4.47	2.00	1.90		
25	1.40	2.39	15.84	9.35	16.48	15.04	6.28	3.17	3.17	4.47	2.00	1.90		
26	3.95	2.39	14.56	9.35	18.72	10.25	5.86	3.17	3.17	4.47	1.90	1.90		
27	3.95	2.39	12.00	9.35	17.76	4.74	6.56	3.17	3.17	4.47	1.90	1.90		
28	3.82	2.39	11.04	9.35	16.64	4.60	8.00	3.17	3.17	4.47	1.90	1.90		
29	4.21	2.39	26.27	9.35	22.85	4.60	9.50	3.17	3.17	4.47		2.13		
30	4.21	2.39	10.25	15.68	18.40	10.56	8.15	3.17	3.17	4.47		2.26		
31		2.39		26.84	16.48		6.84		3.17	4.47		2.26		
Total	53.68	84.88	285.61	377.86	667.74	515.77	217.36	108.56	98.53	135.45	68.96	59.85	2674.25	CMSDAY
Mean	1.79	2.74	9.52	12.19	21.54	17.19	7.01	3.62	3.18	4.37	2.46	1.93	7.33	CMS
Max	4.21	4.21	26.27	26.84	98.28	33.64	10.25	5.44	3.43	4.47	2.91	2.26	98.28	CMS
Min	0.30	2.13	2.39	9.35	10.88	4.60	4.08	3.17	2.65	4.21	1.90	1.90	0.30	CMS
Runoff	4.64	7.33	24.68	32.65	57.69	44.56	18.78	9.38	8.51	11.70	5.96	5.17	231.06	MCM

Momentary Peak 107.10 CMS, at 24.77 m. (MSL.), at 06.00 Hours, on Aug 6, 2014

Runoff Yield 79.64 Liters/Second/Square KM. Momentary Peak Yield 1160.221 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47A)

Lat 12 - 20 - 00 N Long 102 - 38 - 37 E

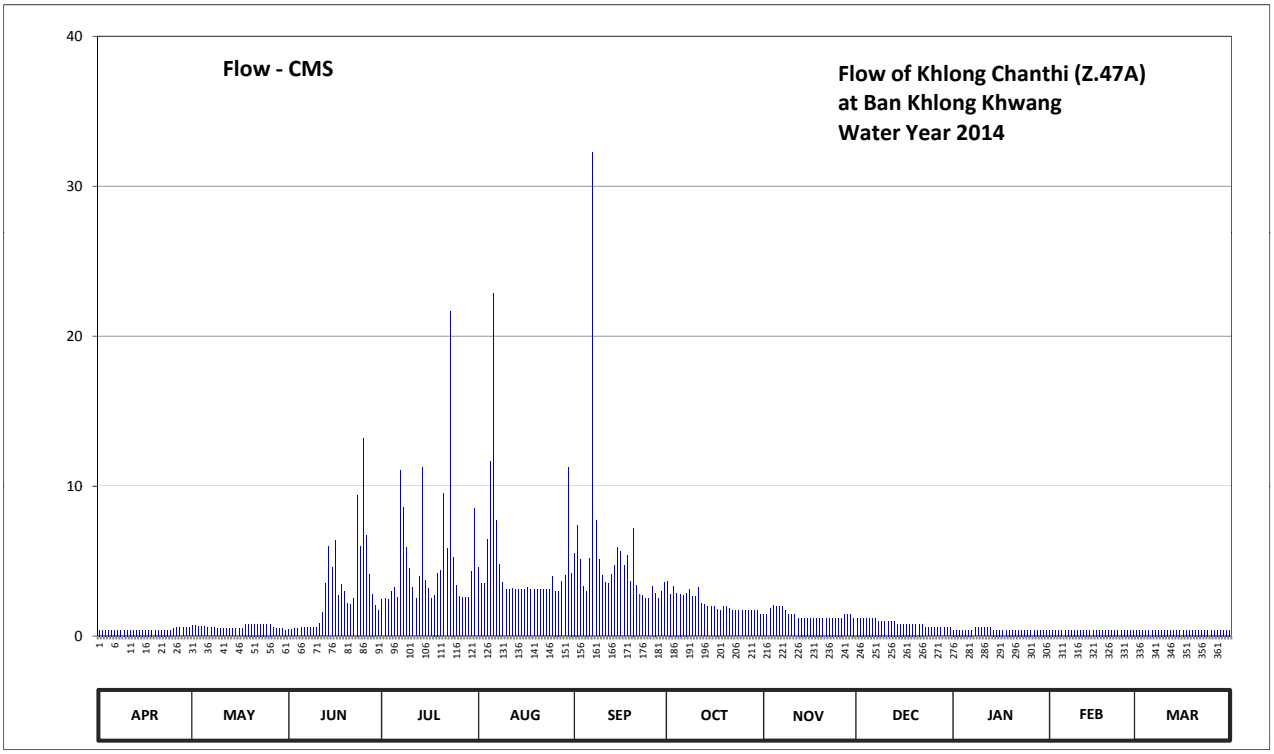
Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

	Ban Khlong Khwang	**Amphoe** Mueang	**Changwat** Trat
Drainge Area	27 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+18.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 20 meters from the top staff gage.		**Elevation** +23.608 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +23.090 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.50	18.57	18.51	18.94	19.25	19.36	19.12	18.75	18.70	18.50	18.50	18.50	
2	18.50	18.57	18.51	18.95	19.10	19.56	19.00	18.75	18.70	18.50	18.50	18.50	
3	18.50	18.56	18.52	18.94	19.10	19.31	19.07	18.83	18.70	18.50	18.50	18.50	
4	18.50	18.56	18.52	19.02	19.46	19.07	19.01	18.87	18.70	18.50	18.50	18.50	
5	18.50	18.56	18.54	19.06	19.97	19.03	19.00	18.85	18.70	18.50	18.50	18.50	
6	18.50	18.55	18.55	18.96	20.79	19.32	18.98	18.85	18.70	18.50	18.50	18.50	
7	18.50	18.55	18.55	18.92	19.59	21.37	19.01	18.85	18.70	18.50	18.50	18.50	
8	18.50	18.55	18.55	19.68	19.27	19.59	19.04	18.80	18.65	18.55	18.50	18.50	
9	18.50	18.53	18.55	19.40	19.11	19.31	18.97	18.75	18.65	18.55	18.50	18.50	
10	18.50	18.53	18.55	19.24	19.04	19.18	18.97	18.75	18.65	18.55	18.50	18.50	
11	18.50	18.53	18.61	19.06	19.04	19.11	19.06	18.75	18.65	18.55	18.50	18.50	
12	18.50	18.52	18.77	18.95	19.05	19.10	18.90	18.70	18.65	18.55	18.50	18.50	
13	18.50	18.52	19.10	19.17	19.04	19.19	18.88	18.70	18.65	18.55	18.50	18.50	
14	18.50	18.52	19.41	19.94	19.04	19.26	18.85	18.70	18.60	18.50	18.50	18.50	
15	18.50	18.52	19.25	19.13	19.04	19.40	18.85	18.70	18.60	18.50	18.50	18.50	
16	18.50	18.52	19.45	19.05	19.04	19.37	18.85	18.70	18.60	18.50	18.50	18.50	
17	18.50	18.53	18.98	18.95	19.06	19.26	18.82	18.70	18.60	18.50	18.50	18.50	
18	18.50	18.60	19.09	18.99	19.04	19.34	18.80	18.70	18.60	18.50	18.50	18.50	
19	18.50	18.60	19.02	19.20	19.04	19.12	18.85	18.70	18.60	18.50	18.50	18.50	
20	18.50	18.60	18.90	19.22	19.04	19.54	18.85	18.70	18.60	18.50	18.50	18.50	
21	18.50	18.60	18.88	19.77	19.04	19.08	18.83	18.70	18.60	18.50	18.50	18.50	
22	18.50	18.60	18.95	19.39	19.04	19.00	18.80	18.70	18.60	18.50	18.50	18.50	
23	18.50	18.60	19.76	20.71	19.04	18.98	18.80	18.70	18.55	18.50	18.50	18.50	
24	18.50	18.60	19.41	19.33	19.04	18.95	18.80	18.70	18.55	18.50	18.50	18.50	
25	18.52	18.60	20.10	19.08	19.17	18.95	18.80	18.70	18.55	18.50	18.50	18.50	
26	18.55	18.60	19.49	18.97	19.03	19.07	18.80	18.70	18.55	18.50	18.50	18.50	
27	18.55	18.55	19.19	18.96	19.03	19.01	18.80	18.75	18.55	18.50	18.50	18.50	
28	18.55	18.53	19.00	18.96	19.12	18.95	18.80	18.75	18.55	18.50	18.50	18.50	
29	18.55	18.52	18.87	18.96	19.18	19.02	18.80	18.75	18.55	18.50		18.50	
30	18.55	18.52	18.80	19.21	19.94	19.11	18.80	18.70	18.55	18.50		18.50	
31		18.50		19.67	19.20		18.75		18.55	18.50		18.50	
Mean	18.51	18.56	18.95	19.25	19.22	19.26	18.89	18.74	18.62	18.51	18.50	18.50	
Max	18.55	18.60	20.10	20.71	20.79	21.37	19.12	18.87	18.70	18.55	18.50	18.50	21.37
Min	18.50	18.50	18.51	18.94	19.03	18.95	18.75	18.70	18.55	18.50	18.50	18.50	18.50

Annual Max Momentary Gage Height	23.49	m. (MSL.) ,	at 07.00 Hours, on Sep 7, 2014		
Zero Gage at Bottom Elevation	18.00	m. (MSL.) ,	River Bed	18.68	m. (MSL.)
Left Bank Elevation	23.08	m. (MSL.) ,			
Right Bank Elevation	23.31	m. (MSL.) ,	Drainage Area	27	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.68	0.44	2.44	4.60	5.54	3.64	1.45	1.20	0.40	0.40	0.40		
2	0.40	0.68	0.44	2.50	3.50	7.40	2.80	1.45	1.20	0.40	0.40	0.40		
3	0.40	0.64	0.48	2.44	3.50	5.09	3.29	1.85	1.20	0.40	0.40	0.40		
4	0.40	0.64	0.48	2.94	6.44	3.29	2.87	2.05	1.20	0.40	0.40	0.40		
5	0.40	0.64	0.56	3.22	11.64	3.01	2.80	1.95	1.20	0.40	0.40	0.40		
6	0.40	0.60	0.60	2.56	22.85	5.18	2.68	1.95	1.20	0.40	0.40	0.40		
7	0.40	0.60	0.60	11.04	7.70	32.26	2.87	1.95	1.20	0.40	0.40	0.40		
8	0.40	0.60	0.60	8.60	4.76	7.70	3.08	1.70	1.00	0.60	0.40	0.40		
9	0.40	0.52	0.60	5.90	3.57	5.09	2.62	1.45	1.00	0.60	0.40	0.40		
10	0.40	0.52	0.60	4.52	3.08	4.06	2.62	1.45	1.00	0.60	0.40	0.40		
11	0.40	0.52	0.84	3.22	3.08	3.57	3.22	1.45	1.00	0.60	0.40	0.40		
12	0.40	0.48	1.55	2.50	3.15	3.50	2.20	1.20	1.00	0.60	0.40	0.40		
13	0.40	0.48	3.50	3.99	3.08	4.13	2.10	1.20	1.00	0.60	0.40	0.40		
14	0.40	0.48	5.99	11.28	3.08	4.68	1.95	1.20	0.80	0.40	0.40	0.40		
15	0.40	0.48	4.60	3.71	3.08	5.90	1.95	1.20	0.80	0.40	0.40	0.40		
16	0.40	0.48	6.35	3.15	3.08	5.63	1.95	1.20	0.80	0.40	0.40	0.40		
17	0.40	0.52	2.68	2.50	3.22	4.68	1.80	1.20	0.80	0.40	0.40	0.40		
18	0.40	0.80	3.43	2.74	3.08	5.36	1.70	1.20	0.80	0.40	0.40	0.40		
19	0.40	0.80	2.94	4.20	3.08	3.64	1.95	1.20	0.80	0.40	0.40	0.40		
20	0.40	0.80	2.20	4.36	3.08	7.20	1.95	1.20	0.80	0.40	0.40	0.40		
21	0.40	0.80	2.10	9.50	3.08	3.36	1.85	1.20	0.80	0.40	0.40	0.40		
22	0.40	0.80	2.50	5.81	3.08	2.80	1.70	1.20	0.80	0.40	0.40	0.40		
23	0.40	0.80	9.40	21.65	3.08	2.68	1.70	1.20	0.60	0.40	0.40	0.40		
24	0.40	0.80	5.99	5.27	3.08	2.50	1.70	1.20	0.60	0.40	0.40	0.40		
25	0.48	0.80	13.20	3.36	3.99	2.50	1.70	1.20	0.60	0.40	0.40	0.40		
26	0.60	0.80	6.71	2.62	3.01	3.29	1.70	1.20	0.60	0.40	0.40	0.40		
27	0.60	0.60	4.13	2.56	3.01	2.87	1.70	1.45	0.60	0.40	0.40	0.40		
28	0.60	0.52	2.80	2.56	3.64	2.50	1.70	1.45	0.60	0.40	0.40	0.40		
29	0.60	0.48	2.05	2.56	4.06	2.94	1.70	1.45	0.60	0.40		0.40		
30	0.60	0.48	1.70	4.28	11.28	3.57	1.70	1.20	0.60	0.40		0.40		
31		0.40		8.50	4.20		1.45		0.60	0.40		0.40		
Total	13.08	19.24	90.06	156.48	148.16	155.92	68.64	42.25	27.00	13.60	11.20	12.40	758.03	CMSDAY
Mean	0.44	0.62	3.00	5.05	4.78	5.20	2.21	1.41	0.87	0.44	0.40	0.40	2.08	CMS
Max	0.60	0.80	13.20	21.65	22.85	32.26	3.64	2.05	1.20	0.60	0.40	0.40	32.26	CMS
Min	0.40	0.40	0.44	2.44	3.01	2.50	1.45	1.20	0.60	0.40	0.40	0.40	0.40	CMS
Runoff	1.13	1.66	7.78	13.52	12.80	13.47	5.93	3.65	2.33	1.18	0.97	1.07	65.49	MCM

Momentary Peak 158.63 CMS, at 23.49 m. (MSL.), at 07.00 Hours, on Sep 7, 2014

Runoff Yield 76.92 Liters/Second/Square KM. Momentary Peak Yield 5875.185 Liters/Second/Square KM.

WATER YEAR : 2014

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

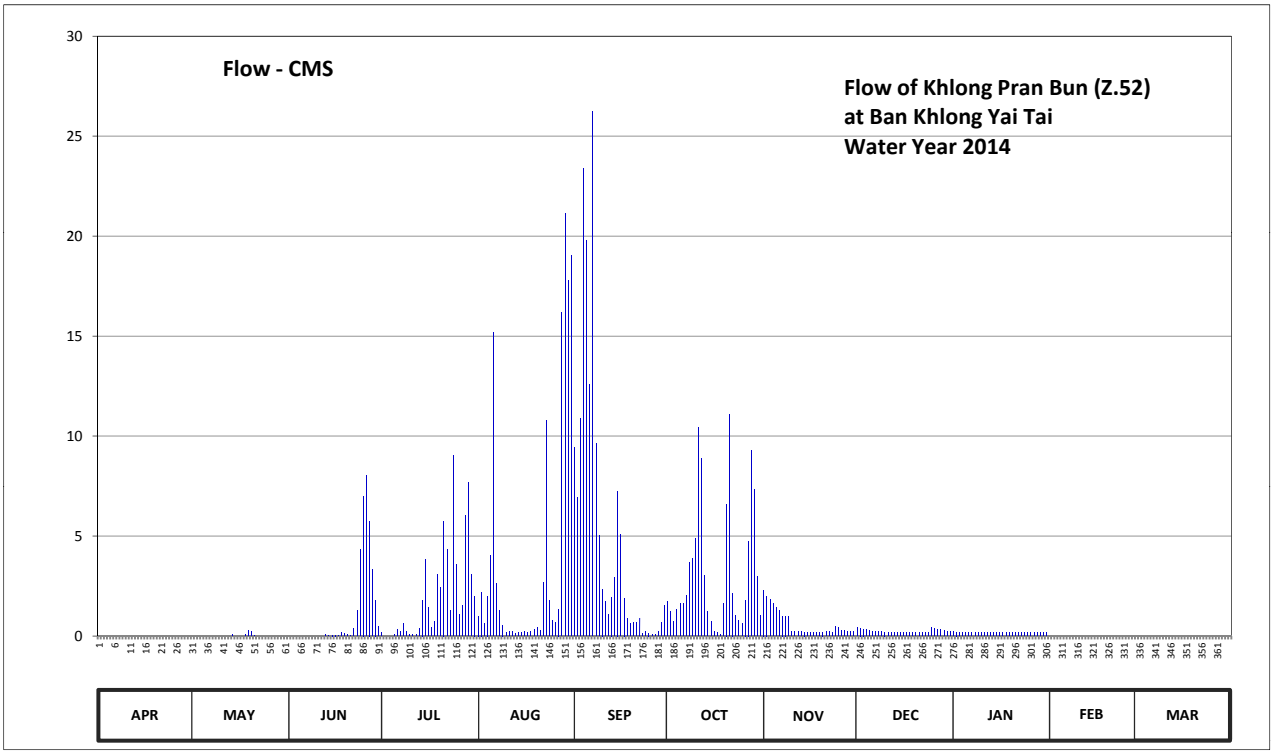
Location : on left bank at Ban Khlong Yai Tai.

	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	3-time daily readings at 06.00,12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.74	37.74	37.74	38.38	38.90	40.19	39.08	39.20	38.63	38.44	37.74	37.74	
2	37.74	37.74	37.74	37.94	39.18	39.89	38.96	39.14	38.60	38.41	37.74	37.74	
3	37.74	37.74	37.74	37.94	38.74	40.35	38.78	39.11	38.57	38.39	37.74	37.74	
4	37.74	37.74	37.74	37.94	39.14	41.45	38.99	39.06	38.54	38.37	37.74	37.74	
5	37.74	37.74	37.74	38.14	39.50	41.16	39.06	39.02	38.53	38.37	37.74	37.74	
6	37.74	37.74	37.74	38.54	40.76	40.52	39.06	38.98	38.50	38.37	37.74	37.74	
7	37.74	37.74	37.74	38.42	39.26	41.68	39.15	38.90	38.47	38.37	37.74	37.74	
8	37.74	37.74	37.75	38.74	38.98	40.21	39.44	38.90	38.44	38.37	37.74	37.74	
9	37.74	37.74	37.75	38.42	38.70	39.64	39.47	38.89	38.42	38.37	37.74	37.74	
10	37.74	37.74	37.75	38.14	38.34	39.21	39.62	38.47	38.40	38.37	37.74	37.74	
11	37.74	37.74	37.75	38.14	38.42	39.08	40.30	38.45	38.37	38.37	37.74	37.74	
12	37.74	37.74	37.75	38.18	38.46	38.92	40.12	38.44	38.36	38.37	37.74	37.74	
13	37.74	38.00	38.14	38.58	38.26	39.13	39.33	38.43	38.34	38.37	37.74	37.74	
14	37.74	38.14	38.02	39.10	38.34	39.31	38.97	38.41	38.34	38.37	37.74	37.74	
15	37.74	37.94	38.10	39.46	38.34	39.93	38.78	38.38	38.34	38.37	37.74	37.74	
16	37.74	37.88	38.10	39.02	38.42	39.65	38.50	38.36	38.34	38.37	37.74	37.74	
17	37.74	37.96	38.02	38.62	38.34	39.12	38.39	38.34	38.34	38.37	37.74	37.74	
18	37.74	38.18	38.34	38.78	38.44	38.85	38.12	38.33	38.34	38.37	37.74	37.74	
19	37.74	38.52	38.26	39.34	38.54	38.75	39.06	38.36	38.34	38.37	37.74	37.74	
20	37.74	38.44	38.14	39.22	38.61	38.77	39.85	38.41	38.34	38.37	37.74	37.74	
21	37.74	38.04	38.06	39.74	38.52	38.76	40.37	38.43	38.34	38.37	37.74	37.74	
22	37.74	37.84	38.58	39.54	39.27	38.86	39.17	38.43	38.34	38.37	37.74	37.74	
23	37.74	37.84	38.98	38.98	40.34	38.28	38.91	38.34	38.34	38.37	37.74	37.74	
24	37.74	37.84	39.54	40.14	39.09	38.48	38.81	38.64	38.34	38.37	37.74	37.74	
25	37.74	37.84	39.90	39.42	38.81	38.29	38.74	38.61	38.63	38.37	37.74	37.74	
26	37.74	37.84	40.02	38.92	38.77	38.19	39.10	38.53	38.58	38.37	37.74	37.74	
27	37.74	37.84	39.74	39.04	39.00	38.15	39.60	38.51	38.56	38.37	37.74	37.74	
28	37.74	37.84	39.38	39.78	40.85	38.44	40.17	38.49	38.54	38.37	37.74	37.74	
29	37.74	37.84	39.10	39.98	41.27	38.76	39.94	38.49	38.51	38.37		37.74	
30	37.74	37.84	38.66	39.34	40.99	39.04	39.32	38.49	38.48	38.37		37.74	
31		37.84		39.14	41.10		38.91		38.45	38.37		37.74	
Mean	37.74	37.88	38.33	38.87	39.15	39.37	39.23	38.62	38.44	38.37	37.74	37.74	
Max	37.74	38.52	40.02	40.14	41.27	41.68	40.37	39.20	38.63	38.44	37.74	37.74	41.68
Min	37.74	37.74	37.74	37.94	38.26	38.15	38.12	38.33	38.34	38.37	37.74	37.74	37.74

Annual Max Momentary Gage Height	42.29	m. (MSL.) ,	at 18.00 Hours, on Aug 28, 2014		
Zero Gage at Bottom Elevation	37.74	m. (MSL.) ,	River Bed	38.65	m. (MSL.)
Left Bank Elevation	43.12	m. (MSL.) ,			
Right Bank Elevation	43.17	m. (MSL.) ,	Drainage Area	60	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.19	1.00	9.46	1.71	2.30	0.45	0.22	0.00	0.00		
2	0.00	0.00	0.00	0.00	2.20	6.92	1.21	2.00	0.40	0.20	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.63	10.90	0.71	1.85	0.35	0.19	0.00	0.00		
4	0.00	0.00	0.00	0.00	2.00	23.38	1.32	1.62	0.31	0.18	0.00	0.00		
5	0.00	0.00	0.00	0.07	4.05	19.79	1.62	1.44	0.29	0.18	0.00	0.00		
6	0.00	0.00	0.00	0.31	15.21	12.61	1.62	1.28	0.25	0.18	0.00	0.00		
7	0.00	0.00	0.00	0.21	2.63	26.25	2.05	1.00	0.24	0.18	0.00	0.00		
8	0.00	0.00	0.00	0.63	1.28	9.64	3.69	1.00	0.22	0.18	0.00	0.00		
9	0.00	0.00	0.00	0.21	0.55	5.03	3.87	0.97	0.21	0.18	0.00	0.00		
10	0.00	0.00	0.00	0.07	0.17	2.35	4.89	0.24	0.20	0.18	0.00	0.00		
11	0.00	0.00	0.00	0.07	0.21	1.71	10.45	0.23	0.18	0.18	0.00	0.00		
12	0.00	0.00	0.00	0.09	0.23	1.07	8.87	0.22	0.18	0.18	0.00	0.00		
13	0.00	0.00	0.07	0.37	0.13	1.95	3.03	0.22	0.17	0.18	0.00	0.00		
14	0.00	0.07	0.01	1.80	0.17	2.91	1.25	0.20	0.17	0.18	0.00	0.00		
15	0.00	0.00	0.05	3.81	0.17	7.25	0.71	0.19	0.17	0.18	0.00	0.00		
16	0.00	0.00	0.05	1.44	0.21	5.10	0.25	0.18	0.17	0.18	0.00	0.00		
17	0.00	0.00	0.01	0.43	0.17	1.90	0.19	0.17	0.17	0.18	0.00	0.00		
18	0.00	0.09	0.17	0.71	0.22	0.87	0.06	0.17	0.17	0.18	0.00	0.00		
19	0.00	0.28	0.13	3.09	0.31	0.65	1.62	0.18	0.17	0.18	0.00	0.00		
20	0.00	0.22	0.07	2.41	0.42	0.69	6.60	0.20	0.17	0.18	0.00	0.00		
21	0.00	0.02	0.03	5.75	0.28	0.67	11.08	0.22	0.17	0.18	0.00	0.00		
22	0.00	0.00	0.37	4.33	2.69	0.90	2.15	0.22	0.17	0.18	0.00	0.00		
23	0.00	0.00	1.28	1.28	10.81	0.14	1.03	0.17	0.17	0.18	0.00	0.00		
24	0.00	0.00	4.33	9.04	1.76	0.24	0.78	0.46	0.17	0.18	0.00	0.00		
25	0.00	0.00	7.00	3.57	0.78	0.15	0.63	0.42	0.45	0.18	0.00	0.00		
26	0.00	0.00	8.02	1.07	0.69	0.09	1.80	0.29	0.37	0.18	0.00	0.00		
27	0.00	0.00	5.75	1.53	1.35	0.08	4.75	0.26	0.34	0.18	0.00	0.00		
28	0.00	0.00	3.33	6.05	16.20	0.22	9.29	0.25	0.31	0.18	0.00	0.00		
29	0.00	0.00	1.80	7.68	21.13	0.67	7.34	0.25	0.26	0.18		0.00		
30	0.00	0.00	0.49	3.09	17.79	1.53	2.97	0.25	0.24	0.18		0.00		
31		0.00		2.00	19.05		1.03		0.23	0.18		0.00		
Total	0.00	0.68	32.96	61.30	124.49	155.12	98.57	18.45	7.52	5.65	0.00	0.00	504.74	CMSDAY
Mean	0.00	0.02	1.10	1.98	4.02	5.17	3.18	0.62	0.24	0.18	0.00	0.00	1.38	CMS
Max	0.00	0.28	8.02	9.04	21.13	26.25	11.08	2.30	0.45	0.22	0.00	0.00	26.25	CMS
Min	0.00	0.00	0.00	0.00	0.13	0.08	0.06	0.17	0.17	0.18	0.00	0.00	0.00	CMS
Runoff	0.00	0.06	2.85	5.30	10.76	13.40	8.52	1.59	0.65	0.49	0.00	0.00	43.61	MCM

Momentary Peak 34.46 CMS, at 42.29 m. (MSL.), at 18.00 Hours, on Aug 28, 2014

Runoff Yield 23.05 Liters/Second/Square KM. Momentary Peak Yield 574.333 Liters/Second/Square KM.

WATER YEAR : 2014

EAST COAST - GULF BASIN

Chanthaburi River at Ban Thung Ta In , Chanthaburi (Z.53)

Lat 12 - 50 - 23 N Long 102 - 05 - 04 E

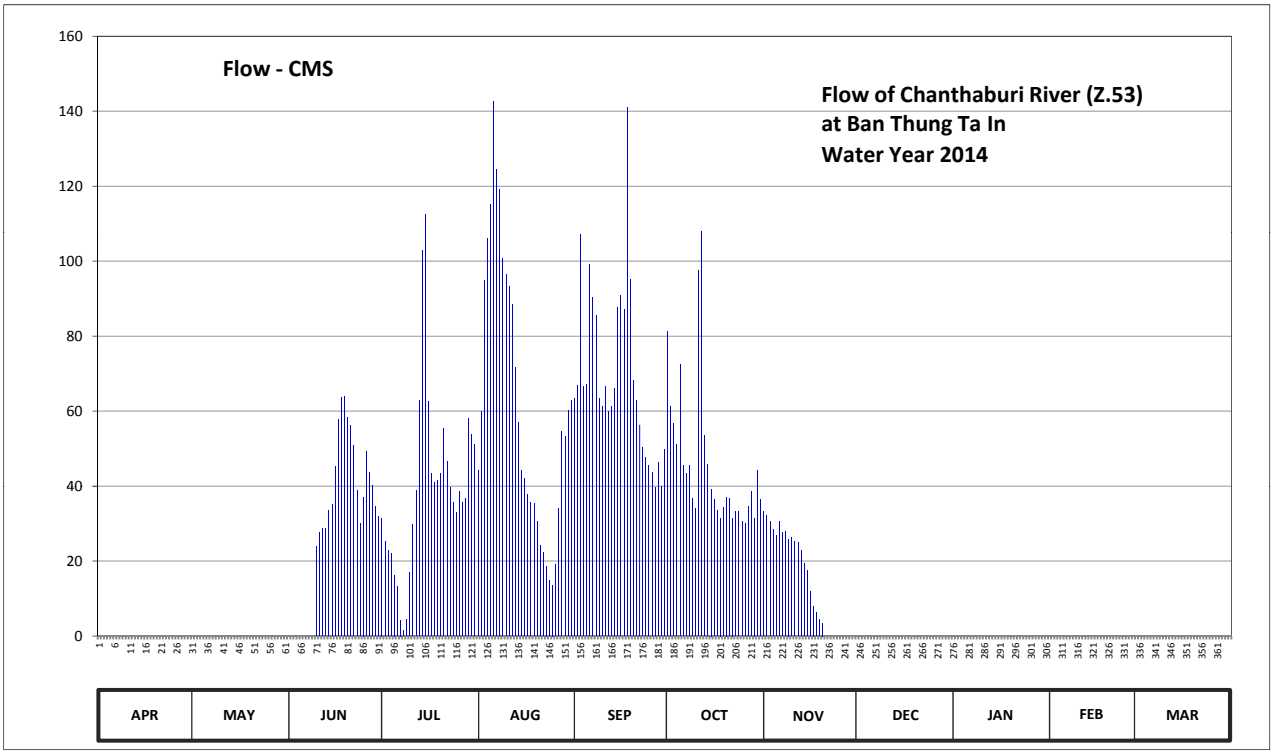
Location : on left bank at the bridge on highway.

	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	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.61	15.64	15.60	15.90	16.26	16.81	17.28	15.95	16.13	16.10	14.86	15.39	
2	15.59	15.62	15.59	15.71	16.71	16.91	16.75	15.92	16.10	16.05	14.86	15.32	
3	15.60	15.64	15.58	15.63	17.62	17.93	16.62	15.87	16.08	15.99	14.85	15.26	
4	15.63	15.61	15.59	15.60	17.90	16.90	16.46	15.81	16.05	15.94	14.85	15.20	
5	15.59	15.61	15.61	15.41	18.13	16.92	17.06	15.76	16.01	15.81	14.85	15.13	
6	15.57	15.63	15.62	15.31	18.73	17.73	16.30	15.87	16.04	15.73	14.84	15.11	
7	15.57	15.63	15.63	14.97	18.36	17.51	16.24	15.79	16.06	15.62	14.84	15.10	
8	15.58	15.62	15.64	14.86	18.23	17.39	16.30	15.80	16.04	15.59	14.84	15.08	
9	15.61	15.61	15.64	14.98	17.77	16.81	16.05	15.73	16.08	15.57	14.84	15.08	
10	15.64	15.64	15.66	15.43	17.66	16.75	15.97	15.74	16.10	15.55	14.84	15.06	
11	15.63	15.61	15.79	15.85	17.58	16.90	17.69	15.71	16.05	15.54	14.83	15.05	
12	15.59	15.61	15.82	16.11	17.46	16.71	17.95	15.70	15.99	15.53	14.83	15.05	
13	15.58	15.62	15.82	16.80	17.04	16.75	16.53	15.63	15.94	15.52	14.83	15.04	
14	15.57	15.61	15.96	17.82	16.63	16.89	16.31	15.51	15.76	15.50	14.82	15.04	
15	15.56	15.61	16.00	18.06	16.26	17.44	16.12	15.45	15.72	15.47	14.82	15.03	
16	15.61	15.62	16.29	16.79	16.20	17.52	16.04	15.26	15.65	15.45	14.82	15.03	
17	15.64	15.62	16.65	16.24	16.08	17.43	15.96	15.12	15.59	15.42	14.81	15.03	
18	15.59	15.62	16.82	16.17	16.02	18.70	15.90	15.05	15.56	15.40	14.81	15.03	
19	15.61	15.61	16.83	16.19	16.01	17.63	15.98	14.98	15.54	15.39	14.98	15.03	
20	15.62	15.61	16.67	16.24	15.87	16.95	16.06	14.94	15.51	15.37	14.96	15.02	
21	15.60	15.61	16.61	16.58	15.67	16.80	16.05	15.08	15.49	15.34	14.95	15.02	
22	15.56	15.61	16.45	16.33	15.61	16.61	15.90	15.58	15.47	15.32	14.95	15.02	
23	15.64	15.61	16.11	16.13	15.49	16.44	15.95	15.83	15.46	15.31	14.95	15.01	
24	15.63	15.61	15.86	16.02	15.36	16.36	15.95	15.90	15.45	15.29	14.94	15.13	
25	15.58	15.61	16.06	15.94	15.32	16.30	15.87	15.99	15.44	15.27	14.94	15.21	
26	15.59	15.61	16.41	16.10	15.50	16.25	15.86	16.09	15.42	15.22	14.94	15.40	
27	15.61	15.60	16.25	16.02	15.97	16.13	15.99	16.20	15.41	15.18	14.93	15.55	
28	15.62	15.60	16.15	16.05	16.56	16.32	16.10	16.22	15.40	15.13	14.93	15.52	
29	15.64	15.60	15.99	16.66	16.52	16.14	15.90	16.24	15.39	15.09		15.51	
30	15.60	15.60	15.91	16.54	16.72	16.42	16.26	16.22	15.38	14.93		15.50	
31		15.60		16.46	16.80		16.04		15.36	14.87		15.48	
Mean	15.60	15.61	16.02	16.09	16.71	16.95	16.30	15.70	15.73	15.47	14.88	15.18	
Max	15.64	15.64	16.83	18.06	18.73	18.70	17.95	16.24	16.13	16.10	14.98	15.55	18.73
Min	15.56	15.60	15.58	14.86	15.32	16.13	15.86	14.94	15.36	14.87	14.81	15.01	14.81

Annual Max Momentary Gage Height	18.80	m. (MSL.) ,	at 18.00 Hours, on Sep 18, 2014		
Zero Gage at Bottom Elevation	14.26	m. (MSL.) ,	River Bed	13.10	m. (MSL.)
Left Bank Elevation	21.61	m. (MSL.) ,			
Right Bank Elevation	21.71	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	31.50	44.10	63.35	81.20	33.25	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	25.30	59.85	66.85	61.25	32.20	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	22.90	94.80	107.20	56.70	30.45	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	22.00	106.00	66.50	51.10	28.35	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	16.30	115.20	67.20	72.40	26.80	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	13.30	142.50	99.20	45.50	30.45	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	4.25	124.40	90.40	43.40	27.70	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	1.50	119.20	85.60	45.50	28.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	4.50	100.80	63.35	36.75	25.90	0.00	0.00	0.00	0.00		
10	0.00	0.00	23.80	16.90	96.40	61.25	33.95	26.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	27.70	29.75	93.20	66.50	97.60	25.30	0.00	0.00	0.00	0.00		
12	0.00	0.00	28.70	38.85	88.40	59.85	108.00	25.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	28.70	63.00	71.60	61.25	53.55	22.90	0.00	0.00	0.00	0.00		
14	0.00	0.00	33.60	102.80	57.05	66.15	45.85	19.30	0.00	0.00	0.00	0.00		
15	0.00	0.00	35.00	112.40	44.10	87.60	39.20	17.50	0.00	0.00	0.00	0.00		
16	0.00	0.00	45.15	62.65	42.00	90.80	36.40	11.80	0.00	0.00	0.00	0.00		
17	0.00	0.00	57.75	43.40	37.80	87.20	33.60	8.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	63.70	40.95	35.70	141.00	31.50	6.25	0.00	0.00	0.00	0.00		
19	0.00	0.00	64.05	41.65	35.35	95.20	34.30	4.50	0.00	0.00	0.00	0.00		
20	0.00	0.00	58.45	43.40	30.45	68.25	37.10	3.50	0.00	0.00	0.00	0.00		
21	0.00	0.00	56.35	55.30	24.10	63.00	36.75	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	50.75	46.55	22.30	56.35	31.50	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	38.85	39.55	18.70	50.40	33.25	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	30.10	35.70	14.80	47.60	33.25	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	37.10	32.90	13.60	45.50	30.45	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	49.35	38.50	19.00	43.75	30.10	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	43.75	35.70	33.95	39.55	34.65	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	40.25	36.75	54.60	46.20	38.50	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	34.65	58.10	53.20	39.90	31.50	0.00	0.00	0.00		0.00		
30	0.00	0.00	31.85	53.90	60.20	49.70	44.10	0.00	0.00	0.00		0.00		
31		0.00		51.10	63.00		36.40		0.00	0.00		0.00		
Total	0.00	0.00	879.60	1221.35	1916.35	2076.65	1425.30	433.35	0.00	0.00	0.00	0.00	7952.60	CMSDAY
Mean	0.00	0.00	29.32	39.40	61.82	69.22	45.98	14.44	0.00	0.00	0.00	0.00	21.79	CMS
Max	0.00	0.00	64.05	112.40	142.50	141.00	108.00	33.25	0.00	0.00	0.00	0.00	142.50	CMS
Min	0.00	0.00	0.00	1.50	13.60	39.55	30.10	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	76.00	105.53	165.57	179.42	123.15	37.44	0.00	0.00	0.00	0.00	687.11	MCM

Momentary Peak 146.00 CMS, at 18.80 m. (MSL.), at 18.00 Hours, on Sep 18, 2014

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

WATER YEAR : 2014

EAST COAST - GULF BASIN

Chanthaburi River at Ban Wang Cha Ai , Chanthaburi (Z.55)

Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

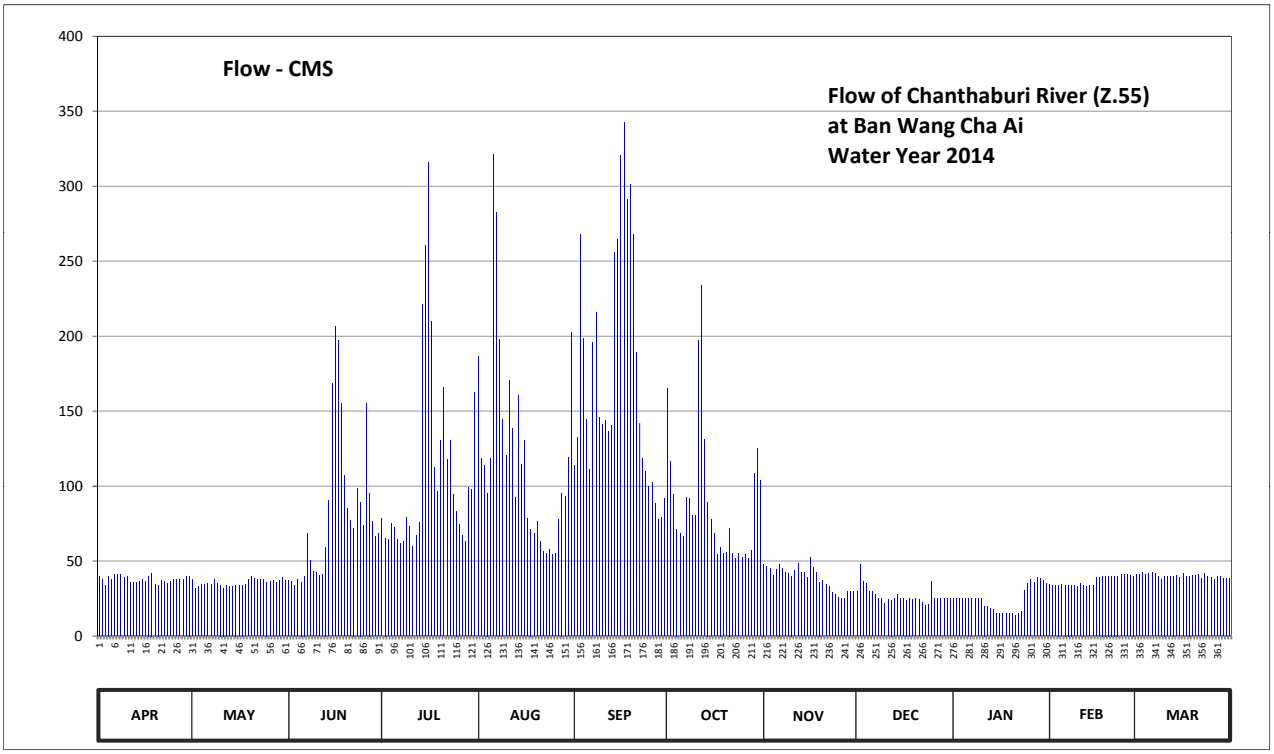
Location : on left bank at the bridge on highway.

	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	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	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Flot	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.03	2.99	2.98	3.71	5.26	4.27	4.99	3.20	2.84	2.74	2.93	3.06	
2	2.99	2.87	2.97	3.49	4.34	4.54	4.31	3.17	3.19	2.74	2.91	3.06	
3	2.91	2.90	2.91	3.47	4.27	6.27	3.97	3.14	2.97	2.74	2.91	3.09	
4	3.04	2.93	2.99	3.65	3.99	5.41	3.59	3.05	2.94	2.74	2.92	3.06	
5	2.99	2.93	2.96	3.61	4.34	4.71	3.54	3.13	2.83	2.74	2.93	3.07	
6	3.06	2.94	3.04	3.47	6.89	4.23	3.51	3.20	2.83	2.74	2.92	3.09	
7	3.06	2.93	3.54	3.43	6.45	5.37	3.94	3.14	2.79	2.74	2.92	3.07	
8	3.06	2.99	3.24	3.45	5.40	5.62	3.93	3.09	2.74	2.74	2.92	3.03	
9	3.02	2.94	3.10	3.72	4.71	4.73	3.74	3.07	2.74	2.74	2.91	3.00	
10	3.03	2.92	3.09	3.62	4.36	4.66	3.74	3.04	2.68	2.74	2.90	3.04	
11	2.95	2.88	3.05	3.40	5.06	4.70	5.39	3.11	2.73	2.64	2.94	3.03	
12	2.95	2.92	3.06	3.52	4.62	4.59	5.85	3.21	2.72	2.63	2.92	3.03	
13	2.95	2.90	3.39	3.66	3.94	4.65	4.52	3.09	2.74	2.61	2.90	3.04	
14	2.97	2.90	3.91	5.69	4.93	6.12	3.89	3.09	2.79	2.59	2.91	3.05	
15	2.99	2.92	5.03	6.18	4.28	6.23	3.69	3.02	2.74	2.54	2.91	3.02	
16	2.97	2.91	5.51	6.83	4.51	6.88	3.54	3.27	2.74	2.54	3.02	3.07	
17	3.04	2.92	5.39	5.55	3.71	7.13	3.31	3.16	2.72	2.54	3.02	3.03	
18	3.08	2.93	4.86	4.25	3.59	6.55	3.39	3.09	2.74	2.54	3.04	3.04	
19	2.93	2.99	4.17	4.01	3.54	6.67	3.32	2.96	2.73	2.54	3.04	3.05	
20	2.92	3.03	3.82	4.51	3.67	6.27	3.33	2.98	2.74	2.54	3.04	3.05	
21	2.98	3.01	3.68	5.00	3.45	5.29	3.60	2.93	2.73	2.52	3.04	3.06	
22	2.97	2.99	3.60	4.33	3.34	4.67	3.32	2.90	2.69	2.54	3.04	3.01	
23	2.94	2.99	4.04	4.51	3.32	4.34	3.26	2.82	2.65	2.57	3.04	3.07	
24	2.97	2.99	3.89	3.97	3.36	4.21	3.32	2.79	2.66	2.85	3.06	3.03	
25	2.99	2.96	3.63	3.79	3.31	4.06	3.27	2.75	2.97	2.94	3.06	3.02	
26	2.99	2.97	4.86	3.64	3.32	4.11	3.31	2.74	2.74	3.00	3.06	3.00	
27	2.99	2.98	3.99	3.52	3.70	3.87	3.26	2.74	2.74	2.95	3.05	3.03	
28	2.99	2.95	3.67	3.45	3.99	3.69	3.35	2.84	2.74	3.02	3.04	3.03	
29	3.03	2.98	3.51	4.05	3.95	3.72	4.19	2.84	2.74	3.01		3.01	
30	3.04	3.02	3.54	4.03	4.35	3.93	4.43	2.84	2.74	2.98		3.01	
31		2.98		4.95	5.46		4.13		2.74	2.94		3.01	
Mean	2.99	2.95	3.71	4.14	4.30	5.05	3.84	3.01	2.78	2.72	2.98	3.04	
Max	3.08	3.03	5.51	6.83	6.89	7.13	5.85	3.27	3.19	3.02	3.06	3.09	7.13
Min	2.91	2.87	2.91	3.40	3.31	3.69	3.26	2.74	2.65	2.52	2.90	3.00	2.52

Annual Max Momentary Gage Height	7.46	m. (MSL.) ,	at 12.00 Hours, on Aug 31, 2014	
Zero Gage at Bottom Elevation	1.74	m. (MSL.) ,	River Bed -1.50	m. (MSL.)
Left Bank Elevation	9.48	m. (MSL.) ,		
Right Bank Elevation	10.20	m. (MSL.) ,	Drainage Area	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	39.50	37.50	37.00	78.60	186.80	113.90	165.25	48.00	30.00	25.00	34.50	41.00		
2	37.50	31.50	36.50	65.40	118.80	132.80	116.70	46.50	47.50	25.00	33.50	41.00		
3	33.50	33.00	33.50	64.20	113.90	267.60	94.20	45.00	36.50	25.00	33.50	42.50		
4	40.00	34.50	37.50	75.00	95.40	198.80	71.40	40.50	35.00	25.00	34.00	41.00		
5	37.50	34.50	36.00	72.60	118.80	144.70	68.40	44.50	29.50	25.00	34.50	41.50		
6	41.00	35.00	40.00	64.20	321.10	111.10	66.60	48.00	29.50	25.00	34.00	42.50		
7	41.00	34.50	68.40	61.80	282.25	195.60	92.40	45.00	27.50	25.00	34.00	41.50		
8	41.00	37.50	50.40	63.00	198.00	215.60	91.80	42.50	25.00	25.00	34.00	39.50		
9	39.00	35.00	43.00	79.20	144.70	146.10	80.40	41.50	25.00	25.00	33.50	38.00		
10	39.50	34.00	42.50	73.20	120.20	141.20	80.40	40.00	22.00	25.00	33.00	40.00		
11	35.50	32.00	40.50	60.00	170.80	144.00	197.20	43.50	24.50	20.00	35.00	39.50		
12	35.50	34.00	41.00	67.20	138.40	136.30	234.00	48.60	24.00	19.50	34.00	39.50		
13	35.50	33.00	59.40	75.60	92.40	140.50	131.40	42.50	25.00	18.50	33.00	40.00		
14	36.50	33.00	90.60	221.20	160.75	255.60	89.40	42.50	27.50	17.50	33.50	40.50		
15	37.50	34.00	168.40	260.40	114.60	264.40	77.40	39.00	25.00	15.00	33.50	39.00		
16	36.50	33.50	206.80	315.70	130.70	320.20	68.40	52.20	25.00	15.00	39.00	41.50		
17	40.00	34.00	197.20	210.00	78.60	342.70	54.60	46.00	24.00	15.00	39.00	39.50		
18	42.00	34.50	155.50	112.50	71.40	290.75	59.40	42.50	25.00	15.00	40.00	40.00		
19	34.50	37.50	106.90	96.60	68.40	301.30	55.20	36.00	24.50	15.00	40.00	40.50		
20	34.00	39.50	85.20	130.70	76.20	267.60	55.80	37.00	25.00	15.00	40.00	40.50		
21	37.00	38.50	76.80	166.00	63.00	189.20	72.00	34.50	24.50	14.00	40.00	41.00		
22	36.50	37.50	72.00	118.10	56.40	141.90	55.20	33.00	22.50	15.00	40.00	38.50		
23	35.00	37.50	98.40	130.70	55.20	118.80	51.60	29.00	20.50	16.50	40.00	41.50		
24	36.50	37.50	89.40	94.20	57.60	109.70	55.20	27.50	21.00	30.50	41.00	39.50		
25	37.50	36.00	73.80	83.40	54.60	99.60	52.20	25.50	36.50	35.00	41.00	39.00		
26	37.50	36.50	155.50	74.40	55.20	102.70	54.60	25.00	25.00	38.00	41.00	38.00		
27	37.50	37.00	95.40	67.20	78.00	88.20	51.60	25.00	25.00	35.50	40.50	39.50		
28	37.50	35.50	76.20	63.00	95.40	77.40	57.00	30.00	25.00	39.00	40.00	39.50		
29	39.50	37.00	66.60	99.00	93.00	79.20	108.30	30.00	25.00	38.50		38.50		
30	40.00	39.00	68.40	97.80	119.50	91.80	125.10	30.00	25.00	37.00		38.50		
31		37.00		162.25	202.80		104.10		25.00	35.00		38.50		
Total	1131.50	1101.00	2448.80	3403.15	3732.90	5229.25	2737.25	1160.80	832.00	749.50	1029.00	1241.00	24796.15	CMSDAY
Mean	37.72	35.52	81.63	109.78	120.42	174.31	88.30	38.69	26.84	24.18	36.75	40.03	67.93	CMS
Max	42.00	39.50	206.80	315.70	321.10	342.70	234.00	52.20	47.50	39.00	41.00	42.50	342.70	CMS
Min	33.50	31.50	33.50	60.00	54.60	77.40	51.60	25.00	20.50	14.00	33.00	38.00	14.00	CMS
Runoff	97.76	95.13	211.58	294.03	322.52	451.81	236.50	100.29	71.89	64.76	88.91	107.22	2142.39	MCM

Momentary Peak 372.40 CMS, at 7.46 m. (MSL.), at 12.00 Hours, on Aug 31, 2014

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

WATER YEAR : 2014

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

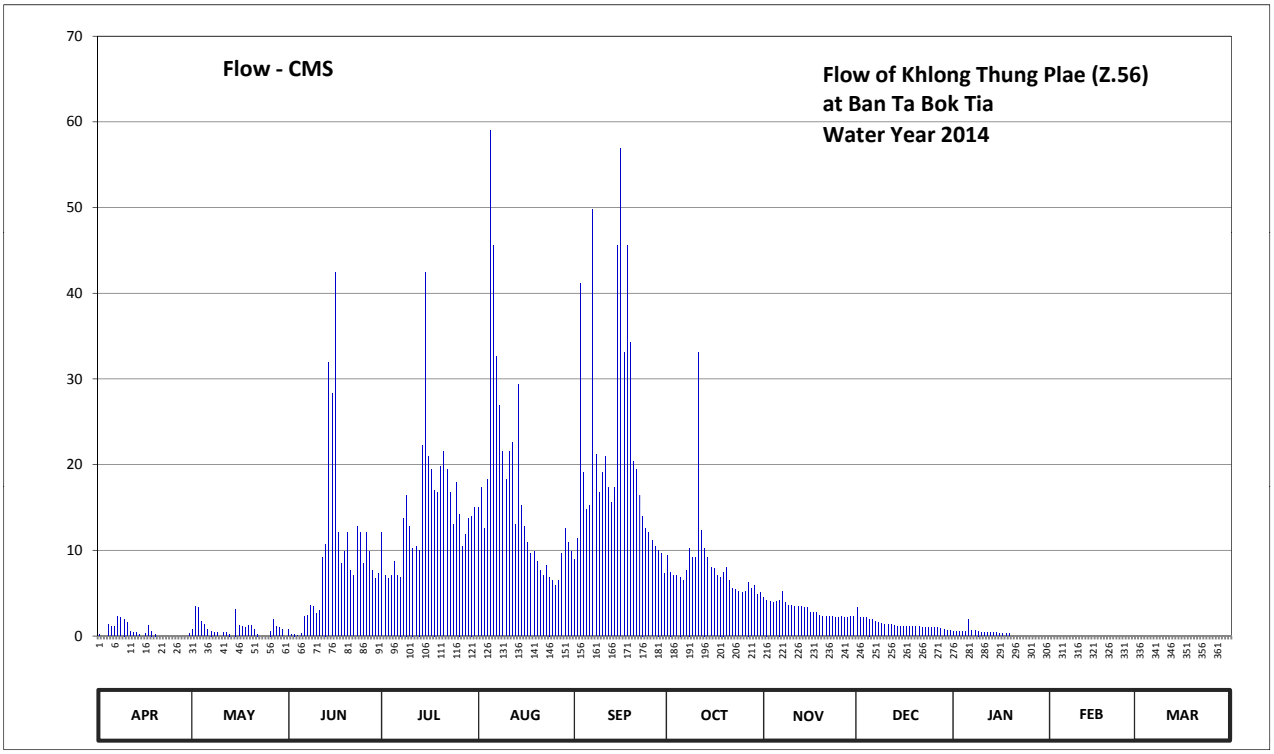
Location : on left bank at the bridge on highway.

	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	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	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.82	24.90	24.90	25.57	25.69	25.43	25.45	25.20	25.12	24.87	25.26	25.34	
2	24.77	25.13	24.82	25.34	25.77	25.54	25.36	25.18	25.03	24.87	25.44	25.40	
3	24.77	25.12	24.83	25.32	25.59	26.44	25.34	25.17	25.03	24.87	25.41	25.37	
4	24.96	24.99	24.81	25.34	25.80	25.83	25.34	25.16	25.03	24.87	25.36	25.37	
5	24.94	24.96	24.84	25.42	26.81	25.68	25.33	25.17	25.02	24.87	25.36	25.35	
6	24.94	24.90	25.04	25.34	26.54	25.70	25.31	25.18	25.01	25.01	25.36	25.34	
7	25.04	24.88	25.05	25.33	26.23	26.63	25.37	25.24	24.99	24.89	25.36	25.33	
8	25.03	24.86	25.14	25.64	26.07	25.90	25.49	25.16	24.98	24.89	25.34	25.33	
9	25.02	24.85	25.13	25.74	25.91	25.75	25.44	25.14	24.97	24.88	25.34	25.31	
10	24.98	24.80	25.07	25.60	25.80	25.83	25.44	25.14	24.96	24.86	25.34	25.31	
11	24.87	24.85	25.10	25.49	25.91	25.89	26.24	25.13	24.96	24.86	25.34	25.29	
12	24.85	24.85	25.44	25.50	25.94	25.77	25.58	25.13	24.96	24.86	25.34	25.28	
13	24.85	24.83	25.51	25.48	25.61	25.71	25.49	25.13	24.95	24.86	25.34	25.26	
14	24.82	24.80	26.21	25.93	26.14	25.77	25.44	25.12	24.94	24.85	25.35	25.24	
15	24.78	25.11	26.11	26.47	25.70	26.54	25.39	25.12	24.94	24.85	25.44	25.28	
16	24.84	24.95	26.47	25.89	25.60	26.77	25.38	25.08	24.94	24.84	25.33	25.27	
17	24.95	24.94	25.57	25.84	25.52	26.24	25.34	25.08	24.94	24.84	25.00	25.24	
18	24.88	24.93	25.41	25.76	25.46	26.54	25.33	25.08	24.94	24.84	24.92	25.24	
19	24.83	24.95	25.47	25.75	25.47	26.27	25.36	25.05	24.94	24.84	24.90	25.26	
20	24.76	24.95	25.57	25.85	25.42	25.87	25.39	25.04	24.94	24.84	25.07	25.24	
21	24.75	24.90	25.37	25.91	25.37	25.84	25.31	25.04	24.94	25.44	24.96	25.34	
22	24.75	24.83	25.34	25.84	25.34	25.74	25.26	25.04	24.93	25.44	24.95	25.28	
23	24.76	24.78	25.60	25.75	25.40	25.65	25.25	25.04	24.93	25.44	24.91	25.27	
24	24.76	24.77	25.57	25.61	25.33	25.59	25.24	25.03	24.93	25.44	24.87	25.24	
25	24.77	24.75	25.41	25.79	25.31	25.57	25.23	25.03	24.92	25.44	24.84	25.24	
26	24.77	24.88	25.57	25.66	25.28	25.53	25.24	25.04	24.92	25.44	24.84	25.24	
27	24.78	25.01	25.47	25.50	25.31	25.50	25.30	25.03	24.92	25.44	24.83	25.32	
28	24.78	24.94	25.37	25.56	25.46	25.48	25.26	25.03	24.91	25.44	24.83	25.37	
29	24.79	24.92	25.32	25.64	25.59	25.46	25.28	25.04	24.90	25.44		25.34	
30	24.84	24.90	25.35	25.65	25.52	25.35	25.22	25.04	24.89	25.42		25.34	
31		24.78		25.69	25.47		25.23		24.89	25.40		25.37	
Mean	24.85	24.90	25.36	25.65	25.69	25.86	25.38	25.10	24.96	25.07	25.17	25.30	
Max	25.04	25.13	26.47	26.47	26.81	26.77	26.24	25.24	25.12	25.44	25.44	25.40	26.81
Min	24.75	24.75	24.81	25.32	25.28	25.35	25.22	25.03	24.89	24.84	24.83	25.24	24.75

Annual Max Momentary Gage Height	28.74	m. (MSL.) ,	at 18.00 Hours, on Aug 5, 2014		
Zero Gage at Bottom Elevation	24.74	m. (MSL.) ,	River Bed	24.93	m. (MSL.)
Left Bank Elevation	32.41	m. (MSL.) ,			
Right Bank Elevation	32.34	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.75	0.75	12.07	15.00	8.93	9.38	4.50	3.30	0.53	0.00	0.00		
2	0.00	3.45	0.15	7.08	17.35	11.40	7.47	4.20	2.13	0.53	0.00	0.00		
3	0.00	3.30	0.23	6.69	12.52	41.20	7.08	4.05	2.13	0.53	0.00	0.00		
4	1.35	1.65	0.08	7.08	18.25	19.15	7.08	3.90	2.13	0.53	0.00	0.00		
5	1.15	1.35	0.30	8.70	59.05	14.75	6.89	4.05	2.00	0.53	0.00	0.00		
6	1.15	0.75	2.25	7.08	45.55	15.25	6.50	4.20	1.88	1.88	0.00	0.00		
7	2.25	0.60	2.37	6.89	32.70	49.75	7.67	5.22	1.65	0.67	0.00	0.00		
8	2.13	0.45	3.60	13.75	26.95	21.25	10.27	3.90	1.55	0.67	0.00	0.00		
9	2.00	0.38	3.45	16.45	21.58	16.75	9.15	3.60	1.45	0.60	0.00	0.00		
10	1.55	0.00	2.62	12.75	18.25	19.15	9.15	3.60	1.35	0.45	0.00	0.00		
11	0.53	0.38	3.00	10.27	21.58	20.95	33.10	3.45	1.35	0.45	0.00	0.00		
12	0.38	0.38	9.15	10.50	22.55	17.35	12.30	3.45	1.35	0.45	0.00	0.00		
13	0.38	0.23	10.73	10.05	13.00	15.55	10.27	3.45	1.25	0.45	0.00	0.00		
14	0.15	0.00	31.90	22.23	29.40	17.35	9.15	3.30	1.15	0.38	0.00	0.00		
15	0.00	3.15	28.35	42.47	15.25	45.55	8.05	3.30	1.15	0.38	0.00	0.00		
16	0.30	1.25	42.47	20.95	12.75	56.93	7.86	2.75	1.15	0.30	0.00	0.00		
17	1.25	1.15	12.07	19.45	10.95	33.10	7.08	2.75	1.15	0.30	0.00	0.00		
18	0.60	1.05	8.48	17.05	9.60	45.55	6.89	2.75	1.15	0.30	0.00	0.00		
19	0.23	1.25	9.82	16.75	9.82	34.30	7.47	2.37	1.15	0.30	0.00	0.00		
20	0.00	1.25	12.07	19.75	8.70	20.35	8.05	2.25	1.15	0.00	0.00	0.00		
21	0.00	0.75	7.67	21.58	7.67	19.45	6.50	2.25	1.15	0.00	0.00	0.00		
22	0.00	0.23	7.08	19.45	7.08	16.45	5.58	2.25	1.05	0.00	0.00	0.00		
23	0.00	0.00	12.75	16.75	8.25	14.00	5.40	2.25	1.05	0.00	0.00	0.00		
24	0.00	0.00	12.07	13.00	6.89	12.52	5.22	2.13	1.05	0.00	0.00	0.00		
25	0.00	0.00	8.48	17.95	6.50	12.07	5.04	2.13	0.95	0.00	0.00	0.00		
26	0.00	0.60	12.07	14.25	5.94	11.18	5.22	2.25	0.95	0.00	0.00	0.00		
27	0.00	1.88	9.82	10.50	6.50	10.50	6.30	2.13	0.95	0.00	0.00	0.00		
28	0.00	1.15	7.67	11.85	9.60	10.05	5.58	2.13	0.85	0.00	0.00	0.00		
29	0.00	0.95	6.69	13.75	12.52	9.60	5.94	2.25	0.75	0.00		0.00		
30	0.30	0.75	7.28	14.00	10.95	7.28	4.86	2.25	0.67	0.00		0.00		
31		0.00		15.00	9.82		5.04		0.67	0.00		0.00		
Total	15.85	29.08	275.42	456.09	512.52	647.66	251.54	93.06	41.66	10.23	0.00	0.00	2333.11	CMSDAY
Mean	0.53	0.94	9.18	14.71	16.53	21.59	8.11	3.10	1.34	0.33	0.00	0.00	6.39	CMS
Max	2.25	3.45	42.47	42.47	59.05	56.93	33.10	5.22	3.30	1.88	0.00	0.00	59.05	CMS
Min	0.00	0.00	0.08	6.69	5.94	7.28	4.86	2.13	0.67	0.00	0.00	0.00	0.00	CMS
Runoff	1.37	2.51	23.80	39.41	44.28	55.96	21.73	8.04	3.60	0.88	0.00	0.00	201.58	MCM

Momentary Peak 194.95 CMS, at 28.74 m. (MSL.), at 18.00 Hours, on Aug 5, 2014

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

WATER YEAR : 2014

EAST COAST - GULF BASIN

Khlong Nak at Ban Bo Rai , Trat (Z.59)

Lat 12 - 21 - 45 N Long 102 - 32 - 38 E

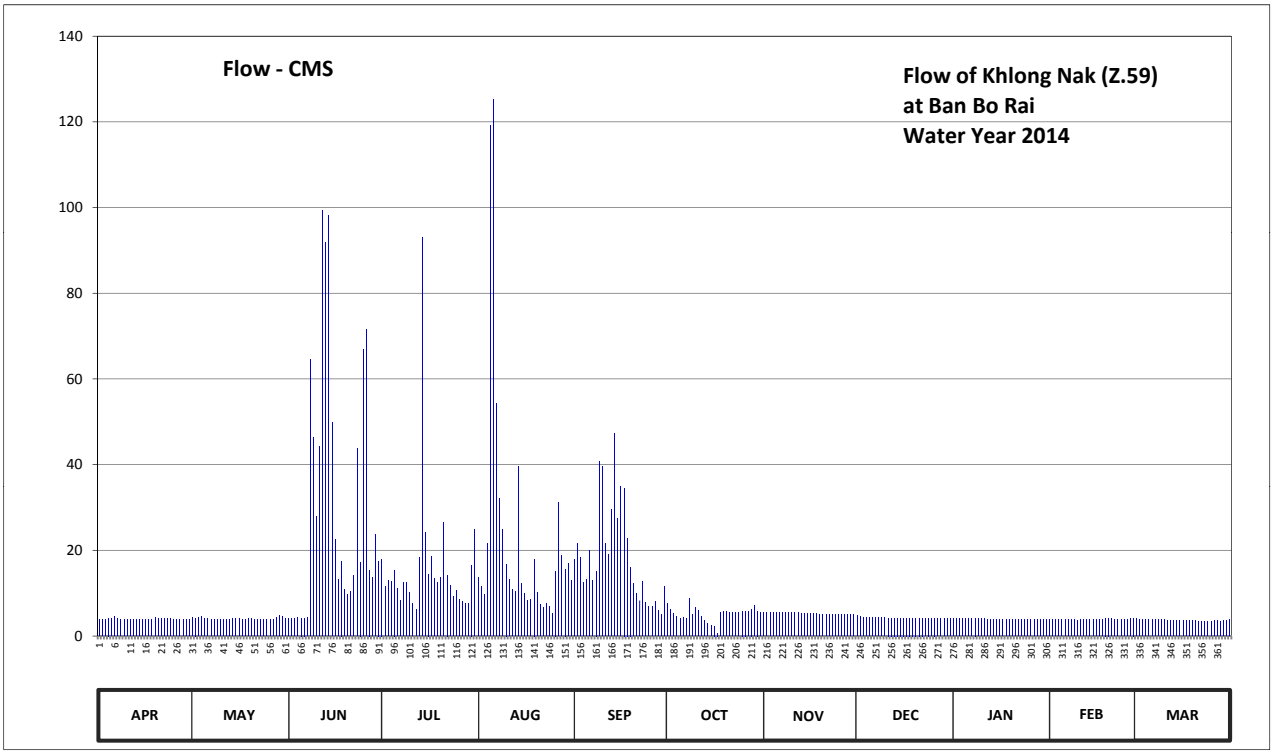
Location : on left bank at the bridge on highway.

	Ban Bo Rai	**Amphoe** Bo Rai	**Changwat** Trat
Drainge Area	- sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+16.570 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +25.570 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +25.290 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.85	21.89	21.87	20.65	20.46	20.64	20.20	21.97	21.92	21.87	21.85	21.87	
2	21.85	21.88	21.87	20.37	20.37	20.76	20.14	21.97	21.90	21.87	21.85	21.86	
3	21.86	21.89	21.87	20.43	20.29	20.66	20.10	21.96	21.89	21.87	21.85	21.86	
4	21.88	21.90	21.89	20.42	20.76	20.41	20.06	21.96	21.89	21.87	21.85	21.85	
5	21.87	21.87	21.88	20.54	22.77	20.44	20.04	21.96	21.89	21.87	21.85	21.85	
6	21.90	21.87	21.88	20.35	22.87	20.72	20.05	21.96	21.89	21.87	21.85	21.85	
7	21.87	21.86	21.89	20.23	21.53	20.43	20.04	21.96	21.89	21.87	21.85	21.85	
8	21.86	21.86	21.76	20.41	21.01	20.53	20.25	21.96	21.89	21.88	21.85	21.85	
9	21.86	21.86	21.35	20.41	20.84	21.22	20.09	21.96	21.89	21.87	21.85	21.85	
10	21.85	21.86	20.91	20.31	20.60	21.19	20.16	21.96	21.89	21.87	21.84	21.85	
11	21.85	21.85	21.30	20.20	20.44	20.76	20.13	21.96	21.88	21.87	21.85	21.84	
12	21.85	21.85	22.43	20.14	20.34	20.69	20.06	21.96	21.88	21.86	21.85	21.84	
13	21.85	21.85	22.30	20.66	20.32	20.95	20.02	21.95	21.88	21.86	21.85	21.84	
14	21.85	21.87	22.41	22.32	21.19	21.37	19.99	21.95	21.88	21.86	21.85	21.84	
15	21.85	21.87	21.43	20.82	20.40	20.90	19.96	21.95	21.88	21.86	21.85	21.84	
16	21.85	21.87	20.78	20.50	20.30	21.08	19.95	21.95	21.88	21.86	21.86	21.84	
17	21.85	21.86	20.44	20.67	20.23	21.07	20.51	21.95	21.88	21.86	21.85	21.84	
18	21.86	21.85	20.63	20.45	20.24	20.79	21.97	21.95	21.88	21.86	21.85	21.84	
19	21.89	21.87	20.34	20.41	20.65	20.57	21.98	21.94	21.88	21.86	21.88	21.84	
20	21.87	21.87	20.29	20.46	20.31	20.40	21.98	21.94	21.88	21.86	21.88	21.84	
21	21.87	21.86	20.32	20.88	20.19	20.30	21.97	21.94	21.88	21.86	21.87	21.83	
22	21.87	21.86	20.48	20.49	20.16	20.23	21.97	21.94	21.88	21.86	21.86	21.83	
23	21.87	21.85	21.29	20.38	20.20	20.42	21.97	21.94	21.87	21.86	21.86	21.83	
24	21.87	21.85	20.62	20.27	20.17	20.21	21.96	21.94	21.88	21.86	21.85	21.83	
25	21.86	21.85	21.81	20.33	20.10	20.17	21.99	21.94	21.87	21.86	21.85	21.83	
26	21.86	21.85	21.91	20.24	20.53	20.17	21.99	21.94	21.88	21.86	21.85	21.84	
27	21.86	21.86	20.54	20.22	20.99	20.22	21.98	21.94	21.87	21.86	21.87	21.84	
28	21.85	21.89	20.46	20.20	20.68	20.13	22.01	21.94	21.87	21.86	21.88	21.83	
29	21.85	21.92	20.81	20.20	20.55	20.09	22.04	21.94	21.87	21.86		21.84	
30	21.85	21.90	20.63	20.59	20.61	20.37	21.99	21.94	21.87	21.86		21.84	
31		21.87		20.84	20.43		21.97		21.87	21.86		21.85	
Mean	21.86	21.87	21.28	20.50	20.66	20.60	20.95	21.95	21.88	21.86	21.86	21.84	
Max	21.90	21.92	22.43	22.32	22.87	21.37	22.04	21.97	21.92	21.88	21.88	21.87	22.87
Min	21.85	21.85	20.29	20.14	20.10	20.09	19.95	21.94	21.87	21.86	21.84	21.83	19.95

Annual Max Momentary Gage Height	25.67	m. (MSL.) ,	at 20.00 Hours, on Aug 5, 2014		
Zero Gage at Bottom Elevation	16.57	m. (MSL.) ,	River Bed	16.45	m. (MSL.)
Left Bank Elevation	25.30	m. (MSL.) ,			
Right Bank Elevation	25.29	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.75	4.35	4.05	18.00	13.58	17.76	7.60	5.55	4.80	4.05	3.75	4.05		
2	3.75	4.20	4.05	11.51	11.51	21.66	6.22	5.55	4.50	4.05	3.75	3.90		
3	3.90	4.35	4.05	12.89	9.67	18.24	5.30	5.40	4.35	4.05	3.75	3.90		
4	4.20	4.50	4.35	12.66	21.66	12.43	4.46	5.40	4.35	4.05	3.75	3.75		
5	4.05	4.05	4.20	15.42	119.20	13.12	4.04	5.40	4.35	4.05	3.75	3.75		
6	4.50	4.05	4.20	11.05	125.20	20.02	4.25	5.40	4.35	4.05	3.75	3.75		
7	4.05	3.90	4.35	8.29	54.35	12.89	4.04	5.40	4.35	4.05	3.75	3.75		
8	3.90	3.90	64.70	12.43	32.02	15.19	8.75	5.40	4.35	4.20	3.75	3.75		
9	3.90	3.90	46.45	12.43	24.94	40.86	5.09	5.40	4.35	4.05	3.75	3.75		
10	3.75	3.90	27.82	10.13	16.80	39.58	6.68	5.40	4.35	4.05	3.60	3.75		
11	3.75	3.75	44.30	7.60	13.12	21.66	5.99	5.40	4.20	4.05	3.75	3.60		
12	3.75	3.75	99.28	6.22	10.82	18.96	4.46	5.40	4.20	3.90	3.75	3.60		
13	3.75	3.75	92.00	18.24	10.36	29.50	3.62	5.25	4.20	3.90	3.75	3.60		
14	3.75	4.05	98.16	93.12	39.58	47.31	3.03	5.25	4.20	3.90	3.75	3.60		
15	3.75	4.05	49.92	24.12	12.20	27.40	2.52	5.25	4.20	3.90	3.75	3.60		
16	3.75	4.05	22.48	14.50	9.90	34.96	2.35	5.25	4.20	3.90	3.90	3.60		
17	3.75	3.90	13.12	18.48	8.29	34.54	0.71	5.25	4.20	3.90	3.75	3.60		
18	3.90	3.75	17.52	13.35	8.52	22.89	5.55	5.25	4.20	3.90	3.75	3.60		
19	4.35	4.05	10.82	12.43	18.00	16.11	5.70	5.10	4.20	3.90	4.20	3.60		
20	4.05	4.05	9.67	13.58	10.13	12.20	5.70	5.10	4.20	3.90	4.20	3.60		
21	4.05	3.90	10.36	26.58	7.37	9.90	5.55	5.10	4.20	3.90	4.05	3.45		
22	4.05	3.90	14.04	14.27	6.68	8.29	5.55	5.10	4.20	3.90	3.90	3.45		
23	4.05	3.75	43.87	11.74	7.60	12.66	5.55	5.10	4.05	3.90	3.90	3.45		
24	4.05	3.75	17.28	9.21	6.91	7.83	5.40	5.10	4.20	3.90	3.75	3.45		
25	3.90	3.75	66.95	10.59	5.30	6.91	5.85	5.10	4.05	3.90	3.75	3.45		
26	3.90	3.75	71.50	8.52	15.19	6.91	5.85	5.10	4.20	3.90	3.75	3.60		
27	3.90	3.90	15.42	8.06	31.18	8.06	5.70	5.10	4.05	3.90	4.05	3.60		
28	3.75	4.35	13.58	7.60	18.72	5.99	6.30	5.10	4.05	3.90	4.20	3.45		
29	3.75	4.80	23.71	7.60	15.65	5.09	7.20	5.10	4.05	3.90		3.60		
30	3.75	4.50	17.52	16.57	17.04	11.51	5.85	5.10	4.05	3.90		3.60		
31		4.05		24.94	12.89		5.55		4.05	3.90		3.75		
Total	117.45	124.65	919.72	492.13	714.38	560.43	160.41	157.80	131.25	122.70	107.25	112.95	3721.12	CMSDAY
Mean	3.92	4.02	30.66	15.88	23.04	18.68	5.17	5.26	4.23	3.96	3.83	3.64	10.19	CMS
Max	4.50	4.80	99.28	93.12	125.20	47.31	8.75	5.55	4.80	4.20	4.20	4.05	125.20	CMS
Min	3.75	3.75	4.05	6.22	5.30	5.09	0.71	5.10	4.05	3.90	3.60	3.45	0.71	CMS
Runoff	10.15	10.77	79.46	42.52	61.72	48.42	13.86	13.63	11.34	10.60	9.27	9.76	321.51	MCM

Momentary Peak 339.88 CMS, at 25.67 m. (MSL.), at 20.00 Hours, on Aug 5, 2014

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

WATER YEAR : 2014

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

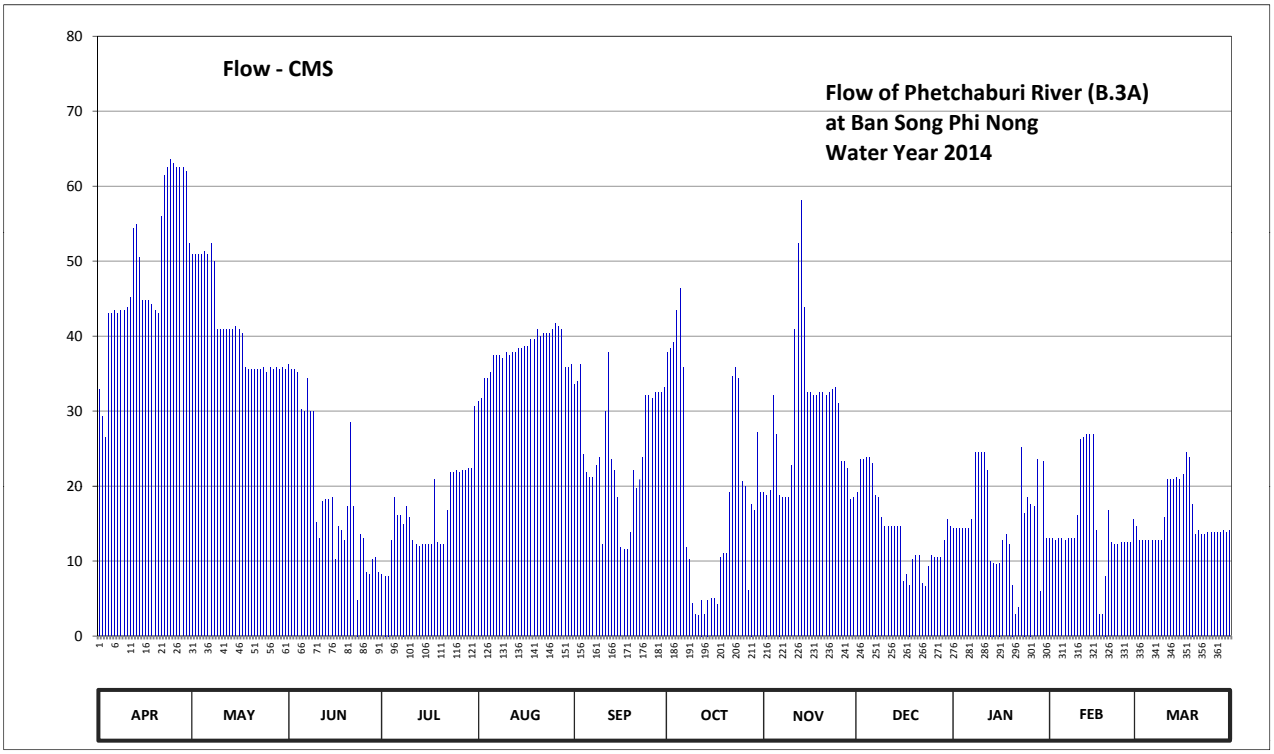
Location : on left bank at Ban Song Phi Nong.

	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	+40.998 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 24 meters from the top staff gage.	**Elevation**	+50.534 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic 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 Flot	-		
Rated by Current Meter	1954 - 1959 , 1968 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Kaeng Krachan Reservoir.		
	Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.65	43.08	42.74	41.83	42.61	42.67	42.78	42.23	42.23	42.07	42.02	42.08	
2	42.55	43.08	42.72	41.82	42.62	42.68	42.79	42.22	42.38	42.07	42.02	42.01	
3	42.47	43.08	42.72	41.82	42.69	42.74	42.81	42.24	42.38	42.07	42.01	42.01	
4	42.90	43.08	42.71	42.01	42.69	42.40	42.91	42.63	42.39	42.07	42.02	42.01	
5	42.90	43.09	42.58	42.21	42.71	42.32	42.98	42.48	42.39	42.07	42.02	42.01	
6	42.91	43.08	42.57	42.13	42.77	42.30	42.73	42.22	42.36	42.07	42.01	42.01	
7	42.90	43.11	42.69	42.13	42.77	42.30	41.97	42.21	42.22	42.11	42.02	42.01	
8	42.91	43.06	42.57	42.09	42.77	42.35	41.91	42.21	42.21	42.41	42.02	42.01	
9	42.91	42.85	42.57	42.17	42.76	42.39	41.66	42.21	42.12	42.41	42.02	42.01	
10	42.92	42.85	42.10	42.12	42.78	41.99	41.58	42.35	42.08	42.41	42.13	42.12	
11	42.95	42.85	42.02	42.01	42.77	42.57	41.57	42.85	42.08	42.41	42.46	42.29	
12	43.15	42.85	42.19	41.99	42.78	42.78	41.68	43.11	42.08	42.33	42.47	42.29	
13	43.16	42.85	42.20	41.98	42.78	42.38	41.58	43.22	42.08	41.90	42.48	42.29	
14	43.07	42.85	42.20	41.99	42.79	42.33	41.68	42.92	42.08	41.89	42.48	42.30	
15	42.94	42.86	42.21	41.99	42.79	42.21	41.69	42.64	42.08	41.88	42.48	42.29	
16	42.94	42.85	41.91	41.99	42.80	41.97	41.69	42.64	41.79	41.89	42.06	42.31	
17	42.94	42.84	42.08	41.99	42.80	41.96	41.65	42.63	41.83	42.01	41.58	42.41	
18	42.93	42.73	42.06	42.29	42.82	41.96	41.92	42.63	41.77	42.04	41.58	42.39	
19	42.91	42.72	42.01	42.00	42.82	42.05	41.94	42.64	41.91	41.99	41.82	42.18	
20	42.90	42.72	42.17	41.99	42.85	42.33	41.94	42.64	41.93	41.77	42.15	42.04	
21	43.18	42.72	42.53	41.99	42.83	42.25	42.23	42.63	41.93	41.58	42.00	42.06	
22	43.28	42.72	42.17	42.15	42.84	42.29	42.70	42.64	41.78	41.63	41.99	42.04	
23	43.30	42.72	41.68	42.32	42.84	42.39	42.73	42.65	41.76	42.43	41.99	42.04	
24	43.32	42.73	42.04	42.32	42.84	42.63	42.69	42.66	41.87	42.14	42.00	42.05	
25	43.31	42.71	42.02	42.33	42.85	42.63	42.28	42.60	41.93	42.21	42.00	42.05	
26	43.30	42.73	41.84	42.32	42.87	42.62	42.26	42.37	41.92	42.18	42.00	42.05	
27	43.30	42.72	41.83	42.33	42.86	42.64	41.74	42.37	41.92	42.17	42.00	42.05	
28	43.30	42.73	41.91	42.33	42.85	42.64	42.18	42.34	41.92	42.38	42.11	42.05	
29	43.29	42.72	41.92	42.34	42.73	42.64	42.15	42.20	42.01	41.73		42.06	
30	43.11	42.73	41.84	42.34	42.73	42.66	42.49	42.21	42.11	42.37		42.05	
31		42.72		42.59	42.74		42.23		42.08	42.02		42.06	
Mean	43.02	42.85	42.23	42.13	42.78	42.40	42.17	42.52	42.05	42.09	42.07	42.12	
Max	43.32	43.11	42.74	42.59	42.87	42.78	42.98	43.22	42.39	42.43	42.48	42.41	43.32
Min	42.47	42.71	41.68	41.82	42.61	41.96	41.57	42.20	41.76	41.58	41.58	42.01	41.57

Annual Max Momentary Gage Height	43.40	m. (MSL.) ,	at 18.00 Hours , on Apr 24 , 2014		
Zero Gage at Bottom Elevation	41.00	m. (MSL.) ,	River Bed	40.83	m. (MSL.)
Left Bank Elevation	48.87	m. (MSL.) ,			
Right Bank Elevation	48.84	m. (MSL.) ,	Drainage Area	2220	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	32.85	50.90	36.30	8.25	31.37	33.59	37.90	19.10	19.10	14.39	13.04	14.66		
2	29.25	50.90	35.50	8.00	31.74	33.96	38.30	18.80	23.60	14.39	13.04	12.77		
3	26.51	50.90	35.50	8.00	34.33	36.30	39.13	19.40	23.60	14.39	12.77	12.77		
4	43.00	50.90	35.10	12.77	34.33	24.20	43.43	32.11	23.90	14.39	13.04	12.77		
5	43.00	51.35	30.30	18.50	35.10	21.80	46.44	26.84	23.90	14.39	13.04	12.77		
6	43.43	50.90	29.95	16.10	37.50	21.20	35.90	18.80	23.00	14.39	12.77	12.77		
7	43.00	52.32	34.33	16.10	37.50	21.20	11.75	18.50	18.80	15.50	13.04	12.77		
8	43.43	50.00	29.95	14.93	37.50	22.70	10.25	18.50	18.50	24.53	13.04	12.77		
9	43.43	40.85	29.95	17.30	37.10	23.90	4.40	18.50	15.80	24.53	13.04	12.77		
10	43.86	40.85	15.20	15.80	37.90	12.25	2.86	22.70	14.66	24.53	16.10	15.80		
11	45.15	40.85	13.04	12.77	37.50	29.95	2.69	40.85	14.66	24.53	26.18	20.90		
12	54.40	40.85	17.90	12.25	37.90	37.90	4.80	52.32	14.66	22.10	26.51	20.90		
13	54.92	40.85	18.20	12.00	37.90	23.60	2.86	58.10	14.66	10.00	26.84	20.90		
14	50.45	40.85	18.20	12.25	38.30	22.10	4.80	43.86	14.66	9.75	26.84	21.20		
15	44.72	41.28	18.50	12.25	38.30	18.50	5.00	32.48	14.66	9.50	26.84	20.90		
16	44.72	40.85	10.25	12.25	38.70	11.75	5.00	32.48	7.27	9.75	14.12	21.50		
17	44.72	40.42	14.66	12.25	38.70	11.50	4.20	32.11	8.25	12.77	2.86	24.53		
18	44.29	35.90	14.12	20.90	39.56	11.50	10.50	32.11	6.81	13.58	2.86	23.90		
19	43.43	35.50	12.77	12.50	39.56	13.85	11.00	32.48	10.25	12.25	8.00	17.60		
20	43.00	35.50	17.30	12.25	40.85	22.10	11.00	32.48	10.75	6.81	16.70	13.58		
21	55.96	35.50	28.55	12.25	39.99	19.70	19.10	32.11	10.75	2.86	12.50	14.12		
22	61.40	35.50	17.30	16.70	40.42	20.90	34.70	32.48	7.04	3.80	12.25	13.58		
23	62.50	35.50	4.80	21.80	40.42	23.90	35.90	32.85	6.58	25.19	12.25	13.58		
24	63.60	35.90	13.58	21.80	40.42	32.11	34.33	33.22	9.25	16.40	12.50	13.85		
25	63.05	35.10	13.04	22.10	40.85	32.11	20.60	31.00	10.75	18.50	12.50	13.85		
26	62.50	35.90	8.50	21.80	41.71	31.74	20.00	23.30	10.50	17.60	12.50	13.85		
27	62.50	35.50	8.25	22.10	41.28	32.48	6.12	23.30	10.50	17.30	12.50	13.85		
28	62.50	35.90	10.25	22.10	40.85	32.48	17.60	22.40	10.50	23.60	15.50	13.85		
29	61.95	35.50	10.50	22.40	35.90	32.48	16.70	18.20	12.77	5.89		14.12		
30	52.32	35.90	8.50	22.40	35.90	33.22	27.17	18.50	15.50	23.30		13.85		
31		35.50		30.65	36.30		19.10		14.66	13.04		14.12		
Total	1469.84	1274.42	590.29	503.52	1175.68	744.97	583.53	869.88	440.29	473.95	413.17	491.15	9030.69	CMSDAY
Mean	48.99	41.11	19.68	16.24	37.93	24.83	18.82	29.00	14.20	15.29	14.76	15.84	24.74	CMS
Max	63.60	52.32	36.30	30.65	41.71	37.90	46.44	58.10	23.90	25.19	26.84	24.53	63.60	CMS
Min	26.51	35.10	4.80	8.00	31.37	11.50	2.69	18.20	6.58	2.86	2.86	12.77	2.69	CMS
Runoff	126.99	110.11	51.00	43.50	101.58	64.37	50.42	75.16	38.04	40.95	35.70	42.44	780.25	MCM

Momentary Peak 68.00 CMS. at 43.40 m. (MSL.) at 18.00 Hours , on Apr 24 , 2014

Runoff Yield 11.14 Liters/Second/Square KM. Momentary Peak Yield 30.631 Liters/Second/Square KM.

WATER YEAR : 2014

PHETCHABURI RIVER BASIN

Huai Phak at Ban Prong Khae , Phetchaburi (B.8A)

Lat 12 - 48 - 50 N Long 99 - 42 - 16 E

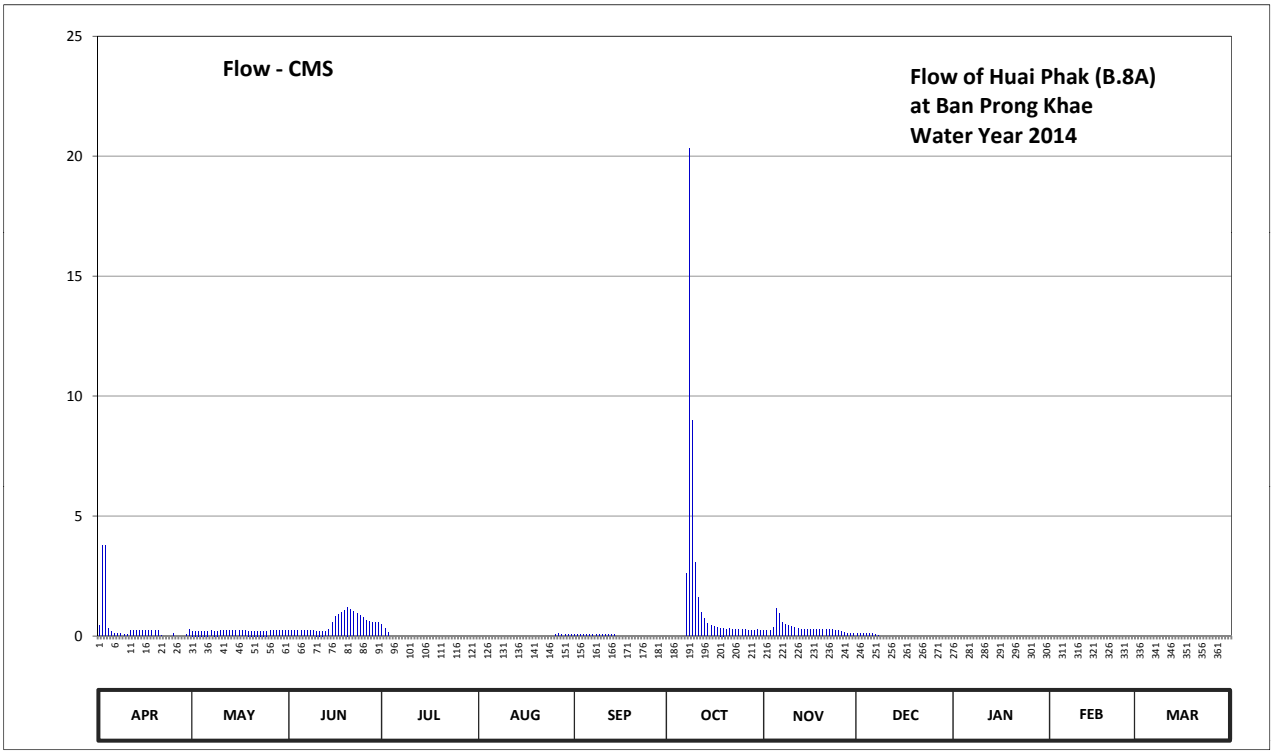
Location : on left bank at Ban Prong Khae.

	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** +47.485 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 Flot	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.74	39.67	39.68	39.75	39.53	39.62	39.58	39.68	39.63	39.48	39.53	39.53	
2	40.31	39.67	39.68	39.70	39.53	39.62	39.58	39.68	39.63	39.53	39.53	39.53	
3	40.31	39.67	39.68	39.65	39.53	39.62	39.58	39.68	39.63	39.56	39.53	39.53	
4	39.70	39.67	39.68	39.60	39.53	39.62	39.58	39.72	39.63	39.51	39.53	39.53	
5	39.66	39.67	39.68	39.55	39.53	39.62	39.58	39.92	39.63	39.55	39.53	39.53	
6	39.63	39.67	39.68	39.53	39.53	39.62	39.58	39.87	39.63	39.54	39.53	39.53	
7	39.63	39.68	39.68	39.53	39.53	39.62	40.16	39.78	39.62	39.51	39.53	39.53	
8	39.63	39.67	39.68	39.53	39.53	39.62	41.47	39.75	39.61	39.53	39.53	39.53	
9	39.62	39.67	39.68	39.53	39.53	39.62	40.80	39.74	39.60	39.54	39.53	39.53	
10	39.62	39.68	39.67	39.53	39.53	39.62	40.22	39.73	39.59	39.56	39.53	39.53	
11	39.68	39.68	39.67	39.53	39.53	39.62	40.00	39.72	39.58	39.56	39.53	39.53	
12	39.68	39.68	39.67	39.53	39.53	39.62	39.88	39.70	39.58	39.56	39.53	39.53	
13	39.68	39.68	39.66	39.53	39.53	39.62	39.82	39.69	39.57	39.56	39.53	39.53	
14	39.68	39.68	39.69	39.53	39.53	39.62	39.76	39.69	39.55	39.55	39.53	39.53	
15	39.68	39.68	39.78	39.53	39.53	39.59	39.74	39.69	39.56	39.53	39.53	39.53	
16	39.68	39.68	39.84	39.53	39.53	39.58	39.73	39.69	39.56	39.53	39.53	39.53	
17	39.68	39.68	39.86	39.53	39.53	39.58	39.72	39.69	39.55	39.53	39.53	39.53	
18	39.68	39.68	39.88	39.53	39.53	39.58	39.71	39.69	39.54	39.53	39.53	39.53	
19	39.68	39.67	39.90	39.53	39.53	39.58	39.71	39.69	39.54	39.53	39.53	39.53	
20	39.68	39.67	39.93	39.53	39.53	39.58	39.69	39.69	39.54	39.53	39.53	39.53	
21	39.61	39.67	39.91	39.53	39.53	39.58	39.70	39.69	39.52	39.53	39.53	39.53	
22	39.60	39.67	39.89	39.53	39.53	39.58	39.69	39.69	39.52	39.53	39.53	39.53	
23	39.57	39.67	39.87	39.53	39.53	39.58	39.69	39.69	39.50	39.53	39.53	39.53	
24	39.57	39.67	39.85	39.53	39.53	39.58	39.69	39.68	39.43	39.53	39.53	39.53	
25	39.63	39.67	39.83	39.53	39.53	39.58	39.69	39.68	39.49	39.53	39.53	39.53	
26	39.58	39.68	39.80	39.53	39.62	39.58	39.69	39.66	39.50	39.53	39.53	39.53	
27	39.56	39.68	39.79	39.53	39.63	39.58	39.68	39.65	39.42	39.53	39.53	39.53	
28	39.58	39.68	39.77	39.53	39.62	39.58	39.68	39.64	39.40	39.53	39.53	39.53	
29	39.62	39.68	39.77	39.53	39.62	39.58	39.68	39.63	39.47	39.53		39.53	
30	39.69	39.68	39.77	39.53	39.62	39.58	39.69	39.63	39.47	39.53		39.53	
31		39.68		39.53	39.62		39.68		39.46	39.53		39.53	
Mean	39.69	39.68	39.76	39.55	39.55	39.60	39.82	39.70	39.55	39.53	39.53	39.53	
Max	40.31	39.68	39.93	39.75	39.63	39.62	41.47	39.92	39.63	39.56	39.53	39.53	41.47
Min	39.56	39.67	39.66	39.53	39.53	39.58	39.58	39.63	39.40	39.48	39.53	39.53	39.40

Annual Max Momentary Gage Height	42.01	m. (MSL.) ,	at 02.00 Hours , on Oct 8 , 2014		
Zero Gage at Bottom Elevation	39.18	m. (MSL.) ,	River Bed	39.53	m. (MSL.)
Left Bank Elevation	45.12	m. (MSL.) ,			
Right Bank Elevation	44.23	m. (MSL.) ,	Drainage Area	301	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.44	0.21	0.24	0.48	0.00	0.06	0.00	0.24	0.09	0.00	0.00	0.00		
2	3.79	0.21	0.24	0.30	0.00	0.06	0.00	0.24	0.09	0.00	0.00	0.00		
3	3.79	0.21	0.24	0.15	0.00	0.06	0.00	0.24	0.09	0.00	0.00	0.00		
4	0.30	0.21	0.24	0.00	0.00	0.06	0.00	0.37	0.09	0.00	0.00	0.00		
5	0.18	0.21	0.24	0.00	0.00	0.06	0.00	1.16	0.09	0.00	0.00	0.00		
6	0.09	0.21	0.24	0.00	0.00	0.06	0.00	0.93	0.09	0.00	0.00	0.00		
7	0.09	0.24	0.24	0.00	0.00	0.06	2.62	0.58	0.06	0.00	0.00	0.00		
8	0.09	0.21	0.24	0.00	0.00	0.06	20.31	0.48	0.03	0.00	0.00	0.00		
9	0.06	0.21	0.24	0.00	0.00	0.06	9.00	0.44	0.00	0.00	0.00	0.00		
10	0.06	0.24	0.21	0.00	0.00	0.06	3.06	0.40	0.00	0.00	0.00	0.00		
11	0.24	0.24	0.21	0.00	0.00	0.06	1.60	0.37	0.00	0.00	0.00	0.00		
12	0.24	0.24	0.21	0.00	0.00	0.06	0.97	0.30	0.00	0.00	0.00	0.00		
13	0.24	0.24	0.18	0.00	0.00	0.06	0.73	0.27	0.00	0.00	0.00	0.00		
14	0.24	0.24	0.27	0.00	0.00	0.06	0.51	0.27	0.00	0.00	0.00	0.00		
15	0.24	0.24	0.58	0.00	0.00	0.00	0.44	0.27	0.00	0.00	0.00	0.00		
16	0.24	0.24	0.81	0.00	0.00	0.00	0.40	0.27	0.00	0.00	0.00	0.00		
17	0.24	0.24	0.89	0.00	0.00	0.00	0.37	0.27	0.00	0.00	0.00	0.00		
18	0.24	0.24	0.97	0.00	0.00	0.00	0.33	0.27	0.00	0.00	0.00	0.00		
19	0.24	0.21	1.05	0.00	0.00	0.00	0.33	0.27	0.00	0.00	0.00	0.00		
20	0.24	0.21	1.21	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.00	0.00		
21	0.03	0.21	1.10	0.00	0.00	0.00	0.30	0.27	0.00	0.00	0.00	0.00		
22	0.00	0.21	1.01	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.00	0.00		
23	0.00	0.21	0.93	0.00	0.00	0.00	0.27	0.27	0.00	0.00	0.00	0.00		
24	0.00	0.21	0.85	0.00	0.00	0.00	0.27	0.24	0.00	0.00	0.00	0.00		
25	0.09	0.21	0.77	0.00	0.00	0.00	0.27	0.24	0.00	0.00	0.00	0.00		
26	0.00	0.24	0.65	0.00	0.06	0.00	0.27	0.18	0.00	0.00	0.00	0.00		
27	0.00	0.24	0.62	0.00	0.09	0.00	0.24	0.15	0.00	0.00	0.00	0.00		
28	0.00	0.24	0.55	0.00	0.06	0.00	0.24	0.12	0.00	0.00	0.00	0.00		
29	0.06	0.24	0.55	0.00	0.06	0.00	0.24	0.09	0.00	0.00		0.00		
30	0.27	0.24	0.55	0.00	0.06	0.00	0.27	0.09	0.00	0.00		0.00		
31		0.24		0.00	0.06		0.24		0.00	0.00		0.00		
Total	11.74	6.99	16.33	0.93	0.39	0.84	43.82	9.83	0.63	0.00	0.00	0.00	91.50	CMSDAY
Mean	0.39	0.23	0.54	0.03	0.01	0.03	1.41	0.33	0.02	0.00	0.00	0.00	0.25	CMS
Max	3.79	0.24	1.21	0.48	0.09	0.06	20.31	1.16	0.09	0.00	0.00	0.00	20.31	CMS
Min	0.00	0.21	0.18	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.01	0.60	1.41	0.08	0.03	0.07	3.79	0.85	0.05	0.00	0.00	0.00	7.91	MCM

Momentary Peak 39.14 CMS. at 42.01 m. (MSL.) at 02.00 Hours , on Oct 8 , 2014

Runoff Yield 0.83 Liters/Second/Square KM. Momentary Peak Yield 130.033 Liters/Second/Square KM.

WATER YEAR : 2014

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

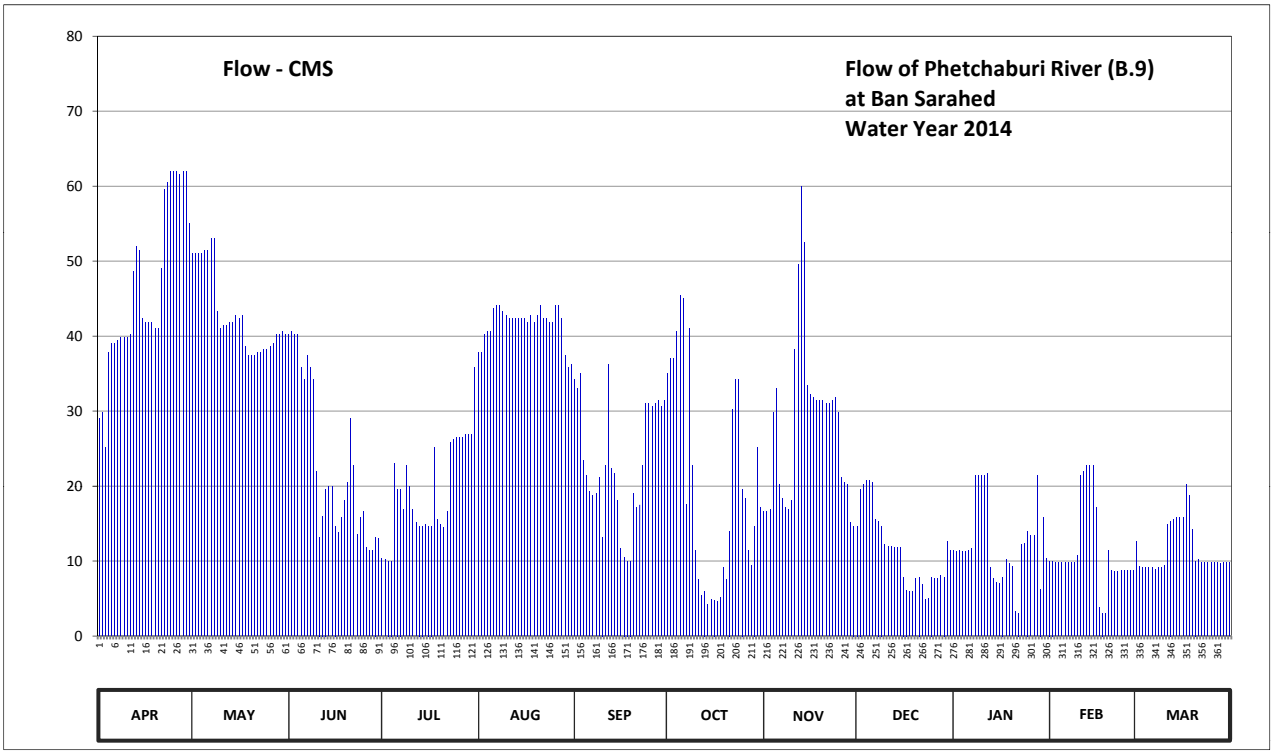
Location : on left bank at Ban Sarahed.

	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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.90	28.42	28.18	27.22	28.12	28.03	28.05	27.52	27.44	27.28	27.20	27.34	
2	27.92	28.42	28.19	27.21	28.12	28.00	28.10	27.52	27.62	27.27	27.20	27.16	
3	27.79	28.42	28.18	27.20	28.18	28.05	28.10	27.53	27.64	27.28	27.19	27.15	
4	28.12	28.42	28.18	27.20	28.19	27.74	28.19	27.92	27.66	27.27	27.19	27.15	
5	28.15	28.43	28.07	27.73	28.19	27.68	28.30	28.00	27.66	27.27	27.19	27.15	
6	28.15	28.43	28.03	27.62	28.26	27.61	28.29	27.64	27.65	27.28	27.19	27.15	
7	28.16	28.46	28.11	27.62	28.27	27.59	27.55	27.58	27.48	27.29	27.19	27.14	
8	28.17	28.46	28.07	27.53	28.27	27.60	28.20	27.54	27.47	27.68	27.19	27.15	
9	28.17	28.25	28.03	27.72	28.25	27.67	27.72	27.53	27.44	27.68	27.19	27.15	
10	28.17	28.20	27.70	27.63	28.24	27.37	27.28	27.57	27.32	27.68	27.24	27.17	
11	28.18	28.21	27.37	27.53	28.23	27.72	27.06	28.13	27.31	27.68	27.68	27.45	
12	28.37	28.21	27.50	27.46	28.23	28.08	26.91	28.39	27.31	27.69	27.70	27.47	
13	28.44	28.22	27.62	27.44	28.23	27.71	26.96	28.60	27.30	27.15	27.72	27.48	
14	28.43	28.22	27.63	27.44	28.23	27.69	26.79	28.45	27.30	27.07	27.72	27.49	
15	28.23	28.24	27.63	27.45	28.23	27.57	26.86	28.01	27.30	27.04	27.72	27.49	
16	28.22	28.23	27.44	27.44	28.23	27.29	26.85	27.98	27.08	27.03	27.54	27.49	
17	28.22	28.24	27.40	27.44	28.22	27.23	26.83	27.97	26.97	27.08	26.75	27.64	
18	28.22	28.14	27.49	27.79	28.24	27.20	26.88	27.96	26.95	27.21	26.67	27.59	
19	28.20	28.11	27.57	27.48	28.22	27.20	27.15	27.96	26.95	27.18	26.66	27.42	
20	28.20	28.11	27.65	27.45	28.24	27.60	27.06	27.96	27.07	27.16	27.28	27.20	
21	28.38	28.11	27.90	27.43	28.27	27.54	27.41	27.95	27.08	26.69	27.13	27.21	
22	28.59	28.12	27.72	27.52	28.23	27.55	27.93	27.95	27.02	26.67	27.12	27.19	
23	28.61	28.12	27.39	27.81	28.23	27.72	28.03	27.96	26.86	27.32	27.12	27.19	
24	28.64	28.13	27.49	27.82	28.22	27.95	28.03	27.97	26.87	27.33	27.13	27.19	
25	28.64	28.13	27.52	27.83	28.22	27.95	27.62	27.92	27.08	27.41	27.13	27.19	
26	28.64	28.14	27.30	27.83	28.27	27.94	27.58	27.67	27.07	27.38	27.13	27.19	
27	28.63	28.15	27.28	27.83	28.27	27.95	27.28	27.65	27.07	27.38	27.13	27.19	
28	28.64	28.18	27.28	27.84	28.23	27.96	27.17	27.64	27.09	27.68	27.13	27.18	
29	28.64	28.18	27.37	27.84	28.11	27.94	27.44	27.46	27.08	26.98		27.19	
30	28.50	28.19	27.36	27.84	28.07	27.96	27.79	27.44	27.34	27.49		27.19	
31		28.18		28.07	28.08		27.54		27.28	27.22		27.19	
Mean	28.31	28.24	27.69	27.59	28.21	27.70	27.51	27.85	27.25	27.28	27.23	27.28	
Max	28.64	28.46	28.19	28.07	28.27	28.08	28.30	28.60	27.66	27.69	27.72	27.64	28.64
Min	27.79	28.11	27.28	27.20	28.07	27.20	26.79	27.44	26.86	26.67	26.66	27.14	26.66

Annual Max Momentary Gage Height	28.67	m. (MSL.) ,	at 23.00 Hours , on Apr 24 , 2014		
Zero Gage at Bottom Elevation	25.32	m. (MSL.) ,	River Bed	25.42	m. (MSL.)
Left Bank Elevation	31.11	m. (MSL.) ,			
Right Bank Elevation	32.40	m. (MSL.) ,	Drainage Area	2617	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	29.00	51.00	40.20	10.36	37.80	34.20	35.00	16.60	14.68	11.44	10.00	12.60		
2	29.80	51.00	40.60	10.18	37.80	33.00	37.00	16.60	19.60	11.26	10.00	9.28		
3	25.15	51.00	40.20	10.00	40.20	35.00	37.00	16.90	20.20	11.44	9.82	9.10		
4	37.80	51.00	40.20	10.00	40.60	23.40	40.60	29.80	20.80	11.26	9.82	9.10		
5	39.00	51.50	35.80	23.05	40.60	21.40	45.50	33.00	20.80	11.26	9.82	9.10		
6	39.00	51.50	34.20	19.60	43.70	19.30	45.05	20.20	20.50	11.44	9.82	9.10		
7	39.40	53.00	37.40	19.60	44.15	18.70	17.50	18.40	15.56	11.62	9.82	8.92		
8	39.80	53.00	35.80	16.90	44.15	19.00	41.00	17.20	15.34	21.40	9.82	9.10		
9	39.80	43.25	34.20	22.70	43.25	21.10	22.70	16.90	14.68	21.40	9.82	9.10		
10	39.80	41.00	22.00	19.90	42.80	13.20	11.44	18.10	12.20	21.40	10.72	9.46		
11	40.20	41.45	13.20	16.90	42.35	22.70	7.52	38.20	12.00	21.40	21.40	14.90		
12	48.65	41.45	16.00	15.12	42.35	36.20	5.42	49.55	12.00	21.70	22.00	15.34		
13	52.00	41.90	19.60	14.68	42.35	22.35	6.02	60.00	11.80	9.10	22.70	15.56		
14	51.50	41.90	19.90	14.68	42.35	21.70	4.20	52.50	11.80	7.69	22.70	15.78		
15	42.35	42.80	19.90	14.90	42.35	18.10	4.90	33.40	11.80	7.18	22.70	15.78		
16	41.90	42.35	14.68	14.68	42.35	11.62	4.80	32.20	7.86	7.01	17.20	15.78		
17	41.90	42.80	13.80	14.68	41.90	10.54	4.60	31.80	6.14	7.86	3.80	20.20		
18	41.90	38.60	15.78	25.15	42.80	10.00	5.10	31.40	5.90	10.18	3.06	18.70		
19	41.00	37.40	18.10	15.56	41.90	10.00	9.10	31.40	5.90	9.64	2.98	14.24		
20	41.00	37.40	20.50	14.90	42.80	19.00	7.52	31.40	7.69	9.28	11.44	10.00		
21	49.10	37.40	29.00	14.46	44.15	17.20	14.02	31.00	7.86	3.22	8.74	10.18		
22	59.50	37.80	22.70	16.60	42.35	17.50	30.20	31.00	6.84	3.06	8.56	9.82		
23	60.50	37.80	13.60	25.85	42.35	22.70	34.20	31.40	4.90	12.20	8.56	9.82		
24	62.00	38.20	15.78	26.20	41.90	31.00	34.20	31.80	5.00	12.40	8.74	9.82		
25	62.00	38.20	16.60	26.55	41.90	31.00	19.60	29.80	7.86	14.02	8.74	9.82		
26	62.00	38.60	11.80	26.55	44.15	30.60	18.40	21.10	7.69	13.40	8.74	9.82		
27	61.50	39.00	11.44	26.55	44.15	31.00	11.44	20.50	7.69	13.40	8.74	9.82		
28	62.00	40.20	11.44	26.90	42.35	31.40	9.46	20.20	8.03	21.40	8.74	9.64		
29	62.00	40.20	13.20	26.90	37.40	30.60	14.68	15.12	7.86	6.26		9.82		
30	55.00	40.60	13.00	26.90	35.80	31.40	25.15	14.68	12.60	15.78		9.82		
31		40.20		35.80	36.20		17.20		11.44	10.36		9.82		
Total	1396.55	1333.50	690.62	602.80	1291.25	694.91	620.52	842.15	355.02	380.46	319.00	359.34	8886.12	CMSDAY
Mean	46.55	43.02	23.02	19.45	41.65	23.16	20.02	28.07	11.45	12.27	11.39	11.59	24.35	CMS
Max	62.00	53.00	40.60	35.80	44.15	36.20	45.50	60.00	20.80	21.70	22.70	20.20	62.00	CMS
Min	25.15	37.40	11.44	10.00	35.80	10.00	4.20	14.68	4.90	3.06	2.98	8.92	2.98	CMS
Runoff	120.66	115.21	59.67	52.08	111.56	60.04	53.61	72.76	30.67	32.87	27.56	31.05	767.76	MCM

Momentary Peak 63.50 CMS. at 28.67 m. (MSL.) at 23.00 Hours , on Apr 24 , 2014

Runoff Yield 9.30 Liters/Second/Square KM. Momentary Peak Yield 24.264 Liters/Second/Square KM.

WATER YEAR : 2014

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

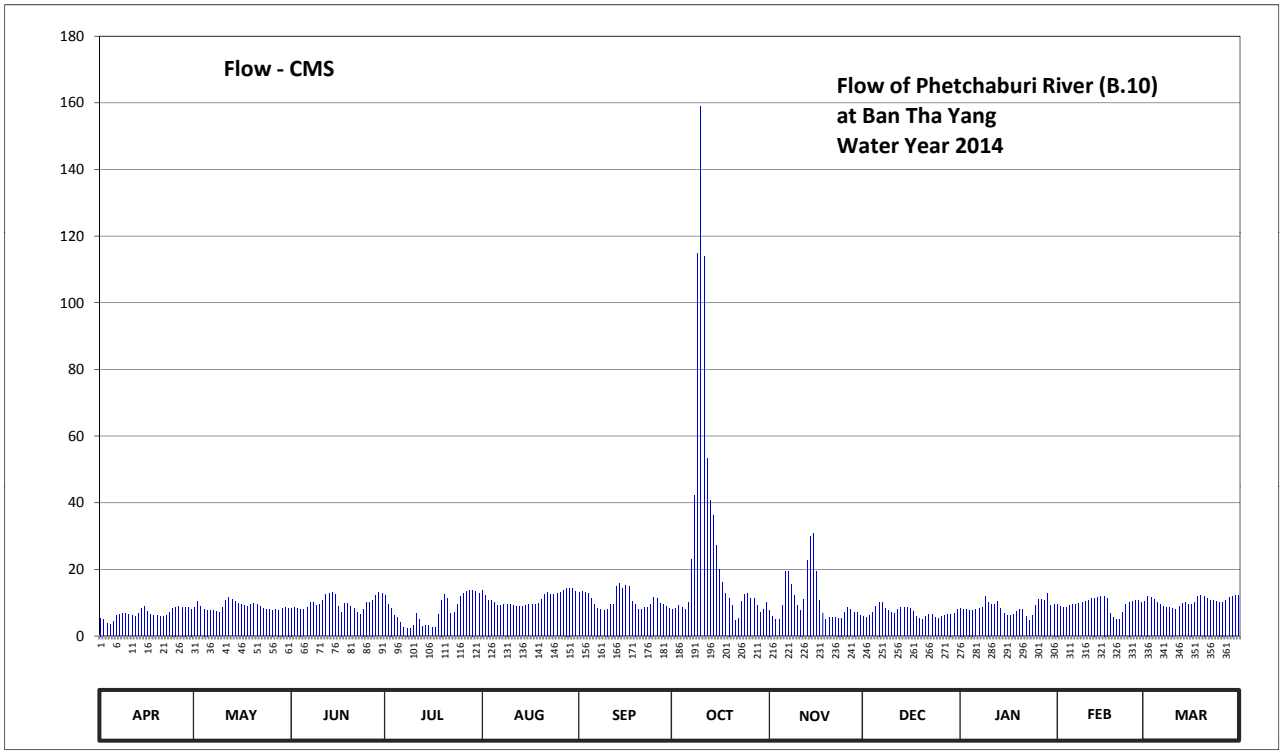
Location : on left bank at the bridge of Ban Tha Yang.

	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 Flot	-		
Rated by Current Meter	1985 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phet Dam.		
	Stage-discharge relation defined by 28 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.24	6.61	6.59	6.92	7.03	6.97	6.55	6.53	6.28	6.59	6.70	6.77	
2	6.20	6.76	6.61	6.68	6.92	6.99	6.59	6.29	6.26	6.56	6.63	6.90	
3	6.01	6.63	6.57	6.59	6.80	6.97	6.65	6.18	6.34	6.54	6.61	6.87	
4	5.98	6.56	6.56	6.33	6.79	6.96	6.61	6.19	6.43	6.53	6.61	6.82	
5	6.10	6.53	6.54	6.27	6.73	6.84	6.56	6.67	6.64	6.53	6.66	6.74	
6	6.32	6.51	6.60	6.07	6.66	6.68	6.75	7.37	6.75	6.54	6.68	6.69	
7	6.38	6.52	6.74	5.85	6.65	6.59	7.56	7.38	6.73	6.57	6.69	6.64	
8	6.40	6.50	6.73	5.80	6.68	6.54	8.29	7.14	6.59	6.61	6.72	6.60	
9	6.40	6.45	6.65	5.79	6.70	6.51	10.23	6.91	6.51	6.88	6.74	6.60	
10	6.38	6.61	6.68	5.95	6.68	6.56	11.21	6.66	6.45	6.75	6.76	6.59	
11	6.33	6.78	6.79	6.40	6.66	6.68	10.21	6.53	6.40	6.68	6.78	6.55	
12	6.29	6.86	6.93	6.20	6.64	6.70	8.65	6.81	6.54	6.69	6.83	6.63	
13	6.42	6.82	6.96	5.87	6.63	7.11	8.24	7.54	6.60	6.76	6.85	6.71	
14	6.57	6.77	6.98	5.92	6.64	7.17	8.09	7.86	6.60	6.57	6.87	6.73	
15	6.64	6.72	6.93	5.92	6.66	7.06	7.75	7.89	6.61	6.42	6.88	6.69	
16	6.48	6.68	6.63	5.84	6.68	7.13	7.41	7.37	6.58	6.35	6.90	6.70	
17	6.38	6.66	6.46	5.85	6.69	7.11	7.18	6.79	6.47	6.35	6.85	6.74	
18	6.35	6.63	6.72	6.38	6.68	6.76	6.95	6.43	6.29	6.39	6.40	6.88	
19	6.33	6.68	6.71	6.80	6.71	6.70	6.85	6.20	6.22	6.50	6.27	6.92	
20	6.30	6.72	6.64	6.93	6.82	6.54	6.65	6.26	6.20	6.55	6.20	6.90	
21	6.30	6.69	6.58	6.83	6.93	6.55	6.13	6.27	6.30	6.55	6.19	6.83	
22	6.34	6.64	6.44	6.41	6.97	6.61	6.24	6.26	6.37	6.29	6.44	6.80	
23	6.44	6.58	6.38	6.43	6.94	6.60	6.76	6.24	6.36	6.14	6.68	6.78	
24	6.59	6.55	6.56	6.69	6.93	6.70	6.93	6.24	6.26	6.35	6.75	6.76	
25	6.62	6.55	6.75	6.89	6.95	6.86	6.95	6.43	6.22	6.67	6.77	6.75	
26	6.63	6.53	6.73	6.96	6.98	6.84	6.84	6.62	6.28	6.81	6.78	6.75	
27	6.62	6.55	6.80	6.99	7.02	6.72	6.83	6.54	6.33	6.81	6.78	6.80	
28	6.62	6.53	6.91	7.02	7.07	6.70	6.67	6.46	6.37	6.80	6.75	6.87	
29	6.61	6.59	6.98	7.03	7.07	6.63	6.45	6.45	6.39	6.96		6.90	
30	6.56	6.61	6.96	7.00	7.06	6.59	6.55	6.35	6.42	6.67		6.91	
31		6.59		6.96	6.99		6.74		6.54	6.70		6.92	
Mean	6.39	6.63	6.70	6.44	6.82	6.78	7.36	6.70	6.43	6.58	6.67	6.77	
Max	6.64	6.86	6.98	7.03	7.07	7.17	11.21	7.89	6.75	6.96	6.90	6.92	11.21
Min	5.98	6.45	6.38	5.79	6.63	6.51	6.13	6.18	6.20	6.14	6.19	6.55	5.79

Annual Max Momentary Gage Height	11.32	m. (MSL.) ,	at 07.00 Hours , on Oct 10 , 2014		
Zero Gage at Bottom Elevation	5.63	m. (MSL.) ,	River Bed	3.87	m. (MSL.)
Left Bank Elevation	15.33	m. (MSL.) ,			
Right Bank Elevation	15.00	m. (MSL.) ,	Drainage Area	4076	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.42	8.61	8.40	12.28	13.82	12.98	8.00	7.80	5.74	8.40	9.60	10.44		
2	5.10	10.32	8.61	9.38	12.28	13.26	8.40	5.82	5.58	8.10	8.83	12.00		
3	3.67	8.83	8.20	8.40	10.80	12.98	9.05	4.94	6.22	7.90	8.61	11.64		
4	3.48	8.10	8.10	6.14	10.68	12.84	8.61	5.02	6.94	7.80	8.61	11.04		
5	4.30	7.80	7.90	5.66	9.96	11.28	8.10	9.27	8.94	7.80	9.16	10.08		
6	6.06	7.60	8.50	4.09	9.16	9.38	10.20	19.26	10.20	7.90	9.38	9.49		
7	6.54	7.70	10.08	2.70	9.05	8.40	23.00	19.44	9.96	8.20	9.49	8.94		
8	6.70	7.50	9.96	2.40	9.38	7.90	42.20	15.44	8.40	8.61	9.84	8.50		
9	6.70	7.10	9.05	2.34	9.60	7.60	114.85	12.14	7.60	11.76	10.08	8.50		
10	6.54	8.61	9.38	3.30	9.38	8.10	159.00	9.16	7.10	10.20	10.32	8.40		
11	6.14	10.56	10.68	6.70	9.16	9.38	113.95	7.80	6.70	9.38	10.56	8.00		
12	5.82	11.52	12.42	5.10	8.94	9.60	53.25	10.92	7.90	9.49	11.16	8.83		
13	6.86	11.04	12.84	2.82	8.83	14.96	40.70	22.60	8.50	10.32	11.40	9.72		
14	8.20	10.44	13.12	3.12	8.94	15.92	36.20	30.00	8.50	8.20	11.64	9.96		
15	8.94	9.84	12.42	3.12	9.16	14.24	27.25	30.75	8.61	6.86	11.76	9.49		
16	7.34	9.38	8.83	2.64	9.38	15.28	20.00	19.26	8.30	6.30	12.00	9.60		
17	6.54	9.16	7.18	2.70	9.49	14.96	16.08	10.68	7.26	6.30	11.40	10.08		
18	6.30	8.83	9.84	6.54	9.38	10.32	12.70	6.94	5.82	6.62	6.70	11.76		
19	6.14	9.38	9.72	10.80	9.72	9.60	11.40	5.10	5.26	7.50	5.66	12.28		
20	5.90	9.84	8.94	12.42	11.04	7.90	9.05	5.58	5.10	8.00	5.10	12.00		
21	5.90	9.49	8.30	11.16	12.42	8.00	4.54	5.66	5.90	8.00	5.02	11.16		
22	6.22	8.94	7.02	6.78	12.98	8.61	5.42	5.58	6.46	5.82	7.02	10.80		
23	7.02	8.30	6.54	6.94	12.56	8.50	10.32	5.42	6.38	4.62	9.38	10.56		
24	8.40	8.00	8.10	9.49	12.42	9.60	12.42	5.42	5.58	6.30	10.20	10.32		
25	8.72	8.00	10.20	11.88	12.70	11.52	12.70	6.94	5.26	9.27	10.44	10.20		
26	8.83	7.80	9.96	12.84	13.12	11.28	11.28	8.72	5.74	10.92	10.56	10.20		
27	8.72	8.00	10.80	13.26	13.68	9.84	11.16	7.90	6.14	10.92	10.56	10.80		
28	8.72	7.80	12.14	13.68	14.38	9.60	9.27	7.18	6.46	10.80	10.20	11.64		
29	8.61	8.40	13.12	13.82	14.38	8.83	7.10	7.10	6.62	12.84		12.00		
30	8.10	8.61	12.84	13.40	14.24	8.40	8.00	6.30	6.86	9.27		12.14		
31		8.40		12.84	13.26		10.08		7.90	9.60		12.28		
Total	201.93	273.90	293.19	238.74	344.29	321.06	834.28	324.14	217.93	264.00	264.68	322.85	3900.99	CMSDAY
Mean	6.73	8.84	9.77	7.70	11.11	10.70	26.91	10.80	7.03	8.52	9.45	10.41	10.69	CMS
Max	8.94	11.52	13.12	13.82	14.38	15.92	159.00	30.75	10.20	12.84	12.00	12.28	159.00	CMS
Min	3.48	7.10	6.54	2.34	8.83	7.60	4.54	4.94	5.10	4.62	5.02	8.00	2.34	CMS
Runoff	17.45	23.67	25.33	20.63	29.75	27.74	72.08	28.01	18.83	22.81	22.87	27.89	337.05	MCM

Momentary Peak 164.50 CMS. at 11.32 m. (MSL.) at 07.00 Hours , on Oct 10 , 2014

Runoff Yield 2.62 Liters/Second/Square KM. Momentary Peak Yield 40.358 Liters/Second/Square KM.

WATER YEAR : 2014

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.

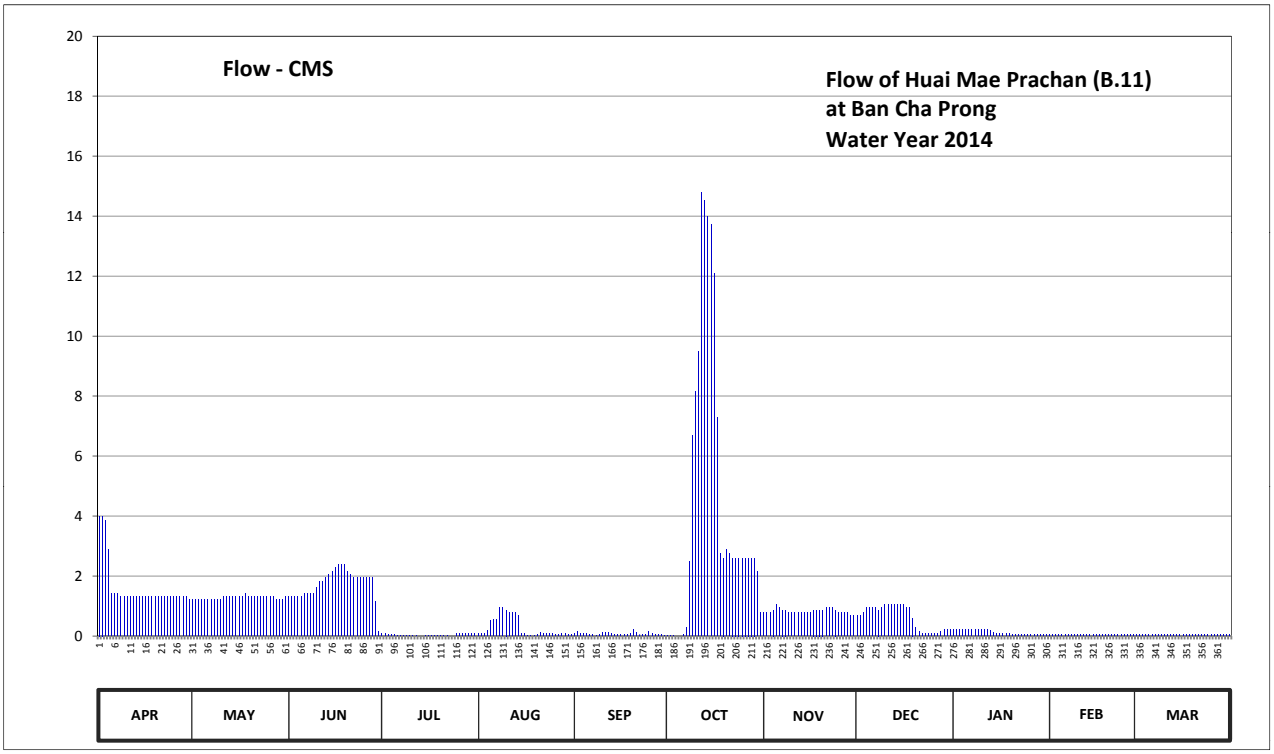
Ban Cha Prong **Amphoe** Nong Ya Plong **Changwat** Phetchaburi

Drainge Area	460 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+72.272 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 45 meters from the top staff gage. **Elevation** +78.722 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Flot	-
Rated by Current Meter	2000 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.60	71.37	71.38	71.13	71.13	71.13	71.11	71.32	71.31	71.17	71.12	71.12	
2	71.60	71.37	71.38	71.13	71.13	71.15	71.11	71.32	71.31	71.17	71.12	71.12	
3	71.59	71.37	71.38	71.12	71.13	71.13	71.11	71.32	71.32	71.17	71.12	71.12	
4	71.52	71.37	71.38	71.12	71.16	71.13	71.10	71.33	71.34	71.17	71.12	71.12	
5	71.39	71.37	71.38	71.12	71.27	71.13	71.10	71.35	71.34	71.17	71.12	71.12	
6	71.39	71.37	71.39	71.11	71.28	71.12	71.12	71.34	71.34	71.17	71.12	71.12	
7	71.39	71.37	71.39	71.11	71.28	71.12	71.20	71.33	71.34	71.17	71.12	71.12	
8	71.38	71.37	71.39	71.11	71.34	71.11	71.49	71.33	71.33	71.17	71.12	71.12	
9	71.38	71.37	71.39	71.11	71.34	71.12	71.76	71.32	71.34	71.17	71.12	71.12	
10	71.38	71.37	71.41	71.11	71.33	71.14	71.83	71.32	71.35	71.17	71.12	71.12	
11	71.38	71.38	71.43	71.11	71.32	71.14	71.89	71.32	71.35	71.17	71.12	71.12	
12	71.38	71.38	71.43	71.11	71.32	71.14	72.10	71.32	71.35	71.17	71.12	71.12	
13	71.38	71.38	71.44	71.10	71.32	71.13	72.09	71.32	71.35	71.16	71.12	71.12	
14	71.38	71.38	71.45	71.10	71.31	71.12	72.07	71.32	71.35	71.14	71.12	71.12	
15	71.38	71.38	71.46	71.11	71.13	71.12	72.06	71.32	71.35	71.13	71.12	71.12	
16	71.38	71.38	71.47	71.11	71.13	71.12	72.00	71.32	71.35	71.13	71.12	71.12	
17	71.38	71.38	71.48	71.11	71.11	71.12	71.79	71.33	71.34	71.13	71.12	71.12	
18	71.38	71.39	71.48	71.11	71.11	71.12	71.51	71.33	71.34	71.13	71.12	71.12	
19	71.38	71.38	71.48	71.11	71.11	71.13	71.50	71.33	71.30	71.13	71.12	71.12	
20	71.38	71.38	71.46	71.11	71.12	71.17	71.52	71.33	71.20	71.12	71.12	71.12	
21	71.38	71.38	71.45	71.11	71.14	71.14	71.51	71.34	71.15	71.12	71.12	71.12	
22	71.38	71.38	71.44	71.11	71.13	71.12	71.50	71.34	71.13	71.12	71.12	71.12	
23	71.38	71.38	71.44	71.10	71.13	71.12	71.50	71.34	71.13	71.12	71.12	71.12	
24	71.38	71.38	71.44	71.10	71.13	71.12	71.50	71.33	71.13	71.12	71.12	71.12	
25	71.38	71.38	71.44	71.13	71.13	71.15	71.50	71.32	71.13	71.12	71.12	71.12	
26	71.38	71.38	71.44	71.13	71.12	71.13	71.50	71.32	71.13	71.12	71.12	71.12	
27	71.38	71.38	71.44	71.13	71.12	71.12	71.50	71.32	71.13	71.12	71.12	71.12	
28	71.38	71.37	71.44	71.13	71.13	71.12	71.50	71.32	71.15	71.12	71.12	71.12	
29	71.38	71.37	71.36	71.13	71.13	71.12	71.50	71.31	71.17	71.12		71.12	
30	71.37	71.37	71.15	71.13	71.12	71.11	71.46	71.31	71.17	71.12		71.12	
31		71.38		71.13	71.12		71.32		71.17	71.12		71.12	
Mean	71.41	71.38	71.42	71.12	71.19	71.13	71.54	71.33	71.26	71.14	71.12	71.12	
Max	71.60	71.39	71.48	71.13	71.34	71.17	72.10	71.35	71.35	71.17	71.12	71.12	72.10
Min	71.37	71.37	71.15	71.10	71.11	71.11	71.10	71.31	71.13	71.12	71.12	71.12	71.10

Annual Max Momentary Gage Height	72.11	m. (MSL.) ,	at 01.00 Hours , on Oct 12 , 2014		
Zero Gage at Bottom Elevation	72.27	m. (MSL.) ,	River Bed	71.00	m. (MSL.)
Left Bank Elevation	79.35	m. (MSL.) ,			
Right Bank Elevation	78.95	m. (MSL.) ,	Drainage Area	460	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	1.23	1.32	0.09	0.09	0.09	0.03	0.78	0.69	0.21	0.06	0.06		
2	4.00	1.23	1.32	0.09	0.09	0.15	0.03	0.78	0.69	0.21	0.06	0.06		
3	3.86	1.23	1.32	0.06	0.09	0.09	0.03	0.78	0.78	0.21	0.06	0.06		
4	2.88	1.23	1.32	0.06	0.18	0.09	0.00	0.87	0.96	0.21	0.06	0.06		
5	1.41	1.23	1.32	0.06	0.51	0.09	0.00	1.05	0.96	0.21	0.06	0.06		
6	1.41	1.23	1.41	0.03	0.54	0.06	0.06	0.96	0.96	0.21	0.06	0.06		
7	1.41	1.23	1.41	0.03	0.54	0.06	0.30	0.87	0.96	0.21	0.06	0.06		
8	1.32	1.23	1.41	0.03	0.96	0.03	2.49	0.87	0.87	0.21	0.06	0.06		
9	1.32	1.23	1.41	0.03	0.96	0.06	6.70	0.78	0.96	0.21	0.06	0.06		
10	1.32	1.23	1.61	0.03	0.87	0.12	8.16	0.78	1.05	0.21	0.06	0.06		
11	1.32	1.32	1.83	0.03	0.78	0.12	9.48	0.78	1.05	0.21	0.06	0.06		
12	1.32	1.32	1.83	0.03	0.78	0.12	14.80	0.78	1.05	0.21	0.06	0.06		
13	1.32	1.32	1.94	0.00	0.78	0.09	14.53	0.78	1.05	0.18	0.06	0.06		
14	1.32	1.32	2.05	0.00	0.69	0.06	13.99	0.78	1.05	0.12	0.06	0.06		
15	1.32	1.32	2.16	0.03	0.09	0.06	13.72	0.78	1.05	0.09	0.06	0.06		
16	1.32	1.32	2.27	0.03	0.09	0.06	12.10	0.78	1.05	0.09	0.06	0.06		
17	1.32	1.32	2.38	0.03	0.03	0.06	7.30	0.87	0.96	0.09	0.06	0.06		
18	1.32	1.41	2.38	0.03	0.03	0.06	2.74	0.87	0.96	0.09	0.06	0.06		
19	1.32	1.32	2.38	0.03	0.03	0.09	2.60	0.87	0.60	0.09	0.06	0.06		
20	1.32	1.32	2.16	0.03	0.06	0.21	2.88	0.87	0.30	0.06	0.06	0.06		
21	1.32	1.32	2.05	0.03	0.12	0.12	2.74	0.96	0.15	0.06	0.06	0.06		
22	1.32	1.32	1.94	0.03	0.09	0.06	2.60	0.96	0.09	0.06	0.06	0.06		
23	1.32	1.32	1.94	0.00	0.09	0.06	2.60	0.96	0.09	0.06	0.06	0.06		
24	1.32	1.32	1.94	0.00	0.09	0.06	2.60	0.87	0.09	0.06	0.06	0.06		
25	1.32	1.32	1.94	0.09	0.09	0.15	2.60	0.78	0.09	0.06	0.06	0.06		
26	1.32	1.32	1.94	0.09	0.06	0.09	2.60	0.78	0.09	0.06	0.06	0.06		
27	1.32	1.32	1.94	0.09	0.06	0.06	2.60	0.78	0.09	0.06	0.06	0.06		
28	1.32	1.23	1.94	0.09	0.09	0.06	2.60	0.78	0.15	0.06	0.06	0.06		
29	1.32	1.23	1.14	0.09	0.09	0.06	2.60	0.69	0.21	0.06		0.06		
30	1.23	1.23	0.15	0.09	0.06	0.03	2.16	0.69	0.21	0.06		0.06		
31		1.32		0.09	0.06		0.78		0.21	0.06		0.06		
Total	49.24	39.84	52.15	1.44	9.09	2.52	138.42	24.93	19.47	3.99	1.68	1.86	344.63	CMSDAY
Mean	1.64	1.29	1.74	0.05	0.29	0.08	4.47	0.83	0.63	0.13	0.06	0.06	0.94	CMS
Max	4.00	1.41	2.38	0.09	0.96	0.21	14.80	1.05	1.05	0.21	0.06	0.06	14.80	CMS
Min	1.23	1.23	0.15	0.00	0.03	0.03	0.00	0.69	0.09	0.06	0.06	0.06	0.00	CMS
Runoff	4.25	3.44	4.51	0.12	0.79	0.22	11.96	2.15	1.68	0.35	0.15	0.16	29.78	MCM

Momentary Peak 15.09 CMS. at 72.11 m. (MSL.) at 01.00 Hours , on Oct 12 , 2014

Runoff Yield 2.05 Liters/Second/Square KM. Momentary Peak Yield 32.804 Liters/Second/Square KM.

WATER YEAR : 2014

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

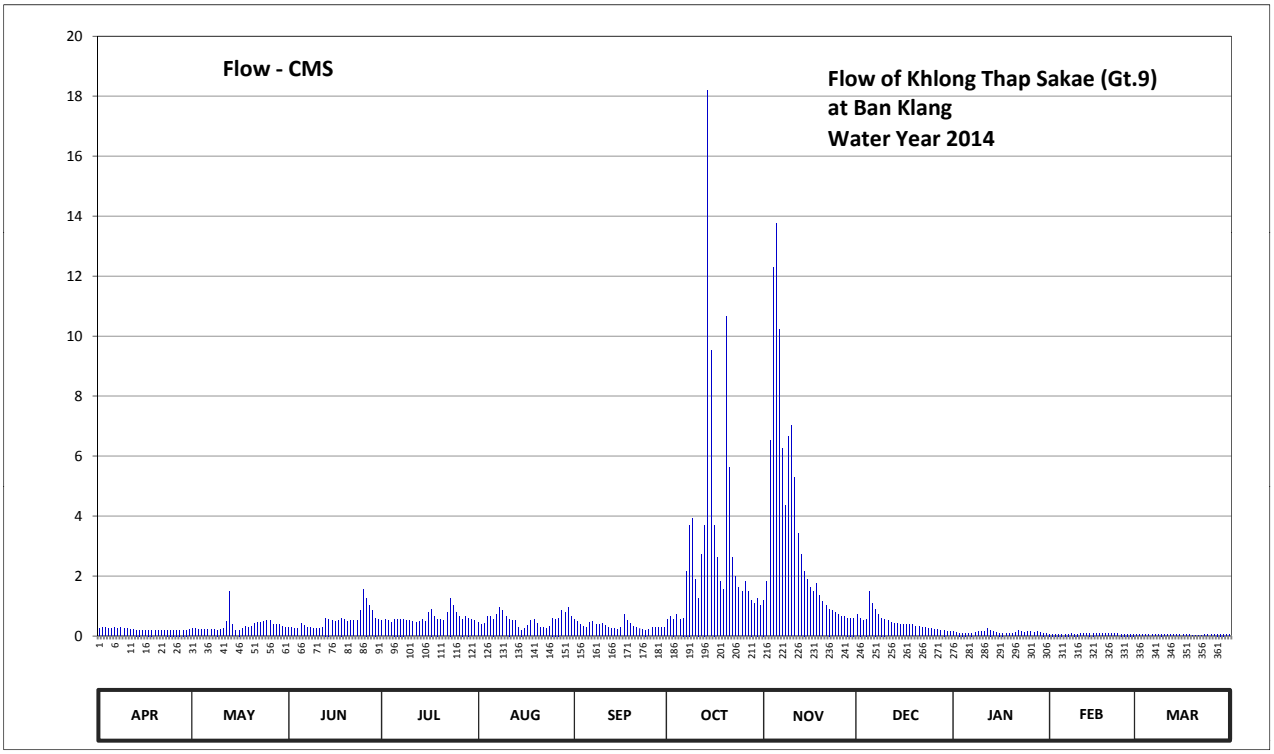
Location : on right bank at Ban Klang.

	Ban Klang	**Amphoe** Thap Sakae	**Changwat** Prachuap Khiri Khan
Drainge Area	125 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+6.843 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+12.220 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.27	7.28	7.30	7.37	7.35	7.38	7.38	7.50	7.42	7.22	7.17	7.16	
2	7.29	7.27	7.29	7.38	7.33	7.36	7.41	7.59	7.40	7.21	7.17	7.15	
3	7.29	7.26	7.28	7.37	7.34	7.33	7.39	8.04	7.37	7.20	7.17	7.15	
4	7.28	7.26	7.28	7.35	7.41	7.31	7.42	8.45	7.39	7.20	7.17	7.15	
5	7.28	7.26	7.34	7.39	7.41	7.30	7.38	8.54	7.54	7.20	7.17	7.15	
6	7.29	7.26	7.32	7.39	7.39	7.35	7.40	8.31	7.48	7.19	7.17	7.15	
7	7.28	7.26	7.30	7.39	7.42	7.36	7.63	8.02	7.45	7.20	7.17	7.16	
8	7.29	7.26	7.29	7.39	7.46	7.33	7.80	7.86	7.42	7.21	7.19	7.16	
9	7.28	7.25	7.28	7.37	7.44	7.33	7.82	8.05	7.40	7.22	7.17	7.17	
10	7.27	7.26	7.27	7.37	7.41	7.34	7.60	8.08	7.39	7.22	7.17	7.16	
11	7.26	7.27	7.27	7.36	7.39	7.32	7.51	7.94	7.37	7.23	7.18	7.15	
12	7.26	7.36	7.30	7.35	7.37	7.30	7.69	7.77	7.35	7.27	7.19	7.15	
13	7.25	7.54	7.40	7.36	7.37	7.28	7.80	7.69	7.34	7.25	7.19	7.15	
14	7.25	7.33	7.39	7.38	7.29	7.27	8.80	7.63	7.34	7.23	7.20	7.15	
15	7.24	7.24	7.37	7.36	7.25	7.26	8.26	7.60	7.33	7.21	7.20	7.14	
16	7.24	7.25	7.36	7.43	7.27	7.29	7.80	7.56	7.33	7.20	7.19	7.14	
17	7.25	7.28	7.37	7.45	7.32	7.42	7.68	7.54	7.33	7.20	7.19	7.14	
18	7.25	7.31	7.40	7.41	7.37	7.37	7.59	7.58	7.33	7.19	7.19	7.14	
19	7.24	7.30	7.38	7.39	7.38	7.34	7.55	7.52	7.33	7.18	7.18	7.13	
20	7.24	7.31	7.36	7.38	7.34	7.31	8.34	7.49	7.31	7.18	7.18	7.12	
21	7.24	7.34	7.37	7.37	7.30	7.29	7.97	7.47	7.31	7.21	7.18	7.13	
22	7.24	7.35	7.37	7.43	7.29	7.28	7.68	7.45	7.30	7.24	7.18	7.13	
23	7.25	7.35	7.37	7.51	7.28	7.26	7.61	7.44	7.29	7.23	7.18	7.14	
24	7.25	7.36	7.44	7.47	7.31	7.25	7.56	7.43	7.28	7.21	7.17	7.15	
25	7.25	7.37	7.55	7.43	7.40	7.26	7.54	7.42	7.27	7.23	7.17	7.16	
26	7.25	7.37	7.51	7.41	7.39	7.29	7.59	7.41	7.26	7.22	7.17	7.16	
27	7.25	7.33	7.47	7.39	7.40	7.29	7.54	7.41	7.26	7.21	7.17	7.17	
28	7.25	7.33	7.44	7.41	7.44	7.29	7.50	7.40	7.24	7.23	7.17	7.17	
29	7.25	7.33	7.40	7.40	7.43	7.29	7.48	7.40	7.25	7.21		7.17	
30	7.26	7.31	7.38	7.38	7.46	7.29	7.51	7.40	7.23	7.20		7.16	
31		7.30		7.37	7.41		7.47		7.22	7.19		7.16	
Mean	7.26	7.31	7.36	7.39	7.37	7.31	7.67	7.70	7.34	7.21	7.18	7.15	
Max	7.29	7.54	7.55	7.51	7.46	7.42	8.80	8.54	7.54	7.27	7.20	7.17	8.80
Min	7.24	7.24	7.27	7.35	7.25	7.25	7.38	7.40	7.22	7.18	7.17	7.12	7.12

Annual Max Momentary Gage Height	10.35	m. (MSL.) ,	at 18.00 Hours , on Oct 14, 2014		
Zero Gage at Bottom Elevation	6.84	m. (MSL.) ,	River Bed	6.94	m. (MSL.)
Left Bank Elevation	11.31	m. (MSL.) ,			
Right Bank Elevation	11.51	m. (MSL.) ,	Drainage Area	125	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.24	0.26	0.30	0.51	0.45	0.54	0.54	1.20	0.72	0.14	0.07	0.06		
2	0.28	0.24	0.28	0.54	0.39	0.48	0.66	1.83	0.60	0.12	0.07	0.05		
3	0.28	0.22	0.26	0.51	0.42	0.39	0.57	6.52	0.51	0.10	0.07	0.05		
4	0.26	0.22	0.26	0.45	0.66	0.33	0.72	12.30	0.57	0.10	0.07	0.05		
5	0.26	0.22	0.42	0.57	0.66	0.30	0.54	13.74	1.48	0.10	0.07	0.05		
6	0.28	0.22	0.36	0.57	0.57	0.45	0.60	10.24	1.08	0.09	0.07	0.05		
7	0.26	0.22	0.30	0.57	0.72	0.48	2.17	6.26	0.90	0.10	0.07	0.06		
8	0.28	0.22	0.28	0.57	0.96	0.39	3.70	4.36	0.72	0.12	0.09	0.06		
9	0.26	0.20	0.26	0.51	0.84	0.39	3.92	6.65	0.60	0.14	0.07	0.07		
10	0.24	0.22	0.24	0.51	0.66	0.42	1.90	7.04	0.57	0.14	0.07	0.06		
11	0.22	0.24	0.24	0.48	0.57	0.36	1.27	5.28	0.51	0.16	0.08	0.05		
12	0.22	0.48	0.30	0.45	0.51	0.30	2.71	3.43	0.45	0.24	0.09	0.05		
13	0.20	1.48	0.60	0.48	0.51	0.26	3.70	2.71	0.42	0.20	0.09	0.05		
14	0.20	0.39	0.57	0.54	0.28	0.24	18.20	2.17	0.42	0.16	0.10	0.05		
15	0.18	0.18	0.51	0.48	0.20	0.22	9.54	1.90	0.39	0.12	0.10	0.04		
16	0.18	0.20	0.48	0.78	0.24	0.28	3.70	1.62	0.39	0.10	0.09	0.04		
17	0.20	0.26	0.51	0.90	0.36	0.72	2.62	1.48	0.39	0.10	0.09	0.04		
18	0.20	0.33	0.60	0.66	0.51	0.51	1.83	1.76	0.39	0.09	0.09	0.04		
19	0.18	0.30	0.54	0.57	0.54	0.42	1.55	1.34	0.39	0.08	0.08	0.03		
20	0.18	0.33	0.48	0.54	0.42	0.33	10.66	1.14	0.33	0.08	0.08	0.02		
21	0.18	0.42	0.51	0.51	0.30	0.28	5.64	1.02	0.33	0.12	0.08	0.03		
22	0.18	0.45	0.51	0.78	0.28	0.26	2.62	0.90	0.30	0.18	0.08	0.03		
23	0.20	0.45	0.51	1.27	0.26	0.22	1.99	0.84	0.28	0.16	0.08	0.04		
24	0.20	0.48	0.84	1.02	0.33	0.20	1.62	0.78	0.26	0.12	0.07	0.05		
25	0.20	0.51	1.55	0.78	0.60	0.22	1.48	0.72	0.24	0.16	0.07	0.06		
26	0.20	0.51	1.27	0.66	0.57	0.28	1.83	0.66	0.22	0.14	0.07	0.06		
27	0.20	0.39	1.02	0.57	0.60	0.28	1.48	0.66	0.22	0.12	0.07	0.07		
28	0.20	0.39	0.84	0.66	0.84	0.28	1.20	0.60	0.18	0.16	0.07	0.07		
29	0.20	0.39	0.60	0.60	0.78	0.28	1.08	0.60	0.20	0.12		0.07		
30	0.22	0.33	0.54	0.54	0.96	0.28	1.27	0.60	0.16	0.10		0.06		
31		0.30		0.51	0.66		1.02		0.14	0.09		0.06		
Total	6.58	11.05	15.98	19.09	16.65	10.39	92.33	100.35	14.36	3.95	2.20	1.57	294.50	CMSDAY
Mean	0.22	0.36	0.53	0.62	0.54	0.35	2.98	3.35	0.46	0.13	0.08	0.05	0.81	CMS
Max	0.28	1.48	1.55	1.27	0.96	0.72	18.20	13.74	1.48	0.24	0.10	0.07	18.20	CMS
Min	0.18	0.18	0.24	0.45	0.20	0.20	0.54	0.60	0.14	0.08	0.07	0.02	0.02	CMS
Runoff	0.57	0.96	1.38	1.65	1.44	0.90	7.98	8.67	1.24	0.34	0.19	0.14	25.45	MCM

Momentary Peak 62.72 CMS. at 10.35 m. (MSL.) at 18.00 Hours , on Oct 14, 2014

Runoff Yield 6.45 Liters/Second/Square KM. Momentary Peak Yield 501.760 Liters/Second/Square KM.

WATER YEAR : 2014

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

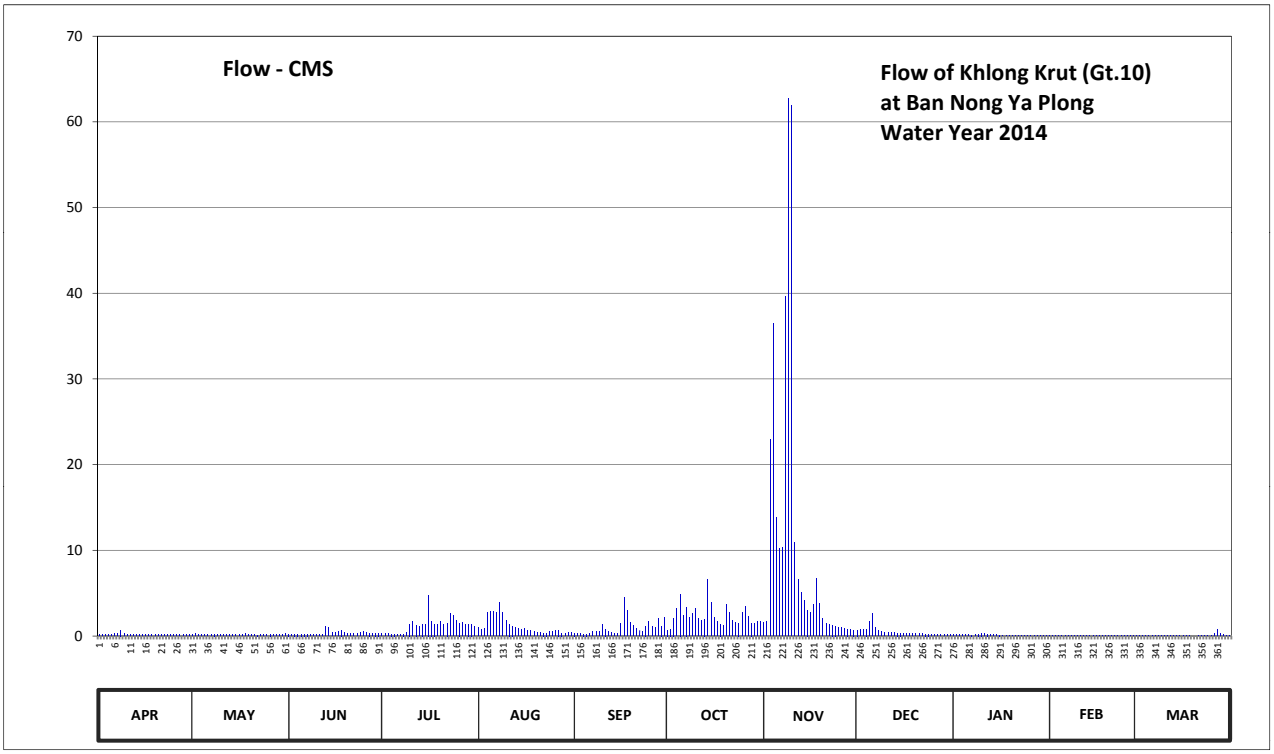
Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	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**	+30.364 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.77	23.79	23.83	23.90	24.18	23.93	24.10	24.36	24.10	23.79	23.65	23.62	
2	23.77	23.86	23.82	23.88	24.12	23.89	24.14	24.37	24.11	23.79	23.65	23.62	
3	23.76	23.79	23.83	23.86	24.15	23.87	24.46	25.91	24.12	23.78	23.66	23.63	
4	23.76	23.77	23.84	23.84	24.57	23.84	24.64	26.37	24.14	23.78	23.65	23.63	
5	23.79	23.79	23.84	23.83	24.59	23.83	24.85	25.48	24.38	23.77	23.65	23.63	
6	23.90	23.77	23.83	23.81	24.59	23.90	24.52	25.26	24.56	23.75	23.65	23.62	
7	23.88	23.80	23.83	23.81	24.57	24.02	24.67	25.27	24.21	23.73	23.66	23.62	
8	24.10	23.83	23.82	23.83	24.74	24.02	24.48	26.46	24.09	23.75	23.65	23.62	
9	23.85	23.78	23.79	23.95	24.58	24.05	24.56	27.04	24.04	23.83	23.65	23.61	
10	23.81	23.77	23.78	24.31	24.40	24.30	24.64	27.02	24.00	23.93	23.65	23.68	
11	23.79	23.79	23.75	24.38	24.31	24.14	24.45	25.31	23.96	23.86	23.65	23.61	
12	23.78	23.81	23.79	24.28	24.25	24.02	24.40	25.00	23.94	23.83	23.64	23.61	
13	23.77	23.82	24.24	24.22	24.20	23.97	24.44	24.87	23.94	23.80	23.64	23.62	
14	23.76	23.77	24.19	24.31	24.15	23.92	25.00	24.77	23.93	23.78	23.65	23.62	
15	23.76	23.75	24.00	24.30	24.11	23.91	24.74	24.62	23.93	23.74	23.65	23.62	
16	23.82	23.74	24.00	24.84	24.16	24.33	24.47	24.58	23.92	23.72	23.65	23.62	
17	23.79	23.80	24.02	24.39	24.09	24.81	24.38	24.71	23.90	23.71	23.65	23.62	
18	23.77	23.89	24.10	24.31	24.08	24.61	24.31	25.01	23.88	23.70	23.64	23.61	
19	23.77	23.77	23.95	24.29	24.03	24.36	24.27	24.72	23.87	23.70	23.64	23.60	
20	23.76	23.76	23.92	24.38	23.99	24.26	24.71	24.45	23.87	23.70	23.66	23.60	
21	23.75	23.75	23.89	24.29	23.94	24.17	24.58	24.32	23.86	23.70	23.64	23.61	
22	23.75	23.73	23.88	24.34	23.93	24.09	24.41	24.29	23.85	23.69	23.64	23.61	
23	23.74	23.74	23.89	24.55	23.93	24.05	24.36	24.28	23.84	23.70	23.64	23.61	
24	23.74	23.76	23.99	24.52	24.01	24.25	24.34	24.25	23.83	23.68	23.64	23.61	
25	23.74	23.79	24.01	24.40	24.04	24.37	24.57	24.21	23.82	23.66	23.63	23.64	
26	23.75	23.83	24.00	24.34	24.07	24.23	24.68	24.18	23.81	23.65	23.62	23.89	
27	23.74	23.82	23.93	24.35	24.10	24.18	24.50	24.17	23.81	23.65	23.62	24.12	
28	23.74	23.80	23.89	24.29	23.93	24.45	24.34	24.14	23.81	23.64	23.63	23.90	
29	23.74	23.79	23.93	24.31	23.90	24.25	24.33	24.12	23.80	23.64		23.75	
30	23.80	23.77	23.93	24.31	23.99	24.47	24.38	24.10	23.80	23.64		23.70	
31		23.87		24.23	24.00		24.38		23.79	23.64		23.67	
Mean	23.79	23.79	23.92	24.21	24.18	24.15	24.49	24.92	23.96	23.73	23.64	23.66	
Max	24.10	23.89	24.24	24.84	24.74	24.81	25.00	27.04	24.56	23.93	23.66	24.12	27.04
Min	23.74	23.73	23.75	23.81	23.90	23.83	24.10	24.10	23.79	23.64	23.62	23.60	23.60

Annual Max Momentary Gage Height	27.14	m. (MSL.) ,	at 18.00 Hours , on Nov 9 , 2014		
Zero Gage at Bottom Elevation	25.36	m. (MSL.) ,	River Bed	23.68	m. (MSL.)
Left Bank Elevation	29.29	m. (MSL.) ,			
Right Bank Elevation	29.56	m. (MSL.) ,	Drainage Area	113	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.19	0.23	0.30	0.94	0.35	0.70	1.62	0.70	0.19	0.05	0.02		
2	0.17	0.26	0.22	0.28	0.76	0.29	0.82	1.67	0.73	0.19	0.05	0.02		
3	0.16	0.19	0.23	0.26	0.85	0.27	2.10	22.97	0.76	0.18	0.06	0.03		
4	0.16	0.17	0.24	0.24	2.72	0.24	3.18	36.48	0.82	0.18	0.05	0.03		
5	0.19	0.19	0.24	0.23	2.84	0.23	4.90	13.84	1.71	0.17	0.05	0.03		
6	0.30	0.17	0.23	0.21	2.84	0.30	2.42	10.20	2.66	0.15	0.05	0.02		
7	0.28	0.20	0.23	0.21	2.72	0.50	3.39	10.35	1.03	0.13	0.06	0.02		
8	0.70	0.23	0.22	0.23	3.92	0.50	2.20	39.66	0.67	0.15	0.05	0.02		
9	0.25	0.18	0.19	0.38	2.78	0.57	2.66	62.72	0.55	0.23	0.05	0.01		
10	0.21	0.17	0.18	1.40	1.80	1.35	3.18	61.86	0.45	0.35	0.05	0.08		
11	0.19	0.19	0.15	1.71	1.40	0.82	2.05	10.96	0.39	0.26	0.05	0.01		
12	0.18	0.21	0.19	1.28	1.18	0.50	1.80	6.60	0.36	0.23	0.04	0.01		
13	0.17	0.22	1.14	1.07	1.00	0.40	2.00	5.10	0.36	0.20	0.04	0.02		
14	0.16	0.17	0.97	1.40	0.85	0.33	6.60	4.16	0.35	0.18	0.05	0.02		
15	0.16	0.15	0.45	1.35	0.73	0.32	3.92	3.04	0.35	0.14	0.05	0.02		
16	0.22	0.14	0.45	4.80	0.88	1.49	2.15	2.78	0.33	0.12	0.05	0.02		
17	0.19	0.20	0.50	1.75	0.67	4.50	1.71	3.68	0.30	0.11	0.05	0.02		
18	0.17	0.29	0.70	1.40	0.65	2.97	1.40	6.73	0.28	0.10	0.04	0.01		
19	0.17	0.17	0.38	1.32	0.53	1.62	1.25	3.76	0.27	0.10	0.04	0.00		
20	0.16	0.16	0.33	1.71	0.43	1.21	3.68	2.05	0.27	0.10	0.06	0.00		
21	0.15	0.15	0.29	1.32	0.36	0.91	2.78	1.44	0.26	0.10	0.04	0.01		
22	0.15	0.13	0.28	1.53	0.35	0.67	1.85	1.32	0.25	0.09	0.04	0.01		
23	0.14	0.14	0.29	2.60	0.35	0.57	1.62	1.28	0.24	0.10	0.04	0.01		
24	0.14	0.16	0.43	2.42	0.48	1.18	1.53	1.18	0.23	0.08	0.04	0.01		
25	0.14	0.19	0.48	1.80	0.55	1.67	2.72	1.03	0.22	0.06	0.03	0.04		
26	0.15	0.23	0.45	1.53	0.62	1.10	3.46	0.94	0.21	0.05	0.02	0.29		
27	0.14	0.22	0.35	1.58	0.70	0.94	2.30	0.91	0.21	0.05	0.02	0.76		
28	0.14	0.20	0.29	1.32	0.35	2.05	1.53	0.82	0.21	0.04	0.03	0.30		
29	0.14	0.19	0.35	1.40	0.30	1.18	1.49	0.76	0.20	0.04		0.15		
30	0.20	0.17	0.35	1.40	0.43	2.15	1.71	0.70	0.20	0.04		0.10		
31		0.27		1.10	0.45		1.71		0.19	0.04		0.07		
Total	5.85	5.90	11.03	39.53	35.43	31.18	74.81	320.61	15.76	4.15	1.25	2.16	547.66	CMSDAY
Mean	0.19	0.19	0.37	1.28	1.14	1.04	2.41	10.69	0.51	0.13	0.04	0.07	1.50	CMS
Max	0.70	0.29	1.14	4.80	3.92	4.50	6.60	62.72	2.66	0.35	0.06	0.76	62.72	CMS
Min	0.14	0.13	0.15	0.21	0.30	0.23	0.70	0.70	0.19	0.04	0.02	0.00	0.00	CMS
Runoff	0.51	0.51	0.95	3.42	3.06	2.69	6.46	27.70	1.36	0.36	0.11	0.19	47.32	MCM

Momentary Peak 67.28 CMS. at 27.14 m. (MSL.) at 18.00 Hours , on Nov 9, 2014

Runoff Yield 13.28 Liters/Second/Square KM. Momentary Peak Yield 595.398 Liters/Second/Square KM.

WATER YEAR : 2014

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

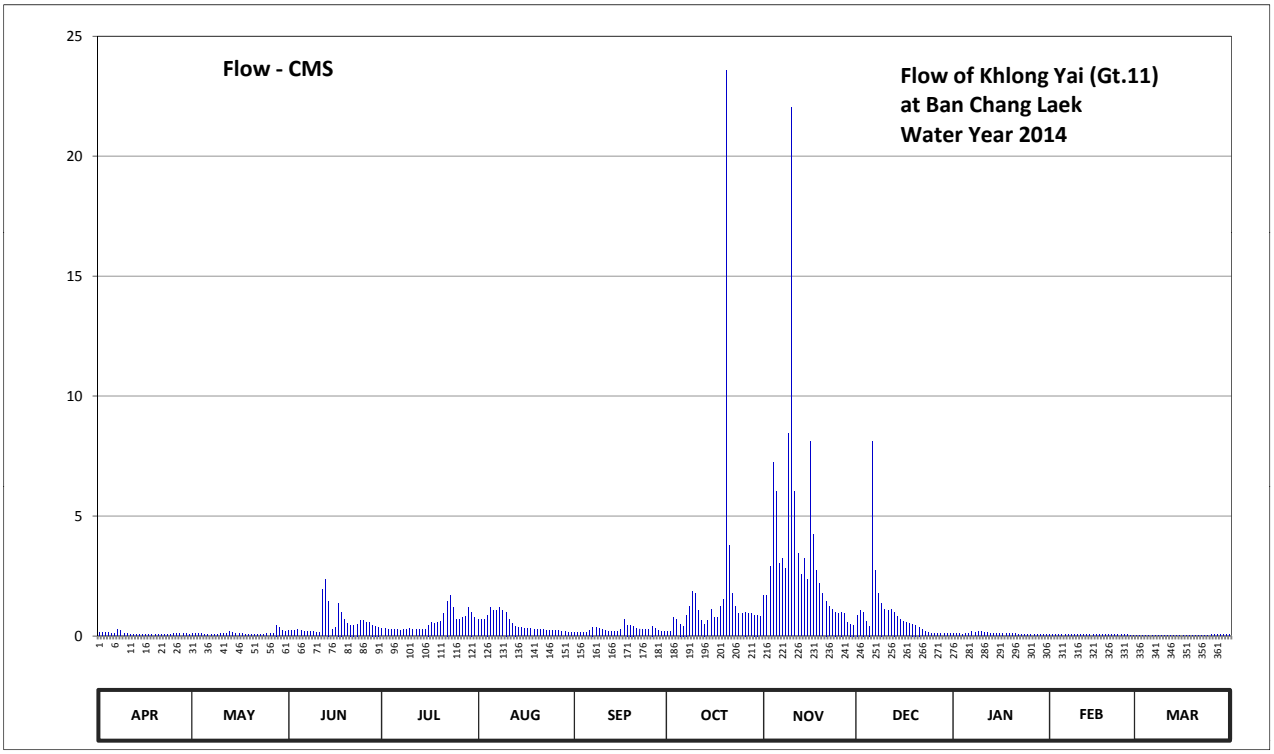
Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	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**	+45.340 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Flot	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.03	36.97	37.07	37.10	37.20	37.03	37.04	37.35	37.23	36.97	36.94	36.89	
2	37.03	36.97	37.06	37.10	37.20	37.03	37.05	37.35	37.26	36.97	36.93	36.89	
3	37.02	36.97	37.06	37.09	37.20	37.03	37.21	37.50	37.25	36.97	36.92	36.89	
4	37.02	36.97	37.08	37.09	37.23	37.02	37.20	37.86	37.18	36.96	36.92	36.89	
5	37.01	36.96	37.06	37.08	37.28	37.02	37.15	37.77	37.13	36.98	36.92	36.89	
6	37.01	36.96	37.05	37.08	37.26	37.06	37.13	37.51	37.92	37.01	36.92	36.88	
7	37.09	36.96	37.05	37.07	37.26	37.12	37.23	37.53	37.48	37.04	36.92	36.88	
8	37.06	36.96	37.04	37.08	37.28	37.11	37.29	37.49	37.36	37.03	36.92	36.88	
9	36.99	36.96	37.04	37.09	37.26	37.10	37.37	37.94	37.31	37.04	36.92	36.88	
10	36.97	37.00	37.03	37.10	37.25	37.08	37.36	38.62	37.27	37.05	36.92	36.88	
11	36.96	36.98	37.02	37.09	37.20	37.06	37.26	37.77	37.26	37.03	36.92	36.88	
12	36.96	37.00	37.38	37.09	37.16	37.05	37.19	37.55	37.27	37.02	36.92	36.88	
13	36.96	37.05	37.43	37.09	37.13	37.05	37.15	37.46	37.25	36.99	36.92	36.89	
14	36.96	37.02	37.32	37.09	37.11	37.05	37.19	37.53	37.22	36.99	36.95	36.89	
15	36.95	36.99	37.09	37.09	37.11	37.04	37.27	37.43	37.20	36.98	36.95	36.89	
16	36.95	36.98	37.11	37.14	37.10	37.09	37.21	37.92	37.18	36.98	36.93	36.89	
17	36.95	36.97	37.31	37.17	37.10	37.20	37.21	37.62	37.17	36.97	36.92	36.89	
18	36.95	36.96	37.25	37.16	37.10	37.14	37.29	37.48	37.16	36.97	36.92	36.89	
19	36.94	36.96	37.20	37.17	37.09	37.14	37.33	37.41	37.15	36.97	36.91	36.89	
20	36.94	36.96	37.16	37.18	37.08	37.13	38.68	37.36	37.14	36.97	36.92	36.88	
21	36.94	36.95	37.14	37.24	37.08	37.10	37.58	37.32	37.12	36.97	36.91	36.89	
22	36.93	36.95	37.14	37.32	37.08	37.10	37.36	37.29	37.09	36.96	36.90	36.89	
23	36.93	36.95	37.15	37.35	37.07	37.09	37.29	37.27	37.05	36.96	36.90	36.89	
24	36.93	36.95	37.19	37.28	37.07	37.08	37.24	37.25	37.02	36.96	36.90	36.89	
25	37.00	36.97	37.19	37.20	37.07	37.08	37.24	37.24	37.00	36.96	36.90	36.92	
26	36.98	37.01	37.17	37.20	37.06	37.13	37.25	37.25	37.00	36.96	36.90	36.91	
27	36.97	37.01	37.17	37.21	37.06	37.10	37.24	37.24	37.00	36.96	36.89	36.91	
28	36.97	37.14	37.14	37.22	37.05	37.07	37.24	37.17	37.00	36.95	36.89	36.91	
29	36.97	37.11	37.13	37.28	37.04	37.05	37.23	37.15	36.99	36.95		36.91	
30	36.96	37.07	37.12	37.25	37.03	37.05	37.23	37.14	36.99	36.95		36.91	
31		37.04		37.21	37.03		37.22		36.98	36.95		36.91	
Mean	36.98	36.99	37.15	37.16	37.14	37.08	37.29	37.49	37.18	36.98	36.92	36.89	
Max	37.09	37.14	37.43	37.35	37.28	37.20	38.68	38.62	37.92	37.05	36.95	36.92	38.68
Min	36.93	36.95	37.02	37.07	37.03	37.02	37.04	37.14	36.98	36.95	36.89	36.88	36.88

Annual Max Momentary Gage Height	39.75	m. (MSL.) ,	at 13.00 Hours , on Oct 20, 2014		
Zero Gage at Bottom Elevation	36.38	m. (MSL.) ,	River Bed	36.84	m. (MSL.)
Left Bank Elevation	44.70	m. (MSL.) ,			
Right Bank Elevation	43.42	m. (MSL.) ,	Drainage Area	61	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	0.09	0.24	0.30	0.70	0.16	0.18	1.70	0.88	0.09	0.07	0.04		
2	0.16	0.09	0.22	0.30	0.70	0.16	0.20	1.70	1.06	0.09	0.07	0.04		
3	0.14	0.09	0.22	0.28	0.70	0.16	0.76	2.90	1.00	0.09	0.06	0.04		
4	0.14	0.09	0.26	0.28	0.88	0.14	0.70	7.24	0.62	0.08	0.06	0.04		
5	0.12	0.08	0.22	0.26	1.18	0.14	0.50	6.01	0.42	0.09	0.06	0.04		
6	0.12	0.08	0.20	0.26	1.06	0.22	0.42	3.01	8.12	0.12	0.06	0.04		
7	0.28	0.08	0.20	0.24	1.06	0.38	0.88	3.23	2.74	0.18	0.06	0.04		
8	0.22	0.08	0.18	0.26	1.18	0.34	1.24	2.82	1.78	0.16	0.06	0.04		
9	0.10	0.08	0.18	0.28	1.06	0.30	1.86	8.44	1.38	0.18	0.06	0.04		
10	0.09	0.10	0.16	0.30	1.00	0.26	1.78	22.02	1.12	0.20	0.06	0.04		
11	0.08	0.09	0.14	0.28	0.70	0.22	1.06	6.01	1.06	0.16	0.06	0.04		
12	0.08	0.10	1.94	0.28	0.54	0.20	0.66	3.45	1.12	0.14	0.06	0.04		
13	0.08	0.20	2.34	0.28	0.42	0.20	0.50	2.58	1.00	0.10	0.06	0.04		
14	0.08	0.14	1.46	0.28	0.34	0.20	0.66	3.23	0.82	0.10	0.08	0.04		
15	0.08	0.10	0.28	0.28	0.34	0.18	1.12	2.34	0.70	0.09	0.08	0.04		
16	0.08	0.09	0.34	0.46	0.30	0.28	0.76	8.12	0.62	0.09	0.07	0.04		
17	0.08	0.09	1.38	0.58	0.30	0.70	0.76	4.22	0.58	0.09	0.06	0.04		
18	0.08	0.08	1.00	0.54	0.30	0.46	1.24	2.74	0.54	0.09	0.06	0.04		
19	0.07	0.08	0.70	0.58	0.28	0.46	1.54	2.18	0.50	0.09	0.06	0.04		
20	0.07	0.08	0.54	0.62	0.26	0.42	23.58	1.78	0.46	0.09	0.06	0.04		
21	0.07	0.08	0.46	0.94	0.26	0.30	3.78	1.46	0.38	0.09	0.06	0.04		
22	0.07	0.08	0.46	1.46	0.26	0.30	1.78	1.24	0.28	0.08	0.05	0.04		
23	0.07	0.08	0.50	1.70	0.24	0.28	1.24	1.12	0.20	0.08	0.05	0.04		
24	0.07	0.08	0.66	1.18	0.24	0.26	0.94	1.00	0.14	0.08	0.05	0.04		
25	0.10	0.09	0.66	0.70	0.24	0.26	0.94	0.94	0.10	0.08	0.05	0.06		
26	0.09	0.12	0.58	0.70	0.22	0.42	1.00	1.00	0.10	0.08	0.05	0.06		
27	0.09	0.12	0.58	0.76	0.22	0.30	0.94	0.94	0.10	0.08	0.04	0.06		
28	0.09	0.46	0.46	0.82	0.20	0.24	0.94	0.58	0.10	0.08	0.04	0.06		
29	0.09	0.34	0.42	1.18	0.18	0.20	0.88	0.50	0.10	0.08		0.06		
30	0.08	0.24	0.38	1.00	0.16	0.20	0.88	0.46	0.10	0.08		0.06		
31		0.18		0.76	0.16		0.82		0.09	0.08		0.06		
Total	3.13	3.78	17.36	18.14	15.68	8.34	54.54	104.96	28.21	3.21	1.66	1.38	260.39	CMSDAY
Mean	0.10	0.12	0.58	0.59	0.51	0.28	1.76	3.50	0.91	0.10	0.06	0.04	0.71	CMS
Max	0.28	0.46	2.34	1.70	1.18	0.70	23.58	22.02	8.12	0.20	0.08	0.06	23.58	CMS
Min	0.07	0.08	0.14	0.24	0.16	0.14	0.18	0.46	0.09	0.08	0.04	0.04	0.04	CMS
Runoff	0.27	0.33	1.50	1.57	1.36	0.72	4.71	9.07	2.44	0.28	0.14	0.12	22.50	MCM

Momentary Peak 65.95 CMS. at 39.75 m. (MSL.) at 13.00 Hours , on Oct 20, 2014

Runoff Yield 11.70 Liters/Second/Square KM. Momentary Peak Yield 1081.148 Liters/Second/Square KM.

WATER YEAR : 2014

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.

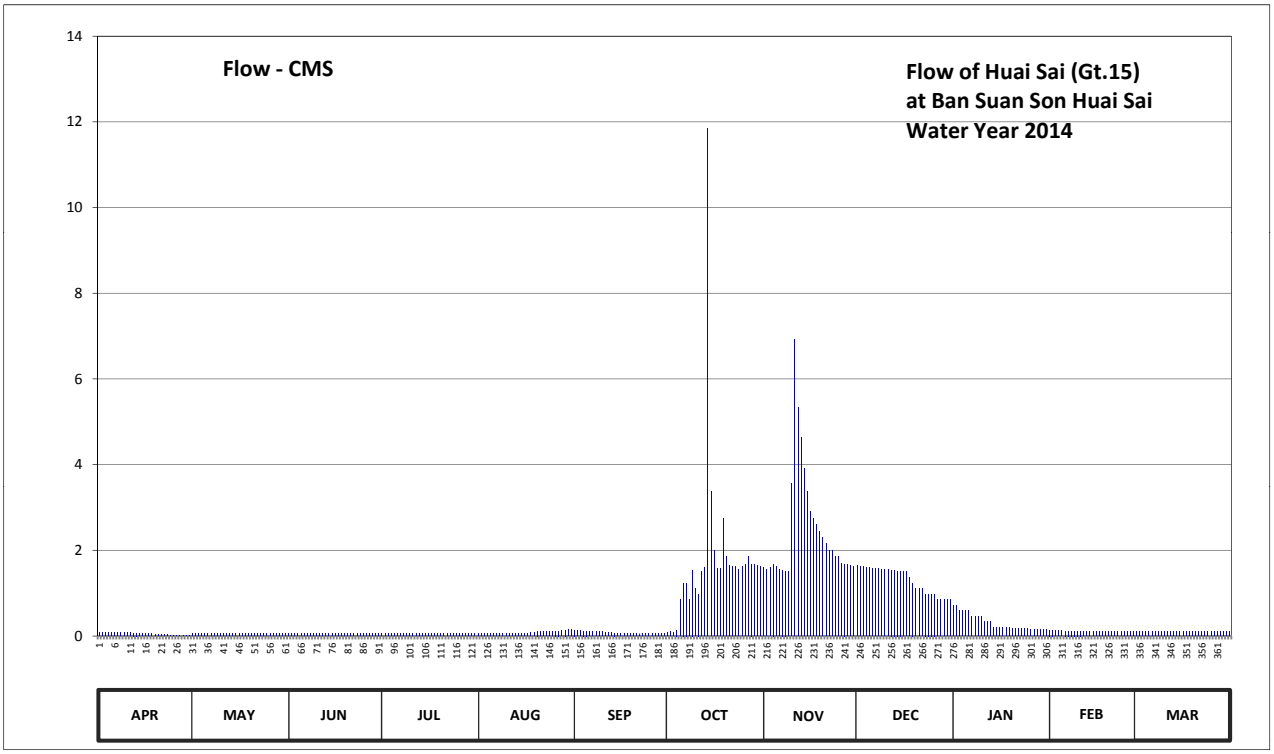
Ban Suan Son Huai Sai **Amphoe** Mueang **Changwat** Prachuap Khiri Khan

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 Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.58	15.56	15.56	15.56	15.56	15.64	15.58	15.85	15.87	15.74	15.64	15.61	
2	15.58	15.56	15.56	15.56	15.56	15.63	15.61	15.83	15.86	15.74	15.64	15.61	
3	15.58	15.56	15.56	15.56	15.56	15.63	15.59	15.85	15.86	15.73	15.63	15.61	
4	15.58	15.56	15.56	15.56	15.56	15.62	15.64	15.89	15.85	15.73	15.63	15.61	
5	15.58	15.56	15.56	15.56	15.56	15.62	15.75	15.86	15.85	15.73	15.63	15.61	
6	15.58	15.56	15.56	15.56	15.56	15.61	15.78	15.83	15.84	15.73	15.62	15.61	
7	15.58	15.56	15.56	15.56	15.56	15.61	15.78	15.82	15.84	15.72	15.62	15.61	
8	15.58	15.56	15.56	15.56	15.56	15.61	15.75	15.81	15.84	15.72	15.62	15.61	
9	15.58	15.56	15.56	15.56	15.56	15.60	15.82	15.80	15.83	15.72	15.62	15.61	
10	15.58	15.56	15.56	15.56	15.56	15.60	15.77	16.02	15.83	15.72	15.62	15.61	
11	15.58	15.56	15.56	15.56	15.56	15.59	15.76	16.21	15.83	15.71	15.62	15.60	
12	15.57	15.56	15.56	15.56	15.56	15.59	15.80	16.12	15.82	15.71	15.61	15.60	
13	15.57	15.56	15.56	15.56	15.56	15.58	15.85	16.08	15.82	15.71	15.61	15.60	
14	15.56	15.56	15.56	15.56	15.56	15.57	16.42	16.04	15.81	15.70	15.61	15.60	
15	15.56	15.56	15.56	15.56	15.56	15.56	16.01	16.01	15.81	15.70	15.61	15.60	
16	15.55	15.56	15.56	15.56	15.56	15.56	15.92	15.98	15.80	15.70	15.61	15.60	
17	15.55	15.56	15.56	15.56	15.56	15.56	15.84	15.97	15.80	15.69	15.61	15.60	
18	15.55	15.56	15.56	15.56	15.59	15.56	15.84	15.96	15.79	15.69	15.61	15.60	
19	15.54	15.56	15.56	15.56	15.58	15.56	15.97	15.95	15.78	15.69	15.61	15.60	
20	15.54	15.56	15.56	15.56	15.62	15.56	15.91	15.94	15.77	15.68	15.61	15.60	
21	15.53	15.56	15.56	15.56	15.60	15.56	15.87	15.93	15.77	15.68	15.61	15.60	
22	15.53	15.56	15.56	15.56	15.60	15.56	15.86	15.92	15.77	15.68	15.61	15.60	
23	15.53	15.56	15.56	15.56	15.61	15.56	15.86	15.92	15.76	15.67	15.61	15.60	
24	15.52	15.56	15.56	15.56	15.61	15.56	15.83	15.91	15.76	15.67	15.61	15.60	
25	15.52	15.56	15.56	15.56	15.61	15.56	15.86	15.91	15.76	15.67	15.61	15.60	
26	15.52	15.56	15.56	15.56	15.62	15.56	15.88	15.90	15.76	15.66	15.61	15.60	
27	15.52	15.56	15.56	15.56	15.62	15.56	15.91	15.89	15.75	15.66	15.61	15.60	
28	15.52	15.56	15.56	15.56	15.63	15.56	15.89	15.88	15.75	15.66	15.61	15.60	
29	15.52	15.56	15.56	15.56	15.64	15.56	15.88	15.87	15.75	15.65		15.60	
30	15.52	15.56	15.56	15.56	15.65	15.56	15.87	15.86	15.75	15.65		15.60	
31		15.56		15.56	15.65		15.86		15.75	15.65		15.60	
Mean	15.55	15.56	15.56	15.56	15.59	15.58	15.84	15.93	15.80	15.70	15.62	15.60	
Max	15.58	15.56	15.56	15.56	15.65	15.64	16.42	16.21	15.87	15.74	15.64	15.61	16.42
Min	15.52	15.56	15.56	15.56	15.56	15.56	15.58	15.80	15.75	15.65	15.61	15.60	15.52

Annual Max Momentary Gage Height	16.83	m. (MSL.) ,	at 09.00 Hours , on Oct 14, 2014		
Zero Gage at Bottom Elevation	15.86	m. (MSL.) ,	River Bed	15.34	m. (MSL.)
Left Bank Elevation	21.18	m. (MSL.) ,			
Right Bank Elevation	21.24	m. (MSL.) ,	Drainage Area	25	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.06	0.06	0.06	0.06	0.14	0.08	1.60	1.64	0.72	0.14	0.11		
2	0.08	0.06	0.06	0.06	0.06	0.13	0.11	1.56	1.62	0.72	0.14	0.11		
3	0.08	0.06	0.06	0.06	0.06	0.13	0.09	1.60	1.62	0.59	0.13	0.11		
4	0.08	0.06	0.06	0.06	0.06	0.12	0.14	1.68	1.60	0.59	0.13	0.11		
5	0.08	0.06	0.06	0.06	0.06	0.12	0.85	1.62	1.60	0.59	0.13	0.11		
6	0.08	0.06	0.06	0.06	0.06	0.11	1.24	1.56	1.58	0.59	0.12	0.11		
7	0.08	0.06	0.06	0.06	0.06	0.11	1.24	1.54	1.58	0.46	0.12	0.11		
8	0.08	0.06	0.06	0.06	0.06	0.11	0.85	1.52	1.58	0.46	0.12	0.11		
9	0.08	0.06	0.06	0.06	0.06	0.10	1.54	1.50	1.56	0.46	0.12	0.11		
10	0.08	0.06	0.06	0.06	0.06	0.10	1.11	3.56	1.56	0.46	0.12	0.11		
11	0.08	0.06	0.06	0.06	0.06	0.09	0.98	6.93	1.56	0.33	0.12	0.10		
12	0.07	0.06	0.06	0.06	0.06	0.09	1.50	5.34	1.54	0.33	0.11	0.10		
13	0.07	0.06	0.06	0.06	0.06	0.08	1.60	4.64	1.54	0.33	0.11	0.10		
14	0.06	0.06	0.06	0.06	0.06	0.07	11.84	3.92	1.52	0.20	0.11	0.10		
15	0.06	0.06	0.06	0.06	0.06	0.06	3.38	3.38	1.52	0.20	0.11	0.10		
16	0.05	0.06	0.06	0.06	0.06	0.06	2.00	2.90	1.50	0.20	0.11	0.10		
17	0.05	0.06	0.06	0.06	0.06	0.06	1.58	2.75	1.50	0.19	0.11	0.10		
18	0.05	0.06	0.06	0.06	0.09	0.06	1.58	2.60	1.37	0.19	0.11	0.10		
19	0.04	0.06	0.06	0.06	0.08	0.06	2.75	2.45	1.24	0.19	0.11	0.10		
20	0.04	0.06	0.06	0.06	0.12	0.06	1.85	2.30	1.11	0.18	0.11	0.10		
21	0.03	0.06	0.06	0.06	0.10	0.06	1.64	2.15	1.11	0.18	0.11	0.10		
22	0.03	0.06	0.06	0.06	0.10	0.06	1.62	2.00	1.11	0.18	0.11	0.10		
23	0.03	0.06	0.06	0.06	0.11	0.06	1.62	2.00	0.98	0.17	0.11	0.10		
24	0.02	0.06	0.06	0.06	0.11	0.06	1.56	1.85	0.98	0.17	0.11	0.10		
25	0.02	0.06	0.06	0.06	0.11	0.06	1.62	1.85	0.98	0.17	0.11	0.10		
26	0.02	0.06	0.06	0.06	0.12	0.06	1.66	1.70	0.98	0.16	0.11	0.10		
27	0.02	0.06	0.06	0.06	0.12	0.06	1.85	1.68	0.85	0.16	0.11	0.10		
28	0.02	0.06	0.06	0.06	0.13	0.06	1.68	1.66	0.85	0.16	0.11	0.10		
29	0.02	0.06	0.06	0.06	0.14	0.06	1.66	1.64	0.85	0.15		0.10		
30	0.02	0.06	0.06	0.06	0.15	0.06	1.64	1.62	0.85	0.15		0.10		
31		0.06		0.06	0.15		1.62		0.85	0.15		0.10		
Total	1.60	1.86	1.80	1.86	2.65	2.46	54.48	73.10	40.73	9.78	3.26	3.20	196.78	CMSDAY
Mean	0.05	0.06	0.06	0.06	0.09	0.08	1.76	2.44	1.31	0.32	0.12	0.10	0.54	CMS
Max	0.08	0.06	0.06	0.06	0.15	0.14	11.84	6.93	1.64	0.72	0.14	0.11	11.84	CMS
Min	0.02	0.06	0.06	0.06	0.06	0.06	0.08	1.50	0.85	0.15	0.11	0.10	0.02	CMS
Runoff	0.14	0.16	0.16	0.16	0.23	0.21	4.71	6.32	3.52	0.85	0.28	0.28	17.00	MCM

Momentary Peak 24.34 CMS. at 16.83 m. (MSL.) at 09.00 Hours , on Oct 14, 2014

Runoff Yield 21.56 Liters/Second/Square KM. Momentary Peak Yield 973.600 Liters/Second/Square KM.

WATER YEAR : 2014

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

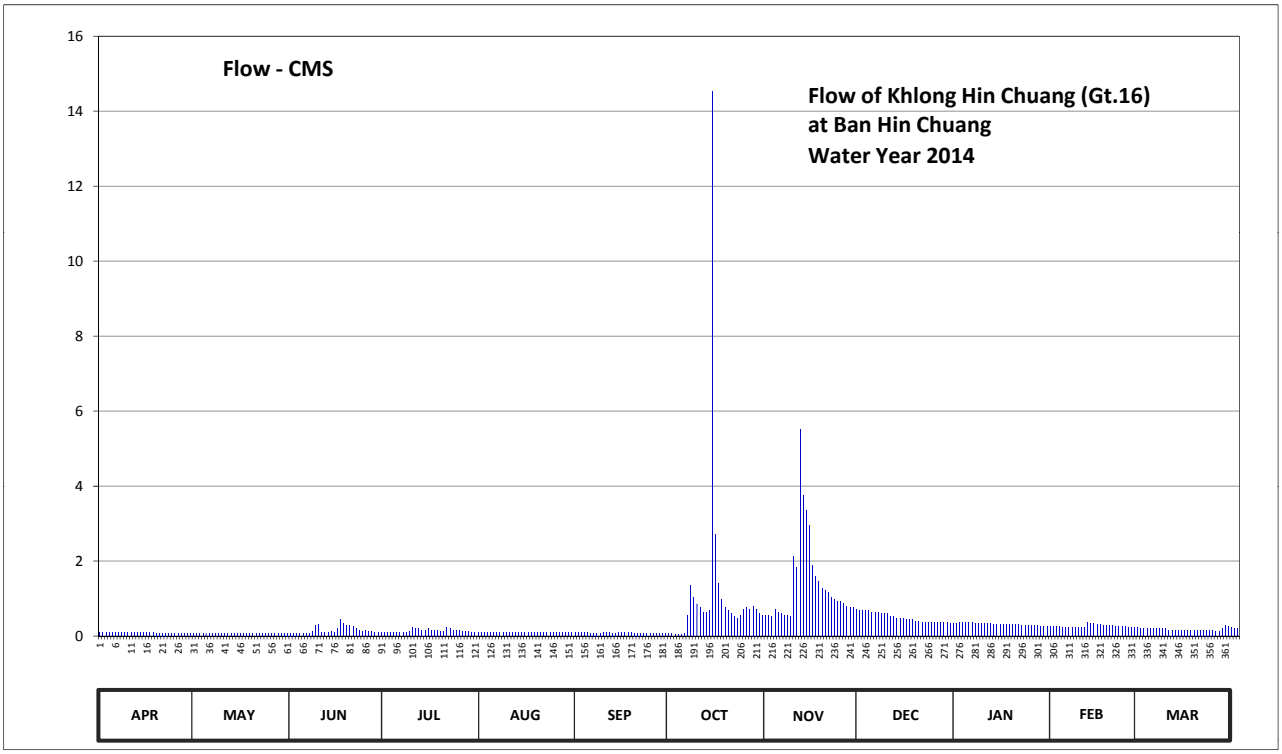
Location : on right bank at the abutment of the bridge.

	Ban Hin Chuang	**Amphoe** Mueang	**Changwat** Prachuap Khiri Khan
Drainge Area	48 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+10.873 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.		**Elevation** +17.808 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.50	11.43	11.45	11.50	11.49	11.48	11.41	11.64	11.67	11.59	11.55	11.53	
2	11.50	11.43	11.45	11.49	11.49	11.48	11.40	11.63	11.67	11.59	11.55	11.53	
3	11.50	11.43	11.45	11.49	11.49	11.47	11.40	11.68	11.67	11.59	11.54	11.53	
4	11.49	11.43	11.44	11.49	11.49	11.47	11.40	11.66	11.66	11.59	11.54	11.53	
5	11.49	11.43	11.44	11.48	11.49	11.46	11.44	11.65	11.66	11.59	11.54	11.53	
6	11.49	11.43	11.44	11.48	11.49	11.46	11.64	11.64	11.66	11.58	11.54	11.53	
7	11.49	11.43	11.45	11.48	11.49	11.46	11.79	11.64	11.65	11.58	11.54	11.53	
8	11.49	11.43	11.51	11.47	11.49	11.46	11.74	11.63	11.65	11.58	11.54	11.53	
9	11.49	11.43	11.56	11.51	11.49	11.48	11.71	11.91	11.65	11.58	11.54	11.52	
10	11.49	11.43	11.57	11.54	11.49	11.47	11.69	11.87	11.63	11.58	11.54	11.52	
11	11.49	11.42	11.49	11.53	11.49	11.47	11.66	12.15	11.63	11.58	11.59	11.52	
12	11.48	11.42	11.49	11.53	11.49	11.46	11.66	12.04	11.62	11.57	11.58	11.52	
13	11.48	11.42	11.50	11.52	11.49	11.46	11.67	12.01	11.62	11.57	11.58	11.52	
14	11.48	11.42	11.51	11.52	11.49	11.47	12.58	11.98	11.62	11.57	11.57	11.52	
15	11.47	11.42	11.47	11.53	11.49	11.47	11.96	11.88	11.61	11.57	11.57	11.52	
16	11.47	11.42	11.53	11.52	11.48	11.47	11.80	11.83	11.61	11.57	11.56	11.52	
17	11.47	11.42	11.61	11.52	11.48	11.47	11.73	11.81	11.61	11.57	11.56	11.52	
18	11.47	11.42	11.58	11.52	11.48	11.47	11.69	11.78	11.60	11.57	11.56	11.52	
19	11.46	11.42	11.56	11.51	11.48	11.46	11.67	11.77	11.60	11.57	11.56	11.52	
20	11.46	11.42	11.56	11.51	11.48	11.46	11.65	11.76	11.59	11.57	11.55	11.52	
21	11.45	11.42	11.55	11.54	11.48	11.45	11.63	11.74	11.59	11.56	11.55	11.52	
22	11.45	11.42	11.53	11.53	11.48	11.44	11.62	11.73	11.59	11.56	11.55	11.52	
23	11.44	11.42	11.52	11.52	11.48	11.43	11.64	11.72	11.59	11.56	11.55	11.52	
24	11.44	11.42	11.51	11.52	11.48	11.43	11.68	11.72	11.59	11.56	11.54	11.51	
25	11.44	11.42	11.52	11.52	11.48	11.43	11.69	11.71	11.59	11.56	11.54	11.51	
26	11.44	11.42	11.51	11.51	11.49	11.43	11.68	11.70	11.59	11.56	11.54	11.53	
27	11.44	11.42	11.51	11.51	11.50	11.43	11.70	11.69	11.59	11.55	11.54	11.56	
28	11.43	11.42	11.50	11.51	11.49	11.42	11.68	11.69	11.59	11.55	11.53	11.55	
29	11.43	11.42	11.50	11.50	11.48	11.42	11.65	11.68	11.58	11.55		11.54	
30	11.43	11.45	11.50	11.50	11.48	11.42	11.64	11.67	11.58	11.55		11.53	
31		11.46		11.49	11.48		11.64		11.58	11.55		11.53	
Mean	11.47	11.43	11.51	11.51	11.49	11.46	11.68	11.77	11.62	11.57	11.55	11.53	
Max	11.50	11.46	11.61	11.54	11.50	11.48	12.58	12.15	11.67	11.59	11.59	11.56	12.58
Min	11.43	11.42	11.44	11.47	11.48	11.42	11.40	11.63	11.58	11.55	11.53	11.51	11.40

Annual Max Momentary Gage Height	13.27	m. (MSL.) ,	at 14.00 Hours , on Oct 14 , 2014		
Zero Gage at Bottom Elevation	10.87	m. (MSL.) ,	River Bed	11.13	m. (MSL.)
Left Bank Elevation	16.55	m. (MSL.) ,			
Right Bank Elevation	15.83	m. (MSL.) ,	Drainage Area	48	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.07	0.08	0.10	0.09	0.09	0.06	0.56	0.68	0.37	0.25	0.19		
2	0.10	0.07	0.08	0.09	0.09	0.09	0.05	0.52	0.68	0.37	0.25	0.19		
3	0.10	0.07	0.08	0.09	0.09	0.09	0.05	0.72	0.68	0.37	0.22	0.19		
4	0.09	0.07	0.07	0.09	0.09	0.09	0.05	0.64	0.64	0.37	0.22	0.19		
5	0.09	0.07	0.07	0.09	0.09	0.08	0.07	0.60	0.64	0.37	0.22	0.19		
6	0.09	0.07	0.07	0.09	0.09	0.08	0.56	0.56	0.64	0.34	0.22	0.19		
7	0.09	0.07	0.08	0.09	0.09	0.08	1.34	0.56	0.60	0.34	0.22	0.19		
8	0.09	0.07	0.13	0.09	0.09	0.08	1.04	0.52	0.60	0.34	0.22	0.19		
9	0.09	0.07	0.28	0.13	0.09	0.09	0.86	2.12	0.60	0.34	0.22	0.16		
10	0.09	0.07	0.31	0.22	0.09	0.09	0.76	1.82	0.52	0.34	0.22	0.16		
11	0.09	0.06	0.09	0.19	0.09	0.09	0.64	5.50	0.52	0.34	0.37	0.16		
12	0.09	0.06	0.09	0.19	0.09	0.08	0.64	3.76	0.48	0.31	0.34	0.16		
13	0.09	0.06	0.10	0.16	0.09	0.08	0.68	3.34	0.48	0.31	0.34	0.16		
14	0.09	0.06	0.13	0.16	0.09	0.09	14.52	2.96	0.48	0.31	0.31	0.16		
15	0.09	0.06	0.09	0.19	0.09	0.09	2.72	1.88	0.44	0.31	0.31	0.16		
16	0.09	0.06	0.19	0.16	0.09	0.09	1.40	1.58	0.44	0.31	0.28	0.16		
17	0.09	0.06	0.44	0.16	0.09	0.09	0.98	1.46	0.44	0.31	0.28	0.16		
18	0.09	0.06	0.34	0.16	0.09	0.09	0.76	1.28	0.40	0.31	0.28	0.16		
19	0.08	0.06	0.28	0.13	0.09	0.08	0.68	1.22	0.40	0.31	0.28	0.16		
20	0.08	0.06	0.28	0.13	0.09	0.08	0.60	1.16	0.37	0.31	0.25	0.16		
21	0.08	0.06	0.25	0.22	0.09	0.08	0.52	1.04	0.37	0.28	0.25	0.16		
22	0.08	0.06	0.19	0.19	0.09	0.07	0.48	0.98	0.37	0.28	0.25	0.16		
23	0.07	0.06	0.16	0.16	0.09	0.07	0.56	0.92	0.37	0.28	0.25	0.16		
24	0.07	0.06	0.13	0.16	0.09	0.07	0.72	0.92	0.37	0.28	0.22	0.13		
25	0.07	0.06	0.16	0.16	0.09	0.07	0.76	0.86	0.37	0.28	0.22	0.13		
26	0.07	0.06	0.13	0.13	0.09	0.07	0.72	0.80	0.37	0.28	0.22	0.19		
27	0.07	0.06	0.13	0.13	0.10	0.07	0.80	0.76	0.37	0.25	0.22	0.28		
28	0.07	0.06	0.10	0.13	0.09	0.06	0.72	0.76	0.37	0.25	0.19	0.25		
29	0.07	0.06	0.10	0.10	0.09	0.06	0.60	0.72	0.34	0.25		0.22		
30	0.07	0.08	0.10	0.10	0.09	0.06	0.56	0.68	0.34	0.25		0.19		
31		0.08		0.09	0.09		0.56		0.34	0.25		0.19		
Total	2.53	2.00	4.73	4.28	2.80	2.40	35.46	41.20	14.71	9.61	7.12	5.50	132.34	CMSDAY
Mean	0.08	0.06	0.16	0.14	0.09	0.08	1.14	1.37	0.47	0.31	0.25	0.18	0.36	CMS
Max	0.10	0.08	0.44	0.22	0.10	0.09	14.52	5.50	0.68	0.37	0.37	0.28	14.52	CMS
Min	0.07	0.06	0.07	0.09	0.09	0.06	0.05	0.52	0.34	0.25	0.19	0.13	0.05	CMS
Runoff	0.22	0.17	0.41	0.37	0.24	0.21	3.06	3.56	1.27	0.83	0.62	0.48	11.43	MCM

Momentary Peak 38.06 CMS. at 13.27 m. (MSL.) at 14.00 Hours , on Oct 14, 2014

Runoff Yield 7.55 Liters/Second/Square KM. Momentary Peak Yield 792.917 Liters/Second/Square KM.

WATER YEAR : 2014

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.

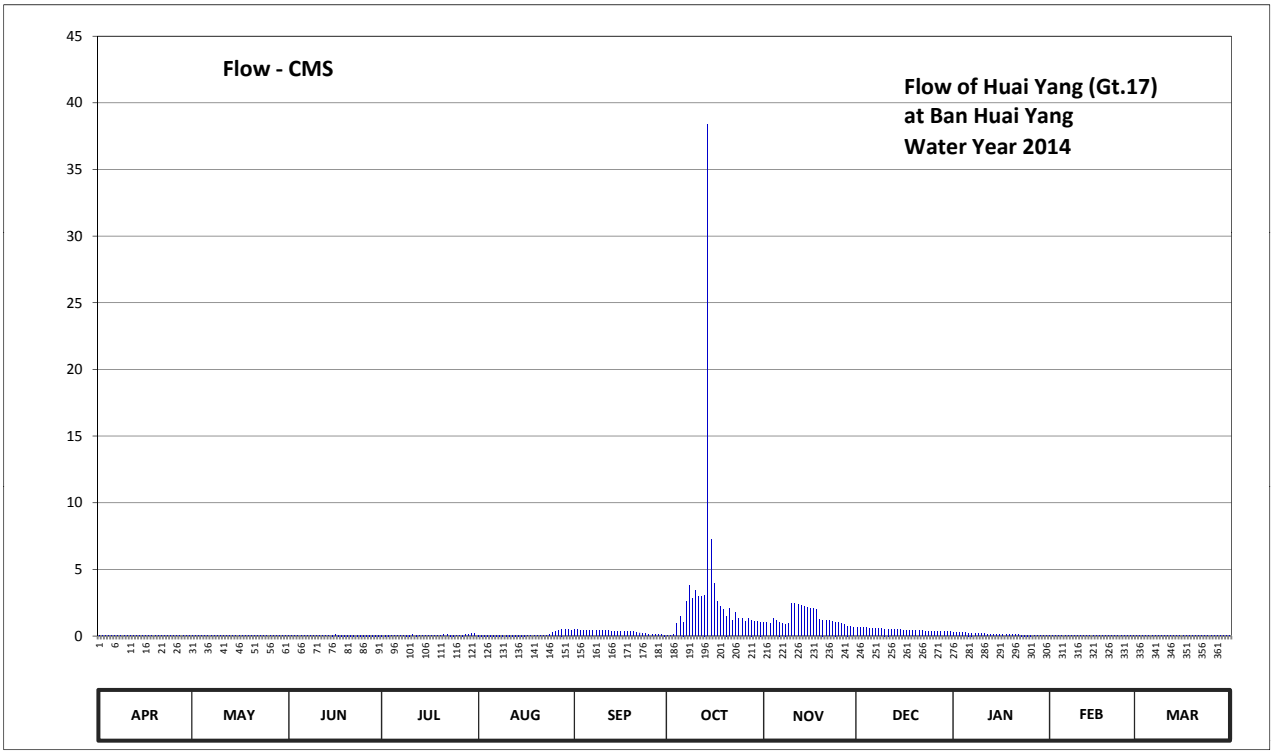
Ban Huai Yang **Amphoe** Thap Sakae **Changwat** Prachuap Khiri Khan

Drainge Area	48 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.619 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +6.367 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Flot	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.21	1.19	1.19	1.25	1.26	1.42	1.24	1.56	1.48	1.36	1.22	1.20	
2	1.21	1.19	1.19	1.25	1.26	1.42	1.24	1.56	1.48	1.36	1.22	1.20	
3	1.21	1.19	1.19	1.25	1.26	1.41	1.29	1.55	1.47	1.35	1.22	1.20	
4	1.21	1.19	1.19	1.24	1.26	1.41	1.55	1.62	1.47	1.35	1.22	1.21	
5	1.21	1.19	1.19	1.24	1.26	1.41	1.64	1.59	1.46	1.35	1.22	1.21	
6	1.20	1.19	1.19	1.24	1.26	1.41	1.57	1.57	1.46	1.34	1.21	1.21	
7	1.20	1.19	1.19	1.24	1.26	1.40	1.80	1.55	1.45	1.34	1.21	1.21	
8	1.20	1.19	1.19	1.24	1.26	1.40	1.90	1.54	1.45	1.33	1.21	1.22	
9	1.20	1.19	1.19	1.25	1.26	1.40	1.82	1.55	1.45	1.33	1.21	1.22	
10	1.20	1.19	1.19	1.25	1.26	1.40	1.87	1.78	1.44	1.32	1.21	1.22	
11	1.20	1.19	1.19	1.27	1.26	1.40	1.83	1.78	1.44	1.32	1.21	1.22	
12	1.20	1.19	1.23	1.26	1.26	1.40	1.83	1.77	1.43	1.31	1.21	1.23	
13	1.20	1.19	1.21	1.24	1.26	1.39	1.84	1.76	1.43	1.31	1.21	1.23	
14	1.20	1.19	1.20	1.24	1.26	1.39	3.40	1.75	1.42	1.30	1.21	1.23	
15	1.20	1.19	1.26	1.24	1.25	1.39	2.14	1.74	1.42	1.30	1.21	1.23	
16	1.20	1.19	1.27	1.24	1.25	1.39	1.91	1.73	1.41	1.30	1.21	1.23	
17	1.20	1.19	1.26	1.24	1.24	1.39	1.80	1.73	1.41	1.29	1.21	1.23	
18	1.20	1.19	1.26	1.23	1.24	1.38	1.75	1.72	1.41	1.29	1.21	1.23	
19	1.20	1.19	1.25	1.23	1.24	1.38	1.72	1.61	1.40	1.28	1.21	1.23	
20	1.20	1.19	1.25	1.24	1.23	1.37	1.65	1.60	1.40	1.28	1.20	1.23	
21	1.20	1.19	1.25	1.29	1.23	1.36	1.73	1.59	1.40	1.27	1.20	1.23	
22	1.20	1.19	1.25	1.28	1.22	1.35	1.59	1.59	1.40	1.27	1.20	1.23	
23	1.20	1.19	1.25	1.26	1.23	1.33	1.69	1.58	1.39	1.26	1.20	1.23	
24	1.20	1.19	1.25	1.25	1.31	1.32	1.62	1.57	1.39	1.26	1.20	1.23	
25	1.20	1.19	1.25	1.24	1.36	1.31	1.62	1.56	1.39	1.25	1.20	1.23	
26	1.20	1.19	1.25	1.23	1.38	1.30	1.58	1.55	1.39	1.25	1.20	1.23	
27	1.19	1.19	1.25	1.25	1.41	1.30	1.62	1.53	1.39	1.24	1.20	1.23	
28	1.19	1.19	1.25	1.29	1.44	1.29	1.60	1.51	1.38	1.23	1.20	1.23	
29	1.19	1.19	1.25	1.27	1.43	1.27	1.58	1.50	1.38	1.22		1.23	
30	1.19	1.19	1.25	1.32	1.42	1.26	1.58	1.49	1.38	1.22		1.23	
31		1.19		1.32	1.41		1.57		1.38	1.22		1.23	
Mean	1.20	1.19	1.23	1.25	1.29	1.37	1.73	1.62	1.42	1.29	1.21	1.22	
Max	1.21	1.19	1.27	1.32	1.44	1.42	3.40	1.78	1.48	1.36	1.22	1.23	3.40
Min	1.19	1.19	1.19	1.23	1.22	1.26	1.24	1.49	1.38	1.22	1.20	1.20	1.19

Annual Max Momentary Gage Height	4.27	m. (MSL.) ,	at 15.00 Hours , on Oct 14, 2014		
Zero Gage at Bottom Elevation	0.62	m. (MSL.) ,	River Bed	1.03	m. (MSL.)
Left Bank Elevation	5.23	m. (MSL.) ,			
Right Bank Elevation	5.20	m. (MSL.) ,	Drainage Area	48	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.05	0.05	0.08	0.08	0.46	0.07	1.00	0.64	0.28	0.06	0.05		
2	0.06	0.05	0.05	0.08	0.08	0.46	0.07	1.00	0.64	0.28	0.06	0.05		
3	0.06	0.05	0.05	0.08	0.08	0.43	0.10	0.95	0.61	0.25	0.06	0.05		
4	0.06	0.05	0.05	0.07	0.08	0.43	0.95	1.32	0.61	0.25	0.06	0.06		
5	0.06	0.05	0.05	0.07	0.08	0.43	1.44	1.15	0.58	0.25	0.06	0.06		
6	0.05	0.05	0.05	0.07	0.08	0.43	1.05	1.05	0.58	0.22	0.06	0.06		
7	0.05	0.05	0.05	0.07	0.08	0.40	2.60	0.95	0.55	0.22	0.06	0.06		
8	0.05	0.05	0.05	0.07	0.08	0.40	3.80	0.90	0.55	0.19	0.06	0.06		
9	0.05	0.05	0.05	0.08	0.08	0.40	2.84	0.95	0.55	0.19	0.06	0.06		
10	0.05	0.05	0.05	0.08	0.08	0.40	3.44	2.44	0.52	0.16	0.06	0.06		
11	0.05	0.05	0.05	0.09	0.08	0.40	2.96	2.44	0.52	0.16	0.06	0.06		
12	0.05	0.05	0.07	0.08	0.08	0.40	2.96	2.36	0.49	0.13	0.06	0.07		
13	0.05	0.05	0.06	0.07	0.08	0.37	3.08	2.28	0.49	0.13	0.06	0.07		
14	0.05	0.05	0.05	0.07	0.08	0.37	38.40	2.20	0.46	0.10	0.06	0.07		
15	0.05	0.05	0.08	0.07	0.08	0.37	7.24	2.12	0.46	0.10	0.06	0.07		
16	0.05	0.05	0.09	0.07	0.08	0.37	3.92	2.04	0.43	0.10	0.06	0.07		
17	0.05	0.05	0.08	0.07	0.07	0.37	2.60	2.04	0.43	0.10	0.06	0.07		
18	0.05	0.05	0.08	0.07	0.07	0.34	2.20	1.96	0.43	0.10	0.06	0.07		
19	0.05	0.05	0.08	0.07	0.07	0.34	1.96	1.26	0.40	0.09	0.06	0.07		
20	0.05	0.05	0.08	0.07	0.07	0.31	1.50	1.20	0.40	0.09	0.05	0.07		
21	0.05	0.05	0.08	0.10	0.07	0.28	2.04	1.15	0.40	0.09	0.05	0.07		
22	0.05	0.05	0.08	0.09	0.06	0.25	1.15	1.15	0.40	0.09	0.05	0.07		
23	0.05	0.05	0.08	0.08	0.07	0.19	1.74	1.10	0.37	0.08	0.05	0.07		
24	0.05	0.05	0.08	0.08	0.13	0.16	1.32	1.05	0.37	0.08	0.05	0.07		
25	0.05	0.05	0.08	0.07	0.28	0.13	1.32	1.00	0.37	0.08	0.05	0.07		
26	0.05	0.05	0.08	0.07	0.34	0.10	1.10	0.95	0.37	0.08	0.05	0.07		
27	0.05	0.05	0.08	0.08	0.43	0.10	1.32	0.85	0.37	0.07	0.05	0.07		
28	0.05	0.05	0.08	0.10	0.52	0.10	1.20	0.75	0.34	0.07	0.05	0.07		
29	0.05	0.05	0.08	0.09	0.49	0.09	1.10	0.70	0.34	0.06		0.07		
30	0.05	0.05	0.08	0.16	0.46	0.08	1.10	0.67	0.34	0.06		0.07		
31		0.05		0.16	0.43		1.05		0.34	0.06		0.07		
Total	1.55	1.55	2.02	2.56	4.84	9.36	97.62	40.98	14.35	4.21	1.59	2.03	182.66	CMSDAY
Mean	0.05	0.05	0.07	0.08	0.16	0.31	3.15	1.37	0.46	0.14	0.06	0.07	0.50	CMS
Max	0.06	0.05	0.09	0.16	0.52	0.46	38.40	2.44	0.64	0.28	0.06	0.07	38.40	CMS
Min	0.05	0.05	0.05	0.07	0.06	0.08	0.07	0.67	0.34	0.06	0.05	0.05	0.05	CMS
Runoff	0.13	0.13	0.18	0.22	0.42	0.81	8.43	3.54	1.24	0.36	0.14	0.18	15.78	MCM

Momentary Peak 74.02 CMS. at 4.27 m. (MSL.) at 15.00 Hours , on Oct 14, 2014

Runoff Yield 10.42 Liters/Second/Square KM. Momentary Peak Yield 1541.923 Liters/Second/Square KM.

WATER YEAR : 2014

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

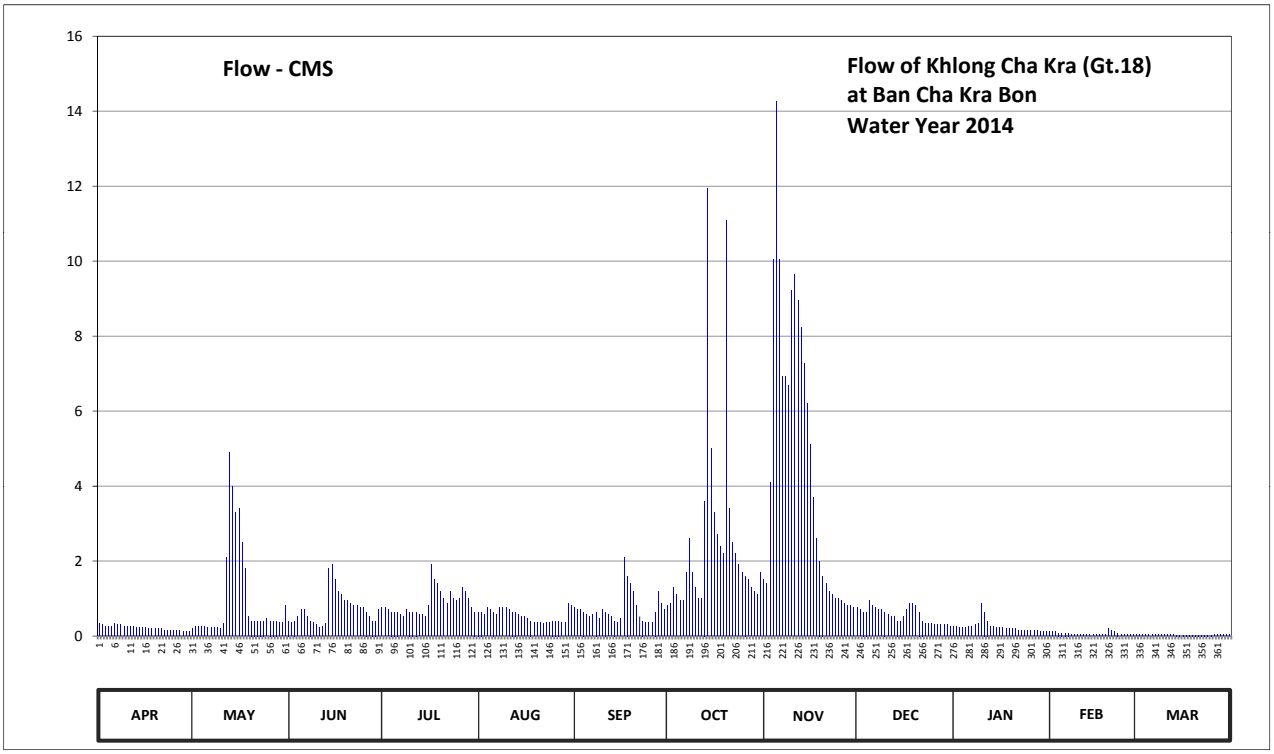
Location : on left bank at the bridge of Phet Kasem Highway.

	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**	+17.228 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Flot	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.68	12.64	12.70	12.76	12.74	12.76	12.77	12.85	12.76	12.66	12.62	12.59	
2	12.67	12.66	12.69	12.76	12.74	12.75	12.78	12.84	12.75	12.66	12.62	12.59	
3	12.66	12.66	12.70	12.75	12.73	12.75	12.83	13.11	12.74	12.65	12.62	12.59	
4	12.66	12.66	12.72	12.74	12.76	12.74	12.81	13.59	12.74	12.65	12.61	12.59	
5	12.66	12.66	12.75	12.74	12.75	12.73	12.79	13.87	12.79	12.65	12.61	12.59	
6	12.68	12.65	12.75	12.74	12.74	12.72	12.79	13.59	12.77	12.66	12.61	12.59	
7	12.67	12.65	12.72	12.73	12.73	12.73	12.87	13.36	12.76	12.66	12.61	12.58	
8	12.67	12.65	12.70	12.72	12.76	12.74	12.96	13.36	12.75	12.67	12.60	12.58	
9	12.66	12.65	12.69	12.75	12.76	12.71	12.87	13.34	12.75	12.68	12.60	12.58	
10	12.66	12.64	12.67	12.74	12.76	12.75	12.83	13.53	12.74	12.78	12.60	12.58	
11	12.66	12.68	12.65	12.74	12.75	12.74	12.80	13.56	12.73	12.74	12.59	12.58	
12	12.66	12.91	12.66	12.74	12.74	12.73	12.80	13.51	12.72	12.70	12.59	12.58	
13	12.65	13.19	12.68	12.73	12.74	12.72	13.06	13.46	12.72	12.66	12.59	12.58	
14	12.65	13.10	12.88	12.73	12.73	12.70	13.72	13.39	12.70	12.66	12.59	12.57	
15	12.65	13.03	12.89	12.72	12.72	12.69	13.20	13.30	12.70	12.65	12.58	12.57	
16	12.65	13.04	12.85	12.77	12.72	12.71	13.03	13.21	12.72	12.65	12.58	12.57	
17	12.64	12.95	12.82	12.89	12.71	12.91	12.97	13.07	12.75	12.65	12.58	12.57	
18	12.64	12.88	12.81	12.85	12.70	12.86	12.94	12.96	12.78	12.64	12.58	12.57	
19	12.64	12.72	12.79	12.84	12.69	12.84	12.92	12.90	12.78	12.64	12.60	12.57	
20	12.64	12.70	12.79	12.82	12.69	12.82	13.66	12.86	12.77	12.64	12.64	12.56	
21	12.64	12.70	12.78	12.80	12.69	12.77	13.04	12.84	12.74	12.64	12.63	12.56	
22	12.63	12.70	12.77	12.78	12.68	12.72	12.95	12.82	12.70	12.63	12.62	12.56	
23	12.63	12.70	12.77	12.82	12.69	12.70	12.92	12.81	12.68	12.63	12.61	12.56	
24	12.63	12.70	12.76	12.80	12.69	12.69	12.89	12.80	12.68	12.63	12.60	12.56	
25	12.63	12.71	12.76	12.79	12.70	12.69	12.87	12.80	12.68	12.63	12.60	12.55	
26	12.63	12.70	12.74	12.80	12.70	12.69	12.86	12.79	12.67	12.63	12.60	12.59	
27	12.63	12.70	12.72	12.83	12.70	12.74	12.85	12.78	12.67	12.63	12.59	12.60	
28	12.62	12.70	12.70	12.82	12.69	12.82	12.83	12.77	12.67	12.63	12.59	12.60	
29	12.62	12.69	12.70	12.80	12.69	12.78	12.82	12.77	12.67	12.62		12.60	
30	12.62	12.69	12.75	12.76	12.78	12.75	12.81	12.76	12.67	12.62		12.59	
31		12.77		12.74	12.77		12.87		12.66	12.62		12.59	
Mean	12.65	12.76	12.75	12.77	12.72	12.75	12.94	13.12	12.72	12.65	12.60	12.58	
Max	12.68	13.19	12.89	12.89	12.78	12.91	13.72	13.87	12.79	12.78	12.64	12.60	13.87
Min	12.62	12.64	12.65	12.72	12.68	12.69	12.77	12.76	12.66	12.62	12.58	12.55	12.55

Annual Max Momentary Gage Height	14.23	m. (MSL.) ,	at 18.00 Hours , on Oct 14, 2014		
Zero Gage at Bottom Elevation	11.72	m. (MSL.) ,	River Bed	12.10	m. (MSL.)
Left Bank Elevation	16.13	m. (MSL.) ,			
Right Bank Elevation	16.24	m. (MSL.) ,	Drainage Area	88	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.19	0.40	0.76	0.64	0.76	0.82	1.50	0.76	0.26	0.12	0.04		
2	0.30	0.26	0.36	0.76	0.64	0.70	0.88	1.40	0.70	0.26	0.12	0.04		
3	0.26	0.26	0.40	0.70	0.58	0.70	1.30	4.10	0.64	0.22	0.12	0.04		
4	0.26	0.26	0.52	0.64	0.76	0.64	1.10	10.06	0.64	0.22	0.08	0.04		
5	0.26	0.26	0.70	0.64	0.70	0.58	0.94	14.26	0.94	0.22	0.08	0.04		
6	0.33	0.22	0.70	0.64	0.64	0.52	0.94	10.06	0.82	0.26	0.08	0.04		
7	0.30	0.22	0.52	0.58	0.58	0.58	1.70	6.92	0.76	0.26	0.08	0.04		
8	0.30	0.22	0.40	0.52	0.76	0.64	2.60	6.92	0.70	0.30	0.05	0.04		
9	0.26	0.22	0.36	0.70	0.76	0.46	1.70	6.68	0.70	0.33	0.05	0.04		
10	0.26	0.19	0.30	0.64	0.76	0.70	1.30	9.22	0.64	0.88	0.05	0.04		
11	0.26	0.33	0.22	0.64	0.70	0.64	1.00	9.64	0.58	0.64	0.04	0.04		
12	0.26	2.10	0.26	0.64	0.64	0.58	1.00	8.94	0.52	0.40	0.04	0.04		
13	0.22	4.90	0.33	0.58	0.64	0.52	3.60	8.24	0.52	0.26	0.04	0.04		
14	0.22	4.00	1.80	0.58	0.58	0.40	11.93	7.28	0.40	0.26	0.04	0.03		
15	0.22	3.30	1.90	0.52	0.52	0.36	5.00	6.20	0.40	0.22	0.04	0.03		
16	0.22	3.40	1.50	0.82	0.52	0.46	3.30	5.12	0.52	0.22	0.04	0.03		
17	0.19	2.50	1.20	1.90	0.46	2.10	2.70	3.70	0.70	0.22	0.04	0.03		
18	0.19	1.80	1.10	1.50	0.40	1.60	2.40	2.60	0.88	0.19	0.04	0.03		
19	0.19	0.52	0.94	1.40	0.36	1.40	2.20	2.00	0.88	0.19	0.05	0.03		
20	0.19	0.40	0.94	1.20	0.36	1.20	11.08	1.60	0.82	0.19	0.19	0.03		
21	0.19	0.40	0.88	1.00	0.36	0.82	3.40	1.40	0.64	0.19	0.15	0.03		
22	0.15	0.40	0.82	0.88	0.33	0.52	2.50	1.20	0.40	0.15	0.12	0.03		
23	0.15	0.40	0.82	1.20	0.36	0.40	2.20	1.10	0.33	0.15	0.08	0.03		
24	0.15	0.40	0.76	1.00	0.36	0.36	1.90	1.00	0.33	0.15	0.05	0.03		
25	0.15	0.46	0.76	0.94	0.40	0.36	1.70	1.00	0.33	0.15	0.05	0.03		
26	0.15	0.40	0.64	1.00	0.40	0.36	1.60	0.94	0.30	0.15	0.05	0.04		
27	0.15	0.40	0.52	1.30	0.40	0.64	1.50	0.88	0.30	0.15	0.04	0.05		
28	0.12	0.40	0.40	1.20	0.36	1.20	1.30	0.82	0.30	0.15	0.04	0.05		
29	0.12	0.36	0.40	1.00	0.36	0.88	1.20	0.82	0.30	0.12		0.05		
30	0.12	0.36	0.70	0.76	0.88	0.70	1.10	0.76	0.30	0.12		0.04		
31		0.82		0.64	0.82		1.70		0.26	0.12		0.04		
Total	6.47	30.35	21.55	27.28	17.03	21.78	77.59	136.36	17.31	7.60	1.97	1.15	366.44	CMSDAY
Mean	0.22	0.98	0.72	0.88	0.55	0.73	2.50	4.55	0.56	0.25	0.07	0.04	1.00	CMS
Max	0.33	4.90	1.90	1.90	0.88	2.10	11.93	14.26	0.94	0.88	0.19	0.05	14.26	CMS
Min	0.12	0.19	0.22	0.52	0.33	0.36	0.82	0.76	0.26	0.12	0.04	0.03	0.03	CMS
Runoff	0.56	2.62	1.86	2.36	1.47	1.88	6.70	11.78	1.50	0.66	0.17	0.10	31.66	MCM

Momentary Peak 20.80 CMS. at 14.23 m. (MSL.) at 18.00 Hours , on Oct 14, 2014

Runoff Yield 11.41 Liters/Second/Square KM. Momentary Peak Yield 236.364 Liters/Second/Square KM.

WATER YEAR : 2014

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

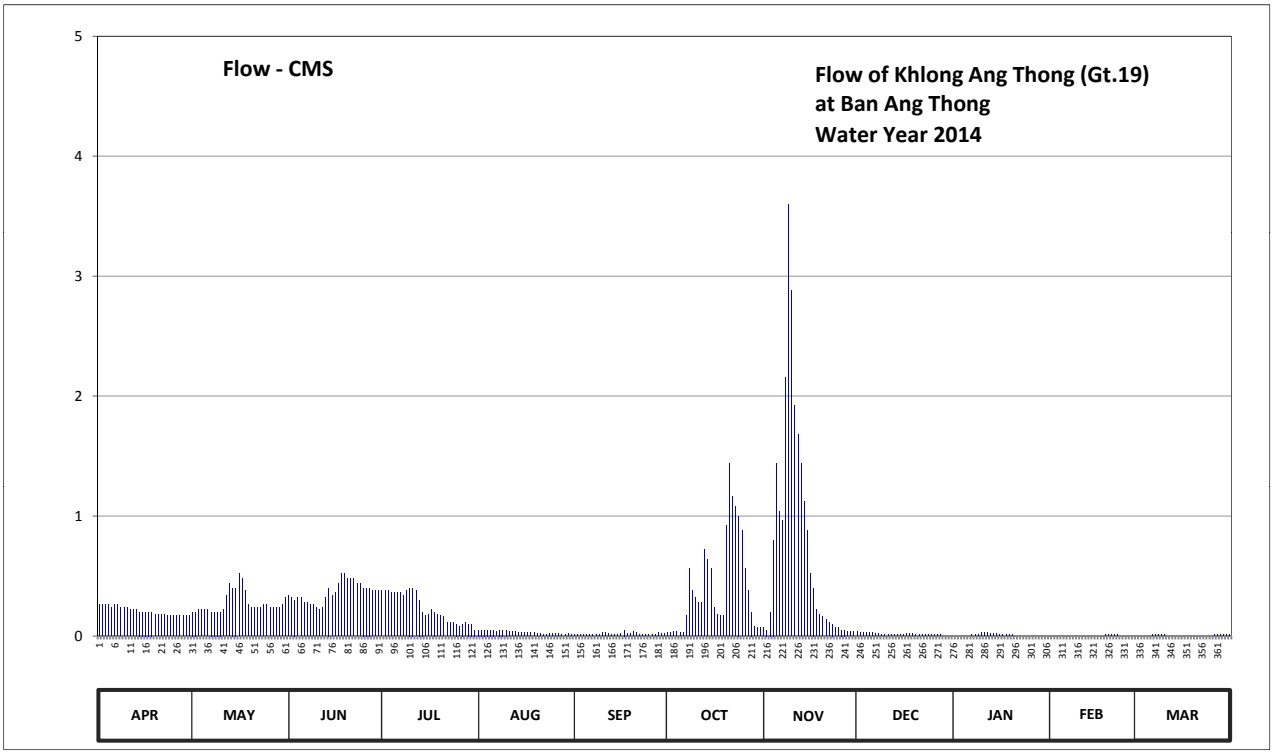
Location : on left bank at the bridge of Phet Kasem Highway near the guidepost 373.

	Ban Ang Thong	**Amphoe** Thap Sakae	**Changwat** Prachuap Khiri Khan
Drainge Area	61 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+12.447 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 Flot	-		
Rated by Current Meter	1987 - 1988, 1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.03	13.00	13.07	13.09	12.90	12.83	12.85	12.91	12.87	12.80	12.80	12.79	
2	13.03	13.00	13.06	13.09	12.90	12.83	12.85	12.90	12.86	12.80	12.80	12.79	
3	13.03	13.01	13.05	13.09	12.89	12.83	12.87	13.00	12.86	12.80	12.80	12.79	
4	13.03	13.01	13.06	13.08	12.90	12.82	12.87	13.20	12.85	12.79	12.80	12.80	
5	13.02	13.01	13.06	13.08	12.90	12.82	12.86	13.34	12.86	12.79	12.79	12.80	
6	13.03	13.01	13.04	13.08	12.89	12.82	12.85	13.26	12.85	12.80	12.79	12.81	
7	13.03	13.00	13.04	13.08	12.88	12.81	12.98	13.24	12.84	12.81	12.79	12.81	
8	13.02	13.00	13.03	13.07	12.90	12.83	13.14	13.46	12.84	12.81	12.79	12.81	
9	13.02	13.00	13.03	13.09	12.89	12.83	13.09	13.65	12.83	12.82	12.80	12.81	
10	13.02	13.00	13.02	13.10	12.89	12.85	13.06	13.56	12.83	12.86	12.80	12.81	
11	13.01	13.01	13.01	13.10	12.88	12.85	13.04	13.42	12.82	12.86	12.80	12.79	
12	13.01	13.07	13.02	13.09	12.88	12.84	13.04	13.38	12.82	12.85	12.80	12.78	
13	13.01	13.11	13.06	13.05	12.87	12.82	13.18	13.34	12.82	12.84	12.80	12.76	
14	13.00	13.10	13.10	13.00	12.86	12.82	13.16	13.28	12.83	12.84	12.79	12.76	
15	13.00	13.10	13.07	12.98	12.86	12.82	13.14	13.22	12.83	12.84	12.79	12.76	
16	13.00	13.13	13.08	12.99	12.86	12.84	13.02	13.13	12.83	12.83	12.79	12.76	
17	13.00	13.12	13.11	13.01	12.85	12.90	12.99	13.10	12.84	12.83	12.79	12.76	
18	13.00	13.09	13.13	13.00	12.85	12.84	12.98	13.01	12.84	12.83	12.80	12.76	
19	12.99	13.03	13.13	12.99	12.85	12.84	12.98	12.99	12.84	12.82	12.81	12.75	
20	12.99	13.02	13.12	12.98	12.84	12.87	13.23	12.97	12.83	12.81	12.83	12.75	
21	12.99	13.02	13.12	12.97	12.84	12.85	13.34	12.96	12.83	12.80	12.82	12.75	
22	12.99	13.02	13.12	12.94	12.83	12.84	13.29	12.94	12.82	12.80	12.82	12.75	
23	12.98	13.02	13.11	12.94	12.83	12.83	13.27	12.93	12.82	12.80	12.81	12.75	
24	12.98	13.03	13.11	12.94	12.84	12.83	13.25	12.91	12.82	12.79	12.80	12.75	
25	12.98	13.03	13.10	12.93	12.84	12.83	13.22	12.91	12.81	12.79	12.80	12.74	
26	12.98	13.02	13.10	12.92	12.84	12.83	13.14	12.90	12.81	12.80	12.80	12.81	
27	12.98	13.02	13.10	12.93	12.84	12.82	13.09	12.89	12.81	12.80	12.80	12.82	
28	12.98	13.02	13.09	12.94	12.83	12.85	13.00	12.88	12.81	12.80	12.79	12.82	
29	12.98	13.02	13.09	12.93	12.83	12.84	12.92	12.88	12.80	12.80		12.82	
30	12.98	13.03	13.09	12.93	12.84	12.84	12.91	12.88	12.80	12.80		12.82	
31		13.06		12.90	12.83		12.91		12.80	12.80		12.82	
Mean	13.00	13.04	13.08	13.01	12.86	12.84	13.05	13.11	12.83	12.81	12.80	12.78	
Max	13.03	13.13	13.13	13.10	12.90	12.90	13.34	13.65	12.87	12.86	12.83	12.82	13.65
Min	12.98	13.00	13.01	12.90	12.83	12.81	12.85	12.88	12.80	12.79	12.79	12.74	12.74

Annual Max Momentary Gage Height	13.68	m. (MSL.) ,	at 06.00 Hours , on Nov 9, 2014		
Zero Gage at Bottom Elevation	12.45	m. (MSL.) ,	River Bed	12.80	m. (MSL.)
Left Bank Elevation	16.76	m. (MSL.) ,			
Right Bank Elevation	16.73	m. (MSL.) ,	Drainage Area	61	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	0.20	0.34	0.38	0.05	0.01	0.03	0.07	0.04	0.00	0.00	0.00		
2	0.26	0.20	0.32	0.38	0.05	0.01	0.03	0.05	0.03	0.00	0.00	0.00		
3	0.26	0.22	0.30	0.38	0.05	0.01	0.04	0.20	0.03	0.00	0.00	0.00		
4	0.26	0.22	0.32	0.36	0.05	0.01	0.04	0.80	0.03	0.00	0.00	0.00		
5	0.24	0.22	0.32	0.36	0.05	0.01	0.03	1.44	0.03	0.00	0.00	0.00		
6	0.26	0.22	0.28	0.36	0.05	0.01	0.03	1.04	0.03	0.00	0.00	0.01		
7	0.26	0.20	0.28	0.36	0.04	0.01	0.17	0.96	0.02	0.01	0.00	0.01		
8	0.24	0.20	0.26	0.34	0.05	0.01	0.56	2.16	0.02	0.01	0.00	0.01		
9	0.24	0.20	0.26	0.38	0.05	0.01	0.38	3.60	0.01	0.01	0.00	0.01		
10	0.24	0.20	0.24	0.40	0.05	0.03	0.32	2.88	0.01	0.03	0.00	0.01		
11	0.22	0.22	0.22	0.40	0.04	0.03	0.28	1.92	0.01	0.03	0.00	0.00		
12	0.22	0.34	0.24	0.38	0.04	0.02	0.28	1.68	0.01	0.03	0.00	0.00		
13	0.22	0.44	0.32	0.30	0.04	0.01	0.72	1.44	0.01	0.02	0.00	0.00		
14	0.20	0.40	0.40	0.20	0.03	0.01	0.64	1.12	0.01	0.02	0.00	0.00		
15	0.20	0.40	0.34	0.17	0.03	0.01	0.56	0.88	0.01	0.02	0.00	0.00		
16	0.20	0.52	0.36	0.18	0.03	0.02	0.24	0.52	0.01	0.01	0.00	0.00		
17	0.20	0.48	0.44	0.22	0.03	0.05	0.18	0.40	0.02	0.01	0.00	0.00		
18	0.20	0.38	0.52	0.20	0.03	0.02	0.17	0.22	0.02	0.01	0.00	0.00		
19	0.18	0.26	0.52	0.18	0.03	0.02	0.17	0.18	0.02	0.01	0.01	0.00		
20	0.18	0.24	0.48	0.17	0.02	0.04	0.92	0.16	0.01	0.01	0.01	0.00		
21	0.18	0.24	0.48	0.16	0.02	0.03	1.44	0.14	0.01	0.00	0.01	0.00		
22	0.18	0.24	0.48	0.11	0.01	0.02	1.16	0.11	0.01	0.00	0.01	0.00		
23	0.17	0.24	0.44	0.11	0.01	0.01	1.08	0.10	0.01	0.00	0.01	0.00		
24	0.17	0.26	0.44	0.11	0.02	0.01	1.00	0.07	0.01	0.00	0.00	0.00		
25	0.17	0.26	0.40	0.10	0.02	0.01	0.88	0.07	0.01	0.00	0.00	0.00		
26	0.17	0.24	0.40	0.08	0.02	0.01	0.56	0.05	0.01	0.00	0.00	0.01		
27	0.17	0.24	0.40	0.10	0.02	0.01	0.38	0.05	0.01	0.00	0.00	0.01		
28	0.17	0.24	0.38	0.11	0.01	0.03	0.20	0.04	0.01	0.00	0.00	0.01		
29	0.17	0.24	0.38	0.10	0.01	0.02	0.08	0.04	0.00	0.00		0.01		
30	0.17	0.26	0.38	0.10	0.02	0.02	0.07	0.04	0.00	0.00		0.01		
31		0.32		0.05	0.01		0.07		0.00	0.00		0.01		
Total	6.26	8.54	10.94	7.23	0.98	0.52	12.71	22.43	0.46	0.23	0.05	0.11	70.46	CMSDAY
Mean	0.21	0.28	0.36	0.23	0.03	0.02	0.41	0.75	0.01	0.01	0.00	0.00	0.19	CMS
Max	0.26	0.52	0.52	0.40	0.05	0.05	1.44	3.60	0.04	0.03	0.01	0.01	3.60	CMS
Min	0.17	0.20	0.22	0.05	0.01	0.01	0.03	0.04	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.54	0.74	0.95	0.63	0.09	0.05	1.10	1.94	0.04	0.02	0.00	0.01	6.09	MCM

Momentary Peak 3.86 CMS. at 13.68 m. (MSL.) at 06.00 Hours , on Nov 9, 2014

Runoff Yield 3.16 Liters/Second/Square KM. Momentary Peak Yield 63.279 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

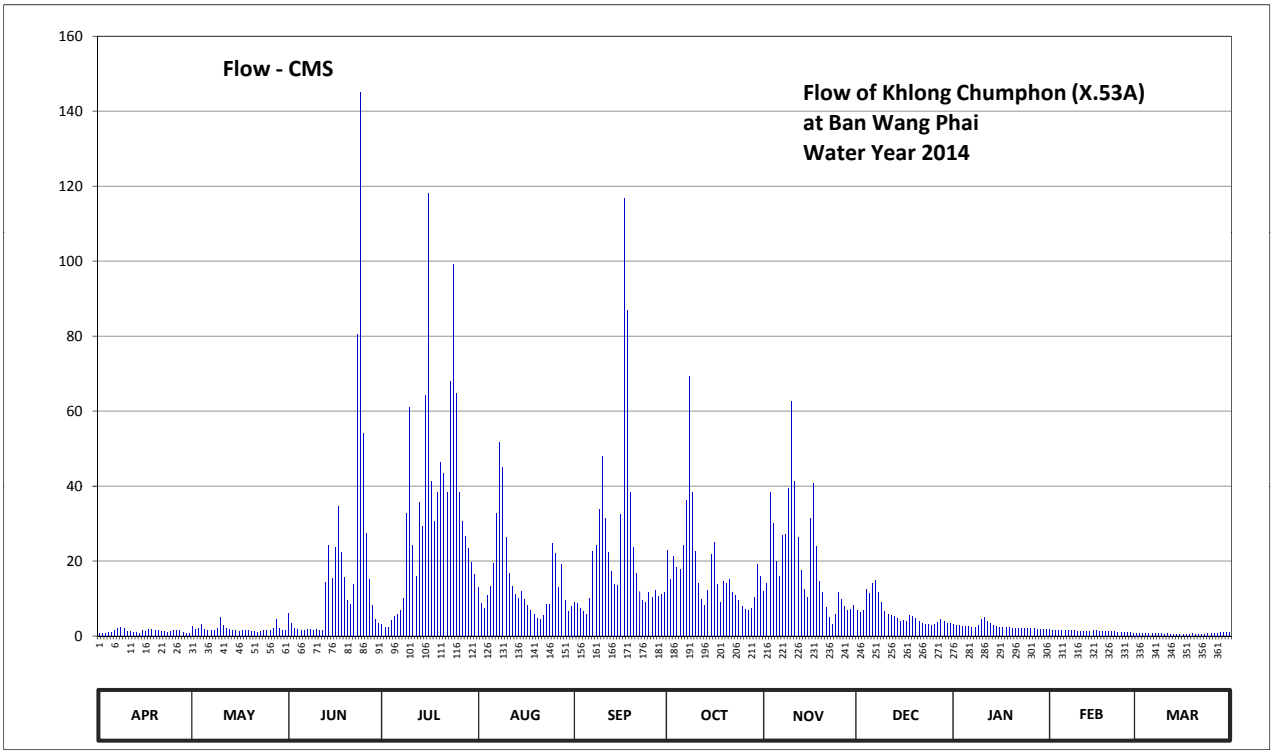
Location : on left bank about 9.50 kilometers downstream from X.53 station.

	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** +10.624 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 Flot	-		
Rated by Current Meter	1991 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.22	2.40	2.76	2.45	3.44	3.06	4.22	3.34	2.84	2.45	2.32	2.23	
2	2.22	2.33	2.48	2.39	3.01	3.03	3.60	3.53	2.78	2.44	2.31	2.23	
3	2.23	2.35	2.36	2.39	2.89	2.88	4.09	5.22	2.84	2.43	2.30	2.22	
4	2.24	2.45	2.32	2.56	3.22	2.82	3.86	4.74	3.40	2.41	2.30	2.22	
5	2.25	2.32	2.30	2.66	3.47	2.73	3.83	4.00	3.28	2.40	2.30	2.23	
6	2.30	2.30	2.29	2.74	3.96	3.16	4.33	3.67	3.52	2.40	2.30	2.22	
7	2.34	2.30	2.33	2.83	4.90	4.20	5.09	4.52	3.59	2.39	2.29	2.22	
8	2.39	2.29	2.32	3.16	5.89	4.34	6.63	4.54	3.30	2.38	2.29	2.21	
9	2.34	2.35	2.30	4.90	5.57	4.96	5.21	5.27	3.04	2.43	2.29	2.21	
10	2.28	2.65	2.32	6.29	4.49	5.71	4.21	6.36	2.82	2.60	2.28	2.19	
11	2.26	2.44	2.31	4.33	3.74	4.82	3.53	5.37	2.73	2.64	2.28	2.21	
12	2.24	2.36	2.31	3.68	3.46	4.19	3.12	4.49	2.70	2.53	2.28	2.20	
13	2.24	2.33	3.55	5.07	3.27	3.78	2.97	3.80	2.66	2.49	2.28	2.20	
14	2.22	2.30	4.34	4.68	3.15	3.51	3.36	3.39	2.63	2.43	2.28	2.20	
15	2.31	2.29	3.64	6.43	3.33	3.48	4.15	3.17	2.53	2.41	2.29	2.20	
16	2.27	2.27	4.29	8.01	3.13	4.89	4.39	4.82	2.56	2.39	2.29	2.20	
17	2.33	2.29	5.00	5.37	2.97	7.98	3.51	5.34	2.53	2.38	2.28	2.20	
18	2.33	2.31	4.18	4.77	2.83	7.20	3.06	4.31	2.70	2.38	2.27	2.19	
19	2.31	2.30	3.65	5.21	2.73	5.21	3.56	3.57	2.66	2.37	2.27	2.21	
20	2.29	2.27	3.09	5.64	2.62	4.29	3.53	3.30	2.61	2.36	2.27	2.20	
21	2.27	2.26	3.00	5.49	2.60	3.73	3.61	2.91	2.53	2.36	2.27	2.19	
22	2.26	2.25	3.51	5.21	2.70	3.34	3.32	2.65	2.49	2.35	2.26	2.19	
23	2.24	2.28	7.00	6.58	3.00	3.10	3.22	2.47	2.47	2.35	2.25	2.20	
24	2.27	2.30	8.56	7.54	2.98	3.06	3.10	2.72	2.45	2.35	2.25	2.23	
25	2.31	2.30	6.00	6.45	4.38	3.32	2.95	3.31	2.44	2.34	2.25	2.22	
26	2.30	2.29	4.56	5.21	4.17	3.17	2.86	3.13	2.45	2.34	2.24	2.23	
27	2.30	2.35	3.61	4.77	3.43	3.36	2.83	2.94	2.52	2.34	2.24	2.23	
28	2.25	2.58	2.97	4.51	3.93	3.21	2.88	2.84	2.58	2.33	2.23	2.24	
29	2.23	2.36	2.59	4.26	3.10	3.25	3.17	2.87	2.53	2.33		2.24	
30	2.22	2.31	2.50	3.97	2.82	3.30	3.93	2.96	2.50	2.32		2.25	
31		2.29		3.71	2.95		3.68		2.49	2.32		2.24	
Mean	2.28	2.34	3.48	4.62	3.49	3.97	3.74	3.85	2.75	2.40	2.28	2.21	
Max	2.39	2.65	8.56	8.01	5.89	7.98	6.63	6.36	3.59	2.64	2.32	2.25	8.56
Min	2.22	2.25	2.29	2.39	2.60	2.73	2.83	2.47	2.44	2.32	2.23	2.19	2.19

Annual Max Momentary Gage Height	9.50	m. (MSL.) ,	at 24.00 Hours , on Jun 23 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	2.02	m. (MSL.)
Left Bank Elevation	10.40	m. (MSL.) ,			
Right Bank Elevation	10.41	m. (MSL.) ,	Drainage Area	296	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.70	2.50	6.10	3.00	13.00	9.10	22.75	11.90	6.90	3.00	1.70	0.80		
2	0.70	1.80	3.30	2.40	8.60	8.80	15.00	14.12	6.30	2.90	1.60	0.80		
3	0.80	2.00	2.10	2.40	7.40	7.30	21.13	38.38	6.90	2.80	1.50	0.70		
4	0.90	3.00	1.70	4.10	10.70	6.70	18.25	30.10	12.50	2.60	1.50	0.70		
5	1.00	1.70	1.50	5.10	13.37	5.80	17.87	20.00	11.30	2.50	1.50	0.80		
6	1.50	1.50	1.40	5.90	19.50	10.10	24.12	15.88	14.00	2.50	1.50	0.70		
7	1.90	1.50	1.80	6.80	32.75	22.50	36.08	26.80	14.87	2.40	1.40	0.70		
8	2.40	1.40	1.70	10.10	51.66	24.25	69.40	27.10	11.50	2.30	1.40	0.60		
9	1.90	2.00	1.50	32.75	44.94	33.80	38.19	39.31	8.90	2.80	1.40	0.60		
10	1.30	5.00	1.70	60.89	26.35	47.84	22.62	62.55	6.70	4.50	1.30	0.48		
11	1.10	2.90	1.60	24.12	16.75	31.35	14.12	41.19	5.80	4.90	1.30	0.60		
12	0.90	2.10	1.60	16.00	13.25	22.37	9.70	26.35	5.50	3.80	1.30	0.50		
13	0.90	1.80	14.37	35.73	11.20	17.25	8.20	17.50	5.10	3.40	1.30	0.50		
14	0.70	1.50	24.25	29.20	10.00	13.87	12.10	12.40	4.80	2.80	1.30	0.50		
15	1.60	1.40	15.50	64.25	11.80	13.50	21.87	10.20	3.80	2.60	1.40	0.50		
16	1.20	1.20	23.62	117.95	9.80	32.57	24.87	31.35	4.10	2.40	1.40	0.50		
17	1.80	1.40	34.50	41.19	8.20	116.70	13.87	40.63	3.80	2.30	1.30	0.50		
18	1.80	1.60	22.25	30.55	6.80	87.00	9.10	23.87	5.50	2.30	1.20	0.48		
19	1.60	1.50	15.63	38.19	5.80	38.19	14.50	14.62	5.10	2.20	1.20	0.60		
20	1.40	1.20	9.40	46.35	4.70	23.62	14.12	11.50	4.60	2.10	1.20	0.50		
21	1.20	1.10	8.50	43.44	4.50	16.62	15.12	7.60	3.80	2.10	1.20	0.48		
22	1.10	1.00	13.87	38.19	5.50	11.90	11.70	5.00	3.40	2.00	1.10	0.48		
23	0.90	1.30	80.50	68.00	8.50	9.50	10.70	3.20	3.20	2.00	1.00	0.50		
24	1.20	1.50	144.90	99.10	8.30	9.10	9.50	5.70	3.00	2.00	1.00	0.80		
25	1.60	1.50	54.00	64.75	24.75	11.70	8.00	11.60	2.90	1.90	1.00	0.70		
26	1.50	1.40	27.40	38.19	22.12	10.20	7.10	9.80	3.00	1.90	0.90	0.80		
27	1.50	2.00	15.12	30.55	12.88	12.10	6.80	7.90	3.70	1.90	0.90	0.80		
28	1.00	4.30	8.20	26.65	19.12	10.60	7.30	6.90	4.30	1.80	0.80	0.90		
29	0.80	2.10	4.40	23.25	9.50	11.00	10.20	7.20	3.80	1.80		0.90		
30	0.70	1.60	3.50	19.62	6.70	11.50	19.12	8.10	3.50	1.70		1.00		
31		1.40		16.37	8.00		16.00		3.40	1.70		0.90		
Total	37.60	58.20	545.91	1045.08	456.44	686.83	549.40	588.75	185.97	77.90	35.60	20.32	4288.00	CMSDAY
Mean	1.25	1.88	18.20	33.71	14.72	22.89	17.72	19.63	6.00	2.51	1.27	0.66	11.75	CMS
Max	2.40	5.00	144.90	117.95	51.66	116.70	69.40	62.55	14.87	4.90	1.70	1.00	144.90	CMS
Min	0.70	1.00	1.40	2.40	4.50	5.80	6.80	3.20	2.90	1.70	0.80	0.48	0.48	CMS
Runoff	3.25	5.03	47.17	90.30	39.44	59.34	47.47	50.87	16.07	6.73	3.08	1.76	370.48	MCM

Momentary Peak 206.00 CMS. at 9.50 m. (MSL.) at 24.00 Hours , on Jun 23 , 2014

Runoff Yield 39.69 Liters/Second/Square KM. Momentary Peak Yield 695.476 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

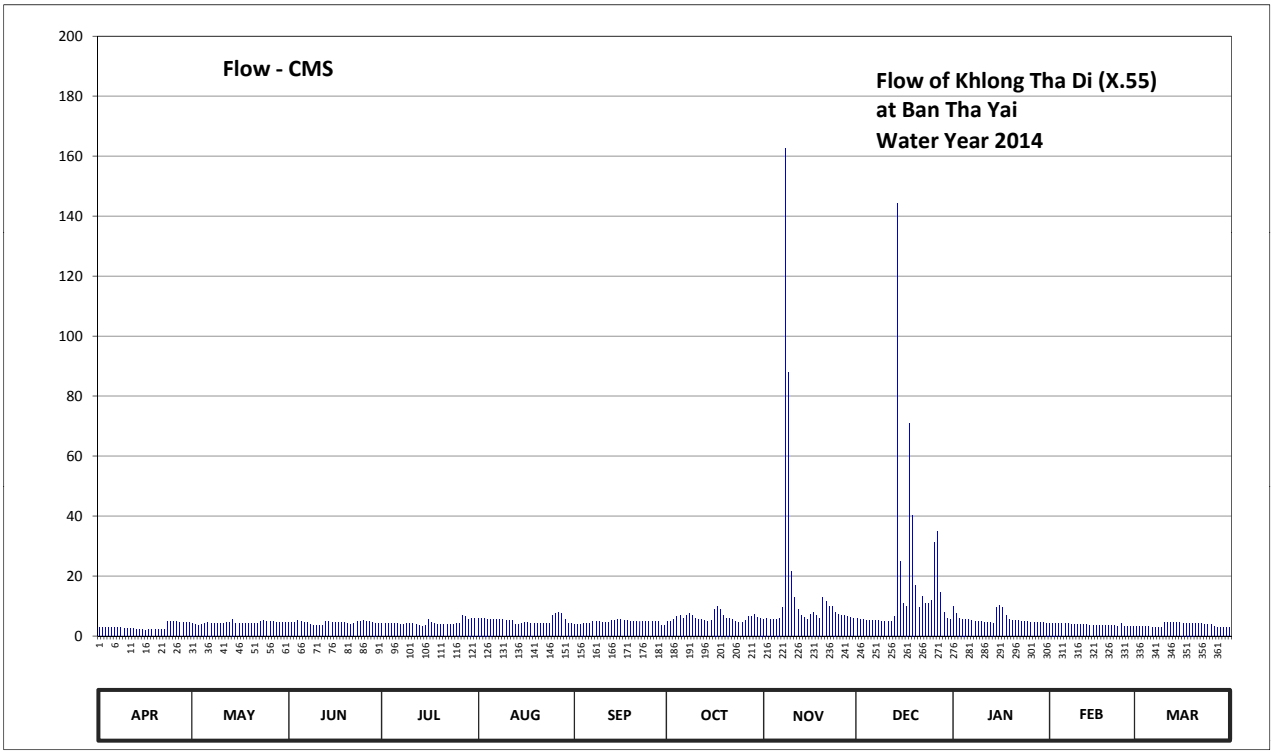
Location : on left bank at the bridge.

	Ban Tha Yai	**Amphoe** Lan Saka	**Changwat** Nakhon Si Thammarat
Drainge Area	105 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 63.60 meters from fourth staff gage.	**Elevation**	+24.748 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 , 1989 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1971 , 1989 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 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.98	18.09	18.10	18.08	18.20	18.06	18.12	18.18	18.19	18.39	18.09	18.01	
2	17.98	18.06	18.10	18.07	18.20	18.06	18.13	18.20	18.17	18.27	18.09	18.01	
3	17.98	18.04	18.10	18.07	18.20	18.05	18.16	18.18	18.17	18.20	18.09	18.01	
4	17.98	18.06	18.14	18.07	18.18	18.09	18.22	18.17	18.15	18.18	18.09	18.01	
5	17.98	18.09	18.13	18.07	18.18	18.07	18.24	18.18	18.15	18.18	18.08	18.01	
6	17.98	18.11	18.11	18.07	18.17	18.07	18.20	18.20	18.15	18.17	18.08	18.00	
7	17.98	18.09	18.10	18.05	18.17	18.12	18.24	18.37	18.14	18.14	18.07	18.00	
8	17.98	18.08	18.06	18.05	18.17	18.13	18.28	21.18	18.14	18.13	18.06	18.00	
9	17.96	18.07	18.04	18.07	18.17	18.13	18.25	20.34	18.13	18.13	18.06	18.00	
10	17.96	18.07	18.04	18.08	18.15	18.10	18.19	18.85	18.12	18.13	18.06	18.10	
11	17.96	18.08	18.04	18.08	18.14	18.10	18.17	18.51	18.13	18.11	18.06	18.10	
12	17.96	18.10	18.04	18.05	18.15	18.10	18.16	18.34	18.12	18.11	18.05	18.10	
13	17.95	18.11	18.12	18.04	18.06	18.14	18.14	18.25	18.23	18.10	18.05	18.10	
14	17.95	18.18	18.12	18.02	18.06	18.15	18.12	18.21	21.02	18.09	18.04	18.10	
15	17.95	18.08	18.11	18.03	18.09	18.17	18.14	18.17	18.96	18.38	18.04	18.10	
16	17.93	18.08	18.10	18.18	18.10	18.17	18.35	18.26	18.43	18.41	18.04	18.09	
17	17.95	18.08	18.10	18.10	18.10	18.15	18.40	18.30	18.40	18.38	18.04	18.09	
18	17.95	18.07	18.10	18.07	18.09	18.15	18.35	18.25	20.08	18.24	18.03	18.09	
19	17.95	18.07	18.10	18.06	18.08	18.13	18.25	18.20	19.41	18.17	18.03	18.09	
20	17.95	18.07	18.08	18.05	18.07	18.13	18.20	18.51	18.67	18.15	18.03	18.08	
21	17.94	18.07	18.06	18.05	18.07	18.13	18.20	18.46	18.38	18.14	18.03	18.08	
22	17.94	18.07	18.07	18.05	18.08	18.13	18.17	18.39	18.53	18.14	18.03	18.08	
23	18.12	18.12	18.12	18.05	18.08	18.12	18.13	18.39	18.43	18.13	18.02	18.06	
24	18.12	18.14	18.12	18.05	18.08	18.12	18.10	18.30	18.43	18.12	18.07	18.06	
25	18.12	18.13	18.14	18.07	18.24	18.12	18.10	18.26	18.47	18.12	18.02	18.06	
26	18.12	18.12	18.12	18.09	18.27	18.13	18.14	18.25	19.17	18.11	18.01	18.01	
27	18.10	18.12	18.12	18.25	18.29	18.13	18.23	18.24	19.27	18.11	18.01	18.00	
28	18.10	18.11	18.11	18.23	18.28	18.13	18.23	18.22	18.58	18.11	18.01	18.00	
29	18.10	18.11	18.09	18.18	18.17	18.03	18.26	18.21	18.29	18.11		18.00	
30	18.10	18.11	18.08	18.20	18.09	18.03	18.21	18.19	18.19	18.10		18.00	
31		18.11		18.20	18.07		18.20		18.16	18.09		18.00	
Mean	18.00	18.09	18.10	18.09	18.14	18.11	18.20	18.46	18.54	18.17	18.05	18.05	
Max	18.12	18.18	18.14	18.25	18.29	18.17	18.40	21.18	21.02	18.41	18.09	18.10	21.18
Min	17.93	18.04	18.04	18.02	18.06	18.03	18.10	18.17	18.12	18.09	18.01	18.00	17.93

Annual Max Momentary Gage Height	22.53	m. (MSL.) ,	at 18.00 Hours , on Nov 8 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	17.29	m. (MSL.)
Left Bank Elevation	25.20	m. (MSL.) ,			
Right Bank Elevation	25.57	m. (MSL.) ,	Drainage Area	105	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	4.35	4.50	4.20	6.00	3.90	4.80	5.70	5.85	9.80	4.35	3.15		
2	2.70	3.90	4.50	4.05	6.00	3.90	4.95	6.00	5.55	7.40	4.35	3.15		
3	2.70	3.60	4.50	4.05	6.00	3.75	5.40	5.70	5.55	6.00	4.35	3.15		
4	2.70	3.90	5.10	4.05	5.70	4.35	6.40	5.55	5.25	5.70	4.35	3.15		
5	2.70	4.35	4.95	4.05	5.70	4.05	6.80	5.70	5.25	5.70	4.20	3.15		
6	2.70	4.65	4.65	4.05	5.55	4.05	6.00	6.00	5.25	5.55	4.20	3.00		
7	2.70	4.35	4.50	3.75	5.55	4.80	6.80	9.40	5.10	5.10	4.05	3.00		
8	2.70	4.20	3.90	3.75	5.55	4.95	7.60	162.70	5.10	4.95	3.90	3.00		
9	2.40	4.05	3.60	4.05	5.55	4.95	7.00	87.80	4.95	4.95	3.90	3.00		
10	2.40	4.05	3.60	4.20	5.25	4.50	5.85	21.50	4.80	4.95	3.90	4.50		
11	2.40	4.20	3.60	4.20	5.10	4.50	5.55	12.75	4.95	4.65	3.90	4.50		
12	2.40	4.50	3.60	3.75	5.25	4.50	5.40	8.80	4.80	4.65	3.75	4.50		
13	2.25	4.65	4.80	3.60	3.90	5.10	5.10	7.00	6.60	4.50	3.75	4.50		
14	2.25	5.70	4.80	3.30	3.90	5.25	4.80	6.20	144.30	4.35	3.60	4.50		
15	2.25	4.20	4.65	3.45	4.35	5.55	5.10	5.55	24.80	9.60	3.60	4.50		
16	1.95	4.20	4.50	5.70	4.50	5.55	9.00	7.20	10.75	10.25	3.60	4.35		
17	2.25	4.20	4.50	4.50	4.50	5.25	10.00	8.00	10.00	9.60	3.60	4.35		
18	2.25	4.05	4.50	4.05	4.35	5.25	9.00	7.00	70.80	6.80	3.45	4.35		
19	2.25	4.05	4.50	3.90	4.20	4.95	7.00	6.00	40.40	5.55	3.45	4.35		
20	2.25	4.05	4.20	3.75	4.05	4.95	6.00	12.75	16.75	5.25	3.45	4.20		
21	2.10	4.05	3.90	3.75	4.05	4.95	6.00	11.50	9.60	5.10	3.45	4.20		
22	2.10	4.05	4.05	3.75	4.20	4.95	5.55	9.80	13.25	5.10	3.45	4.20		
23	4.80	4.80	4.80	3.75	4.20	4.80	4.95	9.80	10.75	4.95	3.30	3.90		
24	4.80	5.10	4.80	3.75	4.20	4.80	4.50	8.00	10.75	4.80	4.05	3.90		
25	4.80	4.95	5.10	4.05	6.80	4.80	4.50	7.20	11.75	4.80	3.30	3.90		
26	4.80	4.80	4.80	4.35	7.40	4.95	5.10	7.00	31.10	4.65	3.15	3.15		
27	4.50	4.80	4.80	7.00	7.80	4.95	6.60	6.80	34.80	4.65	3.15	3.00		
28	4.50	4.65	4.65	6.60	7.60	4.95	6.60	6.40	14.50	4.65	3.15	3.00		
29	4.50	4.65	4.35	5.70	5.55	3.45	7.20	6.20	7.80	4.65		3.00		
30	4.50	4.65	4.20	6.00	4.35	3.45	6.20	5.85	5.85	4.50		3.00		
31		4.65		6.00	4.05		6.00		5.40	4.35		3.00		
Total	90.30	136.35	132.90	135.10	161.15	140.10	191.75	475.85	542.35	177.50	104.70	114.60	2402.65	CMSDAY
Mean	3.01	4.40	4.43	4.36	5.20	4.67	6.19	15.86	17.50	5.73	3.74	3.70	6.58	CMS
Max	4.80	5.70	5.10	7.00	7.80	5.55	10.00	162.70	144.30	10.25	4.35	4.50	162.70	CMS
Min	1.95	3.60	3.60	3.30	3.90	3.45	4.50	5.55	4.80	4.35	3.15	3.00	1.95	CMS
Runoff	7.80	11.78	11.48	11.67	13.92	12.11	16.57	41.11	46.86	15.34	9.05	9.90	207.59	MCM

Momentary Peak 365.40 CMS. at 22.53 m. (MSL.) at 18.00 Hours , on Nov 8 , 2014

Runoff Yield 62.69 Liters/Second/Square KM. Momentary Peak Yield 3473.714 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

Lat 10 - 39 - 51 N Long 99 - 10 - 26 E

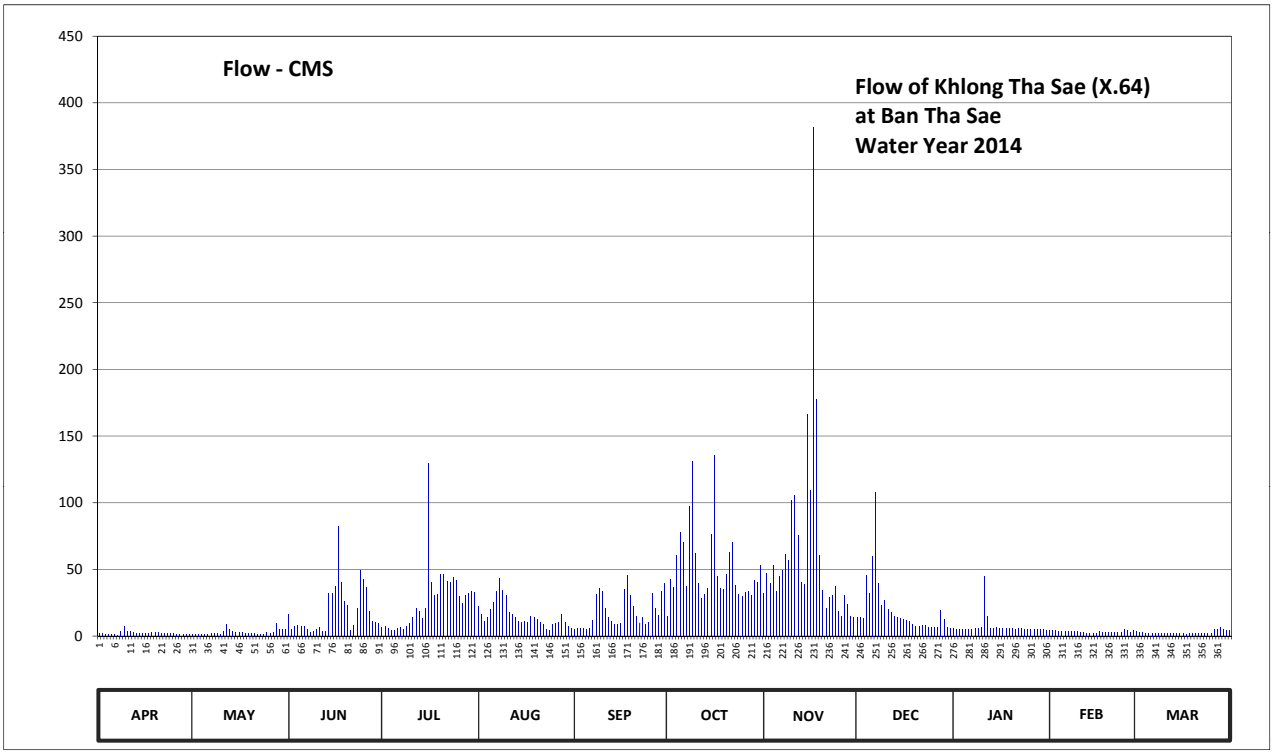
Location : on left bank near the Land Cooperation Office.

	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 Flot	-		
Rated by Current Meter	1974 - 1975 , 1982 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.75	7.70	8.66	8.10	8.90	8.02	8.59	9.34	8.54	8.04	7.96	7.87	
2	7.73	7.72	8.01	8.18	8.66	8.06	9.96	10.16	8.54	8.02	7.94	7.80	
3	7.72	7.72	8.20	8.04	8.38	8.06	9.59	9.76	8.52	8.02	7.94	7.80	
4	7.70	7.70	8.22	7.95	8.56	8.05	10.71	10.43	10.08	8.00	7.91	7.78	
5	7.70	7.70	8.20	7.95	8.79	8.02	11.41	9.45	9.31	8.00	7.91	7.74	
6	7.68	7.70	8.20	8.08	9.02	8.04	11.11	10.04	10.70	8.02	7.90	7.78	
7	7.66	7.74	8.02	8.15	9.43	8.44	9.63	10.25	12.34	8.02	7.90	7.78	
8	7.91	7.75	7.81	8.00	9.98	9.26	12.05	10.74	9.79	8.04	7.90	7.78	
9	8.19	7.73	7.85	8.19	9.47	9.57	12.95	10.58	8.91	8.05	7.90	7.77	
10	7.89	7.72	7.99	8.32	9.24	9.44	10.79	12.17	9.06	8.15	7.88	7.76	
11	7.86	7.86	8.11	8.54	8.72	8.84	9.78	12.28	8.79	10.04	7.83	7.76	
12	7.79	8.26	7.85	8.84	8.65	8.56	9.14	11.32	8.70	8.57	7.81	7.75	
13	7.76	8.02	7.90	8.75	8.53	8.39	9.27	9.82	8.58	8.05	7.78	7.74	
14	7.75	7.91	9.34	8.52	8.38	8.28	9.55	9.72	8.54	8.06	7.77	7.74	
15	7.74	7.83	9.32	8.82	8.36	8.25	11.36	13.67	8.50	8.13	7.76	7.74	
16	7.76	7.81	9.66	12.91	8.38	8.32	13.04	12.37	8.48	8.07	7.78	7.74	
17	7.76	7.79	11.59	9.82	8.35	9.51	10.06	16.21	8.42	8.06	7.90	7.72	
18	7.79	7.76	9.83	9.24	8.57	10.09	9.57	13.86	8.38	8.05	7.80	7.78	
19	7.83	7.78	9.04	9.28	8.54	9.24	9.51	10.72	8.25	8.04	7.80	7.76	
20	7.80	7.78	8.91	10.11	8.46	8.88	10.11	9.48	8.18	8.03	7.80	7.78	
21	7.77	7.74	7.93	10.13	8.34	8.58	10.81	8.83	8.17	7.99	7.83	7.76	
22	7.75	7.71	8.22	9.84	8.27	8.34	11.12	9.17	8.23	8.05	7.82	7.74	
23	7.74	7.71	8.82	9.82	7.98	8.56	9.68	9.24	8.21	8.04	7.82	7.74	
24	7.74	7.71	10.24	10.02	7.92	8.25	9.28	9.63	8.15	8.02	7.82	7.74	
25	7.75	7.80	9.93	9.90	8.28	8.36	9.20	8.74	8.14	8.02	7.98	7.78	
26	7.72	7.73	9.60	9.20	8.30	9.35	9.39	8.59	8.13	8.01	7.92	7.97	
27	7.70	7.82	8.74	8.97	8.36	8.83	9.41	9.23	8.14	8.00	7.80	7.97	
28	7.70	8.31	8.40	9.25	8.64	8.61	9.23	8.95	8.78	7.98	7.92	8.11	
29	7.70	8.02	8.37	9.33	8.34	9.45	9.89	8.60	8.49	7.98		8.00	
30	7.68	8.00	8.31	9.43	8.20	9.75	9.83	8.55	8.09	7.97		7.95	
31		7.98		9.38	8.04		10.43		8.04	7.96		7.94	
Mean	7.77	7.82	8.71	9.07	8.58	8.71	10.21	10.40	8.75	8.11	7.86	7.81	
Max	8.19	8.31	11.59	12.91	9.98	10.09	13.04	16.21	12.34	10.04	7.98	8.11	16.21
Min	7.66	7.70	7.81	7.95	7.92	8.02	8.59	8.55	8.04	7.96	7.76	7.72	7.66

Annual Max Momentary Gage Height	16.31	m. (MSL.) ,	at 07.00 Hours , on Nov 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	6.16	m. (MSL.)
Left Bank Elevation	19.25	m. (MSL.) ,			
Right Bank Elevation	18.88	m. (MSL.) ,	Drainage Area	946	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.88	1.25	16.50	6.25	22.50	5.25	14.80	32.10	13.80	5.50	4.50	3.38		
2	1.63	1.50	5.13	7.25	16.50	5.75	42.80	47.10	13.80	5.25	4.25	2.50		
3	1.50	1.50	7.50	5.50	10.65	5.75	36.33	39.30	13.40	5.25	4.25	2.50		
4	1.25	1.25	7.85	4.37	14.20	5.63	60.25	53.25	45.30	5.00	3.87	2.25		
5	1.25	1.25	7.50	4.37	19.75	5.25	77.75	33.88	31.65	5.00	3.87	1.75		
6	1.00	1.25	7.50	6.00	25.50	5.50	70.25	44.40	60.00	5.25	3.75	2.25		
7	0.75	1.75	5.25	6.87	33.53	11.80	37.03	49.13	107.75	5.25	3.75	2.25		
8	3.87	1.88	2.63	5.00	43.15	30.90	97.25	61.00	39.83	5.50	3.75	2.25		
9	7.37	1.63	3.13	7.37	34.23	35.97	131.37	57.00	22.75	5.63	3.75	2.13		
10	3.63	1.50	4.87	9.60	30.60	33.70	62.25	101.45	26.50	6.87	3.50	2.00		
11	3.25	3.25	6.37	13.80	18.00	21.00	39.65	105.50	19.75	44.40	2.88	2.00		
12	2.38	8.55	3.13	21.00	16.25	14.20	28.50	75.50	17.50	14.40	2.63	1.88		
13	2.00	5.25	3.75	18.75	13.60	10.83	31.05	40.35	14.60	5.63	2.25	1.75		
14	1.88	3.87	32.10	13.40	10.65	8.90	35.63	38.60	13.80	5.75	2.13	1.75		
15	1.75	2.88	31.80	20.50	10.30	8.38	76.50	166.52	13.00	6.63	2.00	1.75		
16	2.00	2.63	37.55	129.67	10.65	9.60	135.30	108.87	12.60	5.87	2.25	1.75		
17	2.00	2.38	82.25	40.35	10.13	34.93	44.85	381.25	11.40	5.75	3.75	1.50		
18	2.38	2.00	40.53	30.60	14.40	45.53	35.97	177.60	10.65	5.63	2.50	2.25		
19	2.88	2.25	26.00	31.20	13.80	30.60	34.93	60.50	8.38	5.50	2.50	2.00		
20	2.50	2.25	22.75	45.97	12.20	22.00	45.97	34.40	7.25	5.37	2.50	2.25		
21	2.13	1.75	4.12	46.43	9.95	14.60	62.75	20.75	7.13	4.87	2.88	2.00		
22	1.88	1.38	7.85	40.70	8.73	9.95	70.50	29.25	8.02	5.63	2.75	1.75		
23	1.75	1.38	20.50	40.35	4.75	14.20	37.90	30.60	7.68	5.50	2.75	1.75		
24	1.75	1.38	48.90	43.95	4.00	8.38	31.20	37.03	6.87	5.25	2.75	1.75		
25	1.88	2.50	42.28	41.75	8.90	10.30	30.00	18.50	6.75	5.25	4.75	2.25		
26	1.50	1.63	36.50	30.00	9.25	32.25	32.85	14.80	6.63	5.13	4.00	4.62		
27	1.25	2.75	18.50	24.25	10.30	20.75	33.18	30.45	6.75	5.00	2.50	4.62		
28	1.25	9.43	11.00	30.75	16.00	15.25	30.45	23.75	19.50	4.75	4.00	6.37		
29	1.25	5.25	10.48	31.95	9.95	33.88	41.58	15.00	12.80	4.75		5.00		
30	1.00	5.00	9.43	33.53	7.50	39.13	40.53	14.00	6.13	4.62		4.37		
31		4.75		32.70	5.50		53.25		5.50	4.50		4.25		
Total	62.79	87.27	563.65	824.18	475.42	550.16	1602.62	1941.83	597.47	214.68	91.01	80.87	7091.95	CMSDAY
Mean	2.09	2.82	18.79	26.59	15.34	18.34	51.70	64.73	19.27	6.93	3.25	2.61	19.43	CMS
Max	7.37	9.43	82.25	129.67	43.15	45.53	135.30	381.25	107.75	44.40	4.75	6.37	381.25	CMS
Min	0.75	1.25	2.63	4.37	4.00	5.25	14.80	14.00	5.50	4.50	2.00	1.50	0.75	CMS
Runoff	5.43	7.54	48.70	71.21	41.08	47.53	138.47	167.77	51.62	18.55	7.86	6.99	612.75	MCM

Momentary Peak 393.75 CMS. at 16.31 m. (MSL.) at 07.00 Hours , on Nov 17 , 2014

Runoff Yield 20.54 Liters/Second/Square KM. Momentary Peak Yield 416.226 Liters/Second/Square KM.

WATER YEAR : 2014

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

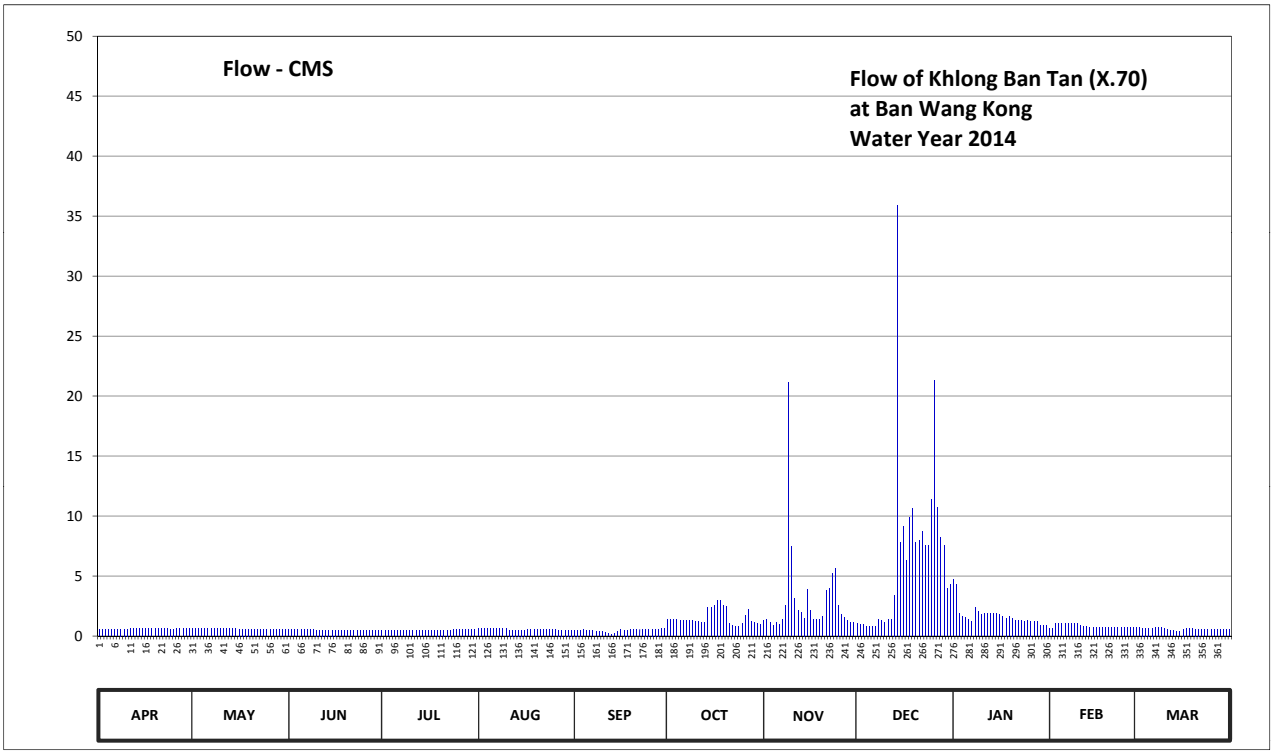
Location : on left bank upstream side of the bridge.

	Ban Wang Kong	**Amphoe** Mueang	**Changwat** Nakhon Si Thammarat
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 Flot	-		
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 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.67	15.72	15.66	15.63	15.70	15.65	15.98	15.96	15.89	16.52	15.70	15.75	
2	15.67	15.72	15.66	15.63	15.70	15.65	15.98	15.98	15.86	16.48	15.70	15.75	
3	15.67	15.72	15.66	15.63	15.70	15.65	15.98	15.91	15.85	16.09	15.89	15.73	
4	15.66	15.72	15.66	15.63	15.70	15.66	15.98	15.84	15.81	16.05	15.89	15.73	
5	15.66	15.71	15.66	15.63	15.70	15.64	15.97	15.90	15.80	16.03	15.89	15.73	
6	15.67	15.71	15.66	15.63	15.70	15.62	15.97	15.85	15.80	15.99	15.89	15.73	
7	15.68	15.71	15.66	15.63	15.70	15.62	15.97	15.98	15.80	15.94	15.89	15.74	
8	15.69	15.71	15.66	15.63	15.70	15.60	15.96	16.22	16.00	16.19	15.89	15.74	
9	15.69	15.70	15.66	15.63	15.70	15.60	15.96	18.19	15.96	16.13	15.89	15.75	
10	15.69	15.71	15.65	15.63	15.70	15.60	15.95	16.80	15.90	16.08	15.89	15.70	
11	15.70	15.70	15.65	15.63	15.65	15.55	15.94	16.32	16.00	16.10	15.82	15.68	
12	15.70	15.70	15.65	15.64	15.65	15.50	15.92	16.15	16.00	16.10	15.80	15.64	
13	15.71	15.70	15.65	15.64	15.65	15.46	15.92	16.11	16.37	16.10	15.80	15.63	
14	15.71	15.70	15.65	15.64	15.65	15.50	16.20	16.02	18.87	16.10	15.76	15.60	
15	15.72	15.70	15.65	15.64	15.65	15.60	16.20	16.43	17.06	16.09	15.76	15.60	
16	15.72	15.69	15.65	15.64	15.65	15.66	16.22	16.14	17.29	16.08	15.75	15.69	
17	15.72	15.69	15.64	15.64	15.67	15.65	16.30	16.00	16.68	16.04	15.75	15.70	
18	15.72	15.69	15.64	15.64	15.67	15.65	16.30	16.00	17.39	16.02	15.75	15.70	
19	15.72	15.69	15.64	15.65	15.67	15.67	16.22	15.99	17.46	16.05	15.75	15.70	
20	15.71	15.68	15.64	15.65	15.67	15.68	16.21	16.04	17.05	16.02	15.74	15.69	
21	15.71	15.68	15.64	15.65	15.68	15.68	15.87	16.42	17.09	15.97	15.75	15.69	
22	15.70	15.67	15.64	15.65	15.68	15.68	15.82	16.44	17.24	15.96	15.75	15.68	
23	15.70	15.67	15.64	15.65	15.68	15.68	15.80	16.57	16.92	15.96	15.75	15.68	
24	15.69	15.67	15.64	15.66	15.68	15.69	15.80	16.61	16.89	15.94	15.75	15.67	
25	15.69	15.67	15.64	15.66	15.68	15.69	15.88	16.23	17.54	15.96	15.75	15.67	
26	15.70	15.67	15.63	15.66	15.67	15.69	16.07	16.08	18.20	15.95	15.75	15.67	
27	15.70	15.67	15.63	15.68	15.65	15.69	16.16	16.03	17.47	15.94	15.75	15.66	
28	15.71	15.66	15.63	15.68	15.65	15.69	15.93	15.96	17.16	15.94	15.75	15.66	
29	15.72	15.66	15.63	15.68	15.65	15.72	15.90	15.91	16.93	15.84		15.66	
30	15.72	15.66	15.63	15.68	15.65	15.72	15.87	15.90	16.44	15.84		15.66	
31		15.66		15.68	15.65		15.85		16.48	15.84		15.66	
Mean	15.70	15.69	15.65	15.65	15.67	15.64	16.00	16.20	16.68	16.04	15.79	15.69	
Max	15.72	15.72	15.66	15.68	15.70	15.72	16.30	18.19	18.87	16.52	15.89	15.75	18.87
Min	15.66	15.66	15.63	15.63	15.65	15.46	15.80	15.84	15.80	15.84	15.70	15.60	15.46

Annual Max Momentary Gage Height	19.40	m. (MSL.) ,	at 11.00 Hours , on Dec 14 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	15.52	m. (MSL.)
Left Bank Elevation	22.24	m. (MSL.) ,			
Right Bank Elevation	22.20	m. (MSL.) ,	Drainage Area	36	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.54	0.64	0.52	0.46	0.60	0.50	1.34	1.28	1.07	4.70	0.60	0.70		
2	0.54	0.64	0.52	0.46	0.60	0.50	1.34	1.34	0.98	4.32	0.60	0.70		
3	0.54	0.64	0.52	0.46	0.60	0.50	1.34	1.13	0.95	1.85	1.07	0.66		
4	0.52	0.64	0.52	0.46	0.60	0.52	1.34	0.92	0.83	1.65	1.07	0.66		
5	0.52	0.62	0.52	0.46	0.60	0.48	1.31	1.10	0.80	1.55	1.07	0.66		
6	0.54	0.62	0.52	0.46	0.60	0.44	1.31	0.95	0.80	1.37	1.07	0.66		
7	0.56	0.62	0.52	0.46	0.60	0.44	1.31	1.34	0.80	1.22	1.07	0.68		
8	0.58	0.62	0.52	0.46	0.60	0.40	1.28	2.52	1.40	2.35	1.07	0.68		
9	0.58	0.60	0.52	0.46	0.60	0.40	1.28	21.12	1.28	2.05	1.07	0.70		
10	0.58	0.62	0.50	0.46	0.60	0.40	1.25	7.50	1.10	1.80	1.07	0.60		
11	0.60	0.60	0.50	0.46	0.50	0.30	1.22	3.12	1.40	1.90	0.86	0.56		
12	0.60	0.60	0.50	0.48	0.50	0.20	1.16	2.15	1.40	1.90	0.80	0.48		
13	0.62	0.60	0.50	0.48	0.50	0.12	1.16	1.95	3.42	1.90	0.80	0.46		
14	0.62	0.60	0.50	0.48	0.50	0.20	2.40	1.50	35.88	1.90	0.72	0.40		
15	0.64	0.60	0.50	0.48	0.50	0.40	2.40	3.87	7.84	1.85	0.72	0.40		
16	0.64	0.58	0.50	0.48	0.50	0.52	2.52	2.10	9.12	1.80	0.70	0.58		
17	0.64	0.58	0.48	0.48	0.54	0.50	3.00	1.40	6.30	1.60	0.70	0.60		
18	0.64	0.58	0.48	0.48	0.54	0.50	3.00	1.40	9.92	1.50	0.70	0.60		
19	0.64	0.58	0.48	0.50	0.54	0.54	2.52	1.37	10.60	1.65	0.70	0.60		
20	0.62	0.56	0.48	0.50	0.54	0.56	2.46	1.60	7.80	1.50	0.68	0.58		
21	0.62	0.56	0.48	0.50	0.56	0.56	1.01	3.78	7.96	1.31	0.70	0.58		
22	0.60	0.54	0.48	0.50	0.56	0.56	0.86	3.96	8.72	1.28	0.70	0.56		
23	0.60	0.54	0.48	0.50	0.56	0.56	0.80	5.20	7.56	1.28	0.70	0.56		
24	0.58	0.54	0.48	0.52	0.56	0.58	0.80	5.60	7.55	1.22	0.70	0.54		
25	0.58	0.54	0.48	0.52	0.56	0.58	1.04	2.58	11.40	1.28	0.70	0.54		
26	0.60	0.54	0.46	0.52	0.54	0.58	1.75	1.80	21.30	1.25	0.70	0.54		
27	0.60	0.54	0.46	0.56	0.50	0.58	2.20	1.55	10.70	1.22	0.70	0.52		
28	0.62	0.52	0.46	0.56	0.50	0.58	1.19	1.28	8.24	1.22	0.70	0.52		
29	0.64	0.52	0.46	0.56	0.50	0.64	1.10	1.13	7.57	0.92		0.52		
30	0.64	0.52	0.46	0.56	0.50	0.64	1.01	1.10	3.96	0.92		0.52		
31		0.52		0.56	0.50		0.95		4.32	0.92		0.52		
Total	17.84	18.02	14.80	15.28	17.00	14.28	47.65	87.64	202.97	53.18	22.74	17.88	529.28	CMSDAY
Mean	0.59	0.58	0.49	0.49	0.55	0.48	1.54	2.92	6.55	1.72	0.81	0.58	1.45	CMS
Max	0.64	0.64	0.52	0.56	0.60	0.64	3.00	21.12	35.88	4.70	1.07	0.70	35.88	CMS
Min	0.52	0.52	0.46	0.46	0.50	0.12	0.80	0.92	0.80	0.92	0.60	0.40	0.12	CMS
Runoff	1.54	1.56	1.28	1.32	1.47	1.23	4.12	7.57	17.54	4.60	1.97	1.55	45.73	MCM

Momentary Peak 50.40 CMS. at 19.40 m. (MSL.) at 11.00 Hours , on Dec 14 , 2014

Runoff Yield 40.28 Liters/Second/Square KM. Momentary Peak Yield 1381.579 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Kolok River at Lantu Bridge , Narathiwat (X.119A)

Lat 06 - 01 - 13 N Long 101 - 58 - 40 E

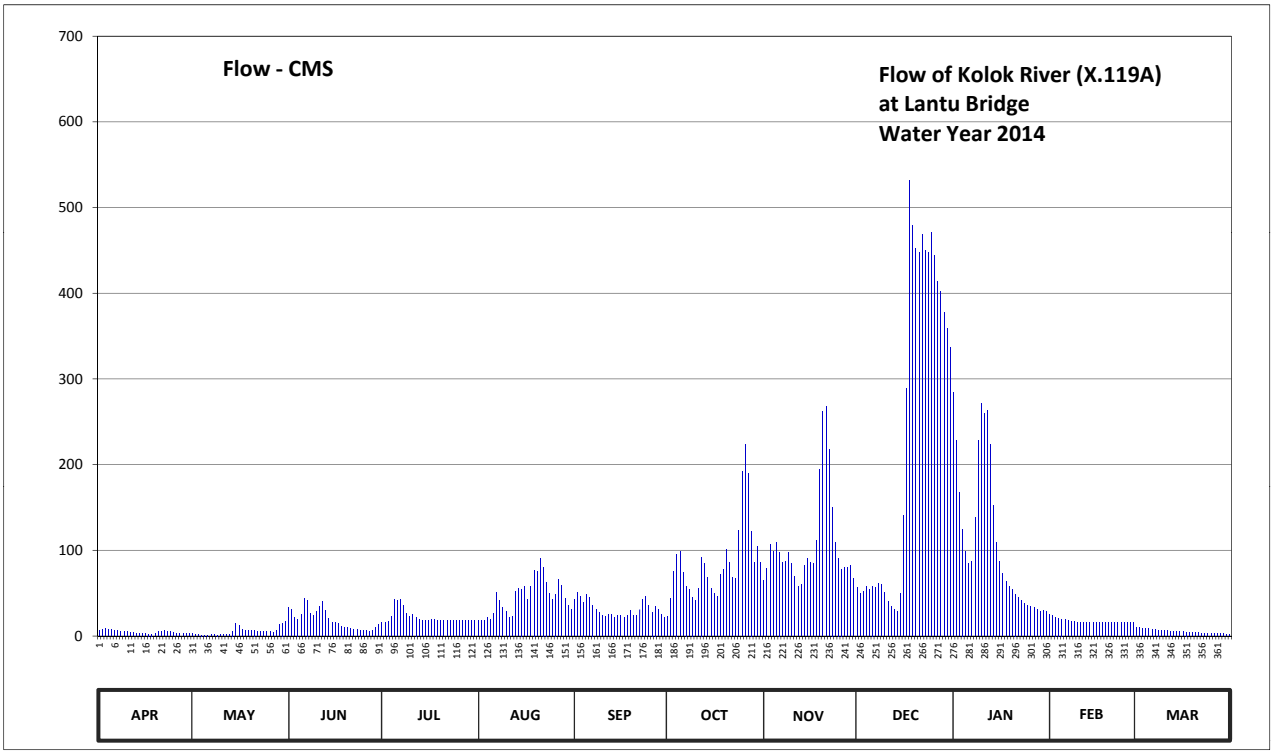
Location : on left bank at the bridge.

	Ban -	**Amphoe**	Sungai Kolok	**Changwat**	Narathiwat
Drainge Area	1,358 sq.km.				
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+0.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank in front of gage observer's house.			**Elevation**	+10.000 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	1988 to date				
Rating Operation					
Period of Rating	1988 to date				
Rated by Flot	-				
Rated by Current Meter	2004 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	Overbank flow starts at elevation +9.760 m.(MSL.), records are channel flow only.				
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.31	3.14	4.44	3.76	3.83	4.76	4.04	5.44	5.21	8.93	4.12	3.50	
2	3.37	3.11	4.35	3.76	3.83	5.02	4.80	5.85	4.98	8.38	4.06	3.48	
3	3.45	3.08	3.99	3.82	3.86	4.88	5.74	6.50	5.08	7.62	4.01	3.45	
4	3.40	3.06	3.92	4.04	4.01	4.66	6.26	6.32	5.26	6.87	3.96	3.43	
5	3.37	3.06	4.14	4.74	3.91	4.94	6.32	6.55	5.13	6.33	3.92	3.42	
6	3.34	3.06	4.78	4.72	4.19	4.82	5.72	6.31	5.27	5.99	3.88	3.40	
7	3.32	3.07	4.73	4.77	5.01	4.54	5.27	6.01	5.23	6.06	3.85	3.37	
8	3.29	3.08	4.18	4.52	4.73	4.36	5.15	6.06	5.36	7.11	3.81	3.35	
9	3.26	3.06	4.10	4.18	4.43	4.20	4.85	6.29	5.32	8.38	3.78	3.33	
10	3.24	3.08	4.28	4.04	4.26	4.08	4.70	6.00	5.01	8.81	3.77	3.32	
11	3.22	3.07	4.49	4.11	4.01	4.02	5.19	5.58	4.69	8.70	3.77	3.32	
12	3.20	3.11	4.69	4.01	4.02	4.13	6.18	5.25	4.49	8.74	3.77	3.30	
13	3.17	3.10	4.33	3.90	5.06	4.11	5.99	5.33	4.37	8.33	3.77	3.26	
14	3.15	3.30	3.94	3.83	5.17	4.01	5.55	5.94	4.28	7.38	3.77	3.25	
15	3.14	3.70	3.76	3.83	5.16	4.09	5.19	6.14	5.00	6.56	3.77	3.26	
16	3.13	3.61	3.75	3.83	5.26	4.08	4.98	6.01	7.15	6.06	3.76	3.25	
17	3.12	3.36	3.70	3.88	4.75	3.98	4.86	5.98	8.97	5.69	3.76	3.23	
18	3.12	3.34	3.59	3.92	5.24	4.06	5.65	6.61	10.38	5.43	3.76	3.22	
19	3.17	3.32	3.52	3.83	5.80	4.32	5.82	7.99	10.14	5.24	3.76	3.21	
20	3.24	3.34	3.50	3.83	5.74	4.07	6.37	8.73	10.01	5.14	3.76	3.20	
21	3.29	3.35	3.45	3.83	6.13	4.08	6.02	8.78	9.99	4.97	3.76	3.18	
22	3.31	3.29	3.39	3.83	5.89	4.36	5.55	8.27	10.09	4.82	3.76	3.17	
23	3.29	3.29	3.36	3.83	5.40	4.76	5.52	7.34	10.00	4.71	3.76	3.15	
24	3.24	3.25	3.35	3.83	5.00	4.86	6.84	6.55	9.99	4.61	3.76	3.14	
25	3.19	3.27	3.33	3.83	4.76	4.51	7.95	6.15	10.10	4.52	3.76	3.13	
26	3.17	3.24	3.32	3.83	4.97	4.24	8.33	5.83	9.97	4.47	3.76	3.15	
27	3.14	3.20	3.29	3.83	5.49	4.50	7.93	5.88	9.81	4.43	3.76	3.14	
28	3.15	3.33	3.34	3.83	5.28	4.36	6.83	5.88	9.74	4.36	3.76	3.14	
29	3.16	3.66	3.51	3.83	4.79	4.11	6.03	5.94	9.60	4.29		3.14	
30	3.14	3.73	3.66	3.83	4.52	3.98	6.46	5.52	9.48	4.30		3.11	
31		3.80		3.83	4.34		6.03		9.34	4.26		3.08	
Mean	3.24	3.27	3.87	3.98	4.80	4.36	5.87	6.37	7.40	6.18	3.82	3.26	
Max	3.45	3.80	4.78	4.77	6.13	5.02	8.33	8.78	10.38	8.93	4.12	3.50	10.38
Min	3.12	3.06	3.29	3.76	3.83	3.98	4.04	5.25	4.28	4.26	3.76	3.08	3.06

Annual Max Momentary Gage Height	10.50	m. (MSL.) ,	at 10.00 Hours , on Dec 18 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	1.09	m. (MSL.)
Left Bank Elevation	10.65	m. (MSL.) ,			
Right Bank Elevation	9.75	m. (MSL.) ,	Drainage Area	1358	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.20	2.80	33.20	16.00	17.75	42.80	23.00	64.40	56.35	284.30	25.00	10.00		
2	7.40	2.20	30.75	16.00	17.75	50.60	44.00	79.00	49.40	228.20	23.50	9.60		
3	9.00	1.60	21.75	17.50	18.50	46.40	74.90	106.50	52.40	167.40	22.25	9.00		
4	8.00	1.20	20.00	23.00	22.25	39.80	95.70	98.40	58.10	124.85	21.00	8.60		
5	7.40	1.20	25.50	42.20	19.75	48.20	98.40	108.75	53.90	98.85	20.00	8.40		
6	6.80	1.20	43.40	41.60	26.75	44.60	74.20	97.95	58.45	84.60	19.00	8.00		
7	6.40	1.40	41.90	43.10	50.30	36.20	58.45	85.40	57.05	87.40	18.25	7.40		
8	5.80	1.60	26.50	35.60	41.90	31.00	54.50	87.40	61.60	138.05	17.25	7.00		
9	5.20	1.20	24.50	26.50	32.90	27.00	45.50	97.05	60.20	228.20	16.50	6.60		
10	4.80	1.60	29.00	23.00	28.50	24.00	41.00	85.00	50.30	271.10	16.25	6.40		
11	4.40	1.40	34.70	24.75	22.25	22.50	55.70	69.30	40.70	259.50	16.25	6.40		
12	4.00	2.20	40.70	22.25	22.50	25.25	92.20	57.75	34.70	263.70	16.25	6.00		
13	3.40	2.00	30.25	19.50	51.80	24.75	84.60	60.55	31.25	223.70	16.25	5.20		
14	3.00	6.00	20.50	17.75	55.10	22.25	68.25	82.60	29.00	152.90	16.25	5.00		
15	2.80	14.50	16.00	17.75	54.80	24.25	55.70	90.60	50.00	109.20	16.25	5.20		
16	2.60	12.25	15.75	17.75	58.10	24.00	49.40	85.40	140.25	87.40	16.00	5.00		
17	2.40	7.20	14.50	19.00	42.50	21.50	45.80	84.20	288.70	73.15	16.00	4.60		
18	2.40	6.80	11.80	20.00	57.40	23.50	71.75	111.50	531.60	64.05	16.00	4.40		
19	3.40	6.40	10.40	17.75	77.00	30.00	77.80	195.20	479.40	57.40	16.00	4.20		
20	4.80	6.80	10.00	17.75	74.90	23.75	100.65	262.65	452.10	54.20	16.00	4.00		
21	5.80	7.00	9.00	17.75	90.20	24.00	85.80	267.90	448.10	49.10	16.00	3.60		
22	6.20	5.80	7.80	17.75	80.60	31.00	68.25	218.30	468.90	44.60	16.00	3.40		
23	5.80	5.80	7.20	17.75	63.00	42.80	67.20	150.70	450.00	41.30	16.00	3.00		
24	4.80	5.00	7.00	17.75	50.00	45.80	123.20	108.75	448.10	38.30	16.00	2.80		
25	3.80	5.40	6.60	17.75	42.80	35.30	192.00	91.00	471.00	35.60	16.00	2.60		
26	3.40	4.80	6.40	17.75	49.10	28.00	223.70	78.20	444.30	34.10	16.00	3.00		
27	2.80	4.00	5.80	17.75	66.15	35.00	190.40	80.20	413.90	32.90	16.00	2.80		
28	3.00	6.60	6.80	17.75	58.80	31.00	122.65	80.20	401.80	31.00	16.00	2.80		
29	3.20	13.50	10.20	17.75	43.70	24.75	86.20	82.60	378.00	29.25		2.80		
30	2.80	15.25	13.50	17.75	35.60	21.50	104.70	67.20	358.80	29.50		2.20		
31		17.00		17.75	30.50		86.20		337.00	28.50		1.60		
Total	141.80	171.70	581.40	674.00	1403.15	951.50	2661.80	3234.65	7255.35	3452.30	488.25	161.60	21177.50	CMSDAY
Mean	4.73	5.54	19.38	21.74	45.26	31.72	85.86	107.82	234.04	111.36	17.44	5.21	58.02	CMS
Max	9.00	17.00	43.40	43.10	90.20	50.60	223.70	267.90	531.60	284.30	25.00	10.00	531.60	CMS
Min	2.40	1.20	5.80	16.00	17.75	21.50	23.00	57.75	29.00	28.50	16.00	1.60	1.20	CMS
Runoff	12.25	14.84	50.23	58.23	121.23	82.21	229.98	279.47	626.86	298.28	42.19	13.96	1829.74	MCM

Momentary Peak 559.52 CMS. at 10.50 m. (MSL.) at 10.00 Hours , on Dec 18 , 2014

Runoff Yield 42.72 Liters/Second/Square KM. Momentary Peak Yield 412.018 Liters/Second/Square KM.

WATER YEAR : 2014

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

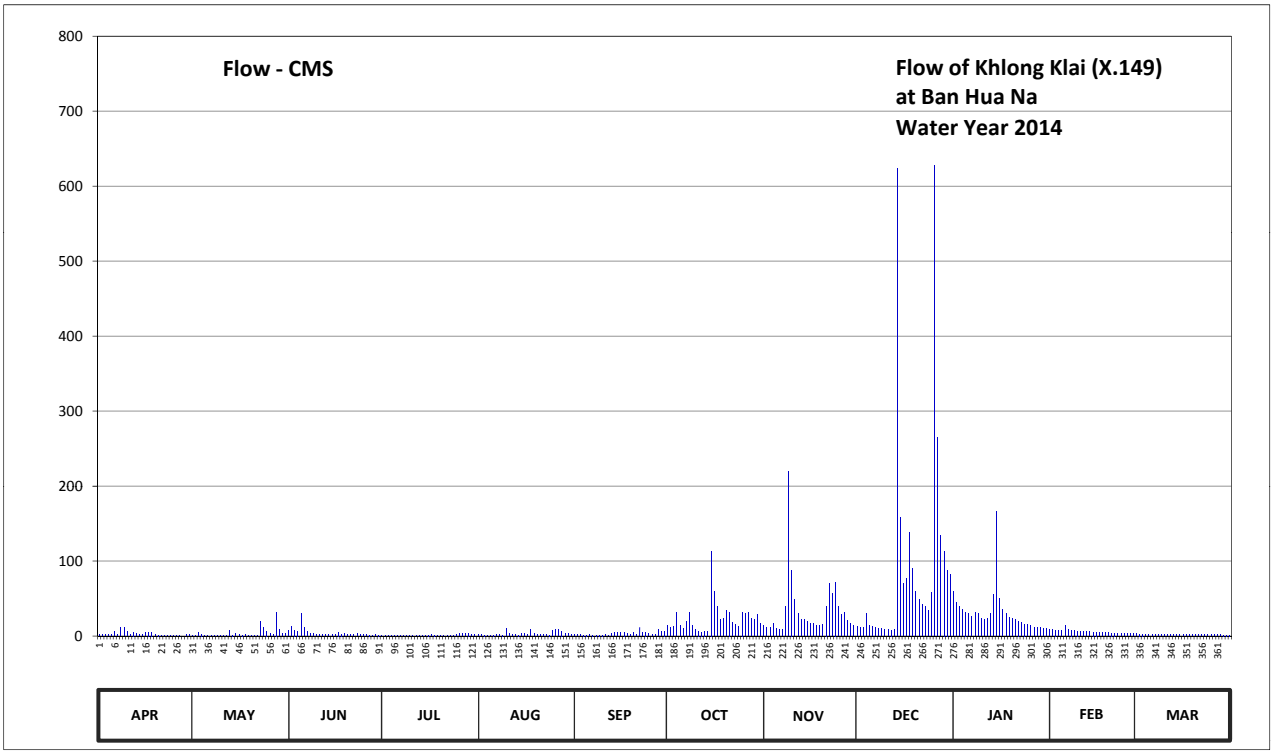
Location : on left bank at Ban Hua Na.

	Ban Hua Na	**Amphoe** Nopphitam	**Changwat** Nakhon Si Thammarat
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 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 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.99	28.93	29.18	28.93	29.02	29.00	29.33	29.32	29.31	29.81	29.23	29.05	
2	28.98	28.93	29.31	28.93	28.98	28.99	29.28	29.29	29.28	29.69	29.21	29.04	
3	28.97	29.11	29.20	28.92	28.94	28.96	29.31	29.30	29.30	29.63	29.20	29.04	
4	28.97	29.04	29.17	28.91	28.92	28.95	29.54	29.36	29.52	29.59	29.19	29.03	
5	28.97	28.91	29.53	28.90	28.92	28.94	29.32	29.26	29.33	29.55	29.19	29.03	
6	29.15	28.90	29.29	28.89	28.95	28.96	29.24	29.23	29.31	29.53	29.33	29.03	
7	28.98	28.91	29.14	28.89	28.99	28.95	29.39	29.23	29.29	29.48	29.22	29.02	
8	29.27	28.83	29.09	28.90	28.97	28.94	29.54	29.63	29.25	29.54	29.20	29.01	
9	29.29	28.84	29.05	28.92	28.94	28.94	29.32	30.70	29.25	29.52	29.18	29.00	
10	29.15	28.83	29.02	28.91	29.26	28.95	29.22	30.00	29.23	29.44	29.17	28.99	
11	28.98	28.93	28.98	28.89	29.05	28.97	29.17	29.72	29.22	29.43	29.16	28.99	
12	29.13	28.85	29.02	28.88	28.98	28.93	29.13	29.52	29.20	29.44	29.15	28.99	
13	29.05	29.18	29.01	28.91	28.97	29.05	29.17	29.43	29.23	29.52	29.15	29.01	
14	29.02	28.94	29.02	28.89	28.95	29.11	29.16	29.42	31.79	29.78	29.14	29.00	
15	28.98	29.07	28.98	28.93	29.07	29.11	30.16	29.39	30.39	30.43	29.13	28.99	
16	29.11	29.03	28.97	28.95	29.09	29.12	29.81	29.36	29.89	29.73	29.13	28.98	
17	29.13	28.94	29.13	28.97	29.02	29.13	29.63	29.36	29.93	29.59	29.12	28.97	
18	29.13	28.99	29.04	28.95	29.22	29.09	29.43	29.32	30.29	29.53	29.12	28.97	
19	28.97	28.89	29.05	28.91	29.08	29.03	29.44	29.32	30.01	29.46	29.11	28.97	
20	28.94	28.85	28.98	28.89	28.99	29.12	29.57	29.34	29.81	29.44	29.11	28.96	
21	28.90	28.82	28.97	28.87	29.03	29.02	29.55	29.64	29.72	29.42	29.10	28.96	
22	28.86	28.81	28.96	28.87	28.99	29.29	29.38	29.89	29.66	29.40	29.10	28.96	
23	28.85	29.39	29.07	28.86	28.97	29.12	29.34	29.79	29.63	29.38	29.09	29.00	
24	28.84	29.28	28.99	28.86	28.95	29.13	29.31	29.90	29.57	29.35	29.08	28.98	
25	28.83	29.17	28.97	28.97	29.19	29.06	29.55	29.63	29.80	29.34	29.08	28.97	
26	28.81	29.06	28.96	29.07	29.21	29.03	29.53	29.51	31.80	29.32	29.06	28.97	
27	28.81	28.96	28.95	29.08	29.22	29.02	29.54	29.54	30.84	29.30	29.05	28.96	
28	28.80	29.55	28.92	29.08	29.17	29.22	29.44	29.41	30.27	29.29	29.05	28.96	
29	28.97	29.21	28.96	29.10	29.09	29.14	29.42	29.36	30.16	29.28		28.95	
30	28.97	29.09	28.94	29.02	29.08	29.17	29.51	29.32	30.00	29.26		28.95	
31		29.07		29.00	29.03		29.36		29.96	29.25		28.94	
Mean	28.99	29.01	29.06	28.94	29.04	29.05	29.42	29.52	29.81	29.51	29.14	28.99	
Max	29.29	29.55	29.53	29.10	29.26	29.29	30.16	30.70	31.80	30.43	29.33	29.05	31.80
Min	28.80	28.81	28.92	28.86	28.92	28.93	29.13	29.23	29.20	29.25	29.05	28.94	28.80

Annual Max Momentary Gage Height	32.70	m. (MSL.) ,	at 18.00 Hours , on Dec 26 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	26.57	m. (MSL.)
Left Bank Elevation	35.96	m. (MSL.) ,			
Right Bank Elevation	35.96	m. (MSL.) ,	Drainage Area	475	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.90	1.30	7.20	1.30	2.40	2.00	14.40	13.60	12.80	59.40	9.20	3.00		
2	1.80	1.30	12.80	1.30	1.80	1.90	11.20	11.60	11.20	45.00	8.40	2.80		
3	1.70	4.40	8.00	1.20	1.40	1.60	12.80	12.00	12.00	39.00	8.00	2.80		
4	1.70	2.80	6.80	1.10	1.20	1.50	31.20	16.80	29.60	35.20	7.60	2.60		
5	1.70	1.10	30.40	1.00	1.20	1.40	13.60	10.40	14.40	32.00	7.60	2.60		
6	6.00	1.00	11.60	0.90	1.50	1.60	9.60	9.20	12.80	30.40	14.40	2.60		
7	1.80	1.10	5.60	0.90	1.90	1.50	19.20	9.20	11.60	26.40	8.80	2.40		
8	10.80	0.30	3.80	1.00	1.70	1.40	31.20	39.00	10.00	31.20	8.00	2.20		
9	11.60	0.40	3.00	1.20	1.40	1.40	13.60	220.00	10.00	29.60	7.20	2.00		
10	6.00	0.30	2.40	1.10	10.40	1.50	8.80	88.00	9.20	23.20	6.80	1.90		
11	1.80	1.30	1.80	0.90	3.00	1.70	6.80	48.40	8.80	22.40	6.40	1.90		
12	5.20	0.50	2.40	0.80	1.80	1.30	5.20	29.60	8.00	23.20	6.00	1.90		
13	3.00	7.20	2.20	1.10	1.70	3.00	6.80	22.40	9.20	29.60	6.00	2.20		
14	2.40	1.40	2.40	0.90	1.50	4.40	6.40	21.60	623.20	55.60	5.60	2.00		
15	1.80	3.40	1.80	1.30	3.40	4.40	113.60	19.20	158.00	166.00	5.20	1.90		
16	4.40	2.60	1.70	1.50	3.80	4.80	59.40	16.80	70.60	49.60	5.20	1.80		
17	5.20	1.40	5.20	1.70	2.40	5.20	39.00	16.80	76.80	35.20	4.80	1.70		
18	5.20	1.90	2.80	1.50	8.80	3.80	22.40	13.60	138.00	30.40	4.80	1.70		
19	1.70	0.90	3.00	1.10	3.60	2.60	23.20	13.60	89.60	24.80	4.40	1.70		
20	1.40	0.50	1.80	0.90	1.90	4.80	33.60	15.20	59.40	23.20	4.40	1.60		
21	1.00	0.20	1.70	0.70	2.60	2.40	32.00	40.00	48.40	21.60	4.00	1.60		
22	0.60	0.10	1.60	0.70	1.90	11.60	18.40	70.60	42.00	20.00	4.00	1.60		
23	0.50	19.20	3.40	0.60	1.70	4.80	15.20	56.80	39.00	18.40	3.80	2.00		
24	0.40	11.20	1.90	0.60	1.50	5.20	12.80	72.00	33.60	16.00	3.60	1.80		
25	0.30	6.80	1.70	1.70	7.60	3.20	32.00	39.00	58.00	15.20	3.60	1.70		
26	0.10	3.20	1.60	3.40	8.40	2.60	30.40	28.80	628.00	13.60	3.20	1.70		
27	0.10	1.60	1.50	3.60	8.80	2.40	31.20	31.20	264.80	12.00	3.00	1.60		
28	0.00	32.00	1.20	3.60	6.80	8.80	23.20	20.80	134.00	11.60	3.00	1.60		
29	1.70	8.40	1.60	4.00	3.80	5.60	21.60	16.80	113.60	11.20		1.50		
30	1.70	3.80	1.40	2.40	3.60	6.80	28.80	13.60	88.00	10.40		1.50		
31		3.40		2.00	2.60		16.80		81.60	10.00		1.40		
Total	83.50	125.00	134.30	46.00	106.10	105.20	744.40	1036.60	2906.20	971.40	167.00	61.30	6487.00	CMSDAY
Mean	2.78	4.03	4.48	1.48	3.42	3.51	24.01	34.55	93.75	31.34	5.96	1.98	17.77	CMS
Max	11.60	32.00	30.40	4.00	10.40	11.60	113.60	220.00	628.00	166.00	14.40	3.00	628.00	CMS
Min	0.00	0.10	1.20	0.60	1.20	1.30	5.20	9.20	8.00	10.00	3.00	1.40	0.00	CMS
Runoff	7.21	10.80	11.60	3.97	9.17	9.09	64.32	89.56	251.10	83.93	14.43	5.30	560.48	MCM

Momentary Peak 1428.00 CMS. at 32.70 m. (MSL.) at 18.00 Hours , on Dec 26 , 2014

Runoff Yield 37.42 Liters/Second/Square KM. Momentary Peak Yield 3005.620 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

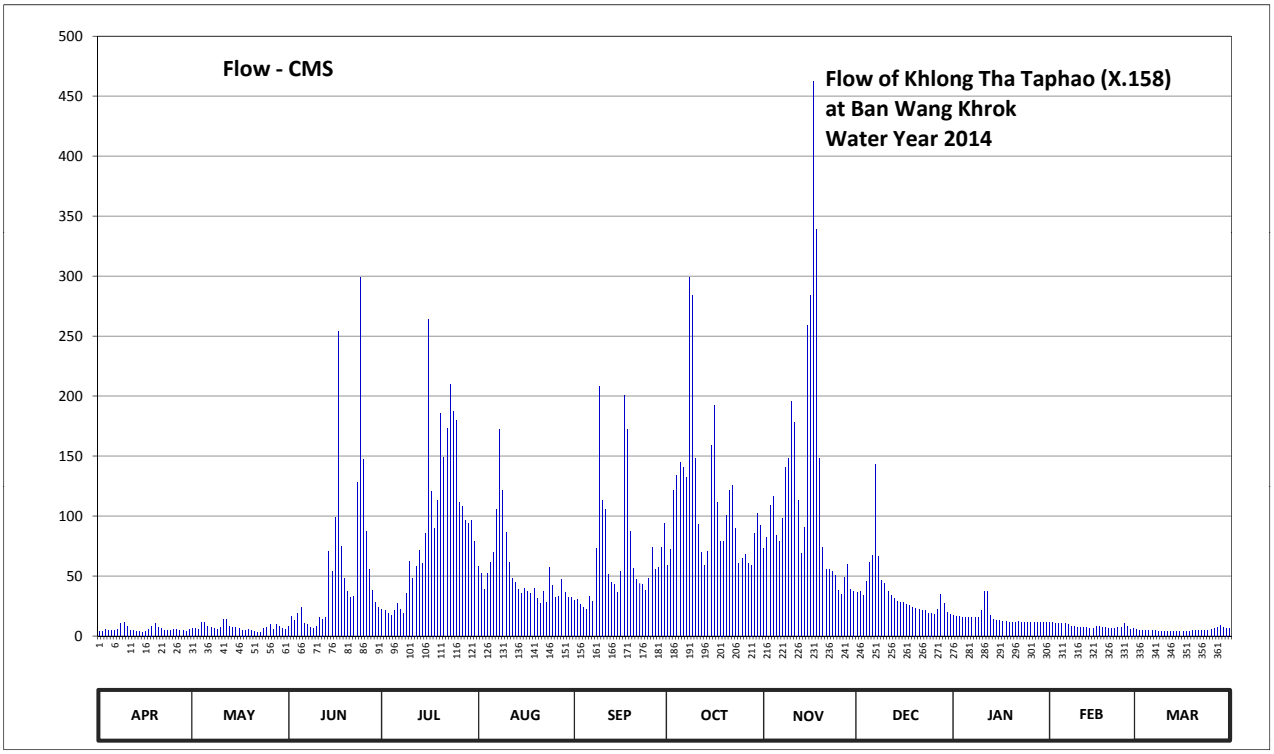
Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban Wang Khrok	**Amphoe** Tha Sae	**Changwat** Chumphon
Drainge Area	1,814 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1 meters from the top staff gage.	**Elevation**	+11.796 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1990 to date		
Rated by Flot	-		
Rated by Current Meter	1990 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.05	3.22	3.28	3.62	4.42	3.80	4.45	4.72	3.94	3.51	3.37	3.19	
2	3.06	3.20	3.49	3.61	4.29	3.81	4.70	4.87	3.97	3.50	3.37	3.13	
3	3.18	3.18	3.42	3.55	4.00	3.72	5.52	5.31	3.88	3.50	3.36	3.11	
4	3.13	3.37	3.55	3.51	4.29	3.66	5.71	5.44	4.14	3.48	3.36	3.10	
5	3.09	3.38	3.66	3.60	4.50	3.63	5.85	4.90	4.50	3.48	3.36	3.11	
6	3.13	3.27	3.34	3.74	4.66	3.87	5.79	4.82	4.62	3.48	3.35	3.13	
7	3.17	3.25	3.31	3.62	5.26	3.78	5.69	5.13	5.83	3.47	3.33	3.10	
8	3.34	3.21	3.25	3.56	6.22	4.72	7.69	5.80	4.61	3.47	3.28	3.08	
9	3.37	3.15	3.22	3.93	5.52	6.68	7.52	5.89	4.16	3.47	3.26	3.07	
10	3.28	3.25	3.27	4.52	4.94	5.39	5.89	6.53	4.10	3.60	3.25	3.06	
11	3.12	3.44	3.47	4.21	4.50	5.26	5.05	6.30	3.96	3.95	3.25	3.05	
12	3.13	3.44	3.45	4.43	4.20	4.27	4.66	5.39	3.88	3.95	3.25	3.04	
13	3.03	3.27	3.48	4.69	4.13	4.13	4.44	4.65	3.83	3.51	3.23	3.04	
14	3.03	3.25	4.68	4.47	4.00	4.08	4.67	5.01	3.78	3.44	3.22	3.03	
15	3.00	3.23	4.32	4.93	3.92	3.94	6.04	7.24	3.75	3.43	3.21	3.03	
16	3.08	3.20	5.15	7.30	4.02	4.33	6.48	7.52	3.75	3.42	3.27	3.03	
17	3.16	3.14	7.19	5.51	3.96	6.60	5.36	9.33	3.72	3.41	3.28	3.04	
18	3.28	3.14	4.75	5.00	3.92	6.22	4.82	8.10	3.70	3.40	3.25	3.07	
19	3.34	3.18	4.20	5.38	4.02	4.96	4.82	5.89	3.67	3.39	3.23	3.11	
20	3.24	3.14	3.97	6.40	3.83	4.39	5.18	4.73	3.65	3.38	3.22	3.13	
21	3.21	3.06	3.85	5.91	3.74	4.18	5.52	4.37	3.62	3.37	3.21	3.13	
22	3.13	3.01	3.86	6.23	3.95	4.11	5.59	4.37	3.60	3.41	3.21	3.12	
23	3.10	3.00	5.63	6.70	3.76	4.09	4.99	4.32	3.60	3.38	3.23	3.12	
24	3.09	3.20	7.69	6.42	4.40	3.98	4.47	4.26	3.56	3.38	3.24	3.11	
25	3.16	3.25	5.88	6.32	4.07	4.21	4.57	3.98	3.56	3.37	3.34	3.16	
26	3.19	3.31	4.96	5.36	3.84	4.73	4.63	3.90	3.54	3.37	3.27	3.22	
27	3.12	3.16	4.36	5.30	3.87	4.36	4.47	4.22	3.62	3.37	3.19	3.24	
28	3.09	3.32	3.98	5.11	4.18	4.40	4.45	4.46	3.90	3.39	3.22	3.30	
29	3.07	3.26	3.76	5.07	3.94	4.73	4.93	4.00	3.73	3.39		3.25	
30	3.15	3.21	3.66	5.11	3.84	5.07	5.21	3.97	3.57	3.38		3.22	
31		3.15		4.81	3.84		5.04		3.54	3.38		3.20	
Mean	3.15	3.22	4.20	4.90	4.26	4.50	5.30	5.31	3.91	3.47	3.27	3.12	
Max	3.37	3.44	7.69	7.30	6.22	6.68	7.69	9.33	5.83	3.95	3.37	3.30	9.33
Min	3.00	3.00	3.22	3.51	3.74	3.63	4.44	3.90	3.54	3.37	3.19	3.03	3.00

Annual Max Momentary Gage Height	9.40	m. (MSL.) ,	at 12.00 Hours , on Nov 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	0.80	m. (MSL.)
Left Bank Elevation	14.50	m. (MSL.) ,			
Right Bank Elevation	14.45	m. (MSL.) ,	Drainage Area	1814	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.75	6.60	8.40	21.90	57.90	30.00	59.25	73.20	36.30	16.95	11.10	5.85		
2	3.90	6.00	16.05	21.45	52.05	30.45	72.00	82.20	37.65	16.50	11.10	4.95		
3	5.70	5.70	12.90	18.75	39.00	26.40	121.20	108.60	33.60	16.50	10.80	4.65		
4	4.95	11.10	18.75	16.95	52.05	23.70	134.25	116.40	45.30	15.60	10.80	4.50		
5	4.35	11.40	23.70	21.00	61.50	22.35	144.75	84.00	61.50	15.60	10.80	4.65		
6	4.95	8.10	10.20	27.30	69.60	33.15	140.25	79.20	67.20	15.60	10.50	4.95		
7	5.55	7.50	9.30	21.90	105.60	29.10	132.75	97.80	143.25	15.15	9.90	4.50		
8	10.20	6.30	7.50	19.20	172.50	73.20	299.10	141.00	66.60	15.15	8.40	4.20		
9	11.10	5.25	6.60	35.85	121.20	208.20	283.80	147.75	46.20	15.15	7.80	4.05		
10	8.40	7.50	8.10	62.40	86.40	113.40	147.75	195.75	43.50	21.00	7.50	3.90		
11	4.80	13.80	15.15	48.45	61.50	105.60	93.00	178.50	37.20	36.75	7.50	3.75		
12	4.95	13.80	14.25	58.35	48.00	51.15	69.60	113.40	33.60	36.75	7.50	3.60		
13	3.45	8.10	15.60	71.40	44.85	44.85	58.80	69.00	31.35	16.95	6.90	3.60		
14	3.45	7.50	70.80	60.15	39.00	42.60	70.20	90.60	29.10	13.80	6.60	3.45		
15	3.00	6.90	53.40	85.80	35.40	36.30	159.00	258.60	27.75	13.35	6.30	3.45		
16	4.20	6.00	99.00	264.00	39.90	53.85	192.00	283.80	27.75	12.90	8.10	3.45		
17	5.40	5.10	254.10	120.60	37.20	201.00	111.60	462.00	26.40	12.45	8.40	3.60		
18	8.40	5.10	75.00	90.00	35.40	172.50	79.20	339.00	25.50	12.00	7.50	4.05		
19	10.20	5.70	48.00	112.80	39.90	87.60	79.20	147.75	24.15	11.70	6.90	4.65		
20	7.20	5.10	37.65	186.00	31.35	56.55	100.80	73.80	23.25	11.40	6.60	4.95		
21	6.30	3.90	32.25	149.25	27.30	47.10	121.20	55.65	21.90	11.10	6.30	4.95		
22	4.95	3.15	32.70	173.25	36.75	43.95	125.40	55.65	21.00	12.45	6.30	4.80		
23	4.50	3.00	128.25	210.00	28.20	43.05	89.40	53.40	21.00	11.40	6.90	4.80		
24	4.35	6.00	299.10	187.50	57.00	38.10	60.15	50.70	19.20	11.40	7.20	4.65		
25	5.40	7.50	147.00	180.00	42.15	48.45	64.65	38.10	19.20	11.10	10.20	5.40		
26	5.85	9.30	87.60	111.60	31.80	73.80	67.80	34.50	18.30	11.10	8.10	6.60		
27	4.80	5.40	55.20	108.00	33.15	55.20	60.15	48.90	21.90	11.10	5.85	7.20		
28	4.35	9.60	38.10	96.60	47.10	57.00	59.25	59.70	34.50	11.70	6.60	9.00		
29	4.05	7.80	28.20	94.20	36.30	73.80	85.80	39.00	26.85	11.70		7.50		
30	5.25	6.30	23.70	96.60	31.80	94.20	102.60	37.65	19.65	11.40		6.60		
31		5.25		78.60	31.80		92.40		18.30	11.40		6.00		
Total	167.70	219.75	1676.55	2849.85	1633.65	2016.60	3477.30	3615.60	1108.95	467.10	228.45	152.25	17613.75	CMSDAY
Mean	5.59	7.09	55.88	91.93	52.70	67.22	112.17	120.52	35.77	15.07	8.16	4.91	48.26	CMS
Max	11.10	13.80	299.10	264.00	172.50	208.20	299.10	462.00	143.25	36.75	11.10	9.00	462.00	CMS
Min	3.00	3.00	6.60	16.95	27.30	22.35	58.80	34.50	18.30	11.10	5.85	3.45	3.00	CMS
Runoff	14.49	18.99	144.85	246.23	141.15	174.23	300.44	312.39	95.81	40.36	19.74	13.15	1521.83	MCM

Momentary Peak 469.00 CMS. at 9.40 m. (MSL.) at 12.00 Hours , on Nov 17 , 2014

Runoff Yield 26.60 Liters/Second/Square KM. Momentary Peak Yield 258.526 Liters/Second/Square KM.

WATER YEAR : 2014

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

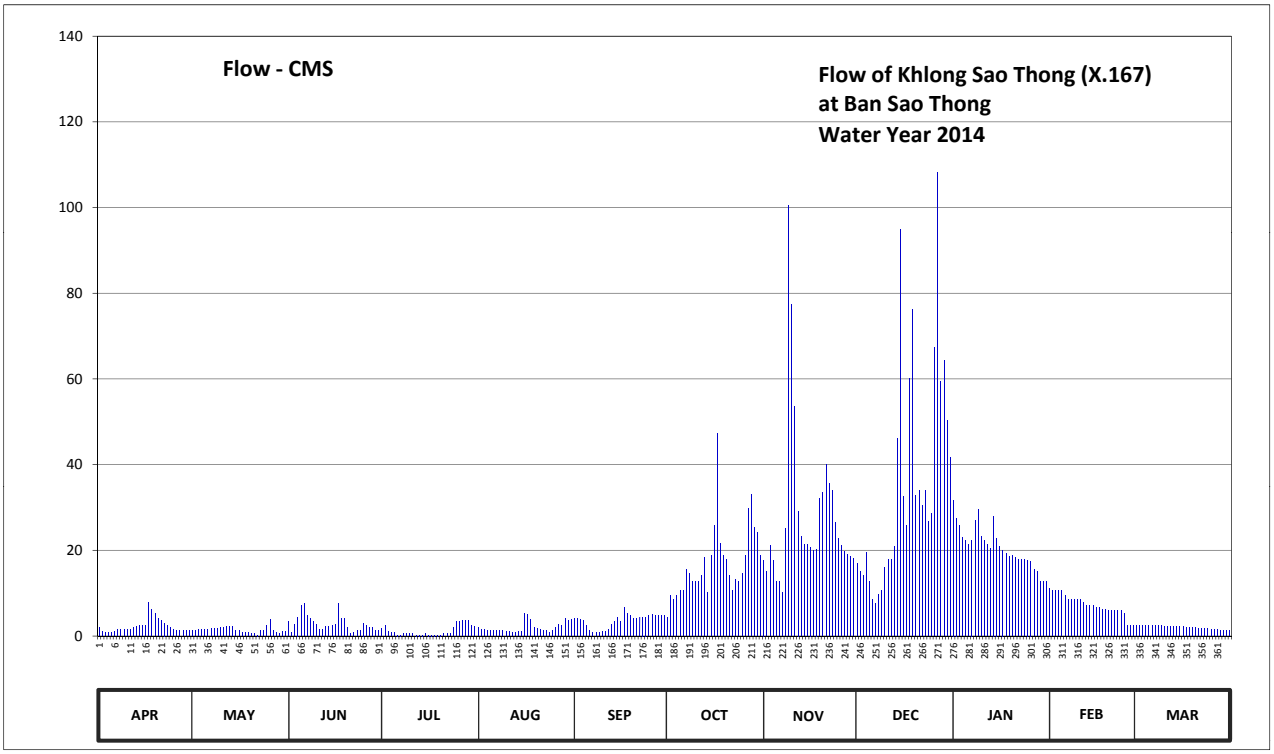
Location : on right bank at the bridge.

	Ban Sao Thong	**Amphoe** Ron Phibun	**Changwat** Nakhon Si Thammarat
Drainge Area	252 sq.km.		
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 Flot	-		
Rated by Current Meter	1989 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 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.78	7.75	7.83	7.77	7.78	7.86	7.87	8.23	8.19	9.45	8.06	7.80	
2	7.74	7.75	7.73	7.80	7.76	7.86	8.02	8.15	8.15	9.17	8.05	7.80	
3	7.73	7.76	7.81	7.74	7.76	7.85	8.00	8.62	8.13	9.04	8.05	7.80	
4	7.73	7.76	7.87	7.73	7.75	7.84	8.02	8.22	8.45	8.80	8.05	7.80	
5	7.73	7.76	7.96	7.73	7.75	7.80	8.05	8.10	8.10	8.72	8.05	7.80	
6	7.74	7.76	7.97	7.71	7.75	7.75	8.05	8.10	8.00	8.64	8.02	7.80	
7	7.76	7.77	7.88	7.71	7.75	7.73	8.16	8.04	7.97	8.74	8.00	7.80	
8	7.76	7.77	7.86	7.72	7.75	7.73	8.14	8.99	8.03	9.13	8.00	7.80	
9	7.76	7.77	7.83	7.72	7.75	7.73	8.10	11.52	8.05	9.30	8.00	7.80	
10	7.76	7.78	7.81	7.72	7.74	7.74	8.10	11.10	8.17	8.83	8.00	7.79	
11	7.76	7.78	7.76	7.72	7.74	7.74	8.10	10.45	8.25	8.72	8.00	7.79	
12	7.78	7.79	7.76	7.71	7.73	7.76	8.13	9.28	8.25	8.64	7.98	7.79	
13	7.79	7.79	7.79	7.71	7.73	7.81	8.30	8.82	8.60	8.54	7.96	7.79	
14	7.80	7.79	7.79	7.71	7.74	7.83	8.04	8.64	10.18	9.20	7.96	7.79	
15	7.80	7.75	7.80	7.72	7.74	7.87	8.37	8.63	11.43	8.79	7.96	7.79	
16	7.80	7.75	7.81	7.71	7.90	7.83	9.05	8.58	9.51	8.60	7.94	7.79	
17	7.98	7.73	7.97	7.71	7.89	7.94	10.23	8.50	9.04	8.51	7.94	7.78	
18	7.93	7.73	7.86	7.71	7.85	7.90	8.65	8.53	10.66	8.42	7.93	7.78	
19	7.90	7.73	7.86	7.71	7.78	7.88	8.37	9.47	11.07	8.35	7.93	7.78	
20	7.86	7.72	7.78	7.71	7.77	7.86	8.26	9.57	9.52	8.37	7.92	7.78	
21	7.84	7.72	7.72	7.72	7.76	7.86	8.13	9.90	9.60	8.30	7.92	7.77	
22	7.82	7.71	7.73	7.72	7.75	7.87	8.05	9.68	9.37	8.25	7.92	7.77	
23	7.80	7.75	7.75	7.72	7.75	7.87	8.11	9.60	9.60	8.24	7.92	7.77	
24	7.78	7.75	7.75	7.78	7.73	7.87	8.10	9.10	9.11	8.26	7.92	7.77	
25	7.76	7.80	7.82	7.83	7.75	7.88	8.14	8.77	9.24	8.23	7.90	7.76	
26	7.75	7.85	7.80	7.83	7.78	7.89	8.36	8.62	10.86	8.20	7.80	7.76	
27	7.75	7.75	7.78	7.84	7.81	7.88	9.32	8.48	11.63	8.16	7.80	7.76	
28	7.75	7.73	7.78	7.84	7.80	7.88	9.53	8.41	10.64	8.15	7.80	7.75	
29	7.75	7.72	7.75	7.84	7.86	7.88	9.01	8.33	10.78	8.10		7.75	
30	7.75	7.74	7.75	7.80	7.84	7.88	8.92	8.27	10.34	8.10		7.75	
31		7.74		7.79	7.85		8.37		9.98	8.10		7.75	
Mean	7.79	7.76	7.81	7.75	7.78	7.84	8.39	8.96	9.32	8.58	7.96	7.78	
Max	7.98	7.85	7.97	7.84	7.90	7.94	10.23	11.52	11.63	9.45	8.06	7.80	11.63
Min	7.73	7.71	7.72	7.71	7.73	7.73	7.87	8.04	7.97	8.10	7.80	7.75	7.71

Annual Max Momentary Gage Height	11.81	m. (MSL.) ,	at 04.00 Hours , on Dec 27 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	7.22	m. (MSL.)
Left Bank Elevation	14.14	m. (MSL.) ,			
Right Bank Elevation	14.14	m. (MSL.) ,	Drainage Area	252	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.00	1.25	3.32	1.75	2.00	4.15	4.42	17.72	17.02	31.75	11.05	2.50		
2	1.00	1.25	0.75	2.50	1.50	4.15	9.35	15.12	15.12	27.55	10.63	2.50		
3	0.75	1.50	2.77	1.00	1.50	3.87	8.50	21.20	14.17	25.75	10.63	2.50		
4	0.75	1.50	4.42	0.75	1.25	3.60	9.35	17.65	19.50	23.00	10.63	2.50		
5	0.75	1.50	7.20	0.75	1.25	2.50	10.63	12.75	12.75	22.20	10.63	2.50		
6	1.00	1.50	7.52	0.25	1.25	1.25	10.63	12.75	8.50	21.40	9.35	2.50		
7	1.50	1.75	4.70	0.25	1.25	0.75	15.60	10.20	7.52	22.40	8.50	2.50		
8	1.50	1.75	4.15	0.50	1.25	0.75	14.65	25.12	9.77	26.95	8.50	2.50		
9	1.50	1.75	3.32	0.50	1.25	0.75	12.75	100.40	10.63	29.50	8.50	2.50		
10	1.50	2.00	2.77	0.50	1.00	1.00	12.75	77.50	16.08	23.30	8.50	2.25		
11	1.50	2.00	1.50	0.50	1.00	1.00	12.75	53.50	17.88	22.20	8.50	2.25		
12	2.00	2.25	1.50	0.25	0.75	1.50	14.17	29.20	17.88	21.40	7.85	2.25		
13	2.25	2.25	2.25	0.25	0.75	2.77	18.25	23.20	21.00	20.40	7.20	2.25		
14	2.50	2.25	2.25	0.25	1.00	3.32	10.20	21.40	46.05	28.00	7.20	2.25		
15	2.50	1.25	2.50	0.50	1.00	4.42	18.78	21.30	94.80	22.90	7.20	2.25		
16	2.50	1.25	2.77	0.25	5.25	3.32	25.87	20.80	32.65	21.00	6.55	2.25		
17	7.85	0.75	7.52	0.25	4.97	6.55	47.32	20.00	25.75	20.10	6.55	2.00		
18	6.22	0.75	4.15	0.25	3.87	5.25	21.50	20.30	60.10	19.20	6.22	2.00		
19	5.25	0.75	4.15	0.25	2.00	4.70	18.78	32.05	76.15	18.63	6.22	2.00		
20	4.15	0.50	2.00	0.25	1.75	4.15	17.95	33.55	32.80	18.78	5.90	2.00		
21	3.60	0.50	0.50	0.50	1.50	4.15	14.17	40.00	34.00	18.25	5.90	1.75		
22	3.05	0.25	0.75	0.50	1.25	4.42	10.63	35.60	30.55	17.88	5.90	1.75		
23	2.50	1.25	1.25	0.50	1.25	4.42	13.22	34.00	34.00	17.80	5.90	1.75		
24	2.00	1.25	1.25	2.00	0.75	4.42	12.75	26.50	26.65	17.95	5.90	1.75		
25	1.50	2.50	3.05	3.32	1.25	4.70	14.65	22.70	28.60	17.72	5.25	1.50		
26	1.25	3.87	2.50	3.32	2.00	4.97	18.70	21.20	67.40	17.50	2.50	1.50		
27	1.25	1.25	2.00	3.60	2.77	4.70	29.80	19.80	108.10	15.60	2.50	1.50		
28	1.25	0.75	2.00	3.60	2.50	4.70	32.95	19.10	59.40	15.12	2.50	1.25		
29	1.25	0.50	1.25	3.60	4.15	4.70	25.38	18.48	64.30	12.75		1.25		
30	1.25	1.00	1.25	2.50	3.60	4.70	24.25	18.03	50.35	12.75		1.25		
31		1.00		2.25	3.87		18.78		41.60	12.75		1.25		
Total	67.87	43.87	87.31	37.44	60.73	105.63	529.48	841.12	1101.07	642.48	202.66	62.75	3782.41	CMSDAY
Mean	2.26	1.42	2.91	1.21	1.96	3.52	17.08	28.04	35.52	20.73	7.24	2.02	10.36	CMS
Max	7.85	3.87	7.52	3.60	5.25	6.55	47.32	100.40	108.10	31.75	11.05	2.50	108.10	CMS
Min	0.75	0.25	0.50	0.25	0.75	0.75	4.42	10.20	7.52	12.75	2.50	1.25	0.25	CMS
Runoff	5.86	3.79	7.54	3.24	5.25	9.13	45.75	72.67	95.13	55.51	17.51	5.42	326.80	MCM

Momentary Peak 123.60 CMS. at 11.81 m. (MSL.) at 04.00 Hours , on Dec 27 , 2014

Runoff Yield 41.12 Liters/Second/Square KM. Momentary Peak Yield 490.476 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Mueang , Chumphon (X.180)

Lat 10 - 29 - 42 N Long 99 - 10 - 23 E

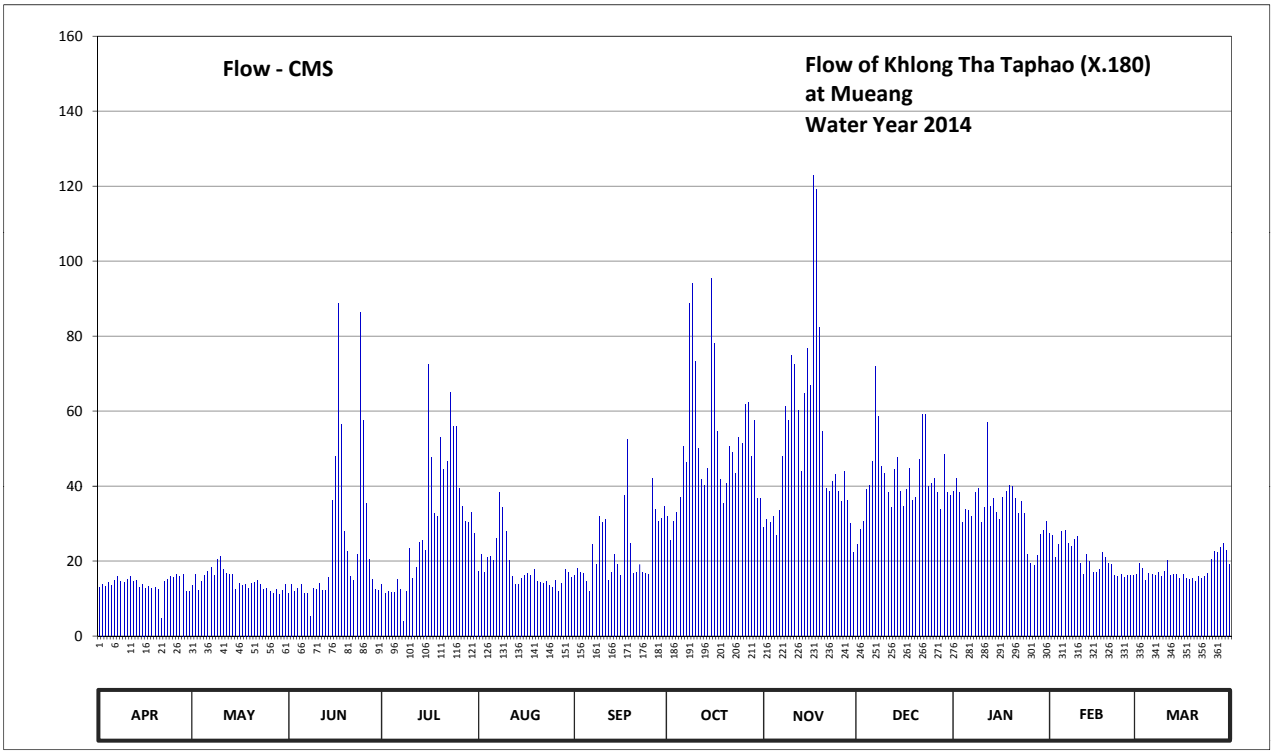
Location : on left bank at the bridge.

	Ban -	**Amphoe**	Mueang	**Changwat**	Chumphon
Drainge Area	2,045 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**	+5.896 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 Flot	-				
Rated by Current Meter	1995 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 2014.				

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.16	0.03	0.18	0.41	0.35	0.82	0.74	0.61	0.99	0.70	0.37	
2	0.19	0.36	0.19	0.03	0.54	0.43	0.64	0.80	0.73	1.07	0.68	0.47	
3	0.15	0.08	0.06	0.06	0.40	0.39	0.79	0.78	0.79	0.98	0.51	0.43	
4	0.22	0.23	0.12	0.04	0.51	0.38	0.85	0.82	1.00	0.78	0.61	0.26	
5	0.16	0.35	0.18	0.04	0.52	0.24	0.95	0.68	1.03	0.87	0.71	0.38	
6	0.25	0.41	0.03	0.28	0.49	0.05	1.25	0.86	1.17	0.86	0.72	0.37	
7	0.32	0.44	0.03	0.09	0.66	0.61	1.16	1.20	1.65	0.82	0.62	0.34	
8	0.23	0.35	-0.04	-0.11	0.98	0.46	1.92	1.46	1.41	0.98	0.60	0.39	
9	0.22	0.50	0.11	0.06	0.88	0.82	2.00	1.39	1.14	1.01	0.65	0.33	
10	0.27	0.52	0.10	0.58	0.71	0.78	1.67	1.70	1.10	0.78	0.67	0.41	
11	0.33	0.42	0.20	0.30	0.49	0.80	1.24	1.66	0.98	0.88	0.47	0.49	
12	0.24	0.38	0.07	0.44	0.33	0.26	1.06	1.44	0.88	1.38	0.37	0.35	
13	0.25	0.36	0.08	0.63	0.19	0.39	1.03	1.11	1.12	0.89	0.54	0.37	
14	0.13	0.36	0.31	0.64	0.18	0.54	1.13	1.52	1.19	0.94	0.48	0.36	
15	0.19	0.09	0.93	0.57	0.30	0.46	2.02	1.73	0.99	0.85	0.39	0.29	
16	0.12	0.21	1.20	1.66	0.35	0.35	1.75	1.56	0.89	0.80	0.39	0.37	
17	0.15	0.16	1.92	1.19	0.38	0.96	1.33	2.41	1.00	0.95	0.42	0.29	
18	0.11	0.19	1.37	0.84	0.35	1.29	1.06	2.36	1.13	0.99	0.55	0.27	
19	0.13	0.12	0.71	0.82	0.42	0.62	0.91	1.82	0.93	1.03	0.51	0.30	
20	0.10	0.20	0.56	1.30	0.23	0.38	1.04	1.33	0.95	1.02	0.47	0.23	
21	-0.07	0.22	0.32	1.12	0.22	0.39	1.25	1.01	1.18	0.94	0.46	0.33	
22	0.24	0.25	0.25	1.17	0.20	0.46	1.22	0.99	1.42	0.84	0.35	0.30	
23	0.27	0.19	0.54	1.53	0.24	0.39	1.10	1.05	1.42	0.92	0.32	0.32	
24	0.33	0.10	1.88	1.36	0.16	0.38	1.30	1.09	1.02	0.84	0.37	0.38	
25	0.31	0.11	1.39	1.36	0.13	0.36	1.27	0.99	1.04	0.54	0.31	0.50	
26	0.36	0.05	0.91	1.01	0.26	1.07	1.47	0.92	1.07	0.47	0.34	0.56	
27	0.32	0.03	0.50	0.89	0.06	0.87	1.48	1.11	0.98	0.45	0.35	0.55	
28	0.37	0.10	0.28	0.79	0.20	0.79	1.20	0.93	0.87	0.53	0.35	0.59	
29	0.06	0.01	0.10	0.78	0.42	0.81	1.39	0.77	1.21	0.69		0.62	
30	0.06	0.07	0.08	0.85	0.40	0.89	0.94	0.55	0.98	0.72		0.57	
31		0.19		0.70	0.31		0.94		0.96	0.79		0.46	
Mean	0.20	0.23	0.48	0.68	0.38	0.57	1.23	1.23	1.06	0.86	0.50	0.40	
Max	0.37	0.52	1.92	1.66	0.98	1.29	2.02	2.41	1.65	1.38	0.72	0.62	2.41
Min	-0.07	0.01	-0.04	-0.11	0.06	0.05	0.64	0.55	0.61	0.45	0.31	0.23	-0.11

Annual Max Momentary Gage Height	2.57	m. (MSL.) ,	at 18.00 Hours , on Nov 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-5.32	m. (MSL.)
Left Bank Elevation	6.47	m. (MSL.) ,			
Right Bank Elevation	7.08	m. (MSL.) ,	Drainage Area	2045	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.95	13.40	11.45	13.70	17.35	16.25	31.80	28.90	24.35	38.60	27.50	16.55		
2	13.85	16.40	13.85	11.45	21.90	18.05	25.40	31.00	28.55	42.15	26.80	19.45		
3	13.25	12.20	11.90	11.90	17.00	16.85	30.65	30.30	30.65	38.20	20.85	18.05		
4	14.30	14.45	12.80	11.60	20.85	16.70	33.00	31.80	39.00	30.30	24.35	14.90		
5	13.40	16.25	13.70	11.60	21.20	14.60	37.00	26.80	40.35	33.80	27.85	16.70		
6	14.75	17.35	11.45	15.20	20.15	11.75	50.50	33.40	46.65	33.40	28.20	16.55		
7	15.80	18.40	11.45	12.35	26.10	24.35	46.20	48.00	72.00	31.80	24.70	16.10		
8	14.45	16.25	5.20	3.80	38.20	19.10	88.80	61.30	58.55	38.20	24.00	16.85		
9	14.30	20.50	12.65	11.90	34.20	31.80	94.00	57.50	45.30	39.45	25.75	15.95		
10	15.05	21.20	12.50	23.30	27.85	30.30	73.20	75.00	43.50	30.30	26.45	17.35		
11	15.95	17.70	14.00	15.50	20.15	31.00	50.00	72.60	38.20	34.20	19.45	20.15		
12	14.60	16.70	12.05	18.40	15.95	14.90	41.70	60.20	34.20	57.00	16.55	16.25		
13	14.75	16.40	12.20	25.05	13.85	16.85	40.35	43.95	44.40	34.60	21.90	16.55		
14	12.95	16.40	15.65	25.40	13.70	21.90	44.85	64.60	47.55	36.60	19.80	16.40		
15	13.85	12.35	36.20	22.95	15.50	19.10	95.40	76.80	38.60	33.00	16.85	15.35		
16	12.80	14.15	48.00	72.60	16.25	16.25	78.00	66.80	34.60	31.00	16.85	16.55		
17	13.25	13.40	88.80	47.55	16.70	37.40	54.50	122.85	39.00	37.00	17.70	15.35		
18	12.65	13.85	56.50	32.60	16.25	52.50	41.70	119.20	44.85	38.60	22.25	15.05		
19	12.95	12.80	27.85	31.80	17.70	24.70	35.40	82.30	36.20	40.35	20.85	15.50		
20	12.50	14.00	22.60	53.00	14.45	16.70	40.80	54.50	37.00	39.90	19.45	14.45		
21	4.60	14.30	15.80	44.40	14.30	16.85	50.50	39.45	47.10	36.60	19.10	15.95		
22	14.60	14.75	14.75	46.65	14.00	19.10	49.00	38.60	59.10	32.60	16.25	15.50		
23	15.05	13.85	21.90	65.15	14.60	16.85	43.50	41.25	59.10	35.80	15.80	15.80		
24	15.95	12.50	86.20	56.00	13.40	16.70	53.00	43.05	39.90	32.60	16.55	16.70		
25	15.65	12.65	57.50	56.00	12.95	16.40	51.50	38.60	40.80	21.90	15.65	20.50		
26	16.40	11.75	35.40	39.45	14.90	42.15	61.85	35.80	42.15	19.45	16.10	22.60		
27	15.80	11.45	20.50	34.60	11.90	33.80	62.40	43.95	38.20	18.75	16.25	22.25		
28	16.55	12.50	15.20	30.65	14.00	30.65	48.00	36.20	33.80	21.55	16.25	23.65		
29	11.90	11.15	12.50	30.30	17.70	31.40	57.50	29.95	48.50	27.15		24.70		
30	11.90	12.05	12.20	33.00	17.00	34.60	36.60	22.25	38.20	28.20		22.95		
31		13.85		27.50	15.65		36.60		37.40	30.65		19.10		
Total	416.75	454.95	742.75	935.35	565.70	709.55	1583.70	1556.90	1307.75	1043.70	580.05	549.75	10446.90	CMSDAY
Mean	13.89	14.68	24.76	30.17	18.25	23.65	51.09	51.90	42.19	33.67	20.72	17.73	28.62	CMS
Max	16.55	21.20	88.80	72.60	38.20	52.50	95.40	122.85	72.00	57.00	28.20	24.70	122.85	CMS
Min	4.60	11.15	5.20	3.80	11.90	11.75	25.40	22.25	24.35	18.75	15.65	14.45	3.80	CMS
Runoff	36.01	39.31	64.17	80.81	48.88	61.31	136.83	134.52	112.99	90.18	50.12	47.50	902.61	MCM

Momentary Peak 136.45 CMS. at 2.57 m. (MSL.) at 18.00 Hours , on Nov 17 , 2014

Runoff Yield 14.00 Liters/Second/Square KM. Momentary Peak Yield 66.724 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Upper Khlong Thadee at Ban Wang Sai , Nakhon Si Thammarat (X.200)

Lat 08 - 24 - 32 N Long 99 - 47 - 54 E

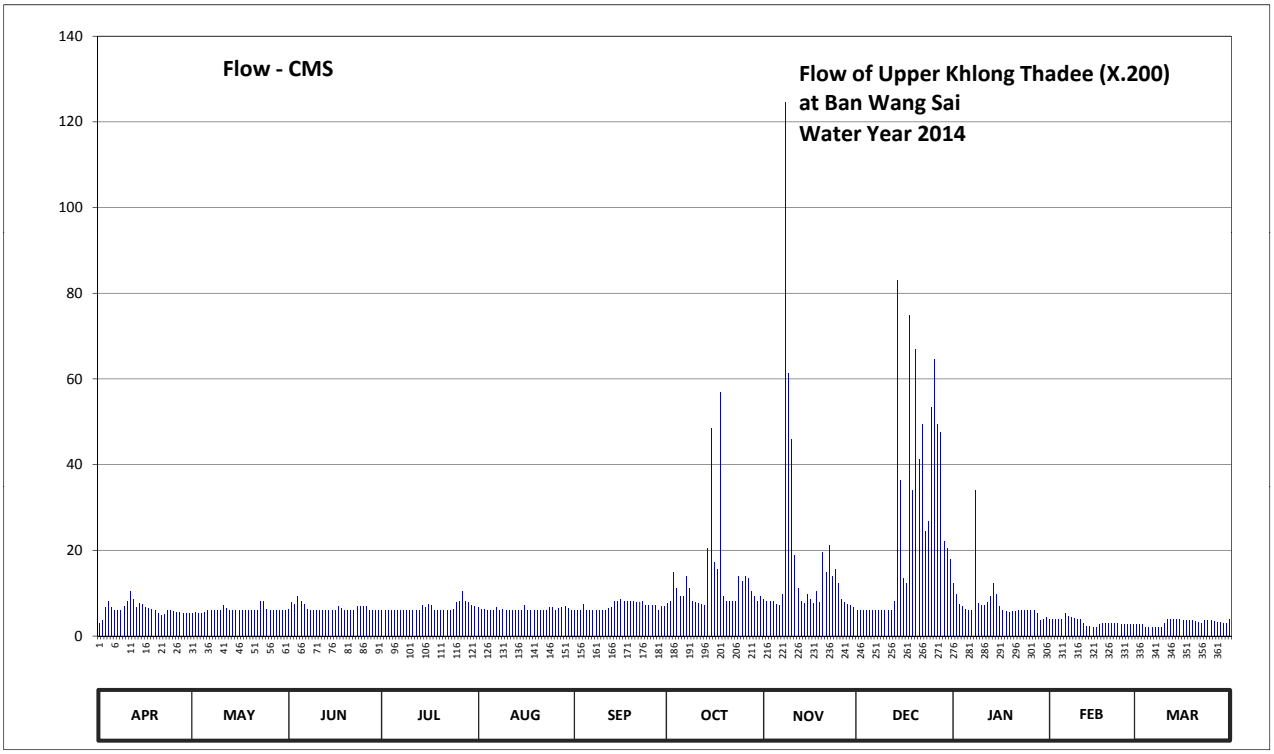
Location : on right bank at Ban Wang Sai.

	Ban Wang Sai	**Amphoe** Lan Saka	**Changwat** Nakhon Si Thammarat
Drainge Area	83 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 gage site.		**Elevation** +36.394 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	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.80	31.96	32.01	32.00	32.03	32.00	32.08	32.11	32.00	32.17	31.88	31.76	
2	31.87	31.97	32.09	32.00	32.01	32.00	32.10	32.10	32.00	32.13	31.88	31.76	
3	32.03	31.96	32.07	32.00	32.01	32.00	32.21	32.10	32.00	32.07	31.88	31.76	
4	32.10	31.96	32.12	32.00	32.00	32.07	32.15	32.10	32.00	32.05	31.88	31.71	
5	32.04	31.98	32.10	32.00	32.00	32.00	32.12	32.07	32.00	32.01	31.88	31.70	
6	32.00	32.00	32.07	32.00	32.00	32.00	32.12	32.06	32.00	32.00	31.96	31.70	
7	32.00	32.00	32.01	32.00	32.03	32.00	32.20	32.13	32.00	32.00	31.93	31.70	
8	32.00	32.00	32.00	32.00	32.00	32.00	32.15	33.42	32.00	32.35	31.92	31.70	
9	32.05	32.00	32.00	32.00	32.01	32.00	32.10	32.66	32.00	32.08	31.91	31.70	
10	32.10	32.00	32.00	32.00	32.00	32.00	32.09	32.40	32.00	32.06	31.90	31.79	
11	32.14	32.06	32.00	32.00	32.00	32.00	32.08	32.26	32.00	32.06	31.90	31.90	
12	32.11	32.02	32.00	32.00	32.00	32.02	32.07	32.15	32.00	32.09	31.80	31.90	
13	32.04	32.00	32.00	32.00	32.00	32.04	32.06	32.10	32.10	32.12	31.73	31.89	
14	32.08	32.00	32.00	32.06	32.00	32.10	32.28	32.08	32.96	32.17	31.72	31.88	
15	32.07	32.00	32.00	32.04	32.00	32.10	32.45	32.13	32.36	32.13	31.71	31.88	
16	32.04	32.00	32.00	32.07	32.06	32.11	32.24	32.11	32.19	32.05	31.70	31.86	
17	32.02	32.00	32.05	32.06	32.00	32.10	32.22	32.08	32.17	32.00	31.77	31.86	
18	32.01	32.00	32.02	32.00	32.00	32.10	32.60	32.14	32.85	31.99	31.80	31.86	
19	32.00	32.00	32.00	32.00	32.00	32.10	32.12	32.09	32.35	31.98	31.80	31.86	
20	31.96	32.00	32.00	32.00	32.00	32.10	32.10	32.27	32.74	31.99	31.80	31.83	
21	31.94	32.00	32.00	32.00	32.00	32.09	32.10	32.21	32.38	31.99	31.80	31.81	
22	31.95	32.00	32.00	32.00	32.00	32.10	32.10	32.29	32.47	32.00	31.80	31.80	
23	32.00	32.10	32.05	32.00	32.00	32.10	32.10	32.20	32.31	32.00	31.80	31.86	
24	32.00	32.10	32.05	32.01	32.04	32.06	32.20	32.22	32.32	32.00	31.77	31.86	
25	31.99	32.01	32.05	32.09	32.03	32.06	32.18	32.17	32.54	32.00	31.78	31.86	
26	31.98	32.00	32.05	32.10	32.00	32.06	32.20	32.11	32.71	32.00	31.78	31.83	
27	31.98	32.00	32.00	32.14	32.02	32.06	32.19	32.09	32.47	32.00	31.78	31.82	
28	31.96	32.00	32.00	32.10	32.04	32.00	32.14	32.07	32.43	31.96	31.78	31.82	
29	31.96	32.00	32.00	32.09	32.05	32.05	32.12	32.06	32.30	31.86		31.80	
30	31.96	32.00	32.00	32.06	32.02	32.05	32.10	32.04	32.28	31.88		31.80	
31		32.00		32.05	32.00		32.12		32.25	31.92		31.89	
Mean	32.01	32.00	32.02	32.03	32.01	32.05	32.16	32.20	32.26	32.04	31.82	31.81	
Max	32.14	32.10	32.12	32.14	32.06	32.11	32.60	33.42	32.96	32.35	31.96	31.90	33.42
Min	31.80	31.96	32.00	32.00	32.00	32.00	32.06	32.04	32.00	31.86	31.70	31.70	31.70

Annual Max Momentary Gage Height	35.44	m. (MSL.) ,	at 18.00 Hours , on Nov 8 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	29.79	m. (MSL.)
Left Bank Elevation	36.47	m. (MSL.) ,			
Right Bank Elevation	36.46	m. (MSL.) ,	Drainage Area	83	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.00	5.20	6.20	6.00	6.60	6.00	7.60	8.60	6.00	12.20	3.80	2.60		
2	3.70	5.40	7.80	6.00	6.20	6.00	8.00	8.00	6.00	9.80	3.80	2.60		
3	6.60	5.20	7.40	6.00	6.20	6.00	14.80	8.00	6.00	7.40	3.80	2.60		
4	8.00	5.20	9.20	6.00	6.00	7.40	11.00	8.00	6.00	7.00	3.80	2.10		
5	6.80	5.60	8.00	6.00	6.00	6.00	9.20	7.40	6.00	6.20	3.80	2.00		
6	6.00	6.00	7.40	6.00	6.00	6.00	9.20	7.20	6.00	6.00	5.20	2.00		
7	6.00	6.00	6.20	6.00	6.60	6.00	14.00	9.80	6.00	6.00	4.60	2.00		
8	6.00	6.00	6.00	6.00	6.00	6.00	11.00	124.52	6.00	34.00	4.40	2.00		
9	7.00	6.00	6.00	6.00	6.20	6.00	8.00	61.20	6.00	7.60	4.20	2.00		
10	8.00	6.00	6.00	6.00	6.00	6.00	7.80	46.00	6.00	7.20	4.00	2.90		
11	10.40	7.20	6.00	6.00	6.00	6.00	7.60	18.80	6.00	7.20	4.00	4.00		
12	8.60	6.40	6.00	6.00	6.00	6.40	7.40	11.00	6.00	7.80	3.00	4.00		
13	6.80	6.00	6.00	6.00	6.00	6.80	7.20	8.00	8.00	9.20	2.30	3.90		
14	7.60	6.00	6.00	7.20	6.00	8.00	20.40	7.60	83.12	12.20	2.20	3.80		
15	7.40	6.00	6.00	6.80	6.00	8.00	48.50	9.80	36.40	9.80	2.10	3.80		
16	6.80	6.00	6.00	7.40	7.20	8.60	17.20	8.60	13.40	7.00	2.00	3.60		
17	6.40	6.00	7.00	7.20	6.00	8.00	15.60	7.60	12.20	6.00	2.70	3.60		
18	6.20	6.00	6.40	6.00	6.00	8.00	57.00	10.40	74.75	5.80	3.00	3.60		
19	6.00	6.00	6.00	6.00	6.00	8.00	9.20	7.80	34.00	5.60	3.00	3.60		
20	5.20	6.00	6.00	6.00	6.00	8.00	8.00	19.60	66.80	5.80	3.00	3.30		
21	4.80	6.00	6.00	6.00	6.00	7.80	8.00	14.80	41.20	5.80	3.00	3.10		
22	5.00	6.00	6.00	6.00	6.00	8.00	8.00	21.20	49.50	6.00	3.00	3.00		
23	6.00	8.00	7.00	6.00	6.00	8.00	8.00	14.00	24.40	6.00	3.00	3.60		
24	6.00	8.00	7.00	6.20	6.80	7.20	14.00	15.60	26.80	6.00	2.70	3.60		
25	5.80	6.20	7.00	7.80	6.60	7.20	12.80	12.20	53.40	6.00	2.80	3.60		
26	5.60	6.00	7.00	8.00	6.00	7.20	14.00	8.60	64.70	6.00	2.80	3.30		
27	5.60	6.00	6.00	10.40	6.40	7.20	13.40	7.80	49.50	6.00	2.80	3.20		
28	5.20	6.00	6.00	8.00	6.80	6.00	10.40	7.40	47.50	5.20	2.80	3.20		
29	5.20	6.00	6.00	7.80	7.00	7.00	9.20	7.20	22.00	3.60		3.00		
30	5.20	6.00	6.00	7.20	6.40	7.00	8.00	6.80	20.40	3.80		3.00		
31		6.00		7.00	6.00		9.20		18.00	4.40		3.90		
Total	186.90	188.40	195.60	205.00	193.00	209.80	413.70	513.52	818.07	238.60	91.60	96.50	3350.69	CMSDAY
Mean	6.23	6.08	6.52	6.61	6.23	6.99	13.35	17.12	26.39	7.70	3.27	3.11	9.18	CMS
Max	10.40	8.00	9.20	10.40	7.20	8.60	57.00	124.52	83.12	34.00	5.20	4.00	124.52	CMS
Min	3.00	5.20	6.00	6.00	6.00	6.00	7.20	6.80	6.00	3.60	2.00	2.00	2.00	CMS
Runoff	16.15	16.28	16.90	17.71	16.68	18.13	35.74	44.37	70.68	20.62	7.91	8.34	289.50	MCM

Momentary Peak 596.00 CMS. at 35.44 m. (MSL.) at 18.00 Hours , on Nov 8 , 2014

Runoff Yield 110.60 Liters/Second/Square KM. Momentary Peak Yield 7179.857 Liters/Second/Square KM.

WATER YEAR : 2014

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	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** +11.529 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	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Flot	-		
Rated by Current Meter	2000 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

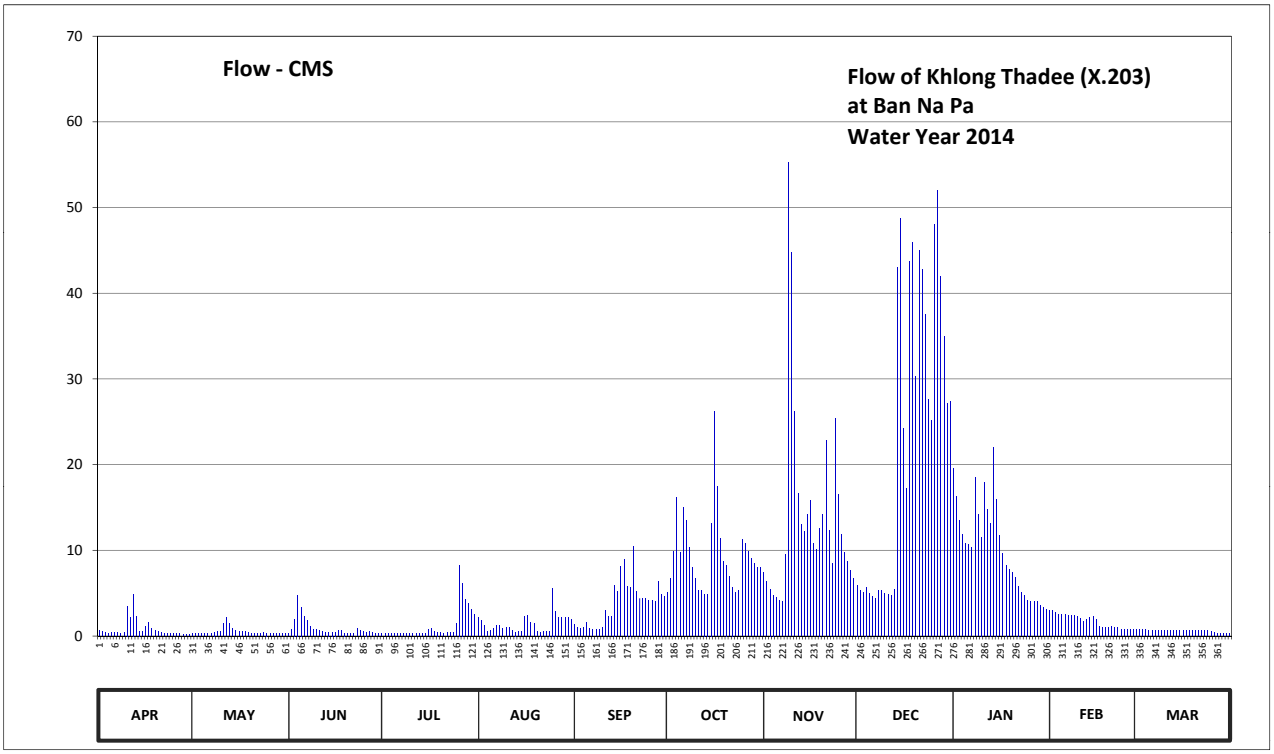
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.54	7.40	7.41	7.40	7.79	7.68	8.11	8.29	8.18	9.07	7.90	7.60	
2	7.50	7.40	7.60	7.40	7.74	7.62	8.24	8.21	8.13	8.89	7.90	7.60	
3	7.46	7.40	7.77	7.40	7.66	7.61	8.48	8.14	8.11	8.72	7.87	7.60	
4	7.42	7.40	8.08	7.40	7.52	7.63	8.88	8.08	8.16	8.61	7.84	7.58	
5	7.48	7.40	7.94	7.40	7.56	7.71	8.47	8.05	8.10	8.54	7.84	7.56	
6	7.47	7.40	7.81	7.40	7.61	7.61	8.81	8.01	8.06	8.53	7.84	7.55	
7	7.45	7.43	7.74	7.40	7.67	7.60	8.72	8.00	8.04	8.51	7.83	7.54	
8	7.43	7.49	7.65	7.40	7.66	7.60	8.51	8.45	8.13	9.01	7.82	7.54	
9	7.46	7.50	7.58	7.40	7.61	7.60	8.34	10.61	8.13	8.76	7.82	7.54	
10	7.95	7.50	7.58	7.40	7.63	7.63	8.24	10.19	8.10	8.59	7.81	7.54	
11	7.79	7.69	7.56	7.40	7.62	7.90	8.13	9.41	8.09	8.98	7.78	7.54	
12	8.09	7.79	7.52	7.40	7.56	7.81	8.13	8.91	8.07	8.80	7.73	7.54	
13	7.81	7.69	7.46	7.40	7.49	7.81	8.09	8.69	8.14	8.70	7.77	7.54	
14	7.53	7.61	7.49	7.40	7.50	8.18	8.09	8.63	10.12	9.20	7.79	7.54	
15	7.51	7.56	7.49	7.40	7.52	8.12	8.70	8.76	10.35	8.87	7.81	7.54	
16	7.65	7.51	7.49	7.60	7.81	8.35	9.41	8.86	9.31	8.60	7.76	7.54	
17	7.71	7.50	7.55	7.61	7.82	8.41	8.95	8.54	8.94	8.46	7.64	7.54	
18	7.61	7.50	7.55	7.52	7.71	8.17	8.58	8.49	10.15	8.36	7.63	7.54	
19	7.56	7.45	7.44	7.49	7.70	8.16	8.39	8.66	10.24	8.32	7.63	7.54	
20	7.50	7.40	7.40	7.45	7.51	8.52	8.36	8.76	9.59	8.29	7.63	7.54	
21	7.46	7.40	7.40	7.42	7.49	8.12	8.26	9.24	10.20	8.25	7.64	7.54	
22	7.41	7.40	7.41	7.45	7.51	8.04	8.16	8.64	10.11	8.17	7.63	7.54	
23	7.40	7.40	7.61	7.47	7.50	8.04	8.11	8.37	9.90	8.11	7.62	7.54	
24	7.40	7.46	7.56	7.45	7.53	8.04	8.13	9.37	9.47	8.07	7.60	7.54	
25	7.40	7.44	7.51	7.70	8.15	8.02	8.57	8.90	9.36	8.02	7.60	7.50	
26	7.40	7.41	7.49	8.36	7.89	8.01	8.54	8.61	10.32	8.00	7.60	7.45	
27	7.40	7.40	7.50	8.20	7.79	8.00	8.48	8.47	10.48	8.00	7.59	7.41	
28	7.39	7.40	7.47	8.03	7.80	8.21	8.42	8.39	10.08	8.00	7.59	7.40	
29	7.39	7.40	7.40	7.98	7.80	8.09	8.37	8.31	9.80	7.96		7.40	
30	7.39	7.41	7.40	7.91	7.80	8.06	8.34	8.24	9.45	7.93		7.40	
31		7.41		7.84	7.76		8.34		9.46	7.91		7.40	
Mean	7.53	7.47	7.56	7.56	7.67	7.94	8.43	8.68	9.12	8.46	7.73	7.52	
Max	8.09	7.79	8.08	8.36	8.15	8.52	9.41	10.61	10.48	9.20	7.90	7.60	10.61
Min	7.39	7.40	7.40	7.40	7.49	7.60	8.09	8.00	8.04	7.91	7.59	7.40	7.39

Annual Max Momentary Gage Height 10.79 m. (MSL.) , at 20.00 Hours , on Dec 14 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 7.02 m. (MSL.)

Left Bank Elevation 12.30 m. (MSL.) ,

Right Bank Elevation 12.23 m. (MSL.) , Drainage Area 120 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.62	0.25	0.27	0.25	2.13	1.36	5.12	7.37	5.96	19.56	3.00	0.80		
2	0.50	0.25	0.80	0.25	1.78	0.94	6.72	6.33	5.36	16.33	3.00	0.80		
3	0.40	0.25	1.99	0.25	1.22	0.87	9.92	5.48	5.12	13.52	2.76	0.80		
4	0.30	0.25	4.80	0.25	0.56	1.01	16.16	4.80	5.72	11.85	2.52	0.74		
5	0.45	0.25	3.40	0.25	0.68	1.57	9.78	4.50	5.00	10.80	2.52	0.68		
6	0.42	0.25	2.28	0.25	0.87	0.87	14.97	4.10	4.60	10.65	2.52	0.65		
7	0.37	0.32	1.78	0.25	1.29	0.80	13.52	4.00	4.40	10.35	2.44	0.62		
8	0.32	0.47	1.15	0.25	1.22	0.80	10.35	9.50	5.36	18.48	2.36	0.62		
9	0.40	0.50	0.74	0.25	0.87	0.80	8.02	55.27	5.36	14.16	2.36	0.62		
10	3.50	0.50	0.74	0.25	1.01	1.01	6.72	44.75	5.00	11.55	2.28	0.62		
11	2.13	1.43	0.68	0.25	0.94	3.00	5.36	26.23	4.90	17.94	2.06	0.62		
12	4.90	2.13	0.56	0.25	0.68	2.28	5.36	16.68	4.70	14.80	1.71	0.62		
13	2.28	1.43	0.40	0.25	0.47	2.28	4.90	13.05	5.48	13.20	1.99	0.62		
14	0.59	0.87	0.47	0.25	0.50	5.96	4.90	12.15	43.00	22.00	2.13	0.62		
15	0.53	0.68	0.47	0.25	0.56	5.24	13.20	14.16	48.75	15.99	2.28	0.62		
16	1.15	0.53	0.47	0.80	2.28	8.15	26.23	15.82	24.20	11.70	1.92	0.62		
17	1.57	0.50	0.65	0.87	2.36	8.94	17.40	10.80	17.22	9.64	1.08	0.62		
18	0.87	0.50	0.65	0.56	1.57	5.84	11.40	10.06	43.75	8.28	1.01	0.62		
19	0.68	0.37	0.35	0.47	1.50	5.72	8.67	12.60	46.00	7.76	1.01	0.62		
20	0.50	0.25	0.25	0.37	0.53	10.50	8.28	14.16	30.28	7.37	1.01	0.62		
21	0.40	0.25	0.25	0.30	0.47	5.24	6.98	22.80	45.00	6.85	1.08	0.62		
22	0.27	0.25	0.27	0.37	0.53	4.40	5.72	12.30	42.75	5.84	1.01	0.62		
23	0.25	0.25	0.87	0.42	0.50	4.40	5.12	8.41	37.50	5.12	0.94	0.62		
24	0.25	0.40	0.68	0.37	0.59	4.40	5.36	25.40	27.58	4.70	0.80	0.62		
25	0.25	0.35	0.53	1.50	5.60	4.20	11.25	16.50	25.20	4.20	0.80	0.50		
26	0.25	0.27	0.47	8.28	2.92	4.10	10.80	11.85	48.00	4.00	0.80	0.37		
27	0.25	0.25	0.50	6.20	2.13	4.00	9.92	9.78	52.00	4.00	0.77	0.27		
28	0.22	0.25	0.42	4.30	2.20	6.33	9.08	8.67	42.00	4.00	0.77	0.25		
29	0.22	0.25	0.25	3.80	2.20	4.90	8.41	7.63	35.00	3.60		0.25		
30	0.22	0.27	0.25	3.10	2.20	4.60	8.02	6.72	27.13	3.30		0.25		
31		0.27		2.52	1.92		8.02		27.35	3.10		0.25		
Total	25.06	15.04	27.39	37.98	44.28	114.51	295.66	421.87	729.67	314.64	48.93	17.77	2092.80	CMSDAY
Mean	0.84	0.49	0.91	1.23	1.43	3.82	9.54	14.06	23.54	10.15	1.75	0.57	5.73	CMS
Max	4.90	2.13	4.80	8.28	5.60	10.50	26.23	55.27	52.00	22.00	3.00	0.80	55.27	CMS
Min	0.22	0.25	0.25	0.25	0.47	0.80	4.90	4.00	4.40	3.10	0.77	0.25	0.22	CMS
Runoff	2.17	1.30	2.37	3.28	3.83	9.89	25.55	36.45	63.04	27.19	4.23	1.54	180.82	MCM

Momentary Peak 60.22 CMS. at 10.79 m. (MSL.) at 20.00 Hours , on Dec 14 , 2014

Runoff Yield 47.78 Liters/Second/Square KM. Momentary Peak Yield 501.624 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)

Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

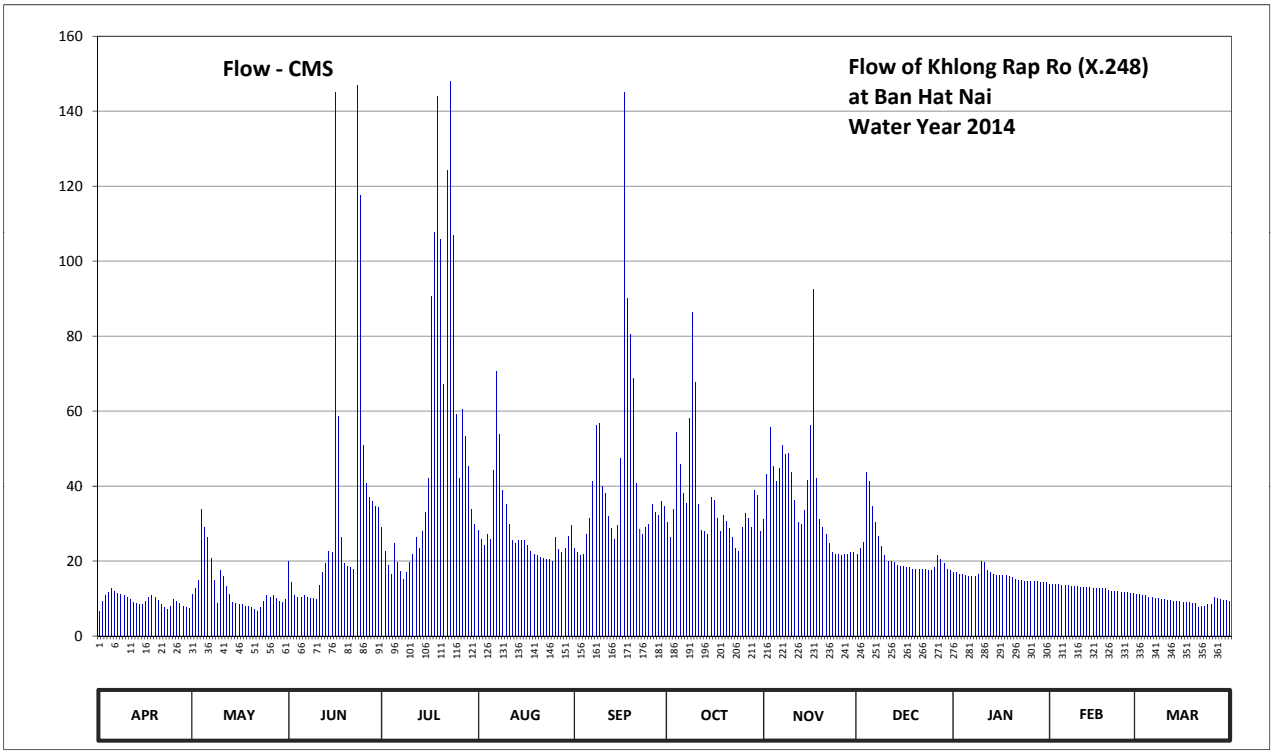
Location : on left bank at Ban Hat Nai.

	Ban Hat Nai	**Amphoe** Tha Sae	**Changwat** Chumphon
Drainge Area	691 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+16.734 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.	**Elevation**	+31.337 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	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.05	18.20	18.47	18.70	18.68	18.56	18.73	18.75	18.52	18.38	18.29	18.20	
2	18.14	18.25	18.30	18.54	18.62	18.53	18.63	19.03	18.56	18.38	18.29	18.20	
3	18.19	18.32	18.19	18.44	18.58	18.51	18.82	19.26	18.60	18.37	18.29	18.19	
4	18.22	18.82	18.18	18.37	18.65	18.52	19.24	19.07	19.04	18.37	18.29	18.19	
5	18.25	18.70	18.18	18.59	18.62	18.65	19.08	18.99	18.99	18.36	18.28	18.18	
6	18.23	18.63	18.19	18.46	19.05	18.76	18.92	19.06	18.84	18.35	18.28	18.18	
7	18.21	18.49	18.18	18.39	19.51	18.99	18.86	19.18	18.73	18.35	18.28	18.17	
8	18.20	18.32	18.17	18.33	19.23	19.27	19.30	19.13	18.64	18.35	18.27	18.17	
9	18.19	18.12	18.17	18.38	18.94	19.28	19.73	19.14	18.57	18.37	18.27	18.16	
10	18.18	18.40	18.16	18.46	18.85	18.96	19.46	19.04	18.51	18.47	18.27	18.16	
11	18.16	18.35	18.28	18.52	18.72	18.92	18.85	18.88	18.47	18.46	18.26	18.15	
12	18.13	18.27	18.38	18.63	18.61	18.77	18.68	18.73	18.47	18.40	18.26	18.15	
13	18.12	18.20	18.45	18.56	18.59	18.69	18.67	18.72	18.46	18.38	18.26	18.14	
14	18.11	18.13	18.54	18.67	18.61	18.62	18.65	18.81	18.44	18.37	18.26	18.14	
15	18.11	18.12	18.53	18.80	18.61	18.71	18.90	19.00	18.43	18.36	18.25	18.14	
16	18.14	18.11	20.37	19.01	18.61	19.11	18.88	19.27	18.43	18.36	18.25	18.13	
17	18.18	18.11	19.31	19.79	18.58	20.37	18.76	19.81	18.42	18.36	18.25	18.13	
18	18.19	18.10	18.63	19.99	18.54	19.78	18.67	19.01	18.42	18.36	18.25	18.13	
19	18.18	18.10	18.45	20.36	18.52	19.65	18.78	18.75	18.41	18.35	18.25	18.12	
20	18.15	18.09	18.43	19.97	18.51	19.48	18.74	18.70	18.41	18.34	18.24	18.12	
21	18.11	18.07	18.42	19.45	18.50	18.98	18.69	18.65	18.41	18.33	18.23	18.09	
22	18.09	18.05	18.41	20.17	18.49	18.69	18.63	18.59	18.41	18.32	18.23	18.10	
23	18.07	18.09	20.39	20.40	18.48	18.65	18.56	18.53	18.41	18.32	18.23	18.10	
24	18.10	18.14	20.10	19.98	18.48	18.70	18.54	18.52	18.40	18.31	18.22	18.11	
25	18.16	18.19	19.18	19.32	18.47	18.72	18.70	18.52	18.40	18.31	18.22	18.11	
26	18.14	18.18	18.98	19.01	18.63	18.85	18.79	18.51	18.42	18.31	18.22	18.18	
27	18.12	18.19	18.90	19.34	18.55	18.80	18.76	18.52	18.51	18.31	18.21	18.17	
28	18.10	18.17	18.87	19.22	18.53	18.78	18.70	18.52	18.48	18.31	18.21	18.16	
29	18.09	18.14	18.84	19.07	18.56	18.87	18.94	18.53	18.45	18.30		18.15	
30	18.08	18.13	18.83	18.82	18.64	18.84	18.91	18.53	18.41	18.30		18.15	
31		18.16		18.72	18.71		18.67		18.40	18.30		18.14	
Mean	18.15	18.24	18.68	19.05	18.67	18.93	18.85	18.86	18.52	18.35	18.25	18.15	
Max	18.25	18.82	20.39	20.40	19.51	20.37	19.73	19.81	19.04	18.47	18.29	18.20	20.40
Min	18.05	18.05	18.16	18.33	18.47	18.51	18.54	18.51	18.40	18.30	18.21	18.09	18.05

Annual Max Momentary Gage Height	21.23	m. (MSL.) ,	at 19.00 Hours , on Jun 23 , 2014		
Zero Gage at Bottom Elevation	16.73	m. (MSL.) ,	River Bed	16.71	m. (MSL.)
Left Bank Elevation	27.36	m. (MSL.) ,			
Right Bank Elevation	27.35	m. (MSL.) ,	Drainage Area	691	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.60	11.00	19.95	29.00	28.20	23.40	30.20	31.00	21.80	16.84	13.88	11.00		
2	9.20	12.60	14.20	22.60	25.80	22.20	26.20	43.16	23.40	16.84	13.88	11.00		
3	10.70	14.86	10.70	18.90	24.20	21.40	33.80	55.60	25.00	16.51	13.88	10.70		
4	11.64	33.80	10.40	16.51	27.00	21.80	54.40	45.24	43.68	16.51	13.88	10.70		
5	12.60	29.00	10.40	24.60	25.80	27.00	45.76	41.14	41.14	16.18	13.56	10.40		
6	11.96	26.20	10.70	19.60	44.20	31.40	37.92	44.72	34.60	15.85	13.56	10.40		
7	11.32	20.65	10.40	17.17	70.70	41.14	35.40	50.96	30.20	15.85	13.56	10.10		
8	11.00	14.86	10.10	15.19	53.80	56.20	58.00	48.36	26.60	15.85	13.24	10.10		
9	10.70	8.60	10.10	16.84	38.84	56.80	86.25	48.88	23.80	16.51	13.24	9.80		
10	10.40	17.50	9.80	19.60	35.00	39.76	67.60	43.68	21.40	19.95	13.24	9.80		
11	9.80	15.85	13.56	21.80	29.80	37.92	35.00	36.20	19.95	19.60	12.92	9.50		
12	8.90	13.24	16.84	26.20	25.40	31.80	28.20	30.20	19.95	17.50	12.92	9.50		
13	8.60	11.00	19.25	23.40	24.60	28.60	27.80	29.80	19.60	16.84	12.92	9.20		
14	8.30	8.90	22.60	27.80	25.40	25.80	27.00	33.40	18.90	16.51	12.92	9.20		
15	8.30	8.60	22.20	33.00	25.40	29.40	37.00	41.60	18.55	16.18	12.60	9.20		
16	9.20	8.30	144.85	42.12	25.40	47.32	36.20	56.20	18.55	16.18	12.60	8.90		
17	10.40	8.30	58.60	90.75	24.20	144.85	31.40	92.35	18.20	16.18	12.60	8.90		
18	10.70	8.00	26.20	107.65	22.60	90.00	27.80	42.12	18.20	16.18	12.60	8.90		
19	10.40	8.00	19.25	143.80	21.80	80.50	32.20	31.00	17.85	15.85	12.60	8.60		
20	9.50	7.72	18.55	105.95	21.40	68.80	30.60	29.00	17.85	15.52	12.28	8.60		
21	8.30	7.16	18.20	67.00	21.00	40.68	28.60	27.00	17.85	15.19	11.96	7.72		
22	7.72	6.60	17.85	124.15	20.65	28.60	26.20	24.60	17.85	14.86	11.96	8.00		
23	7.16	7.72	146.95	148.00	20.30	27.00	23.40	22.20	17.85	14.86	11.96	8.00		
24	8.00	9.20	117.50	106.80	20.30	29.00	22.60	21.80	17.50	14.53	11.64	8.30		
25	9.80	10.70	50.96	59.20	19.95	29.80	29.00	21.80	17.50	14.53	11.64	8.30		
26	9.20	10.40	40.68	42.12	26.20	35.00	32.60	21.40	18.20	14.53	11.64	10.40		
27	8.60	10.70	37.00	60.40	23.00	33.00	31.40	21.80	21.40	14.53	11.32	10.10		
28	8.00	10.10	35.80	53.20	22.20	32.20	29.00	21.80	20.30	14.53	11.32	9.80		
29	7.72	9.20	34.60	45.24	23.40	35.80	38.84	22.20	19.25	14.20		9.50		
30	7.44	8.90	34.20	33.80	26.60	34.60	37.46	22.20	17.85	14.20		9.50		
31		9.80		29.80	29.40		27.80		17.50	14.20		9.20		
Total	282.16	387.46	1012.39	1592.19	872.54	1251.77	1115.63	1101.41	682.27	493.59	356.32	293.32	9441.05	CMSDAY
Mean	9.41	12.50	33.75	51.36	28.15	41.73	35.99	36.71	22.01	15.92	12.73	9.46	25.87	CMS
Max	12.60	33.80	146.95	148.00	70.70	144.85	86.25	92.35	43.68	19.95	13.88	11.00	148.00	CMS
Min	6.60	6.60	9.80	15.19	19.95	21.40	22.60	21.40	17.50	14.20	11.32	7.72	6.60	CMS
Runoff	24.38	33.48	87.47	137.57	75.39	108.15	96.39	95.16	58.95	42.65	30.79	25.34	815.71	MCM

Momentary Peak 254.35 CMS. at 21.23 m. (MSL.) at 19.00 Hours , on Jun 23 , 2014

Runoff Yield 37.43 Liters/Second/Square KM. Momentary Peak Yield 367.983 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Kolok River at Ban Bu Kae Ta , Narathiwat (X.274)

Lat 05 - 50 - 21 N Long 101 - 53 - 07 E

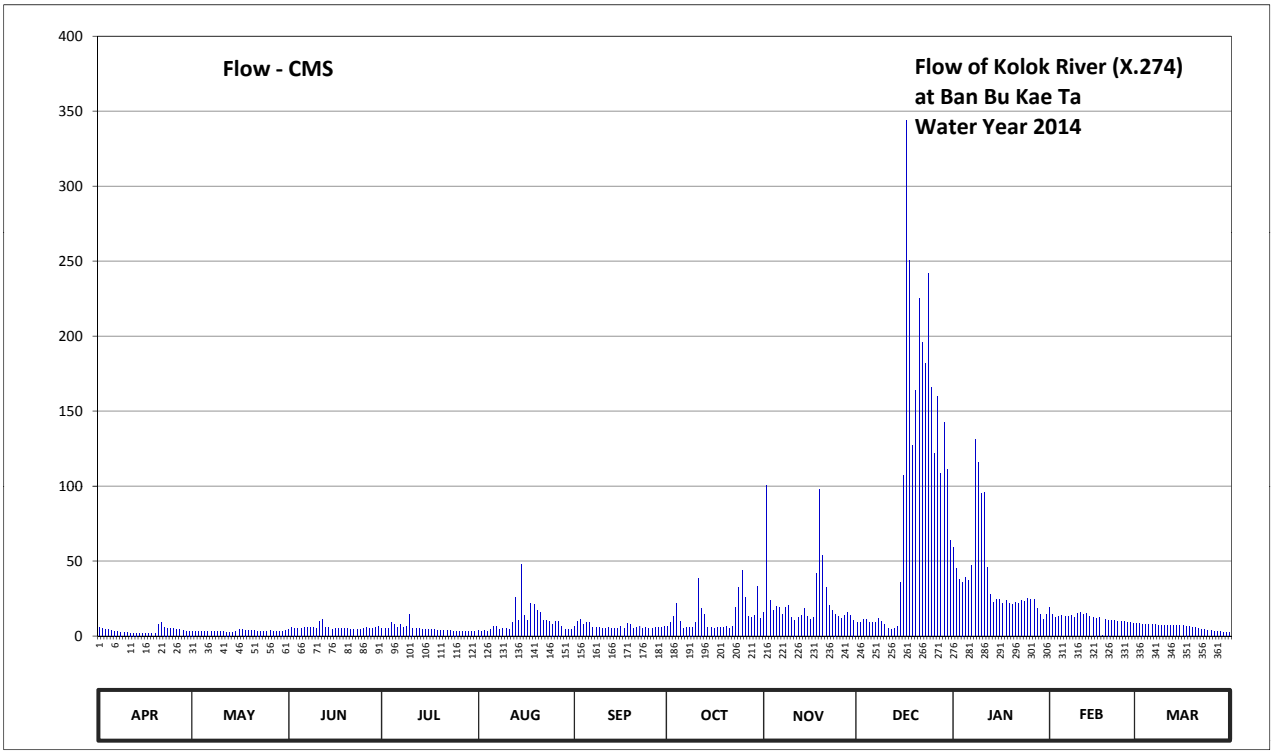
Location : on left bank at Ban Bu Kae Ta.

	Ban Bu Kae Ta	**Amphoe** Waeng	**Changwat** Narathiwat
Drainge Area	86 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** - m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2013 to date		
Rating Operation			
Period of Rating	2013 to date		
Rated by Flot	-		
Rated by Current Meter	2013 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.90	18.76	18.84	18.88	18.77	18.95	18.96	19.39	19.11	20.54	19.50	19.08	
2	18.87	18.75	18.91	18.87	18.76	19.14	19.10	21.33	19.10	20.23	19.33	19.06	
3	18.84	18.74	18.89	18.88	18.78	19.20	19.28	19.65	19.21	20.04	19.26	19.05	
4	18.81	18.73	18.85	19.10	18.75	19.04	19.58	19.44	19.20	20.00	19.27	19.03	
5	18.79	18.73	18.89	19.04	18.84	19.10	19.14	19.52	19.10	20.08	19.31	19.03	
6	18.76	18.72	18.90	18.92	18.97	19.11	18.89	19.51	19.10	20.03	19.29	19.02	
7	18.73	18.72	18.93	19.05	18.95	18.91	18.91	19.34	19.09	20.28	19.29	19.02	
8	18.71	18.73	18.90	18.92	18.84	18.92	18.94	19.50	19.23	21.83	19.31	19.01	
9	18.67	18.73	18.94	18.97	18.86	18.93	18.94	19.54	19.14	21.60	19.25	19.01	
10	18.66	18.72	18.89	19.35	18.86	18.87	19.11	19.26	19.02	21.24	19.37	19.01	
11	18.65	18.72	19.13	18.89	18.81	18.86	20.06	19.18	18.86	21.25	19.38	19.01	
12	18.65	18.71	19.20	18.85	19.09	18.90	19.49	19.25	18.83	20.25	19.34	19.01	
13	18.64	18.71	18.90	18.85	19.70	18.85	19.34	19.32	18.87	19.77	19.37	19.00	
14	18.63	18.70	18.92	18.83	19.16	18.88	18.93	19.48	18.95	19.61	19.28	19.00	
15	18.63	18.75	18.83	18.82	20.29	18.87	18.91	19.28	19.99	19.66	19.26	19.00	
16	18.62	18.82	18.88	18.82	19.32	18.95	18.89	19.19	21.45	19.67	19.24	18.99	
17	18.62	18.81	18.87	18.81	19.17	18.89	18.90	19.26	24.41	19.59	19.25	18.98	
18	18.60	18.80	18.86	18.81	19.60	19.06	18.92	20.14	23.37	19.64	18.47	18.96	
19	18.62	18.78	18.87	18.80	19.56	19.03	18.92	21.29	21.77	19.60	19.21	18.93	
20	19.03	18.78	18.85	18.79	19.44	18.87	18.96	20.44	22.31	19.57	19.18	18.90	
21	19.09	18.77	18.84	18.79	19.38	18.91	18.87	19.90	23.07	19.61	19.17	18.87	
22	18.94	18.76	18.83	18.78	19.16	18.98	18.95	19.55	22.72	19.58	19.16	18.84	
23	18.89	18.76	18.82	18.77	19.17	18.89	19.50	19.43	22.55	19.64	19.14	18.81	
24	18.87	18.75	18.82	18.76	19.13	18.90	19.90	19.35	23.27	19.63	19.13	18.79	
25	18.86	18.75	18.85	18.76	19.05	18.88	20.19	19.29	22.34	19.69	19.13	18.77	
26	18.84	18.77	18.90	18.75	19.14	18.87	19.70	19.22	21.69	19.67	19.11	18.75	
27	18.81	18.76	18.89	18.74	19.15	18.91	19.29	19.32	22.26	19.67	19.09	18.74	
28	18.77	18.75	18.88	18.74	18.97	18.90	19.26	19.38	21.48	19.48	19.07	18.72	
29	18.76	18.75	18.93	18.73	18.84	18.92	19.30	19.31	22.01	19.33		18.70	
30	18.76	18.76	18.96	18.73	18.84	18.95	19.92	19.18	21.52	19.19		18.68	
31		18.77		18.72	18.83		19.23		20.63	19.33		18.66	
Mean	18.77	18.75	18.90	18.86	19.10	18.95	19.23	19.57	20.76	19.98	19.22	18.92	
Max	19.09	18.82	19.20	19.35	20.29	19.20	20.19	21.33	24.41	21.83	19.50	19.08	24.41
Min	18.60	18.70	18.82	18.72	18.75	18.85	18.87	18.18	18.83	19.19	18.47	18.66	18.47

Annual Max Momentary Gage Height	24.62	m. (MSL.) ,	at 11.00 Hours , on Dec 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	18.36	m. (MSL.)
Left Bank Elevation	27.82	m. (MSL.) ,			
Right Bank Elevation	27.90	m. (MSL.) ,	Drainage Area	86	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.50	3.40	4.60	5.20	3.55	6.25	6.40	15.75	9.20	59.00	19.00	8.60		
2	5.05	3.25	5.65	5.05	3.40	9.80	9.00	100.15	9.00	45.20	14.25	8.20		
3	4.60	3.10	5.35	5.20	3.70	11.00	13.00	23.75	11.25	37.60	12.50	8.00		
4	4.15	2.95	4.75	9.00	3.25	7.80	21.40	17.20	11.00	36.00	12.75	7.60		
5	3.85	2.95	5.35	7.80	4.60	9.00	9.80	19.60	9.00	39.20	13.75	7.60		
6	3.40	2.80	5.50	5.80	6.55	9.20	5.35	19.30	9.00	37.20	13.25	7.40		
7	2.95	2.80	5.95	8.00	6.25	5.65	5.65	14.50	8.80	47.20	13.25	7.40		
8	2.65	2.95	5.50	5.80	4.60	5.80	6.10	19.00	11.75	130.95	13.75	7.20		
9	2.23	2.95	6.10	6.55	4.90	5.95	6.10	20.20	9.80	116.00	12.25	7.20		
10	2.14	2.80	5.35	14.75	4.90	5.05	9.20	12.50	7.40	95.20	15.25	7.20		
11	2.05	2.80	9.60	5.35	4.15	4.90	38.40	10.60	4.90	95.75	15.50	7.20		
12	2.05	2.65	11.00	4.75	8.80	5.50	18.70	12.25	4.45	46.00	14.50	7.20		
13	1.96	2.65	5.50	4.75	25.50	4.75	14.50	14.00	5.05	27.95	15.25	7.00		
14	1.87	2.50	5.80	4.45	10.20	5.20	5.95	18.40	6.25	22.35	13.00	7.00		
15	1.87	3.25	4.45	4.30	47.60	5.05	5.65	13.00	35.65	24.10	12.50	7.00		
16	1.78	4.30	5.20	4.30	14.00	6.25	5.35	10.80	107.00	24.45	12.00	6.85		
17	1.78	4.15	5.05	4.15	10.40	5.35	5.50	12.50	343.95	21.70	12.25	6.70		
18	1.60	4.00	4.90	4.15	22.00	8.20	5.80	41.60	250.45	23.40	0.56	6.40		
19	1.78	3.70	5.05	4.00	20.80	7.60	5.80	97.95	127.05	22.00	11.25	5.95		
20	7.60	3.70	4.75	3.85	17.20	5.05	6.40	54.00	163.70	21.10	10.60	5.50		
21	8.80	3.55	4.60	3.85	15.50	5.65	5.05	32.50	224.95	22.35	10.40	5.05		
22	6.10	3.40	4.45	3.70	10.20	6.70	6.25	20.50	195.60	21.40	10.20	4.60		
23	5.35	3.40	4.30	3.55	10.40	5.35	19.00	16.90	182.00	23.40	9.80	4.15		
24	5.05	3.25	4.30	3.40	9.60	5.50	32.50	14.75	241.95	23.05	9.60	3.85		
25	4.90	3.25	4.75	3.40	8.00	5.20	43.60	13.25	165.80	25.15	9.60	3.55		
26	4.60	3.55	5.50	3.25	9.80	5.05	25.50	11.50	121.85	24.45	9.20	3.25		
27	4.15	3.40	5.35	3.10	10.00	5.65	13.25	14.00	160.20	24.45	8.80	3.10		
28	3.55	3.25	5.20	3.10	6.55	5.50	12.50	15.50	108.80	18.40	8.40	2.80		
29	3.40	3.25	5.95	2.95	4.60	5.80	13.50	13.75	142.70	14.25		2.50		
30	3.40	3.40	6.40	2.95	4.60	6.25	33.20	10.60	111.20	10.80		2.32		
31		3.55		2.80	4.45		11.75		63.50	14.25		2.14		
Total	110.16	100.90	166.20	153.25	320.05	190.00	420.15	710.30	2863.20	1194.30	333.41	180.51	6742.43	CMSDAY
Mean	3.67	3.25	5.54	4.94	10.32	6.33	13.55	23.68	92.36	38.53	11.91	5.82	18.47	CMS
Max	8.80	4.30	11.00	14.75	47.60	11.00	43.60	100.15	343.95	130.95	19.00	8.60	343.95	CMS
Min	1.60	2.50	4.30	2.80	3.25	4.75	5.05	10.60	4.45	10.80	0.56	2.14	0.56	CMS
Runoff	9.52	8.72	14.36	13.24	27.65	16.42	36.30	61.37	247.38	103.19	28.81	15.60	582.55	MCM

Momentary Peak 363.90 CMS. at 24.62 m. (MSL.) at 11.00 Hours , on Dec 17 , 2014

Runoff Yield 214.80 Liters/Second/Square KM. Momentary Peak Yield 4200.139 Liters/Second/Square KM.

WATER YEAR : 2014

TAPI RIVER BASIN

Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

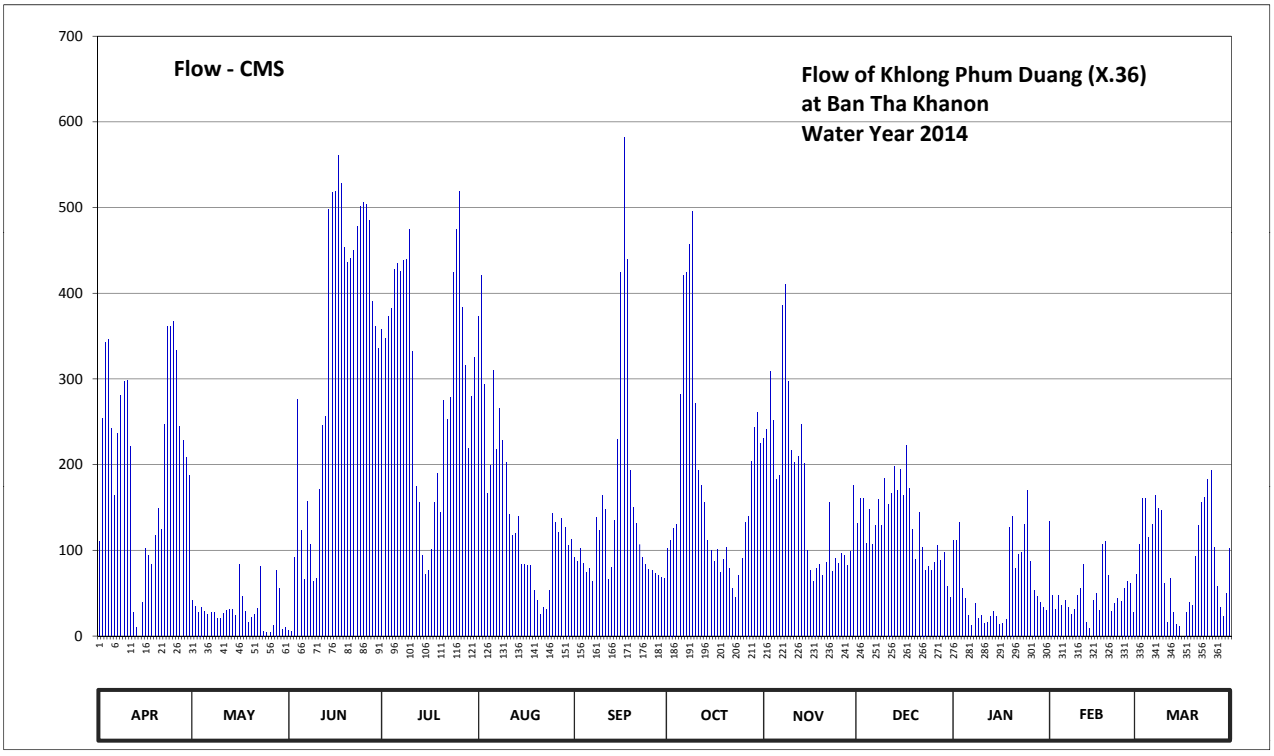
Ban Tha Khanon **Amphoe** Khiri Ratnikhom **Changwat** Surat Thani

Drainge Area	2,968 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the sixth staff gage. **Elevation** +10.520 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1963 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Flot	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 24 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.40	1.42	0.73	4.58	4.69	2.15	2.29	3.57	2.61	2.41	2.64	1.90	
2	3.75	1.29	0.70	4.50	5.01	2.09	2.42	3.65	2.91	2.41	1.56	2.36	
3	4.46	1.16	2.15	4.69	4.07	2.29	2.56	4.19	2.90	2.63	1.22	2.90	
4	4.49	1.28	3.93	4.75	2.97	2.06	2.60	3.73	2.37	1.67	1.56	2.91	
5	3.66	1.17	2.53	5.05	3.29	1.92	3.98	3.13	2.78	1.48	1.31	2.45	
6	2.94	1.11	1.81	5.10	4.20	1.98	5.01	3.17	2.36	1.07	1.42	2.60	
7	3.61	1.15	2.87	5.04	3.46	1.78	5.03	4.77	2.59	0.84	1.26	2.94	
8	3.97	1.15	2.36	5.12	3.85	2.68	5.25	4.94	2.89	1.37	1.11	2.79	
9	4.10	1.01	1.78	5.13	3.55	2.53	5.50	4.10	2.59	1.01	1.21	2.77	
10	4.11	1.02	1.83	5.36	3.33	2.94	3.89	3.45	3.14	1.09	1.56	1.76	
11	3.49	1.13	3.01	4.38	2.72	2.78	3.23	3.33	2.84	0.90	1.68	0.92	
12	1.14	1.19	3.69	3.05	2.48	1.82	3.06	3.40	2.97	0.92	2.05	1.83	
13	0.81	1.22	3.77	2.86	2.50	2.00	2.86	3.70	3.28	1.05	0.92	1.16	
14	0.31	1.21	5.52	2.18	2.69	2.65	2.41	3.32	3.00	1.18	0.78	0.88	
15	1.38	1.08	5.64	1.89	2.05	3.56	2.26	2.27	3.24	1.05	1.42	0.83	
16	2.30	2.05	5.65	1.95	2.05	5.03	2.09	1.95	2.94	0.87	1.59	0.50	
17	2.19	1.53	5.89	2.28	2.03	6.01	2.28	1.79	3.50	0.90	1.19	1.16	
18	2.04	1.17	5.70	2.86	2.03	5.13	1.92	1.99	3.02	1.00	2.36	1.39	
19	2.47	0.91	5.22	3.20	1.64	3.23	2.12	2.04	2.54	2.57	2.40	1.31	
20	2.79	1.04	5.11	2.74	1.43	2.80	2.31	1.87	2.13	2.70	1.88	2.17	
21	2.54	1.10	5.14	3.92	1.11	2.61	1.99	2.08	2.74	1.98	1.18	2.59	
22	3.70	1.24	5.20	3.74	1.27	2.36	1.67	2.86	2.32	2.20	1.36	2.86	
23	4.61	2.02	5.39	3.95	1.21	2.15	1.50	1.94	1.96	2.23	1.48	2.92	
24	4.61	0.72	5.54	5.03	1.65	2.05	1.87	2.14	2.01	2.60	1.41	3.13	
25	4.65	0.69	5.57	5.36	2.73	1.97	2.14	2.07	1.95	3.00	1.68	3.23	
26	4.39	0.69	5.56	5.65	2.63	1.95	2.63	2.22	2.08	2.09	1.79	2.31	
27	3.68	0.85	5.43	4.76	2.51	1.91	2.70	2.19	2.35	1.65	1.76	1.71	
28	3.55	1.96	4.80	4.25	2.67	1.87	3.34	2.03	2.11	1.53	1.16	1.27	
29	3.38	1.67	4.61	3.47	2.57	1.85	3.67	2.25	2.24	1.38		1.05	
30	3.17	0.75	4.41	3.96	2.35	1.83	3.81	3.06	1.70	1.26		1.60	
31		0.80		4.32	2.43		3.52		1.50	1.20		2.30	
Mean	3.16	1.19	4.05	4.04	2.68	2.60	2.96	2.91	2.57	1.62	1.53	2.02	
Max	4.65	2.05	5.89	5.65	5.01	6.01	5.50	4.94	3.50	3.00	2.64	3.23	6.01
Min	0.31	0.69	0.70	1.89	1.11	1.78	1.50	1.79	1.50	0.84	0.78	0.50	0.31

Annual Max Momentary Gage Height	6.12	m. (MSL.) ,	at 13.00 Hours , on Sep 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-0.59	m. (MSL.)
Left Bank Elevation	12.10	m. (MSL.) ,			
Right Bank Elevation	12.11	m. (MSL.) ,	Drainage Area	2968	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	110.00	41.00	6.50	357.50	373.50	91.25	101.75	231.25	131.00	111.00	134.00	72.50		
2	253.75	34.50	5.00	347.50	421.50	86.75	112.00	241.25	161.00	111.00	48.00	107.00		
3	342.50	28.00	91.25	373.50	293.75	101.75	126.00	308.75	160.00	133.00	31.00	160.00		
4	346.25	34.00	276.25	382.50	167.00	84.50	130.00	251.25	107.75	55.25	48.00	161.00		
5	242.50	28.50	123.00	427.50	199.00	74.00	282.50	183.00	148.00	44.00	35.50	115.00		
6	164.00	25.50	65.75	435.00	310.00	78.50	421.50	187.00	107.00	23.50	41.00	130.00		
7	236.25	27.50	157.00	426.00	217.50	63.50	424.50	385.50	129.00	12.00	33.00	164.00		
8	281.25	27.50	107.00	438.00	266.25	138.00	457.50	411.00	159.00	38.50	25.50	149.00		
9	297.50	20.50	63.50	439.50	228.75	123.00	495.00	297.50	129.00	20.50	30.50	147.00		
10	298.75	21.00	67.25	474.00	203.00	164.00	271.25	216.25	184.00	24.50	48.00	62.00		
11	221.25	26.50	171.00	332.50	142.00	148.00	193.00	203.00	154.00	15.00	56.00	16.00		
12	27.00	29.50	246.25	175.00	118.00	66.50	176.00	210.00	167.00	16.00	83.75	67.25		
13	10.50	31.00	256.25	156.00	120.00	80.00	156.00	247.50	198.00	22.50	16.00	28.00		
14	0.00	30.50	498.00	93.50	139.00	135.00	111.00	202.00	170.00	29.00	9.00	14.00		
15	39.00	24.00	517.00	71.75	83.75	230.00	99.50	100.25	194.00	22.50	41.00	11.50		
16	102.50	83.75	518.75	76.25	83.75	424.50	86.75	76.25	164.00	13.50	49.50	0.00		
17	94.25	46.50	560.75	101.00	82.25	581.75	101.00	64.25	222.50	15.00	29.50	28.00		
18	83.00	28.50	527.50	156.00	82.25	439.50	74.00	79.25	172.00	20.00	107.00	39.50		
19	117.00	15.50	453.00	190.00	53.00	193.00	89.00	83.00	124.00	127.00	110.00	35.50		
20	149.00	22.00	436.50	144.00	41.50	150.00	103.25	70.25	89.75	140.00	71.00	92.75		
21	124.00	25.00	441.00	275.00	25.50	131.00	79.25	86.00	144.00	78.50	29.00	129.00		
22	247.50	32.00	450.00	252.50	33.50	107.00	55.25	156.00	104.00	95.00	38.00	156.00		
23	361.50	81.50	478.50	278.75	30.50	91.25	45.00	75.50	77.00	97.25	44.00	162.00		
24	361.50	6.00	501.00	424.50	53.75	83.75	70.25	90.50	80.75	130.00	40.50	183.00		
25	367.50	4.50	505.50	474.00	143.00	77.75	90.50	85.25	76.25	170.00	56.00	193.00		
26	333.75	4.50	504.00	518.75	133.00	76.25	133.00	96.50	86.00	86.75	64.25	103.25		
27	245.00	12.50	484.50	384.00	121.00	73.25	140.00	94.25	106.25	53.75	62.00	58.25		
28	228.75	77.00	390.00	316.25	137.00	70.25	204.00	82.25	88.25	46.50	28.00	33.50		
29	208.00	55.25	361.50	218.75	127.00	68.75	243.75	98.75	98.00	39.00		22.50		
30	187.00	7.50	336.25	280.00	106.25	67.25	261.25	176.00	57.50	33.00		50.00		
31		10.00		325.00	113.00		225.00		45.00	30.00		102.50		
Total	6080.75	941.50	9599.75	9344.50	4649.25	4300.00	5558.75	5089.50	4034.00	1853.50	1409.00	2793.00	55653.50	CMSDAY
Mean	202.69	30.37	319.99	301.44	149.98	143.33	179.31	169.65	130.13	59.79	50.32	90.10	152.48	CMS
Max	367.50	83.75	560.75	518.75	421.50	581.75	495.00	411.00	222.50	170.00	134.00	193.00	581.75	CMS
Min	0.00	4.50	5.00	71.75	25.50	63.50	45.00	64.25	45.00	12.00	9.00	0.00	0.00	CMS
Runoff	525.38	81.35	829.42	807.37	401.70	371.52	480.28	439.73	348.54	160.14	121.74	241.32	4808.46	MCM

Momentary Peak 601.00 CMS. at 6.12 m. (MSL.) at 13.00 Hours , on Sep 17 , 2014

Runoff Yield 51.37 Liters/Second/Square KM. Momentary Peak Yield 202.476 Liters/Second/Square KM.

WATER YEAR : 2014

TAPI RIVER BASIN

Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

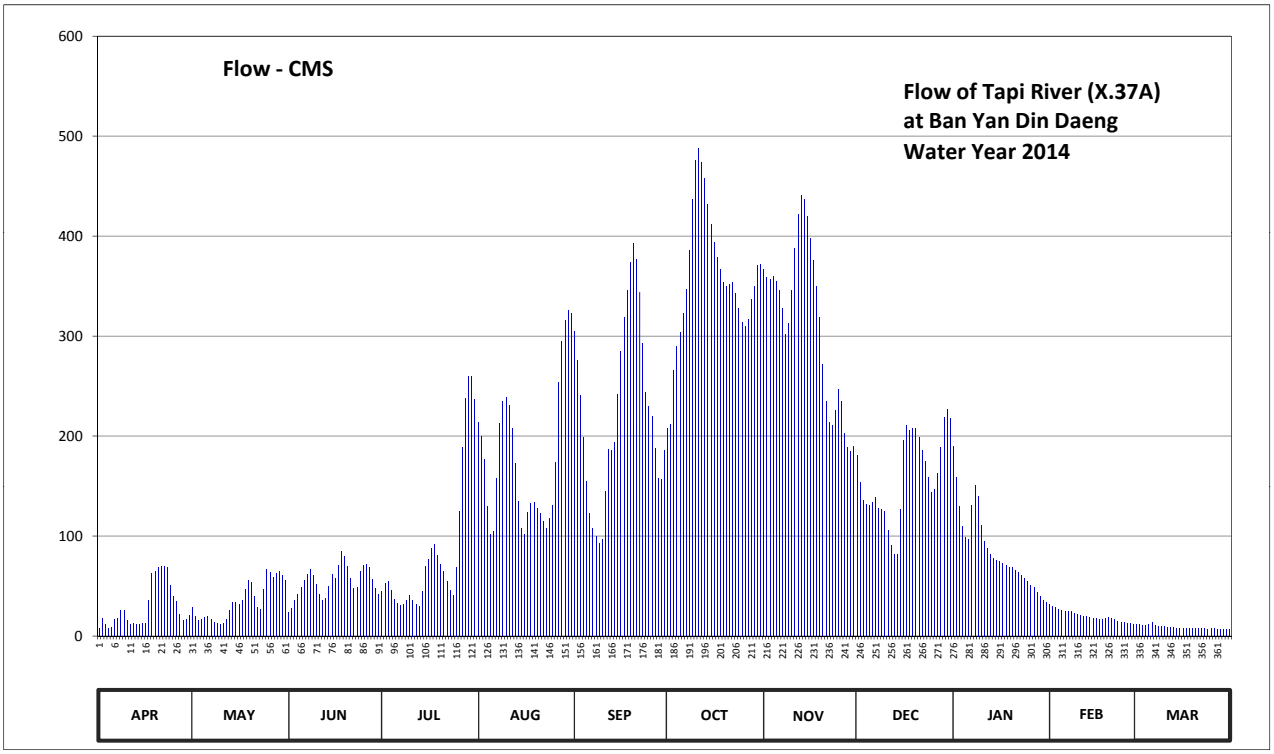
Location : on left bank at Tambon Yan Din Daeng.

	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	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +12.682 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 Flot	-		
Rated by Current Meter	1969 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.77	5.42	5.28	5.78	9.00	9.70	8.95	10.10	8.71	8.80	5.49	4.92	
2	5.12	5.17	5.39	5.93	8.88	9.50	8.98	10.05	8.42	8.48	5.44	4.91	
3	4.93	5.06	5.58	5.96	8.67	9.22	9.43	10.04	8.19	8.10	5.41	4.89	
4	4.78	5.08	5.71	5.79	8.09	8.87	9.60	10.06	8.12	7.75	5.36	4.88	
5	4.83	5.16	5.85	5.62	7.54	8.43	9.69	10.03	8.11	7.46	5.34	4.93	
6	5.10	5.20	5.98	5.52	7.63	7.97	9.82	9.97	8.16	7.43	5.31	5.00	
7	5.12	5.08	6.09	5.47	8.46	7.69	9.98	9.85	8.23	8.11	5.31	4.90	
8	5.34	5.00	6.18	5.50	8.99	7.49	10.21	9.68	8.06	8.39	5.31	4.87	
9	5.33	4.95	6.07	5.59	9.17	7.28	10.50	9.75	8.04	8.25	5.27	4.86	
10	5.05	4.93	5.90	5.69	9.21	7.41	10.70	9.97	8.02	7.76	5.24	4.84	
11	4.92	4.96	5.72	5.60	9.14	8.31	10.76	10.22	7.65	7.37	5.21	4.83	
12	4.94	5.07	5.59	5.49	8.95	8.77	10.69	10.42	7.22	7.11	5.19	4.82	
13	4.92	5.34	5.63	5.43	8.63	8.76	10.61	10.52	6.92	6.93	5.17	4.81	
14	4.92	5.54	5.87	5.77	8.17	8.83	10.47	10.50	6.91	6.80	5.15	4.80	
15	4.95	5.55	6.09	6.34	7.70	9.23	10.36	10.41	8.04	6.70	5.13	4.79	
16	4.96	5.50	6.01	6.74	7.54	9.56	10.26	10.28	8.85	6.65	5.11	4.78	
17	5.60	5.59	6.36	7.12	7.99	9.79	10.17	10.15	8.97	6.51	5.09	4.78	
18	6.10	5.81	7.02	7.25	8.15	9.97	10.10	10.00	8.93	6.38	5.08	4.77	
19	6.14	5.98	6.84	6.88	8.16	10.14	10.02	9.79	8.95	6.25	5.11	4.77	
20	6.23	5.94	6.34	6.42	8.06	10.25	10.00	9.47	8.95	6.21	5.16	4.76	
21	6.31	5.67	6.02	6.14	7.97	10.16	10.01	9.17	8.87	6.15	5.13	4.77	
22	6.31	5.42	5.83	5.96	7.84	9.96	10.02	9.00	8.76	6.12	5.07	4.76	
23	6.22	5.37	5.85	5.79	7.68	9.62	9.95	8.97	8.65	6.07	5.03	4.76	
24	5.89	5.82	6.13	5.69	7.90	9.25	9.85	9.10	8.48	6.01	5.00	4.75	
25	5.68	6.17	6.38	6.27	8.11	9.13	9.76	9.27	8.30	5.95	4.98	4.77	
26	5.57	6.12	6.47	8.02	8.64	9.05	9.73	9.17	8.33	5.89	4.96	4.77	
27	5.23	6.03	6.22	8.79	9.33	8.78	9.78	8.91	8.52	5.84	4.94	4.75	
28	5.05	6.11	5.99	9.20	9.63	8.46	9.91	8.79	8.79	5.76	4.93	4.74	
29	5.10	6.13	5.83	9.38	9.77	8.45	10.00	8.75	9.04	5.67		4.74	
30	5.21	6.06	5.72	9.38	9.84	8.76	10.12	8.80	9.11	5.59		4.74	
31		5.97		9.19	9.82		10.13		9.03	5.54		4.73	
Mean	5.35	5.52	6.00	6.57	8.54	8.96	10.02	9.71	8.37	6.84	5.18	4.81	
Max	6.31	6.17	7.02	9.38	9.84	10.25	10.76	10.52	9.11	8.80	5.49	5.00	10.76
Min	4.77	4.93	5.28	5.43	7.54	7.28	8.95	8.75	6.91	5.54	4.93	4.73	4.73

Annual Max Momentary Gage Height	10.77	m. (MSL.) ,	at 08.00 Hours , on Oct 11 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	2.60	m. (MSL.)
Left Bank Elevation	12.43	m. (MSL.) ,			
Right Bank Elevation	12.59	m. (MSL.) ,	Drainage Area	5383	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.40	28.80	23.20	45.00	214.00	305.00	208.00	367.00	181.00	190.00	31.60	11.60		
2	17.60	19.10	27.60	53.15	199.60	276.00	211.60	358.50	153.80	159.20	29.60	11.30		
3	11.90	15.80	35.20	54.80	177.00	240.40	266.20	356.80	135.40	130.00	28.40	10.70		
4	7.60	16.40	41.50	45.50	129.40	198.40	290.00	360.20	131.20	110.00	26.40	10.40		
5	8.90	18.80	48.75	37.00	101.60	154.70	303.50	355.10	130.60	98.40	25.60	11.90		
6	17.00	20.00	55.90	32.80	105.20	122.20	323.00	345.50	133.60	97.20	24.40	14.00		
7	17.60	16.40	61.95	30.80	157.40	107.60	347.00	327.50	138.40	130.60	24.40	11.00		
8	25.60	14.00	66.90	32.00	212.80	99.60	385.70	302.00	127.60	151.20	24.40	10.10		
9	25.20	12.50	60.85	35.60	234.40	92.40	437.00	312.50	126.40	140.00	22.80	9.80		
10	15.50	11.90	51.50	40.50	239.20	96.40	476.00	345.50	125.20	110.40	21.60	9.20		
11	11.60	12.80	42.00	36.00	230.80	144.80	488.00	387.40	106.00	95.10	20.40	8.90		
12	12.20	16.10	35.60	31.60	208.00	187.00	474.00	421.80	90.60	87.30	19.70	8.60		
13	11.60	25.60	37.50	29.20	173.00	186.00	458.00	440.80	81.60	81.90	19.10	8.30		
14	11.60	33.60	49.85	44.50	134.20	193.60	431.30	437.00	81.30	78.00	18.50	8.00		
15	12.50	34.00	61.95	70.10	108.00	241.60	411.20	419.90	126.40	76.00	17.90	7.80		
16	12.80	32.00	57.55	76.80	101.60	284.40	394.20	397.60	196.00	75.00	17.30	7.60		
17	36.00	35.60	70.40	87.60	123.40	318.50	378.90	375.50	210.40	72.65	16.70	7.60		
18	62.50	46.55	84.60	91.50	133.00	345.50	367.00	350.00	205.60	70.70	16.40	7.40		
19	64.70	55.90	79.20	80.40	133.60	373.80	353.40	318.50	208.00	68.75	17.30	7.40		
20	68.45	53.70	70.10	71.30	127.60	392.50	350.00	271.80	208.00	68.15	18.80	7.20		
21	69.65	39.50	58.10	64.70	122.20	377.20	351.70	234.40	198.40	65.25	17.90	7.40		
22	69.65	28.80	47.65	54.80	114.40	344.00	353.40	214.00	186.00	63.60	16.10	7.20		
23	68.30	26.80	48.75	45.50	107.20	293.00	342.50	210.40	175.00	60.85	14.90	7.20		
24	50.95	47.10	64.15	40.50	118.00	244.00	327.50	226.00	159.20	57.55	14.00	7.00		
25	40.00	66.35	70.70	69.05	130.60	229.60	314.00	246.40	144.00	54.25	13.40	7.40		
26	34.80	63.60	72.05	125.20	174.00	220.00	309.50	234.40	146.40	50.95	12.80	7.40		
27	21.20	58.65	68.30	189.00	253.60	188.00	317.00	203.20	162.80	48.20	12.20	7.00		
28	15.50	63.05	56.45	238.00	294.50	157.40	336.50	189.00	189.00	44.00	11.90	6.80		
29	17.00	64.15	47.65	259.60	315.50	156.50	350.00	185.00	218.80	39.50		6.80		
30	20.40	60.30	42.00	259.60	326.00	186.00	370.40	190.00	227.20	35.60		6.80		
31		55.35		236.80	323.00		372.10		217.60	33.60		6.60		
Total	865.70	1,093.20	1,637.90	2608.90	5522.80	6756.10	11098.60	9383.70	4921.50	2643.90	554.50	266.40	47353.20	CMSDAY
Mean	28.86	35.26	54.60	84.16	178.15	225.20	358.02	312.79	158.76	85.29	19.80	8.59	129.73	CMS
Max	69.65	66.35	84.60	259.60	326.00	392.50	488.00	440.80	227.20	190.00	31.60	14.00	488.00	CMS
Min	7.40	11.90	23.20	29.20	101.60	92.40	208.00	185.00	81.30	33.60	11.90	6.60	6.60	CMS
Runoff	74.80	94.45	141.52	225.41	477.17	583.73	958.92	810.75	425.22	228.43	47.91	23.02	4091.32	MCM

Momentary Peak 490.00 CMS, at 10.77 m. (MSL), at 08.00 Hours, on Oct 11, 2014

Runoff Yield 24.10 Liters/Second/Square KM. Momentary Peak Yield 91.023 Liters/Second/Square KM.

WATER YEAR : 2014

TAPI RIVER BASIN

Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)

Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

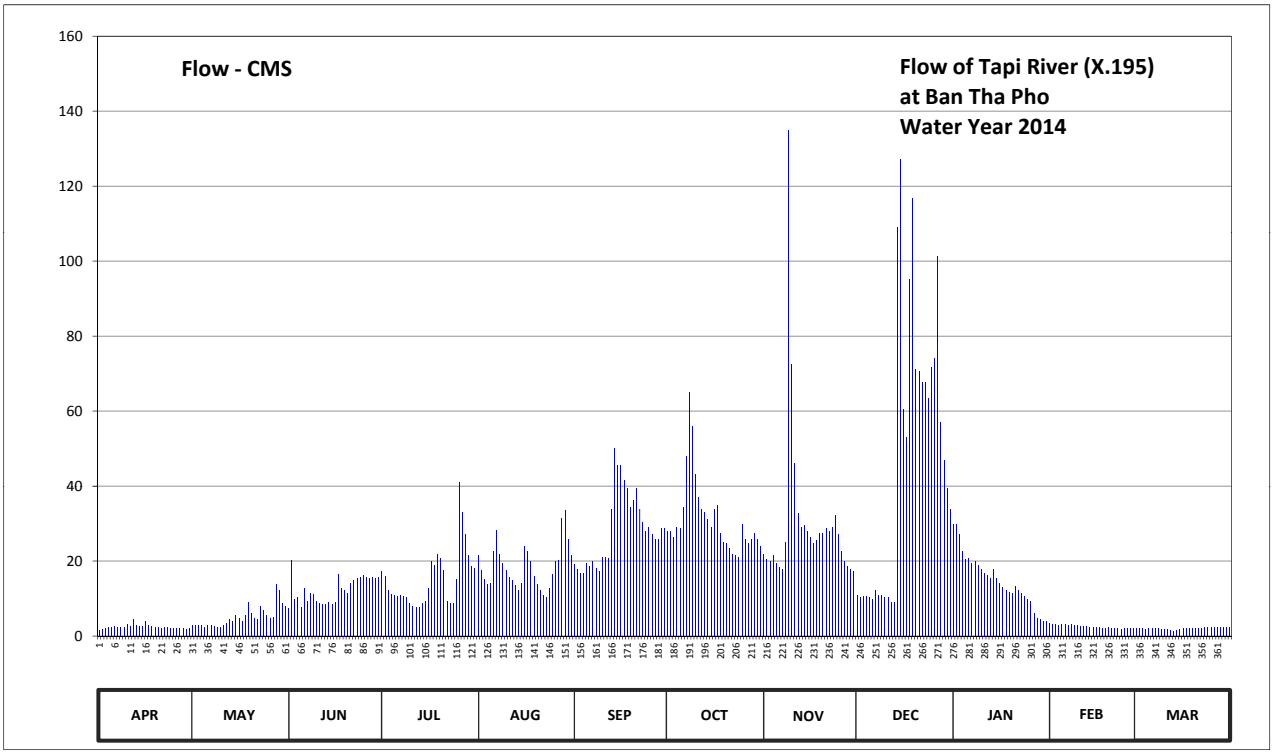
Location : on left bank at Ban Tha Pho.

	Ban Tha Pho	**Amphoe** Chawang	**Changwat** Nakhon Si Thammarat
Drainge Area	488 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.		**Elevation** +40.509 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 - 2006, 2011 to date		
Rating Operation			
Period of Rating	1998 - 2006, 2011 to date		
Rated by Flot	-		
Rated by Current Meter	1998 - 2006, 2011 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.56	32.67	32.92	33.27	33.41	33.34	33.57	33.42	33.06	33.62	32.72	32.59	
2	32.58	32.69	33.37	33.23	33.28	33.29	33.57	33.38	33.04	33.62	32.71	32.59	
3	32.59	32.69	33.03	33.11	33.20	33.26	33.53	33.36	33.05	33.55	32.70	32.59	
4	32.64	32.69	33.04	33.07	33.16	33.26	33.60	33.41	33.05	33.44	32.69	32.58	
5	32.64	32.64	32.93	33.06	33.17	33.35	33.59	33.35	33.04	33.38	32.70	32.59	
6	32.65	32.67	33.12	33.05	33.44	33.32	33.73	33.31	33.03	33.39	32.71	32.59	
7	32.63	32.67	33.01	33.06	33.58	33.36	34.02	33.29	33.11	33.35	32.69	32.59	
8	32.62	32.65	33.08	33.05	33.42	33.30	34.36	33.50	33.06	33.36	32.70	32.59	
9	32.64	32.64	33.07	33.04	33.35	33.27	34.18	35.44	33.06	33.33	32.68	32.58	
10	32.71	32.64	33.01	32.98	33.28	33.40	33.92	34.49	33.04	33.29	32.67	32.58	
11	32.66	32.67	32.98	32.94	33.22	33.40	33.79	33.98	33.04	33.26	32.66	32.58	
12	32.77	32.72	32.97	32.93	33.19	33.39	33.72	33.69	33.00	33.24	32.65	32.55	
13	32.69	32.77	32.97	32.93	33.15	33.72	33.70	33.60	33.00	33.21	32.65	32.53	
14	32.66	32.74	33.00	32.98	33.11	34.06	33.65	33.61	35.07	33.29	32.64	32.55	
15	32.66	32.83	32.97	33.01	33.17	33.97	33.60	33.57	35.33	33.21	32.63	32.58	
16	32.74	32.78	33.00	33.12	33.47	33.97	33.72	33.53	34.27	33.17	32.63	32.59	
17	32.69	32.75	33.25	33.36	33.44	33.89	33.74	33.49	34.12	33.13	32.62	32.59	
18	32.66	32.83	33.12	33.33	33.36	33.84	33.56	33.51	34.87	33.11	32.61	32.60	
19	32.64	33.00	33.11	33.42	33.23	33.73	33.50	33.56	35.18	33.09	32.61	32.61	
20	32.62	32.85	33.08	33.39	33.16	33.77	33.49	33.56	34.47	33.08	32.63	32.60	
21	32.61	32.79	33.17	33.28	33.11	33.84	33.46	33.59	34.46	33.14	32.61	32.61	
22	32.62	32.77	33.19	33.01	33.06	33.72	33.42	33.57	34.41	33.11	32.60	32.61	
23	32.62	32.95	33.21	32.99	33.04	33.63	33.41	33.60	34.41	33.08	32.59	32.64	
24	32.61	32.89	33.22	32.99	33.12	33.57	33.40	33.68	34.33	33.05	32.58	32.62	
25	32.60	32.83	33.24	33.20	33.25	33.60	33.62	33.55	34.48	33.03	32.59	32.62	
26	32.61	32.79	33.22	33.88	33.36	33.55	33.52	33.44	34.52	33.01	32.60	32.64	
27	32.59	32.80	33.21	33.70	33.37	33.52	33.49	33.36	34.96	32.85	32.60	32.64	
28	32.59	33.16	33.22	33.55	33.66	33.52	33.52	33.32	34.20	32.79	32.60	32.63	
29	32.58	33.11	33.21	33.41	33.71	33.59	33.56	33.29	34.00	32.77		32.63	
30	32.59	32.99	33.22	33.32	33.52	33.59	33.52	33.27	33.84	32.75		32.63	
31		32.95		33.30	33.41		33.47		33.72	32.74		32.63	
Mean	32.64	32.79	33.10	33.19	33.30	33.57	33.64	33.59	33.88	33.18	32.65	32.60	
Max	32.77	33.16	33.37	33.88	33.71	34.06	34.36	35.44	35.33	33.62	32.72	32.64	35.44
Min	32.56	32.64	32.92	32.93	33.04	33.26	33.40	33.27	33.00	32.74	32.58	32.53	32.53

Annual Max Momentary Gage Height	36.46	m. (MSL.) ,	at 22.00 Hours , on Dec 14 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	31.70	m. (MSL.)
Left Bank Elevation	40.13	m. (MSL.) ,			
Right Bank Elevation	40.16	m. (MSL.) ,	Drainage Area	488	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	2.70	7.40	17.10	21.40	19.20	27.80	21.80	10.80	29.80	3.40	1.90		
2	1.80	2.90	20.10	15.90	17.40	17.70	27.80	20.40	10.20	29.80	3.20	1.90		
3	1.90	2.90	9.90	12.30	15.00	16.80	26.20	19.80	10.50	27.00	3.00	1.90		
4	2.40	2.90	10.20	11.10	13.80	16.80	29.00	21.40	10.50	22.60	2.90	1.80		
5	2.40	2.40	7.60	10.80	14.10	19.50	28.60	19.50	10.20	20.40	3.00	1.90		
6	2.50	2.70	12.60	10.50	22.60	18.60	34.35	18.30	9.90	20.70	3.20	1.90		
7	2.30	2.70	9.30	10.80	28.20	19.80	48.00	17.70	12.30	19.50	2.90	1.90		
8	2.20	2.50	11.40	10.50	21.80	18.00	65.00	25.00	10.80	19.80	3.00	1.90		
9	2.40	2.40	11.10	10.20	19.50	17.10	56.00	134.80	10.80	18.90	2.80	1.80		
10	3.20	2.40	9.30	8.60	17.40	21.00	43.00	72.40	10.20	17.70	2.70	1.80		
11	2.60	2.70	8.60	7.80	15.60	21.00	37.05	46.00	10.20	16.80	2.60	1.80		
12	4.40	3.40	8.40	7.60	14.70	20.70	33.90	32.60	9.00	16.20	2.50	1.50		
13	2.90	4.40	8.40	7.60	13.50	33.90	33.00	29.00	9.00	15.30	2.50	1.30		
14	2.60	3.80	9.00	8.60	12.30	50.00	31.00	29.40	108.90	17.70	2.40	1.50		
15	2.60	5.60	8.40	9.30	14.10	45.50	29.00	27.80	127.10	15.30	2.30	1.80		
16	3.80	4.60	9.00	12.60	23.80	45.50	33.90	26.20	60.50	14.10	2.30	1.90		
17	2.90	4.00	16.50	19.80	22.60	41.55	34.80	24.60	53.00	12.90	2.20	1.90		
18	2.60	5.60	12.60	18.90	19.80	39.30	27.40	25.40	95.20	12.30	2.10	2.00		
19	2.40	9.00	12.30	21.80	15.90	34.35	25.00	27.40	116.60	11.70	2.10	2.10		
20	2.20	6.00	11.40	20.70	13.80	36.15	24.60	27.40	71.20	11.40	2.30	2.00		
21	2.10	4.80	14.10	17.40	12.30	39.30	23.40	28.60	70.60	13.20	2.10	2.10		
22	2.20	4.40	14.70	9.30	10.80	33.90	21.80	27.80	67.60	12.30	2.00	2.10		
23	2.20	8.00	15.30	8.80	10.20	30.20	21.40	29.00	67.60	11.40	1.90	2.40		
24	2.10	6.80	15.60	8.80	12.60	27.80	21.00	32.20	63.50	10.50	1.80	2.20		
25	2.00	5.60	16.20	15.00	16.50	29.00	29.80	27.00	71.80	9.90	1.90	2.20		
26	2.10	4.80	15.60	41.10	19.80	27.00	25.80	22.60	74.20	9.30	2.00	2.40		
27	1.90	5.00	15.30	33.00	20.10	25.80	24.60	19.80	101.20	6.00	2.00	2.40		
28	1.90	13.80	15.60	27.00	31.40	25.80	25.80	18.60	57.00	4.80	2.00	2.30		
29	1.80	12.30	15.30	21.40	33.45	28.60	27.40	17.70	47.00	4.40		2.30		
30	1.90	8.80	15.60	18.60	25.80	28.60	25.80	17.10	39.30	4.00		2.30		
31		8.00		18.00	21.40		23.80		33.90	3.80		2.30		
Total	71.90	157.90	366.80	470.90	571.65	848.45	966.00	907.30	1460.60	459.50	69.10	61.50	6411.60	CMSDAY
Mean	2.40	5.09	12.23	15.19	18.44	28.28	31.16	30.24	47.12	14.82	2.47	1.98	17.57	CMS
Max	4.40	13.80	20.10	41.10	33.45	50.00	65.00	134.80	127.10	29.80	3.40	2.40	134.80	CMS
Min	1.60	2.40	7.40	7.60	10.20	16.80	21.00	17.10	9.00	3.80	1.80	1.30	1.30	CMS
Runoff	6.21	13.64	31.69	40.69	49.39	73.31	83.46	78.39	126.20	39.70	5.97	5.31	553.96	MCM

Momentary Peak 213.80 CMS, at 36.46 m. (MSL.), at 22.00 Hours, on Dec 14, 2014

Runoff Yield 36.00 Liters/Second/Square KM. Momentary Peak Yield 438.115 Liters/Second/Square KM.

WATER YEAR : 2014

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. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +19.252 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

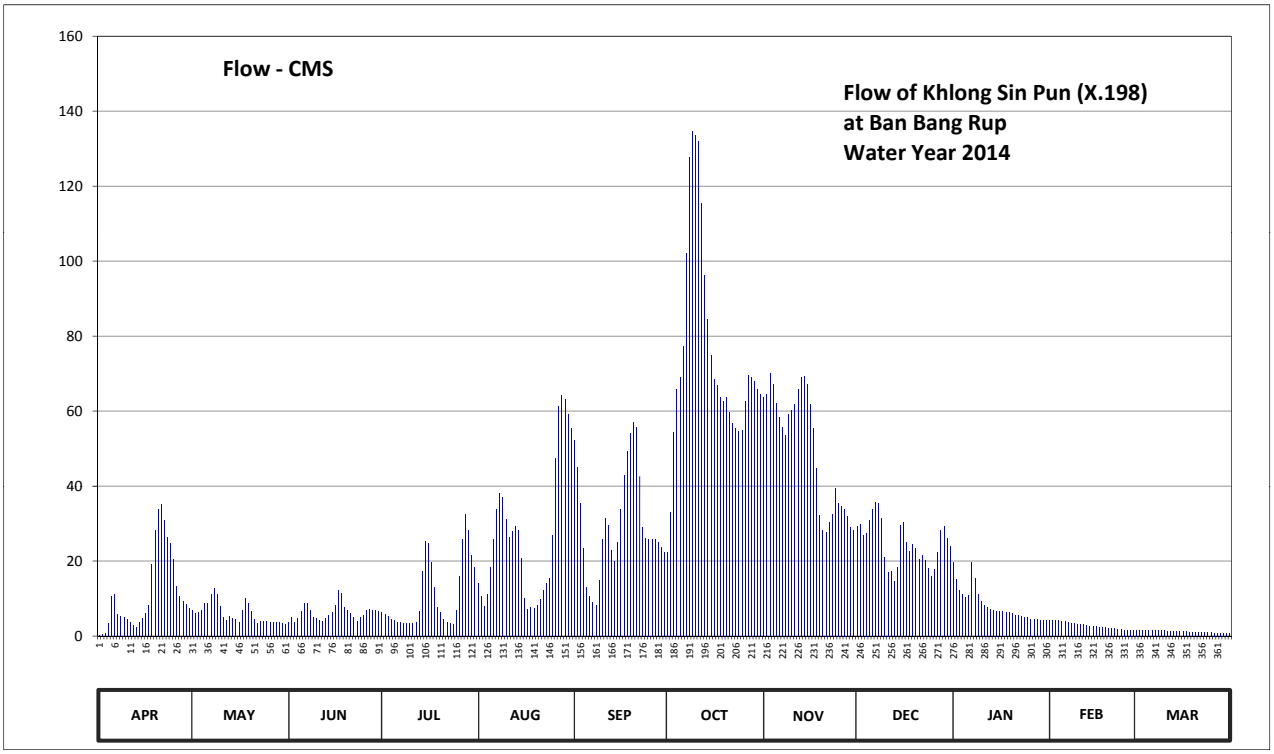
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.05	10.98	10.57	10.92	11.83	14.51	12.60	15.78	13.16	12.37	10.65	10.29	
2	10.07	10.89	10.74	10.86	11.45	14.14	13.44	15.82	13.20	11.93	10.64	10.29	
3	10.14	10.90	10.59	10.77	11.12	13.58	14.61	16.03	12.98	11.63	10.64	10.28	
4	10.52	10.97	10.71	10.67	11.50	12.69	15.11	15.92	13.02	11.49	10.63	10.28	
5	11.45	11.20	10.93	10.63	12.24	11.70	15.24	15.71	13.33	11.41	10.60	10.27	
6	11.50	11.23	11.20	10.59	12.89	11.44	15.55	15.53	13.63	11.48	10.60	10.27	
7	10.85	11.50	11.23	10.56	13.48	11.24	16.32	15.38	13.82	12.37	10.56	10.26	
8	10.78	11.67	10.98	10.55	13.74	11.14	16.95	15.25	13.79	11.95	10.55	10.26	
9	10.73	11.49	10.76	10.52	13.68	11.89	17.09	15.56	13.40	11.50	10.52	10.26	
10	10.67	11.12	10.70	10.52	13.31	12.88	17.07	15.62	12.49	11.27	10.51	10.26	
11	10.57	10.75	10.63	10.54	12.92	13.33	17.04	15.70	12.12	11.15	10.48	10.25	
12	10.45	10.63	10.60	10.58	13.05	13.18	16.86	15.87	12.13	11.07	10.48	10.24	
13	10.38	10.79	10.70	10.95	13.16	12.64	16.63	16.00	11.88	11.01	10.46	10.24	
14	10.57	10.72	10.80	12.14	13.07	12.38	16.42	16.01	12.25	10.98	10.44	10.23	
15	10.71	10.66	10.92	12.83	12.46	12.82	16.18	15.92	13.18	10.96	10.43	10.23	
16	10.88	10.58	11.15	12.78	11.38	13.48	15.98	15.70	13.25	10.95	10.42	10.22	
17	11.15	10.98	11.63	12.37	11.01	14.01	15.91	15.37	12.82	10.94	10.40	10.22	
18	12.32	11.39	11.52	11.71	11.07	14.36	15.79	14.64	12.62	10.92	10.40	10.21	
19	13.07	11.20	11.08	11.09	11.05	14.59	15.74	13.49	12.76	10.90	10.37	10.20	
20	13.49	10.96	10.98	10.91	11.16	14.73	15.78	13.07	12.68	10.87	10.36	10.20	
21	13.57	10.68	10.87	10.69	11.36	14.67	15.59	13.04	12.44	10.82	10.35	10.19	
22	13.27	10.52	10.76	10.56	11.63	14.00	15.44	13.25	12.53	10.80	10.33	10.19	
23	12.93	10.60	10.62	10.52	11.83	13.13	15.36	13.50	12.42	10.77	10.32	10.18	
24	12.78	10.61	10.73	10.51	11.95	12.91	15.32	14.18	12.20	10.75	10.31	10.18	
25	12.43	10.60	10.83	10.97	12.96	12.89	15.33	13.81	12.01	10.73	10.29	10.17	
26	11.73	10.58	10.97	12.01	14.26	12.88	15.73	13.73	12.19	10.69	10.29	10.16	
27	11.44	10.57	11.00	12.87	14.92	12.87	16.02	13.65	12.59	10.66	10.29	10.16	
28	11.29	10.56	10.98	13.40	15.05	12.81	16.00	13.46	13.08	10.66	10.29	10.16	
29	11.18	10.56	10.97	13.08	15.01	12.70	15.96	13.14	13.15	10.65		10.16	
30	11.06	10.52	10.94	12.53	14.83	12.59	15.87	13.08	12.90	10.65		10.15	
31		10.50		12.24	14.66		15.82		12.72	10.65		10.15	
Mean	11.40	10.87	10.90	11.35	12.71	13.07	15.77	14.77	12.80	11.13	10.45	10.22	
Max	13.57	11.67	11.63	13.40	15.05	14.73	17.09	16.03	13.82	12.37	10.65	10.29	17.09
Min	10.05	10.50	10.57	10.51	11.01	11.14	12.60	13.04	11.88	10.65	10.29	10.15	10.05

Annual Max Momentary Gage Height 17.10 m. (MSL.) , at 06.00 Hours , on Oct 9 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 9.15 m. (MSL.)

Left Bank Elevation 18.90 m. (MSL.) ,

Right Bank Elevation 18.89 m. (MSL.) , Drainage Area 866 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	6.84	3.59	6.36	14.10	52.31	22.40	63.58	29.28	19.69	4.20	1.63		
2	0.35	6.12	4.92	5.88	10.65	45.12	33.04	64.50	29.80	15.10	4.12	1.63		
3	0.70	6.20	3.73	5.16	7.96	35.28	54.41	69.96	26.96	12.27	4.12	1.56		
4	3.24	6.76	4.68	4.36	11.10	23.48	65.75	67.00	27.46	11.01	4.04	1.56		
5	10.65	8.60	6.44	4.04	18.32	12.90	69.00	62.11	30.84	10.29	3.80	1.49		
6	11.10	8.84	8.60	3.73	25.88	10.56	77.20	58.47	33.70	10.92	3.80	1.49		
7	5.80	11.10	8.84	3.52	33.68	8.92	102.20	55.66	35.60	19.69	3.52	1.42		
8	5.24	12.63	6.84	3.45	37.98	8.12	127.75	53.45	35.30	15.30	3.45	1.42		
9	4.84	11.01	5.08	3.24	36.96	14.70	134.50	59.04	31.40	11.10	3.24	1.42		
10	4.36	7.96	4.60	3.24	31.23	25.76	133.50	60.22	21.08	9.16	3.17	1.42		
11	3.59	5.00	4.04	3.38	26.24	31.49	132.00	61.90	17.06	8.20	2.96	1.35		
12	2.75	4.04	3.80	3.66	27.85	29.54	115.30	65.75	17.17	7.56	2.96	1.28		
13	2.26	5.32	4.60	6.60	29.28	22.88	96.25	69.00	14.60	7.08	2.82	1.28		
14	3.59	4.76	5.40	17.27	28.11	19.79	84.46	69.32	18.43	6.84	2.68	1.21		
15	4.68	4.28	6.36	25.16	20.72	25.04	74.76	67.00	29.54	6.68	2.61	1.21		
16	6.04	3.66	8.20	24.56	10.04	33.68	68.50	61.90	30.20	6.60	2.54	1.14		
17	8.20	6.84	12.27	19.69	7.08	42.78	66.75	55.49	25.04	6.52	2.40	1.14		
18	19.16	10.12	11.28	12.99	7.56	49.24	63.79	44.72	22.64	6.36	2.40	1.07		
19	28.11	8.60	7.64	7.72	7.40	53.99	62.74	32.30	24.32	6.20	2.19	1.00		
20	33.84	6.68	6.84	6.28	8.28	56.93	63.58	28.11	23.36	5.96	2.12	1.00		
21	35.12	4.44	5.96	4.52	9.88	55.67	59.61	27.72	20.48	5.56	2.05	0.95		
22	30.71	3.24	5.08	3.52	12.27	42.60	56.76	30.20	21.56	5.40	1.91	0.95		
23	26.36	3.80	3.96	3.24	14.10	28.89	55.32	32.40	20.24	5.16	1.84	0.90		
24	24.56	3.88	4.84	3.17	15.30	26.12	54.64	39.38	17.90	5.00	1.77	0.90		
25	20.36	3.80	5.64	6.76	26.72	25.88	54.81	35.50	15.91	4.84	1.63	0.85		
26	13.17	3.66	6.76	15.91	47.34	25.76	62.53	34.70	17.79	4.52	1.63	0.80		
27	10.56	3.59	7.00	25.64	61.16	25.64	69.64	33.90	22.28	4.28	1.63	0.80		
28	9.32	3.52	6.84	32.40	64.25	24.92	69.00	32.00	28.24	4.28	1.63	0.80		
29	8.44	3.52	6.76	28.24	63.25	23.60	68.00	29.02	29.15	4.20		0.80		
30	7.48	3.24	6.52	21.56	59.09	22.28	65.75	28.24	26.00	4.20		0.75		
31		3.10		18.32	55.46		64.50		23.84	4.20		0.75		
Total	344.83	185.15	187.11	333.57	829.24	903.87	2328.44	1492.54	767.17	254.17	77.23	35.97	7739.29	CMSDAY
Mean	11.49	5.97	6.24	10.76	26.75	30.13	75.11	49.75	24.75	8.20	2.76	1.16	21.20	CMS
Max	35.12	12.63	12.27	32.40	64.25	56.93	134.50	69.96	35.60	19.69	4.20	1.63	134.50	CMS
Min	0.25	3.10	3.59	3.17	7.08	8.12	22.40	27.72	14.60	4.20	1.63	0.75	0.25	CMS
Runoff	29.79	16.00	16.17	28.82	71.65	78.09	201.18	128.96	66.28	21.96	6.67	3.11	668.68	MCM

Momentary Peak 135.00 CMS, at 17.10 m. (MSL.), at 06.00 Hours, on Oct 9, 2014

Runoff Yield 24.48 Liters/Second/Square KM. Momentary Peak Yield 155.889 Liters/Second/Square KM.

WATER YEAR : 2014

TAPI RIVER BASIN

Tapi River at Ban Khian Sa , Surat Thani (X.217)

Lat 08 - 50 - 54 N Long 99 - 12 - 03 E

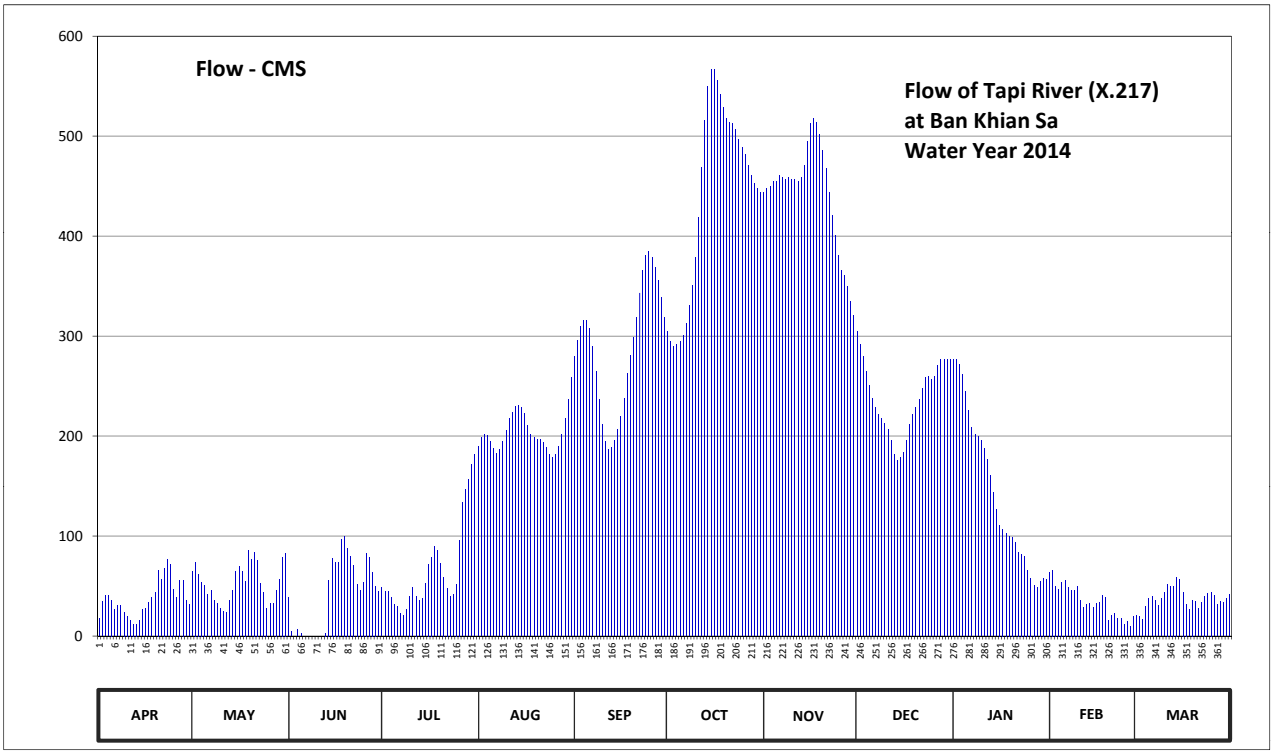
Location : on left bank at Ban Khian Sa.

	Ban Khian Sa	**Amphoe** Khian Sa	**Changwat** Surat Thani
Drainge Area	6,697 sq.km.		
Type of Gage	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** +9.801 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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.81	0.53	0.65	1.95	2.61	2.78	3.60	2.78	2.59	0.80	0.31	
2	0.48	0.90	0.08	0.61	2.02	2.72	2.71	3.62	2.69	2.59	0.82	0.29	
3	0.56	0.78	-0.10	0.61	2.05	2.81	2.68	3.63	2.61	2.56	0.66	0.26	
4	0.56	0.70	0.11	0.53	2.04	2.85	2.69	3.66	2.51	2.49	0.63	0.42	
5	0.50	0.67	0.04	0.45	1.99	2.85	2.71	3.66	2.42	2.38	0.70	0.52	
6	0.38	0.57	-0.03	0.42	1.93	2.80	2.75	3.69	2.33	2.24	0.72	0.54	
7	0.43	0.62	-0.03	0.33	1.89	2.68	2.83	3.68	2.26	2.11	0.65	0.49	
8	0.43	0.49	0.00	0.31	1.92	2.51	2.94	3.67	2.21	2.05	0.62	0.43	
9	0.35	0.46	-0.08	0.38	1.99	2.32	3.07	3.68	2.18	2.03	0.62	0.52	
10	0.30	0.40	-0.19	0.55	2.08	2.13	3.24	3.67	2.14	2.00	0.66	0.59	
11	0.25	0.36	-0.23	0.65	2.18	1.99	3.46	3.67	2.09	1.93	0.50	0.68	
12	0.20	0.35	-0.22	0.55	2.23	1.92	3.74	3.66	2.00	1.84	0.41	0.66	
13	0.20	0.49	0.05	0.49	2.27	1.94	4.00	3.68	1.88	1.71	0.45	0.66	
14	0.24	0.62	0.72	0.52	2.28	2.00	4.19	3.75	1.83	1.56	0.46	0.75	
15	0.38	0.81	0.94	0.69	2.26	2.09	4.28	3.88	1.86	1.42	0.41	0.73	
16	0.39	0.86	0.90	0.88	2.22	2.20	4.28	3.98	1.90	1.27	0.46	0.60	
17	0.47	0.81	0.90	0.95	2.12	2.33	4.22	4.01	2.00	1.23	0.47	0.45	
18	0.53	0.71	1.13	1.06	2.05	2.50	4.14	3.99	2.13	1.19	0.56	0.38	
19	0.59	1.02	1.16	1.02	2.02	2.62	4.07	3.92	2.21	1.16	0.53	0.50	
20	0.82	0.93	1.04	0.89	2.01	2.74	4.01	3.83	2.26	1.15	0.24	0.48	
21	0.73	1.00	0.96	0.75	2.01	2.87	3.99	3.73	2.32	1.10	0.31	0.39	
22	0.84	0.92	0.87	0.64	1.98	3.02	3.98	3.60	2.40	1.00	0.33	0.47	
23	0.93	0.69	0.68	0.55	1.94	3.16	3.95	3.47	2.47	0.98	0.27	0.55	
24	0.88	0.60	0.62	0.57	1.88	3.25	3.89	3.36	2.48	0.96	0.27	0.58	
25	0.63	0.40	0.70	0.68	1.86	3.27	3.85	3.25	2.46	0.82	0.19	0.60	
26	0.53	0.46	0.99	1.12	1.88	3.24	3.81	3.16	2.48	0.74	0.23	0.56	
27	0.72	0.46	0.95	1.48	1.95	3.18	3.75	3.13	2.55	0.67	0.16	0.44	
28	0.72	0.62	0.80	1.59	2.05	3.10	3.69	3.06	2.59	0.65	0.29	0.48	
29	0.49	0.73	0.66	1.67	2.18	2.99	3.65	2.97	2.59	0.71		0.47	
30	0.44	0.95	0.61	1.80	2.32	2.87	3.62	2.88	2.59	0.74		0.52	
31		0.99		1.88	2.47		3.60		2.59	0.73		0.57	
Mean	0.51	0.68	0.49	0.82	2.07	2.65	3.57	3.58	2.32	1.50	0.48	0.51	
Max	0.93	1.02	1.16	1.88	2.47	3.27	4.28	4.01	2.78	2.59	0.82	0.75	4.28
Min	0.20	0.35	-0.23	0.31	1.86	1.92	2.68	2.88	1.83	0.65	0.16	0.26	-0.23

Annual Max Momentary Gage Height	4.30	m. (MSL.) ,	at 19.00 Hours , on Oct 15 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-7.22	m. (MSL.)
Left Bank Elevation	9.94	m. (MSL.) ,			
Right Bank Elevation	8.65	m. (MSL.) ,	Drainage Area	6697	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.60	65.00	38.40	49.00	190.00	279.50	305.00	444.00	305.00	276.50	64.00	20.80		
2	34.40	74.00	4.80	45.00	198.40	296.00	294.50	447.60	291.50	276.50	66.00	19.20		
3	40.80	62.00	0.00	45.00	202.00	309.60	290.00	449.40	279.50	272.00	50.00	16.80		
4	40.80	54.00	6.60	38.40	200.80	316.00	291.50	454.80	264.50	261.50	47.00	29.60		
5	36.00	51.00	2.40	32.00	194.80	316.00	294.50	454.80	251.00	245.20	54.00	37.60		
6	26.40	41.60	0.00	29.60	187.60	308.00	300.50	460.20	238.20	225.60	56.00	39.20		
7	30.40	46.00	0.00	22.40	182.80	290.00	312.80	458.40	228.40	209.20	49.00	35.20		
8	30.40	35.20	0.00	20.80	186.40	264.50	330.40	456.60	221.40	202.00	46.00	30.40		
9	24.00	32.80	0.00	26.40	194.80	236.80	351.20	458.40	217.60	199.60	46.00	37.60		
10	20.00	28.00	0.00	40.00	205.60	211.60	379.20	456.60	212.80	196.00	50.00	43.20		
11	16.00	24.80	0.00	49.00	217.60	194.80	418.80	456.60	206.80	187.60	36.00	52.00		
12	12.00	24.00	0.00	40.00	224.20	186.40	469.20	454.80	196.00	176.80	28.80	50.00		
13	12.00	35.20	3.00	35.20	229.80	188.80	516.00	458.40	181.60	161.20	32.00	50.00		
14	15.20	46.00	56.00	37.60	231.20	196.00	550.20	471.00	175.60	143.20	32.80	59.00		
15	26.40	65.00	78.00	53.00	228.40	206.80	566.40	494.40	179.20	126.40	28.80	57.00		
16	27.20	70.00	74.00	72.00	222.80	220.00	566.40	512.40	184.00	111.00	32.80	44.00		
17	33.60	65.00	74.00	79.00	210.40	238.20	555.60	517.80	196.00	107.00	33.60	32.00		
18	38.40	55.00	97.00	90.00	202.00	263.00	541.20	514.20	211.60	103.00	40.80	26.40		
19	43.20	86.00	100.00	86.00	198.40	281.00	528.60	501.60	221.40	100.00	38.40	36.00		
20	66.00	77.00	88.00	73.00	197.20	299.00	517.80	485.40	228.40	99.00	15.20	34.40		
21	57.00	84.00	80.00	59.00	197.20	319.20	514.20	467.40	236.80	94.00	20.80	27.20		
22	68.00	76.00	71.00	48.00	193.60	343.20	512.40	444.00	248.00	84.00	22.40	33.60		
23	77.00	53.00	52.00	40.00	188.80	365.60	507.00	420.60	258.50	82.00	17.60	40.00		
24	72.00	44.00	46.00	41.60	181.60	381.00	496.20	400.80	260.00	80.00	17.60	42.40		
25	47.00	28.00	54.00	52.00	179.20	384.60	489.00	381.00	257.00	66.00	11.40	44.00		
26	38.40	32.80	83.00	96.00	181.60	379.20	481.80	365.60	260.00	58.00	14.40	40.80		
27	56.00	32.80	79.00	133.60	190.00	368.80	471.00	360.80	270.50	51.00	9.60	31.20		
28	56.00	46.00	64.00	146.80	202.00	356.00	460.20	349.60	276.50	49.00	19.20	34.40		
29	35.20	57.00	50.00	156.40	217.60	338.40	453.00	335.20	276.50	55.00		33.60		
30	31.20	79.00	45.00	172.00	236.80	319.20	447.60	320.80	276.50	58.00		37.60		
31		83.00		181.60	258.50		444.00		276.50	57.00		41.60		
Total	1128.60	1653.20	1246.20	2090.40	6332.10	8657.20	13656.20	13253.20	7387.30	4413.30	980.20	1156.80	61954.71	CMSDAY
Mean	37.62	53.33	41.54	67.43	204.26	288.57	440.52	441.77	238.30	142.36	35.01	37.32	169.74	CMS
Max	77.00	86.00	100.00	181.60	258.50	384.60	566.40	517.80	305.00	276.50	66.00	59.00	566.40	CMS
Min	12.00	24.00	0.00	20.80	179.20	186.40	290.00	320.80	175.60	49.00	9.60	16.80	0.00	CMS
Runoff	97.51	142.84	107.67	180.61	547.09	747.98	1179.90	1145.08	638.26	381.31	84.69	99.95	5352.89	MCM

Momentary Peak 570.00 CMS. at 4.30 m. (MSL.) at 19.00 Hours , on Oct 15 , 2014

Runoff Yield 25.35 Liters/Second/Square KM. Momentary Peak Yield 85.113 Liters/Second/Square KM.

WATER YEAR : 2014

TAPI RIVER BASIN

Khlong Trom at Ban Trom , Surat Thani (X.259)

Lat 08 - 32 - 24 N Long 99 - 05 - 58 E

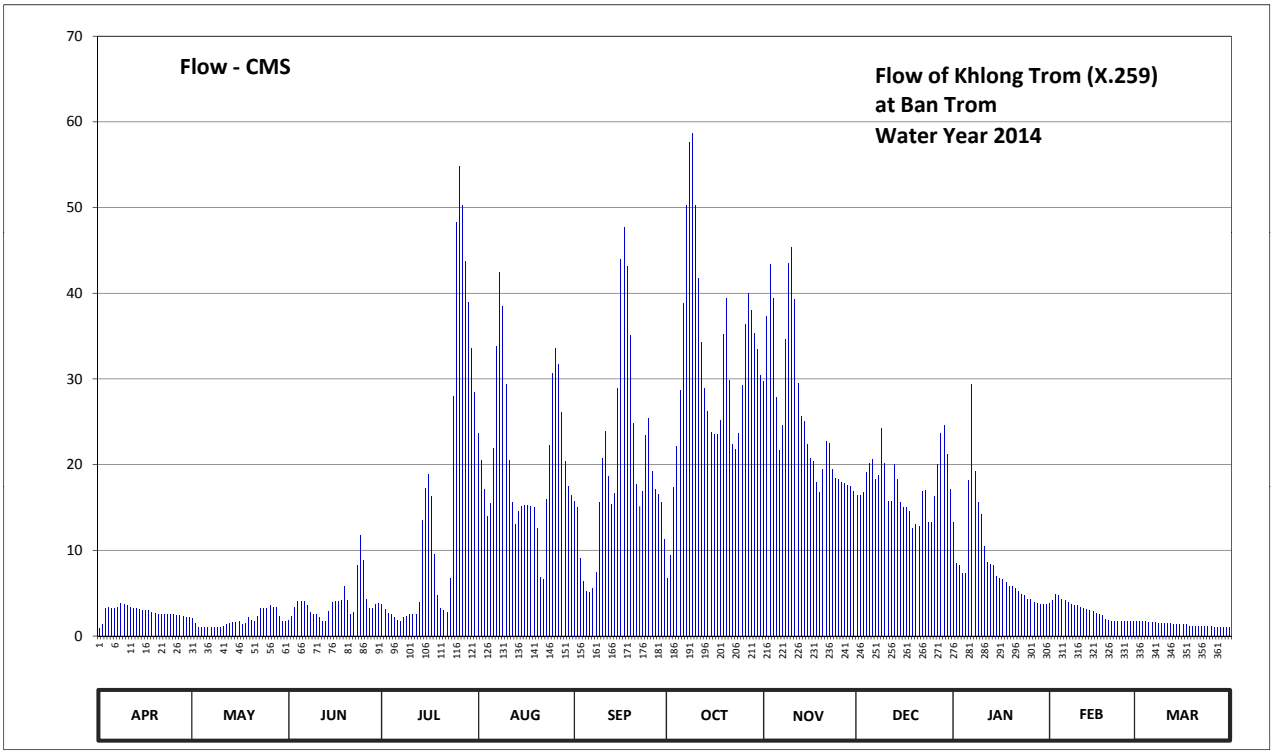
Location : on right bank at Ban Trom.

	Ban Trom	**Amphoe** Chai Buri	**Changwat** Surat Thani
Drainge Area	818 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank downstream at the footpath		**Elevation** +62.353 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.36	53.54	53.51	53.75	56.23	54.70	53.98	56.87	54.89	54.33	53.77	53.50	
2	53.45	53.46	53.57	53.68	55.74	54.40	54.16	57.63	54.89	54.10	53.81	53.50	
3	53.70	53.40	53.71	53.62	55.07	54.14	55.13	58.15	55.00	54.08	53.86	53.49	
4	53.71	53.40	53.80	53.60	54.36	53.96	55.99	57.83	55.51	54.02	53.85	53.49	
5	53.70	53.40	53.80	53.56	54.59	53.88	56.77	56.69	55.68	54.02	53.82	53.48	
6	53.70	53.40	53.80	53.51	55.95	53.87	57.78	55.91	55.76	55.33	53.81	53.48	
7	53.71	53.40	53.74	53.50	57.28	53.90	58.70	56.35	55.36	56.84	53.79	53.48	
8	53.78	53.40	53.63	53.56	58.07	54.03	59.21	57.36	55.44	55.52	53.76	53.47	
9	53.76	53.40	53.60	53.57	57.75	54.65	59.28	58.16	56.30	54.64	53.74	53.47	
10	53.74	53.40	53.60	53.60	56.84	55.77	58.70	58.31	55.68	54.37	53.74	53.47	
11	53.71	53.42	53.56	53.60	55.73	56.25	58.02	57.82	54.69	54.22	53.71	53.46	
12	53.70	53.44	53.50	53.61	54.63	55.43	57.33	56.85	54.69	54.11	53.69	53.46	
13	53.70	53.46	53.50	53.79	54.32	54.56	56.79	56.46	55.65	54.09	53.68	53.45	
14	53.68	53.48	53.65	54.34	54.38	54.96	56.52	56.41	55.36	54.08	53.66	53.44	
15	53.67	53.48	53.79	55.11	54.45	56.79	56.24	56.03	54.65	54.00	53.65	53.44	
16	53.66	53.49	53.80	55.47	54.48	58.20	56.20	55.78	54.40	53.98	53.62	53.44	
17	53.66	53.45	53.80	54.88	54.48	58.49	56.20	55.71	54.40	53.97	53.61	53.44	
18	53.64	53.46	53.81	54.17	54.45	58.13	56.42	55.28	54.38	53.95	53.58	53.42	
19	53.62	53.55	53.92	53.85	54.40	57.41	57.42	54.98	54.30	53.92	53.53	53.42	
20	53.60	53.51	53.81	53.69	54.30	56.38	57.83	55.55	54.32	53.92	53.51	53.42	
21	53.60	53.49	53.60	53.67	53.99	55.22	56.89	56.08	54.31	53.90	53.50	53.41	
22	53.60	53.57	53.64	53.64	53.97	54.46	56.03	56.05	55.02	53.88	53.50	53.41	
23	53.60	53.70	54.08	53.98	54.79	55.01	55.93	55.57	55.04	53.86	53.50	53.41	
24	53.60	53.69	54.27	56.70	56.01	56.19	56.23	55.38	54.33	53.85	53.50	53.41	
25	53.60	53.70	54.12	58.54	56.96	56.44	56.83	55.35	54.33	53.82	53.50	53.41	
26	53.59	53.74	53.82	59.02	57.26	55.52	57.54	55.28	54.86	53.82	53.50	53.40	
27	53.58	53.71	53.70	58.70	57.07	55.07	57.88	55.25	55.65	53.79	53.50	53.40	
28	53.57	53.71	53.70	58.18	56.51	54.93	57.70	55.19	56.23	53.78	53.50	53.40	
29	53.56	53.57	53.75	57.79	55.71	54.64	57.43	55.17	56.34	53.76		53.40	
30	53.55	53.50	53.78	57.26	55.15	54.25	57.24	55.01	55.84	53.76		53.40	
31		53.49		56.74	54.90		56.94		55.08	53.75		53.40	
Mean	53.64	53.51	53.75	54.93	55.48	55.39	56.95	56.28	55.11	54.18	53.65	53.44	
Max	53.78	53.74	54.27	59.02	58.07	58.49	59.28	58.31	56.34	56.84	53.86	53.50	59.28
Min	53.36	53.40	53.50	53.50	53.97	53.87	53.98	54.98	54.30	53.75	53.50	53.40	53.36

Annual Max Momentary Gage Height	59.36	m. (MSL.) ,	at 02.00 Hours , on Oct 9 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	52.89	m. (MSL.)
Left Bank Elevation	62.07	m. (MSL.) ,			
Right Bank Elevation	62.03	m. (MSL.) ,	Drainage Area	818	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.88	2.05	1.82	3.63	23.72	15.75	6.70	29.70	16.36	13.25	3.78	1.75		
2	1.37	1.45	2.27	3.10	20.54	15.00	9.40	37.30	16.36	8.50	4.15	1.75		
3	3.25	1.00	3.32	2.65	17.08	9.10	17.32	43.38	16.80	8.20	4.90	1.68		
4	3.32	1.00	4.00	2.50	14.00	6.40	22.14	39.38	19.16	7.30	4.75	1.68		
5	3.25	1.00	4.00	2.20	15.47	5.20	28.70	27.90	20.18	7.30	4.30	1.60		
6	3.25	1.00	4.00	1.82	21.88	5.05	38.80	21.62	20.66	18.19	4.15	1.60		
7	3.32	1.00	3.55	1.75	33.80	5.50	50.25	24.62	18.32	29.40	3.93	1.60		
8	3.85	1.00	2.73	2.20	42.38	7.45	57.65	34.60	18.74	19.22	3.70	1.53		
9	3.70	1.00	2.50	2.27	38.50	15.63	58.70	43.50	24.25	15.60	3.55	1.53		
10	3.55	1.00	2.50	2.50	29.40	20.72	50.25	45.38	20.18	14.25	3.55	1.53		
11	3.32	1.15	2.20	2.50	20.48	23.87	41.75	39.25	15.72	10.50	3.32	1.45		
12	3.25	1.30	1.75	2.58	15.58	18.68	34.30	29.50	15.72	8.65	3.17	1.45		
13	3.25	1.45	1.75	3.93	13.00	15.40	28.90	25.60	20.00	8.35	3.10	1.37		
14	3.10	1.60	2.88	13.50	14.50	16.64	26.20	25.10	18.32	8.20	2.95	1.30		
15	3.02	1.60	3.93	17.24	15.12	28.90	23.80	22.39	15.63	7.00	2.88	1.30		
16	2.95	1.68	4.00	18.92	15.20	44.00	23.50	20.78	15.00	6.70	2.65	1.30		
17	2.95	1.37	4.00	16.32	15.20	47.63	23.50	20.36	15.00	6.55	2.58	1.30		
18	2.80	1.45	4.15	9.55	15.12	43.13	25.20	17.96	14.50	6.25	2.35	1.15		
19	2.65	2.12	5.80	4.75	15.00	35.10	35.20	16.72	12.50	5.80	1.97	1.15		
20	2.50	1.82	4.15	3.17	12.50	24.85	39.38	19.40	13.00	5.80	1.82	1.15		
21	2.50	1.68	2.50	3.02	6.85	17.69	29.90	22.72	12.75	5.50	1.75	1.07		
22	2.50	2.27	2.80	2.80	6.55	15.15	22.39	22.52	16.88	5.20	1.75	1.07		
23	2.50	3.25	8.20	6.70	15.98	16.84	21.75	19.52	16.96	4.90	1.75	1.07		
24	2.50	3.17	11.75	28.00	22.26	23.43	23.72	18.41	13.25	4.75	1.75	1.07		
25	2.50	3.25	8.80	48.25	30.60	25.40	29.30	18.27	13.25	4.30	1.75	1.07		
26	2.42	3.55	4.30	54.80	33.60	19.22	36.40	17.96	16.24	4.30	1.75	1.00		
27	2.35	3.32	3.25	50.25	31.70	17.08	40.00	17.82	20.00	3.93	1.75	1.00		
28	2.27	3.32	3.25	43.75	26.10	16.52	38.00	17.56	23.72	3.85	1.75	1.00		
29	2.20	2.27	3.63	38.90	20.36	15.60	35.30	17.48	24.55	3.70		1.00		
30	2.12	1.75	3.85	33.60	17.40	11.25	33.40	16.84	21.16	3.70		1.00		
31		1.68		28.40	16.40		30.40		17.12	3.63		1.00		
Total	83.39	56.55	117.63	455.55	636.27	582.18	982.20	773.54	542.28	262.77	81.55	40.52	4614.43	CMSDAY
Mean	2.78	1.82	3.92	14.70	20.52	19.41	31.68	25.78	17.49	8.48	2.91	1.31	12.64	CMS
Max	3.85	3.55	11.75	54.80	42.38	47.63	58.70	45.38	24.55	29.40	4.90	1.75	58.70	CMS
Min	0.88	1.00	1.75	1.75	6.55	5.05	6.70	16.72	12.50	3.63	1.75	1.00	0.88	CMS
Runoff	7.21	4.89	10.16	39.36	54.97	50.30	84.86	66.83	46.85	22.70	7.05	3.50	398.69	MCM

Momentary Peak 59.90 CMS. at 59.36 m. (MSL.) at 02.00 Hours , on Oct 9 , 2014

Runoff Yield 15.46 Liters/Second/Square KM. Momentary Peak Yield 73.227 Liters/Second/Square KM.

WATER YEAR : 2014

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	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.		**Elevation** +13.658 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

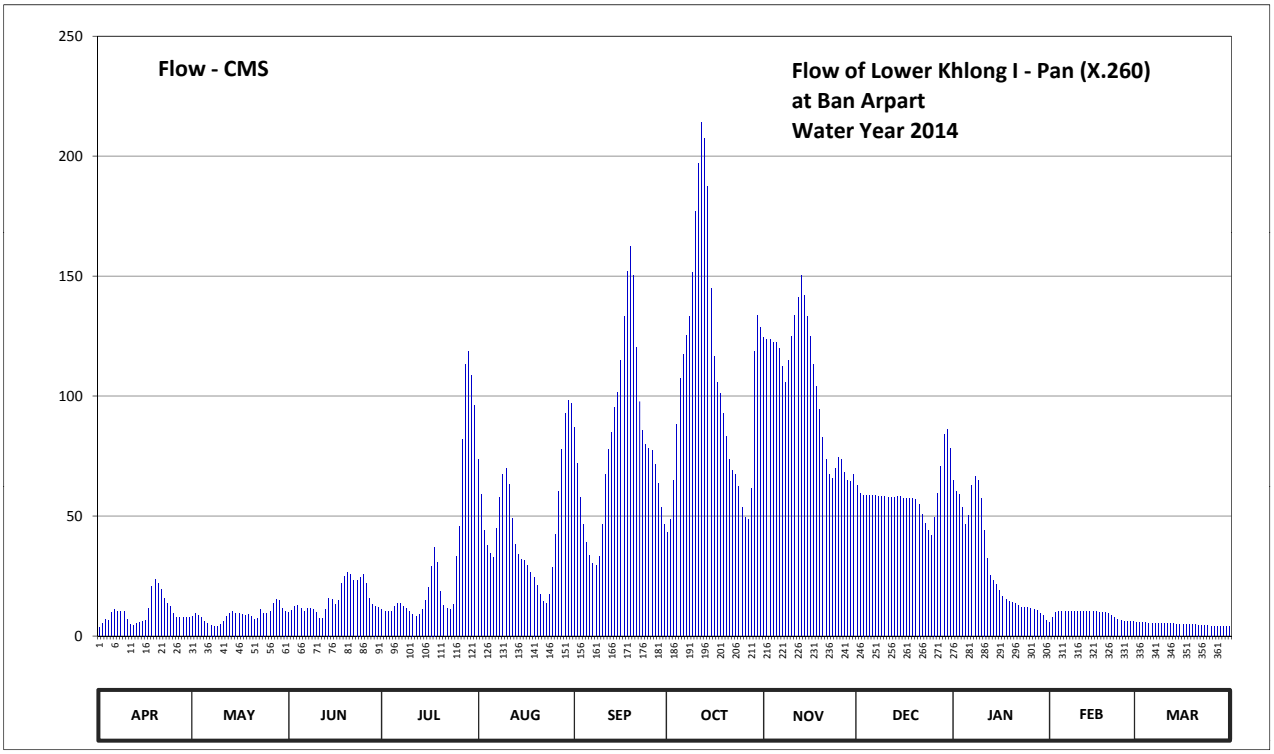
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.50	5.97	6.13	6.24	9.44	9.83	8.24	10.70	9.05	9.12	5.75	5.74	
2	5.71	6.09	6.20	6.17	8.90	9.38	8.47	10.68	8.91	8.95	5.92	5.73	
3	5.84	6.00	6.35	6.16	8.27	8.85	9.12	10.68	8.89	8.90	6.12	5.73	
4	5.80	5.94	6.39	6.17	7.97	8.38	9.86	10.66	8.88	8.69	6.16	5.72	
5	6.12	5.78	6.27	6.33	7.80	8.04	10.34	10.66	8.89	8.38	6.17	5.71	
6	6.24	5.69	6.15	6.43	7.71	7.74	10.56	10.61	8.88	8.55	6.17	5.71	
7	6.14	5.63	6.27	6.43	8.30	7.57	10.72	10.45	8.88	9.04	6.16	5.70	
8	6.16	5.59	6.26	6.35	8.85	7.52	10.87	10.30	8.87	9.18	6.16	5.70	
9	6.17	5.56	6.25	6.27	9.22	7.73	11.19	10.50	8.86	9.13	6.16	5.70	
10	5.85	5.66	6.12	6.16	9.31	8.39	11.56	10.71	8.86	8.83	6.16	5.70	
11	5.65	5.77	5.90	6.06	9.07	9.22	11.79	10.88	8.85	8.28	6.15	5.69	
12	5.62	5.97	5.89	5.98	8.50	9.57	11.94	11.02	8.85	7.68	6.15	5.69	
13	5.68	6.10	6.24	6.03	7.99	9.77	11.88	11.17	8.85	7.27	6.14	5.68	
14	5.75	6.15	6.63	6.22	7.77	10.04	11.68	11.03	8.86	7.14	6.14	5.67	
15	5.78	6.10	6.57	6.53	7.65	10.20	11.08	10.87	8.86	7.02	6.14	5.67	
16	5.83	6.08	6.40	6.94	7.63	10.50	10.54	10.71	8.84	6.85	6.14	5.66	
17	6.28	6.06	6.54	7.51	7.52	10.87	10.30	10.47	8.84	6.67	6.13	5.65	
18	6.96	6.02	7.06	7.94	7.35	11.20	10.19	10.26	8.84	6.57	6.12	5.65	
19	7.16	6.04	7.24	7.59	7.23	11.36	9.98	10.02	8.83	6.51	6.11	5.64	
20	7.06	5.98	7.35	6.84	7.00	11.17	9.72	9.71	8.82	6.48	6.09	5.64	
21	6.88	5.84	7.31	6.39	6.73	10.62	9.43	9.43	8.74	6.44	6.02	5.63	
22	6.62	5.90	7.13	6.28	6.50	10.10	9.28	9.22	8.56	6.38	5.93	5.62	
23	6.44	6.23	7.15	6.22	6.44	9.79	9.22	9.16	8.41	6.31	5.86	5.61	
24	6.36	6.10	7.23	6.41	6.75	9.63	9.03	9.30	8.27	6.30	5.83	5.60	
25	6.08	6.08	7.29	7.72	7.47	9.58	8.69	9.46	8.18	6.29	5.79	5.59	
26	5.94	6.16	7.06	8.34	8.20	9.55	8.51	9.44	8.52	6.27	5.77	5.58	
27	5.94	6.44	6.62	9.69	8.95	9.37	8.47	9.25	8.91	6.25	5.77	5.58	
28	5.94	6.58	6.42	10.47	9.57	9.08	9.00	9.12	9.34	6.19	5.76	5.57	
29	5.94	6.55	6.36	10.58	9.98	8.69	10.58	9.10	9.74	6.10		5.57	
30	5.93	6.28	6.30	10.37	10.11	8.38	10.88	9.22	9.80	5.99		5.57	
31		6.18		10.06	10.08		10.78		9.58	5.83		5.56	
Mean	6.11	6.02	6.57	7.19	8.20	9.40	10.13	10.16	8.89	7.34	6.03	5.65	
Max	7.16	6.58	7.35	10.58	10.11	11.36	11.94	11.17	9.80	9.18	6.17	5.74	11.94
Min	5.50	5.56	5.89	5.98	6.44	7.52	8.24	9.10	8.18	5.83	5.75	5.56	5.50

Annual Max Momentary Gage Height 11.95 m. (MSL.) , at 07.00 Hours , on Oct 12 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.92 m. (MSL.)

Left Bank Elevation 13.60 m. (MSL.) ,

Right Bank Elevation 13.61 m. (MSL.) , Drainage Area 2076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	8.17	9.93	11.16	73.80	87.17	43.36	124.50	62.88	64.80	5.80	5.70		
2	5.40	9.49	10.70	10.37	59.00	71.95	48.45	123.50	59.25	60.25	7.62	5.60		
3	6.74	8.50	12.42	10.26	44.01	57.75	64.80	123.50	58.75	59.00	9.82	5.60		
4	6.30	7.84	12.88	10.37	37.73	46.37	88.34	122.50	58.50	53.75	10.26	5.50		
5	9.82	6.10	11.51	12.19	34.50	39.14	107.51	122.50	58.75	46.37	10.37	5.40		
6	11.16	5.20	10.15	13.37	32.84	33.39	117.60	120.00	58.50	50.33	10.37	5.40		
7	10.04	4.60	11.51	13.37	44.65	30.26	125.50	112.37	58.50	62.60	10.26	5.30		
8	10.26	4.21	11.39	12.42	57.75	29.36	133.19	105.85	58.25	66.45	10.26	5.30		
9	10.37	3.94	11.28	11.51	67.55	33.20	151.40	114.75	58.00	65.08	10.26	5.30		
10	6.85	4.90	9.82	10.26	70.03	46.59	177.04	125.00	58.00	57.25	10.26	5.30		
11	4.80	6.00	7.40	9.16	63.42	67.55	197.10	133.72	57.75	44.22	10.15	5.20		
12	4.50	8.17	7.29	8.28	49.15	78.02	214.10	141.25	57.75	32.28	10.15	5.20		
13	5.10	9.60	11.16	8.83	38.11	84.95	207.20	150.21	57.75	25.19	10.04	5.10		
14	5.80	10.15	15.89	10.93	33.94	95.38	187.23	141.84	58.00	23.20	10.04	5.00		
15	6.10	9.60	15.13	14.63	31.73	101.70	144.83	133.19	58.00	21.40	10.04	5.00		
16	6.63	9.38	13.00	20.20	31.36	114.75	116.65	125.00	57.50	18.85	10.04	4.90		
17	11.62	9.16	14.75	29.18	29.36	133.19	105.85	113.33	57.50	16.41	9.93	4.80		
18	20.50	8.72	22.00	37.16	26.42	152.00	101.30	104.19	57.50	15.13	9.82	4.80		
19	23.50	8.94	24.72	30.62	24.57	162.40	93.02	94.59	57.25	14.38	9.71	4.70		
20	22.00	8.28	26.42	18.70	21.10	150.21	83.20	82.85	57.00	14.00	9.49	4.70		
21	19.30	6.74	25.80	12.88	17.19	120.50	73.48	73.48	55.00	13.50	8.72	4.60		
22	15.76	7.40	23.05	11.62	14.25	97.75	69.20	67.55	50.56	12.77	7.73	4.50		
23	13.50	11.05	23.35	10.93	13.50	85.65	67.55	65.90	47.04	11.97	6.96	4.40		
24	12.54	9.60	24.57	13.12	17.45	80.05	62.32	69.75	44.01	11.85	6.63	4.30		
25	9.38	9.38	25.50	33.02	28.46	78.35	53.75	74.45	42.08	11.74	6.20	4.21		
26	7.84	10.26	22.00	45.51	42.50	77.37	49.39	73.80	49.62	11.51	6.00	4.12		
27	7.84	13.50	15.76	82.15	60.25	71.68	48.45	68.38	59.25	11.28	6.00	4.12		
28	7.84	15.25	13.25	113.33	78.02	63.70	61.50	64.80	70.85	10.59	5.90	4.03		
29	7.84	14.88	12.54	118.55	93.02	53.75	118.55	64.25	83.90	9.60		4.03		
30	7.73	11.62	11.85	108.76	98.14	46.37	133.72	67.55	86.00	8.39		4.03		
31		10.48		96.17	96.96		128.50		78.35	6.63		3.94		
Total	300.46	271.11	467.02	949.01	1430.76	2390.50	3374.08	3104.55	1832.04	930.77	248.83	150.08	15449.21	CMSDAY
Mean	10.02	8.75	15.57	30.61	46.15	79.68	108.84	103.49	59.10	30.02	8.89	4.84	42.33	CMS
Max	23.50	15.25	26.42	118.55	98.14	162.40	214.10	150.21	86.00	66.45	10.37	5.70	214.10	CMS
Min	3.40	3.94	7.29	8.28	13.50	29.36	43.36	64.25	42.08	6.63	5.80	3.94	3.40	CMS
Runoff	25.96	23.42	40.35	81.99	123.62	206.54	291.52	268.23	158.29	80.42	21.50	12.97	1334.81	MCM

Momentary Peak 215.25 CMS. at 11.95 m. (MSL.) at 07.00 Hours , on Oct 12 , 2014

Runoff Yield 20.39 Liters/Second/Square KM. Momentary Peak Yield 103.685 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Hat Yai Nai , Songkhla (X.44)

Lat 07 - 00 - 02 N Long 100 - 27 - 32 E

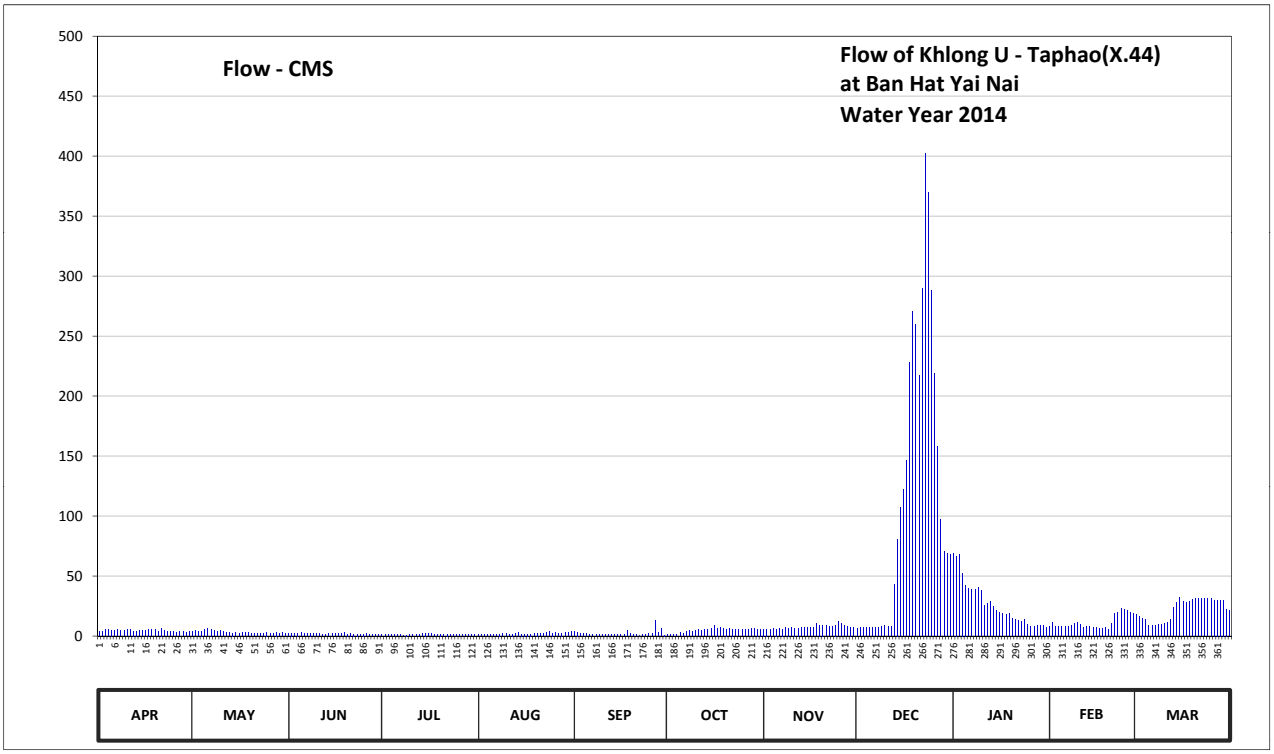
Location : on left bank at the bridge of Hat Yai - Rattaphum Highway.

	Ban Hat Yai Nai	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge Area	1,720 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 200 meters from the top staff gage.	**Elevation**	+7.341 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 - 1988 , 1999 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1972 , 1983 - 1988 , 1999 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.14	-0.01	-0.10	-0.14	0.13	-0.14	0.26	0.30	1.65	0.40	0.68	
2	0.13	0.16	0.03	-0.10	-0.09	0.09	-0.08	0.26	0.32	1.61	0.51	0.65	
3	0.23	0.14	0.01	-0.10	-0.09	0.01	-0.08	0.26	0.35	1.63	0.41	0.62	
4	0.21	0.15	0.03	-0.10	-0.11	-0.01	-0.08	0.27	0.33	1.37	0.39	0.59	
5	0.20	0.24	0.07	-0.09	-0.10	-0.04	0.07	0.26	0.32	1.17	0.41	0.42	
6	0.19	0.30	0.01	-0.09	-0.12	-0.15	0.02	0.27	0.32	1.11	0.39	0.42	
7	0.23	0.26	-0.01	-0.19	-0.18	-0.13	0.11	0.26	0.33	1.10	0.39	0.43	
8	0.17	0.18	0.03	-0.25	-0.07	-0.20	0.18	0.34	0.36	1.10	0.42	0.45	
9	0.16	0.11	-0.01	-0.21	0.00	-0.15	0.13	0.31	0.39	1.13	0.47	0.46	
10	0.25	0.16	-0.04	-0.13	0.01	-0.14	0.17	0.33	0.42	1.08	0.50	0.49	
11	0.23	0.10	-0.04	-0.14	-0.08	-0.14	0.21	0.31	0.41	0.83	0.46	0.52	
12	0.15	0.05	-0.08	-0.13	-0.05	-0.15	0.18	0.31	0.39	0.86	0.37	0.60	
13	0.15	0.04	-0.16	-0.10	-0.02	-0.14	0.21	0.34	1.18	0.89	0.38	0.79	
14	0.17	0.03	-0.02	-0.03	0.04	-0.18	0.24	0.35	1.85	0.81	0.41	0.88	
15	0.16	0.05	0.01	0.03	-0.05	-0.19	0.29	0.36	2.28	0.75	0.35	0.96	
16	0.19	0.02	-0.02	-0.01	-0.05	-0.19	0.43	0.35	2.53	0.71	0.32	0.89	
17	0.26	0.05	0.01	-0.01	-0.07	-0.16	0.31	0.34	2.90	0.70	0.31	0.88	
18	0.24	0.05	0.02	-0.09	-0.05	0.16	0.33	0.47	3.90	0.68	0.29	0.89	
19	0.24	0.08	0.04	-0.10	0.01	0.02	0.29	0.44	4.33	0.70	0.33	0.93	
20	0.13	0.02	-0.05	-0.05	0.03	-0.15	0.26	0.44	4.22	0.61	0.25	0.95	
21	0.31	-0.03	0.03	-0.10	-0.01	-0.16	0.27	0.43	3.78	0.59	0.47	0.94	
22	0.17	-0.02	-0.06	-0.07	-0.01	-0.19	0.26	0.41	4.51	0.56	0.69	0.95	
23	0.11	-0.02	-0.06	-0.19	0.04	-0.13	0.23	0.41	5.35	0.53	0.71	0.95	
24	0.12	-0.02	-0.16	-0.13	0.10	-0.11	0.23	0.44	5.13	0.59	0.78	0.95	
25	0.11	0.09	-0.06	-0.11	0.03	0.01	0.23	0.54	4.49	0.45	0.76	0.95	
26	0.06	0.01	-0.04	-0.13	0.04	0.02	0.24	0.48	3.80	0.39	0.74	0.92	
27	0.11	-0.04	-0.08	-0.10	0.00	0.57	0.24	0.43	3.07	0.38	0.72	0.92	
28	0.11	0.09	-0.13	-0.14	0.03	0.06	0.27	0.38	2.12	0.42	0.70	0.92	
29	0.08	0.02	-0.20	-0.11	0.05	0.27	0.27	0.37	1.68	0.44		0.92	
30	0.13	0.05	-0.18	-0.08	0.04	-0.22	0.26	0.33	1.65	0.42		0.77	
31		0.01		-0.13	0.10		0.26		1.63	0.37		0.75	
Mean	0.17	0.08	-0.04	-0.11	-0.02	-0.05	0.19	0.36	2.09	0.83	0.48	0.76	
Max	0.31	0.30	0.07	0.03	0.10	0.57	0.43	0.54	5.35	1.65	0.78	0.96	5.35
Min	0.06	-0.04	-0.20	-0.25	-0.18	-0.22	-0.14	0.26	0.30	0.37	0.25	0.42	-0.25

Annual Max Momentary Gage Height	5.42	m. (MSL.) ,	at 15.00 Hours , on Dec 23 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.49	m. (MSL.)
Left Bank Elevation	8.93	m. (MSL.) ,			
Right Bank Elevation	8.94	m. (MSL.) ,	Drainage Area	1720	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.10	4.10	1.95	1.50	1.30	3.95	1.30	5.90	6.50	69.00	8.00	18.00		
2	3.95	4.40	2.45	1.50	1.55	3.35	1.60	5.90	6.80	66.60	11.30	16.50		
3	5.45	4.10	2.15	1.50	1.55	2.15	1.60	5.90	7.25	67.80	8.30	15.00		
4	5.15	4.25	2.45	1.50	1.45	1.95	1.60	6.05	6.95	52.50	7.85	13.70		
5	5.00	5.60	3.05	1.55	1.50	1.80	3.05	5.90	6.80	42.50	8.30	8.60		
6	4.85	6.50	2.15	1.55	1.40	1.25	2.30	6.05	6.80	39.50	7.85	8.60		
7	5.45	5.90	1.95	1.05	1.10	1.35	3.65	5.90	6.95	39.00	7.85	8.90		
8	4.55	4.70	2.45	0.75	1.65	1.00	4.70	7.10	7.40	39.00	8.60	9.50		
9	4.40	3.65	1.95	0.95	2.00	1.25	3.95	6.65	7.85	40.50	10.10	9.80		
10	5.75	4.40	1.80	1.35	2.15	1.30	4.55	6.95	8.60	38.00	11.00	10.70		
11	5.45	3.50	1.80	1.30	1.60	1.30	5.15	6.65	8.30	25.50	9.80	11.60		
12	4.25	2.75	1.60	1.35	1.75	1.25	4.70	6.65	7.85	27.00	7.55	14.00		
13	4.25	2.60	1.20	1.50	1.90	1.30	5.15	7.10	43.00	28.50	7.70	23.50		
14	4.55	2.45	1.90	1.85	2.60	1.10	5.60	7.25	81.00	24.50	8.30	28.00		
15	4.40	2.75	2.15	2.45	1.75	1.05	6.35	7.40	106.80	21.50	7.25	32.00		
16	4.85	2.30	1.90	1.95	1.75	1.05	8.90	7.25	122.45	19.50	6.80	28.50		
17	5.90	2.75	2.15	1.95	1.65	1.20	6.65	7.10	146.50	19.00	6.65	28.00		
18	5.60	2.75	2.30	1.55	1.75	4.40	6.95	10.10	228.50	18.00	6.35	28.50		
19	5.60	3.20	2.60	1.50	2.15	2.30	6.35	9.20	271.00	19.00	6.95	30.50		
20	3.95	2.30	1.75	1.75	2.45	1.25	5.90	9.20	260.00	14.50	5.75	31.50		
21	6.65	1.85	2.45	1.50	1.95	1.20	6.05	8.90	217.10	13.70	10.10	31.00		
22	4.55	1.90	1.70	1.65	1.95	1.05	5.90	8.30	290.10	12.80	18.50	31.50		
23	3.65	1.90	1.70	1.05	2.60	1.35	5.45	8.30	402.50	11.90	19.50	31.50		
24	3.80	1.90	1.20	1.35	3.50	1.45	5.45	9.20	369.85	13.70	23.00	31.50		
25	3.65	3.35	1.70	1.45	2.45	2.15	5.45	12.20	287.90	9.50	22.00	31.50		
26	2.90	2.15	1.80	1.35	2.60	2.30	5.60	10.40	219.00	7.85	21.00	30.00		
27	3.65	1.80	1.60	1.50	2.00	13.10	5.60	8.90	158.25	7.70	20.00	30.00		
28	3.65	3.35	1.35	1.30	2.45	2.90	6.05	7.70	97.20	8.60	19.00	30.00		
29	3.20	2.30	1.00	1.45	2.75	6.05	6.05	7.55	70.80	9.20		30.00		
30	3.95	2.75	1.10	1.60	2.60	0.90	5.90	6.95	69.00	8.60		22.50		
31		2.15		1.35	3.50		5.90		67.80	7.55		21.50		
Total	137.10	100.35	57.30	45.90	63.35	68.00	153.40	228.60	3596.80	822.50	315.35	696.40	6285.05	CMSDAY
Mean	4.57	3.24	1.91	1.48	2.04	2.27	4.95	7.62	116.03	26.53	11.26	22.46	17.22	CMS
Max	6.65	6.50	3.05	2.45	3.50	13.10	8.90	12.20	402.50	69.00	23.00	32.00	402.50	CMS
Min	2.90	1.80	1.00	0.75	1.10	0.90	1.30	5.90	6.50	7.55	5.75	8.60	0.75	CMS
Runoff	11.85	8.67	4.95	3.97	5.47	5.88	13.25	19.75	310.76	71.06	27.25	60.17	543.03	MCM

Momentary Peak 413.00 CMS. at 5.42 m. (MSL.) at 15.00 Hours , on Dec 23, 2014

Runoff Yield 10.01 Liters/Second/Square KM. Momentary Peak Yield 240.116 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

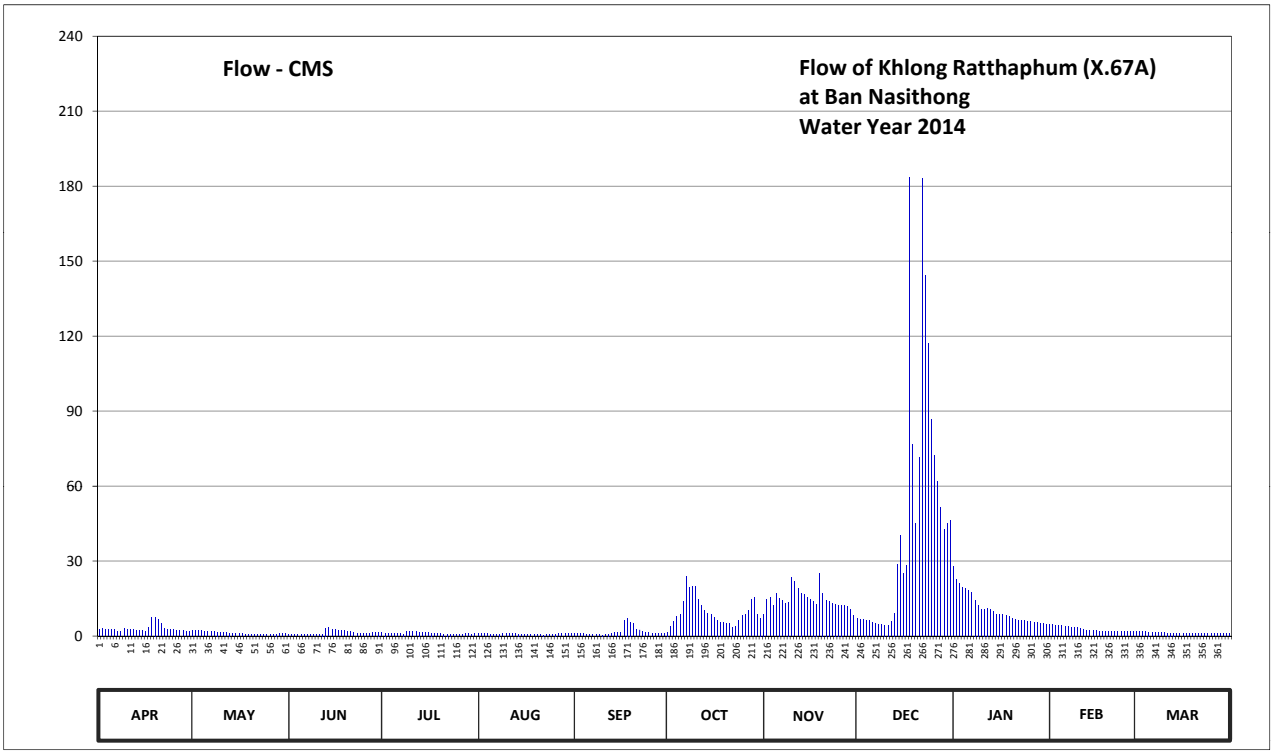
Location : on right bank at Ban Nasithong.

	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 mean of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.06	-0.09	-0.25	-0.17	-0.20	-0.20	-0.14	0.33	0.24	1.18	0.10	-0.12	
2	-0.03	-0.07	-0.25	-0.18	-0.21	-0.20	0.05	0.62	0.23	0.98	0.09	-0.12	
3	-0.04	-0.08	-0.25	-0.19	-0.22	-0.22	0.17	0.66	0.22	0.91	0.08	-0.13	
4	-0.05	-0.09	-0.25	-0.20	-0.23	-0.23	0.28	0.50	0.21	0.84	0.07	-0.13	
5	-0.06	-0.10	-0.25	-0.21	-0.24	-0.25	0.32	0.73	0.20	0.82	0.06	-0.14	
6	-0.05	-0.11	-0.26	-0.22	-0.25	-0.27	0.58	0.65	0.16	0.78	0.05	-0.15	
7	-0.10	-0.12	-0.27	-0.23	-0.25	-0.28	1.03	0.60	0.12	0.75	0.04	-0.16	
8	-0.10	-0.13	-0.27	-0.24	-0.24	-0.30	0.84	0.55	0.09	0.61	0.03	-0.16	
9	-0.03	-0.14	-0.28	-0.10	-0.23	-0.30	0.86	0.57	0.10	0.51	0.02	-0.17	
10	-0.04	-0.15	-0.25	-0.11	-0.22	-0.31	0.86	1.01	0.08	0.42	0.01	-0.17	
11	-0.05	-0.16	-0.25	-0.12	-0.21	-0.25	0.62	0.94	0.08	0.43	-0.02	-0.18	
12	-0.06	-0.17	-0.24	-0.13	-0.22	-0.24	0.50	0.82	0.18	0.45	-0.04	-0.18	
13	-0.07	-0.18	0.00	-0.14	-0.23	-0.20	0.40	0.74	0.35	0.42	-0.09	-0.18	
14	-0.08	-0.19	0.02	-0.15	-0.24	-0.15	0.34	0.71	1.21	0.38	-0.09	-0.19	
15	-0.09	-0.20	-0.05	-0.16	-0.25	-0.14	0.32	0.66	1.62	0.33	-0.09	-0.19	
16	-0.10	-0.21	-0.06	-0.17	-0.26	-0.15	0.26	0.62	1.08	0.33	-0.09	-0.19	
17	0.02	-0.23	-0.07	-0.18	-0.27	0.20	0.21	0.59	1.20	0.32	-0.10	-0.20	
18	0.26	-0.25	-0.08	-0.20	-0.28	0.25	0.16	0.53	4.51	0.30	-0.10	-0.20	
19	0.27	-0.27	-0.09	-0.21	-0.29	0.16	0.15	1.07	2.63	0.28	-0.10	-0.20	
20	0.22	-0.27	-0.10	-0.22	-0.29	0.12	0.13	0.74	1.78	0.25	-0.10	-0.20	
21	0.12	-0.25	-0.13	-0.24	-0.30	-0.05	0.11	0.61	2.51	0.22	-0.11	-0.20	
22	-0.02	-0.26	-0.16	-0.24	-0.31	-0.06	0.03	0.59	4.50	0.20	-0.11	-0.21	
23	-0.06	-0.27	-0.19	-0.24	-0.25	-0.10	0.04	0.55	3.89	0.19	-0.11	-0.21	
24	-0.06	-0.27	-0.21	-0.25	-0.26	-0.15	0.20	0.53	3.43	0.19	-0.11	-0.22	
25	-0.06	-0.28	-0.22	-0.25	-0.25	-0.16	0.30	0.51	2.85	0.18	-0.12	-0.22	
26	-0.07	-0.25	-0.23	-0.25	-0.24	-0.20	0.33	0.51	2.52	0.17	-0.12	-0.22	
27	-0.08	-0.25	-0.20	-0.25	-0.22	-0.21	0.40	0.50	2.26	0.16	-0.12	-0.22	
28	-0.09	-0.24	-0.17	-0.22	-0.21	-0.22	0.62	0.48	1.97	0.14	-0.12	-0.23	
29	-0.10	-0.21	-0.16	-0.20	-0.21	-0.23	0.66	0.42	1.70	0.12		-0.23	
30	-0.10	-0.21	-0.14	-0.25	-0.20	-0.23	0.32	0.30	1.79	0.11		-0.23	
31		-0.20		-0.20	-0.20		0.25		1.82	0.10		-0.23	
Mean	-0.03	-0.19	-0.18	-0.20	-0.24	-0.15	0.36	0.62	1.47	0.42	-0.04	-0.19	
Max	0.27	-0.07	0.02	-0.10	-0.20	0.25	1.03	1.07	4.51	1.18	0.10	-0.12	4.51
Min	-0.10	-0.28	-0.28	-0.25	-0.31	-0.31	-0.14	0.30	0.08	0.10	-0.12	-0.23	-0.31

Annual Max Momentary Gage Height	4.96	m. (A.D.) ,	at 13.00 Hours , on Dec 22 , 2014			
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-1.27	m. (A.D.)	
Left Bank Elevation	6.28	m. (A.D.) ,				
Right Bank Elevation	6.29	m. (A.D.) ,	Drainage Area	248	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.48	2.12	0.75	1.30	1.00	1.00	1.60	8.80	7.00	27.70	4.70	1.80		
2	2.84	2.36	0.75	1.20	0.95	1.00	3.95	14.62	6.80	22.74	4.55	1.80		
3	2.72	2.24	0.75	1.10	0.90	0.90	5.75	15.46	6.60	21.13	4.40	1.70		
4	2.60	2.12	0.75	1.00	0.85	0.85	7.80	12.20	6.40	19.52	4.25	1.70		
5	2.48	2.00	0.75	0.95	0.80	0.75	8.60	16.99	6.20	19.06	4.10	1.60		
6	2.60	1.90	0.70	0.90	0.75	0.65	13.80	15.25	5.60	18.14	3.95	1.50		
7	2.00	1.80	0.65	0.85	0.75	0.60	23.95	14.20	5.00	17.45	3.80	1.40		
8	2.00	1.70	0.65	0.80	0.80	0.50	19.52	13.20	4.55	14.41	3.65	1.40		
9	2.84	1.60	0.60	2.00	0.85	0.50	19.98	13.60	4.70	12.40	3.50	1.30		
10	2.72	1.50	0.75	1.90	0.90	0.45	19.98	23.45	4.40	10.60	3.35	1.30		
11	2.60	1.40	0.75	1.80	0.95	0.75	14.62	21.82	4.40	10.80	2.96	1.20		
12	2.48	1.30	0.80	1.70	0.90	0.80	12.20	19.06	5.90	11.20	2.72	1.20		
13	2.36	1.20	3.20	1.60	0.85	1.00	10.20	17.22	9.20	10.60	2.12	1.20		
14	2.24	1.10	3.50	1.50	0.80	1.50	9.00	16.53	28.46	9.80	2.12	1.10		
15	2.12	1.00	2.60	1.40	0.75	1.60	8.60	15.46	40.10	8.80	2.12	1.10		
16	2.00	0.95	2.48	1.30	0.70	1.50	7.40	14.62	25.20	8.80	2.12	1.10		
17	3.50	0.85	2.36	1.20	0.65	6.20	6.40	14.00	28.20	8.60	2.00	1.00		
18	7.40	0.75	2.24	1.00	0.60	7.20	5.60	12.80	183.65	8.20	2.00	1.00		
19	7.60	0.65	2.12	0.95	0.55	5.60	5.45	24.95	76.85	7.80	2.00	1.00		
20	6.60	0.65	2.00	0.90	0.55	5.00	5.15	17.22	44.90	7.20	2.00	1.00		
21	5.00	0.75	1.70	0.80	0.50	2.60	4.85	14.41	71.72	6.60	1.90	1.00		
22	2.96	0.70	1.40	0.80	0.45	2.48	3.65	14.00	183.00	6.20	1.90	0.95		
23	2.48	0.65	1.10	0.80	0.75	2.00	3.80	13.20	144.19	6.05	1.90	0.95		
24	2.48	0.65	0.95	0.75	0.70	1.50	6.20	12.80	117.15	6.05	1.90	0.90		
25	2.48	0.60	0.90	0.75	0.75	1.40	8.20	12.40	86.85	5.90	1.80	0.90		
26	2.36	0.75	0.85	0.75	0.80	1.00	8.80	12.40	72.14	5.75	1.80	0.90		
27	2.24	0.75	1.00	0.75	0.90	0.95	10.20	12.20	61.72	5.60	1.80	0.90		
28	2.12	0.80	1.30	0.90	0.95	0.90	14.62	11.80	51.25	5.30	1.80	0.85		
29	2.00	0.95	1.40	1.00	0.95	0.85	15.46	10.60	42.50	5.00		0.85		
30	2.00	0.95	1.60	0.75	1.00	0.85	8.60	8.20	45.20	4.85		0.85		
31		1.00		1.00	1.00		7.20		46.16	4.70		0.85		
Total	90.30	37.74	41.35	34.40	24.60	52.88	301.13	443.46	1425.99	336.95	77.21	36.30	2902.31	CMSDAY
Mean	3.01	1.22	1.38	1.11	0.79	1.76	9.71	14.78	46.00	10.87	2.76	1.17	7.95	CMS
Max	7.60	2.36	3.50	2.00	1.00	7.20	23.95	24.95	183.65	27.70	4.70	1.80	183.65	CMS
Min	2.00	0.60	0.60	0.75	0.45	0.45	1.60	8.20	4.40	4.70	1.80	0.85	0.45	CMS
Runoff	7.80	3.26	3.57	2.97	2.13	4.57	26.02	38.32	123.21	29.11	6.67	3.14	250.76	MCM

Momentary Peak 213.74 CMS. at 4.96 m. (A.D.) at 13.00 Hours , on Dec 22 , 2014

Runoff Yield 32.06 Liters/Second/Square KM. Momentary Peak Yield 859.256 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Tha Khae at Ban Tha Khae , Phatthalung (X.68)

Lat 07 - 34 - 01 N Long 100 - 03 - 05 E

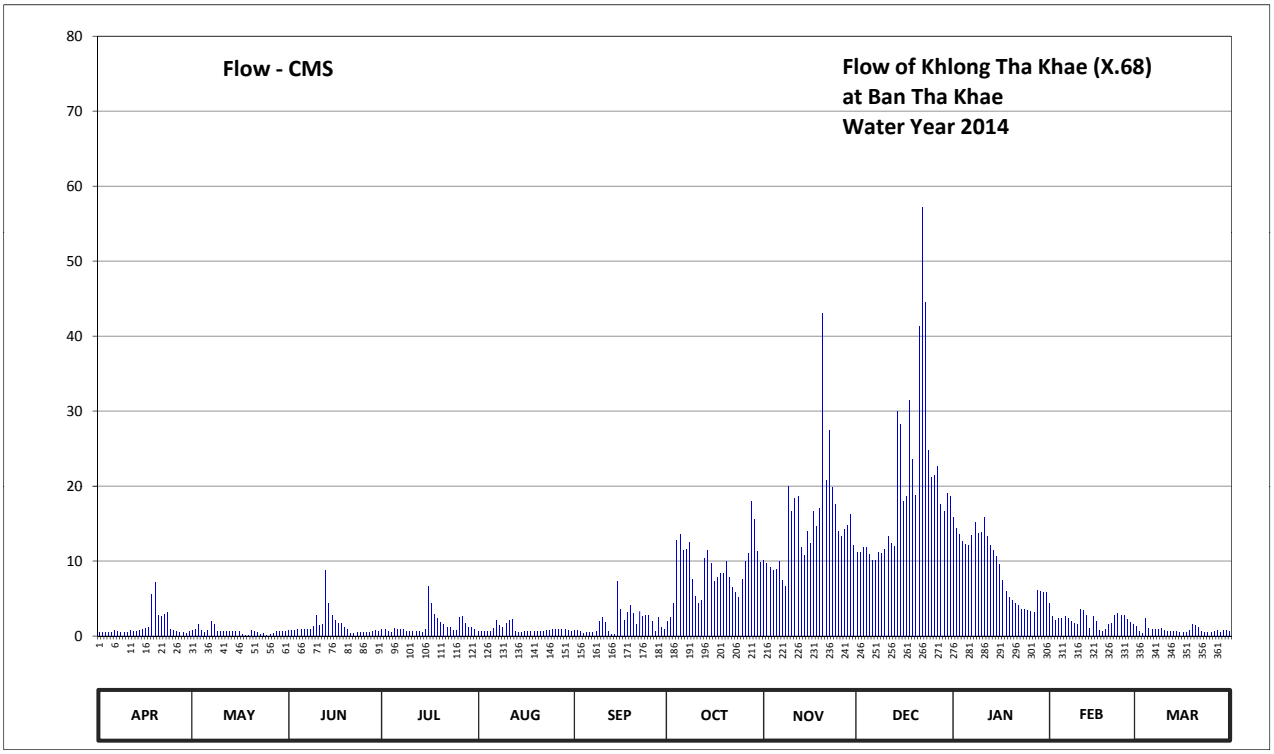
Location : on left bank downstream side of the bridge of Phatthalung - Hat Yai Highway.

	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 Flot	-		
Rated by Current Meter	1967 - 1972 , 1983 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Tha Khae Weir.		
	Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.59	12.66	12.64	12.67	12.61	12.64	12.79	13.44	13.51	13.79	13.04	12.73	
2	12.59	12.68	12.66	12.67	12.62	12.65	12.85	13.41	13.51	13.72	12.86	12.61	
3	12.57	12.76	12.66	12.63	12.61	12.61	13.03	13.38	13.55	13.67	12.81	12.55	
4	12.56	12.66	12.68	12.58	12.61	12.52	13.62	13.35	13.55	13.61	12.84	12.83	
5	12.59	12.60	12.68	12.69	12.62	12.57	13.67	13.36	13.49	13.58	12.83	12.69	
6	12.66	12.66	12.67	12.68	12.70	12.58	13.53	13.43	13.44	13.57	12.86	12.67	
7	12.63	12.79	12.67	12.67	12.81	12.60	13.54	13.26	13.44	13.66	12.84	12.68	
8	12.60	12.76	12.68	12.67	12.74	12.63	13.60	13.21	13.51	13.76	12.80	12.68	
9	12.59	12.61	12.73	12.63	12.72	12.79	13.27	14.00	13.50	13.68	12.77	12.69	
10	12.59	12.61	12.88	12.61	12.77	12.85	13.12	13.83	13.54	13.69	12.75	12.65	
11	12.64	12.61	12.74	12.61	12.81	12.78	13.03	13.92	13.65	13.79	12.95	12.63	
12	12.63	12.63	12.75	12.61	12.82	12.63	13.08	13.93	13.59	13.65	12.94	12.62	
13	12.62	12.63	13.35	12.61	12.61	12.48	13.46	13.55	13.56	13.57	12.88	12.62	
14	12.66	12.61	13.03	12.60	12.58	12.48	13.53	13.48	14.48	13.53	12.69	12.61	
15	12.68	12.61	12.87	12.67	12.60	13.25	13.41	13.70	14.41	13.47	12.86	12.59	
16	12.69	12.61	12.81	13.21	12.63	12.96	13.25	13.59	13.90	13.40	12.80	12.59	
17	12.72	12.45	12.77	13.03	12.61	12.81	13.29	13.83	13.93	13.26	12.65	12.59	
18	13.14	12.40	12.77	12.89	12.62	12.92	13.32	13.73	14.54	13.16	12.63	12.65	
19	13.24	12.40	12.71	12.83	12.63	13.01	13.32	13.85	14.18	13.11	12.67	12.75	
20	12.88	12.66	12.67	12.78	12.63	12.90	13.43	15.00	13.94	13.07	12.75	12.74	
21	12.86	12.63	12.50	12.76	12.63	12.75	13.29	14.04	14.93	13.03	12.77	12.71	
22	12.89	12.56	12.54	12.72	12.63	12.93	13.20	14.37	15.52	13.01	12.88	12.63	
23	12.92	12.44	12.57	12.71	12.66	12.86	13.15	13.99	15.06	12.96	12.90	12.57	
24	12.68	12.53	12.57	12.66	12.66	12.87	13.11	13.88	14.24	12.96	12.88	12.57	
25	12.65	12.42	12.57	12.66	12.67	12.88	13.27	13.70	14.06	12.94	12.87	12.59	
26	12.62	12.47	12.57	12.85	12.67	12.79	13.43	13.65	14.07	12.93	12.82	12.62	
27	12.59	12.50	12.59	12.86	12.67	12.61	13.50	13.71	14.13	12.91	12.78	12.66	
28	12.57	12.61	12.62	12.77	12.67	12.85	13.90	13.74	13.88	13.17	12.75	12.59	
29	12.55	12.61	12.64	12.71	12.67	12.72	13.78	13.81	13.83	13.16		12.65	
30	12.61	12.62	12.62	12.72	12.65	12.67	13.52	13.57	13.95	13.15		12.64	
31		12.61		12.67	12.63		13.42		13.93	13.15		12.61	
Mean	12.69	12.59	12.71	12.72	12.66	12.75	13.35	13.72	13.96	13.36	12.82	12.65	
Max	13.24	12.79	13.35	13.21	12.82	13.25	13.90	15.00	15.52	13.79	13.04	12.83	15.52
Min	12.55	12.40	12.50	12.58	12.58	12.48	12.79	13.21	13.44	12.91	12.63	12.55	12.40

Annual Max Momentary Gage Height	15.80	m. (MSL.) ,	at 20.00 Hours , on Dec 22 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	11.72	m. (MSL.)
Left Bank Elevation	18.34	m. (MSL.) ,			
Right Bank Elevation	18.58	m. (MSL.) ,	Drainage Area	302	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.48	0.80	0.70	0.85	0.55	0.70	1.90	10.10	11.15	15.80	4.40	1.30		
2	0.48	0.90	0.80	0.85	0.60	0.75	2.50	9.65	11.15	14.40	2.60	0.55		
3	0.44	1.60	0.80	0.65	0.55	0.55	4.30	9.20	11.75	13.55	2.10	0.40		
4	0.42	0.80	0.90	0.46	0.55	0.34	12.80	8.75	11.75	12.65	2.40	2.30		
5	0.48	0.50	0.90	0.95	0.60	0.44	13.55	8.90	10.85	12.20	2.30	0.95		
6	0.80	0.80	0.85	0.90	1.00	0.46	11.45	9.95	10.10	12.05	2.60	0.85		
7	0.65	1.90	0.85	0.85	2.10	0.50	11.60	7.40	10.10	13.40	2.40	0.90		
8	0.50	1.60	0.90	0.85	1.40	0.65	12.50	6.65	11.15	15.20	2.00	0.90		
9	0.48	0.55	1.30	0.65	1.20	1.90	7.55	20.00	11.00	13.70	1.70	0.95		
10	0.48	0.55	2.80	0.55	1.70	2.50	5.30	16.60	11.60	13.85	1.50	0.75		
11	0.70	0.55	1.40	0.55	2.10	1.80	4.30	18.40	13.25	15.80	3.50	0.65		
12	0.65	0.65	1.50	0.55	2.20	0.65	4.80	18.60	12.35	13.25	3.40	0.60		
13	0.60	0.65	8.75	0.55	0.55	0.26	10.40	11.75	11.90	12.05	2.80	0.60		
14	0.80	0.55	4.30	0.50	0.46	0.26	11.45	10.70	30.00	11.45	0.95	0.55		
15	0.90	0.55	2.70	0.85	0.50	7.25	9.65	14.00	28.25	10.55	2.60	0.48		
16	0.95	0.55	2.10	6.65	0.65	3.60	7.25	12.35	18.00	9.50	2.00	0.48		
17	1.20	0.20	1.70	4.30	0.55	2.10	7.85	16.60	18.60	7.40	0.75	0.48		
18	5.60	0.10	1.70	2.90	0.60	3.20	8.30	14.60	31.50	5.90	0.65	0.75		
19	7.10	0.10	1.10	2.30	0.65	4.10	8.30	17.00	23.60	5.15	0.85	1.50		
20	2.80	0.80	0.85	1.80	0.65	3.00	9.95	43.00	18.80	4.70	1.50	1.40		
21	2.60	0.65	0.30	1.60	0.65	1.50	7.85	20.80	41.25	4.30	1.70	1.10		
22	2.90	0.42	0.38	1.20	0.65	3.30	6.50	27.40	57.10	4.10	2.80	0.65		
23	3.20	0.18	0.44	1.10	0.80	2.60	5.75	19.80	44.50	3.60	3.00	0.44		
24	0.90	0.36	0.44	0.80	0.80	2.70	5.15	17.60	24.80	3.60	2.80	0.44		
25	0.75	0.14	0.44	0.80	0.85	2.80	7.55	14.00	21.20	3.40	2.70	0.48		
26	0.60	0.24	0.44	2.50	0.85	1.90	9.95	13.25	21.40	3.30	2.20	0.60		
27	0.48	0.30	0.48	2.60	0.85	0.55	11.00	14.20	22.60	3.10	1.80	0.80		
28	0.44	0.55	0.60	1.70	0.85	2.50	18.00	14.80	17.60	6.05	1.50	0.48		
29	0.40	0.55	0.70	1.10	0.85	1.20	15.60	16.20	16.60	5.90		0.75		
30	0.55	0.60	0.60	1.20	0.75	0.85	11.30	12.05	19.00	5.75		0.70		
31		0.55		0.85	0.65		9.80		18.60	5.75		0.55		
Total	39.33	19.24	41.72	43.96	27.71	54.91	274.15	454.30	621.50	281.40	61.50	24.33	1944.05	CMSDAY
Mean	1.31	0.62	1.39	1.42	0.89	1.83	8.84	15.14	20.05	9.08	2.20	0.78	5.33	CMS
Max	7.10	1.90	8.75	6.65	2.20	7.25	18.00	43.00	57.10	15.80	4.40	2.30	57.10	CMS
Min	0.40	0.10	0.30	0.46	0.46	0.26	1.90	6.65	10.10	3.10	0.65	0.40	0.10	CMS
Runoff	3.40	1.66	3.61	3.80	2.39	4.74	23.69	39.25	53.70	24.31	5.31	2.10	167.97	MCM

Momentary Peak 65.50 CMS. at 15.80 m. (MSL.) at 20.00 Hours , on Dec 22 , 2014

Runoff Yield 17.64 Liters/Second/Square KM. Momentary Peak Yield 216.694 Liters/Second/Square KM.

WATER YEAR : 2014

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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

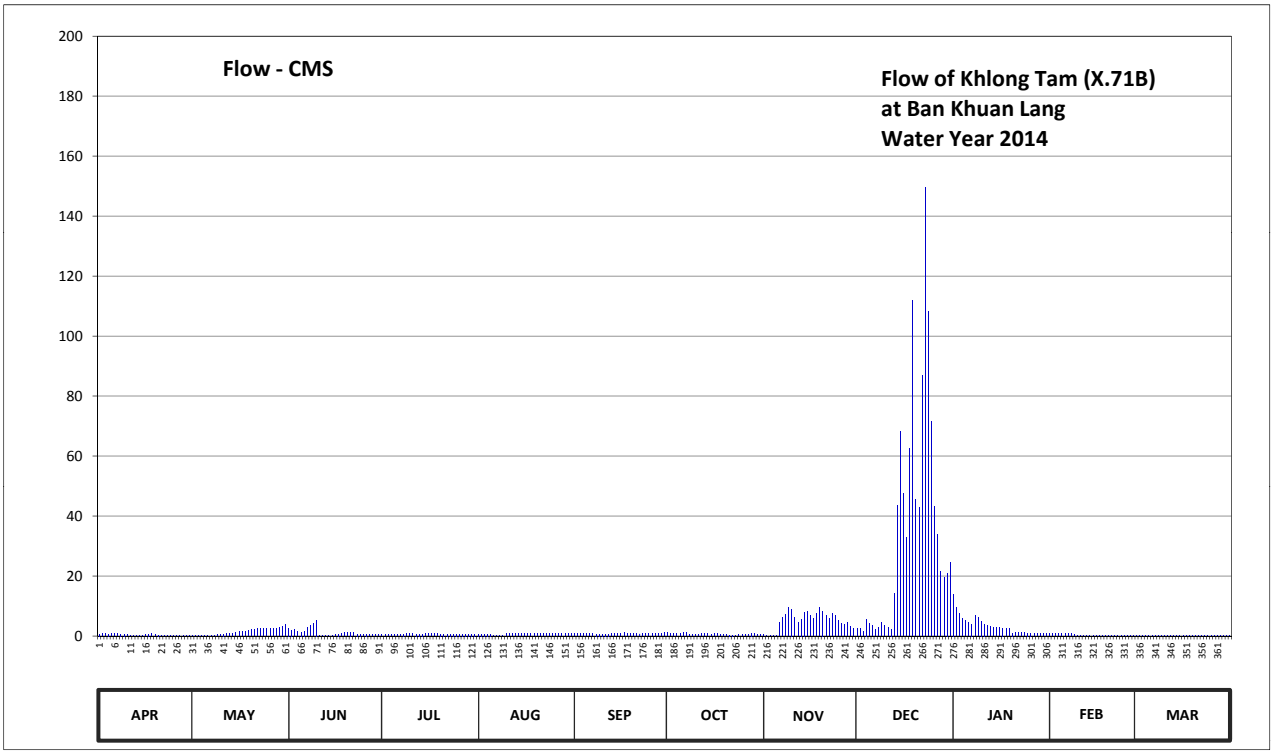
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.55	4.95	6.51	5.49	5.56	5.67	5.88	5.30	5.13	6.16	5.82	4.90	
2	5.59	4.95	6.34	5.49	5.55	5.65	5.70	5.19	5.12	5.79	5.80	4.90	
3	5.59	4.95	6.36	5.48	5.54	5.64	5.60	5.16	5.01	5.65	5.80	4.90	
4	5.57	4.96	6.17	5.47	5.55	5.63	5.61	5.12	5.47	5.48	5.80	4.90	
5	5.63	4.96	6.08	5.47	5.55	5.62	5.59	5.11	5.33	5.42	5.78	4.95	
6	5.67	4.97	6.25	5.47	4.88	5.59	6.03	5.35	5.24	5.35	5.77	4.95	
7	5.60	4.95	6.59	5.53	4.90	5.61	5.92	5.52	5.09	5.30	5.76	4.95	
8	5.57	4.97	6.70	5.58	4.90	5.58	5.48	5.62	5.20	5.57	5.68	4.95	
9	5.57	5.33	6.81	5.61	5.00	5.57	5.34	5.80	5.35	5.52	5.29	4.95	
10	5.39	5.45	7.06	5.62	5.61	5.57	5.39	5.76	5.26	5.40	5.17	4.95	
11	5.10	5.56	4.97	5.62	5.64	5.57	5.31	5.52	5.16	5.30	4.95	4.95	
12	5.00	5.63	4.96	5.58	5.64	5.57	5.64	5.36	5.11	5.25	4.95	4.95	
13	5.04	5.68	4.97	5.57	5.62	5.60	5.75	5.47	6.18	5.22	4.95	4.95	
14	5.11	5.79	4.95	5.57	5.61	5.62	5.59	5.68	7.51	5.20	4.95	4.95	
15	5.10	6.03	5.05	5.62	5.71	5.65	5.41	5.70	8.13	5.20	4.95	4.90	
16	5.39	6.11	5.29	5.67	5.65	5.77	5.74	5.58	7.63	5.16	4.95	4.90	
17	5.58	6.17	5.56	5.66	5.61	5.90	5.75	5.48	7.13	5.15	4.94	4.90	
18	5.60	6.20	5.77	5.64	5.62	5.83	5.46	5.63	8.01	5.14	4.90	4.90	
19	5.47	6.31	5.90	5.61	5.59	5.72	5.31	5.80	8.86	5.12	4.90	4.90	
20	5.23	6.37	6.02	5.57	5.59	5.64	5.27	5.71	7.57	5.86	4.90	4.90	
21	5.06	6.41	6.10	5.56	5.62	5.63	5.23	5.60	7.49	5.91	4.90	4.90	
22	5.00	6.46	5.96	5.55	5.61	5.63	5.22	5.49	8.47	5.90	4.90	4.90	
23	5.00	6.43	5.57	5.54	5.62	5.63	5.20	5.64	9.35	5.90	4.90	4.90	
24	5.00	6.43	5.54	5.54	5.63	5.62	5.29	5.60	8.81	5.90	4.90	4.90	
25	5.00	6.45	5.53	5.54	5.66	5.60	5.32	5.42	8.20	5.87	4.90	4.90	
26	4.99	6.46	5.54	5.55	5.64	5.63	5.27	5.33	7.50	5.85	4.90	4.90	
27	4.99	6.48	5.53	5.55	5.64	5.64	5.46	5.27	7.18	5.83	4.90	4.90	
28	4.98	6.49	5.53	5.55	5.71	5.65	5.86	5.36	6.63	5.83	4.90	4.90	
29	4.96	6.59	5.52	5.55	5.63	5.81	5.63	5.23	6.51	5.83		4.90	
30	4.95	6.64	5.52	5.55	5.65	5.89	5.38	5.14	6.60	5.83		4.90	
31		6.76		5.55	5.66		5.31		6.77	5.83		4.90	
Mean	5.28	5.87	5.82	5.56	5.53	5.66	5.51	5.46	6.68	5.57	5.19	4.92	
Max	5.67	6.76	7.06	5.67	5.71	5.90	6.03	5.80	9.35	6.16	5.82	4.95	9.35
Min	4.95	4.95	4.95	5.47	4.88	5.57	5.20	5.11	5.01	5.12	4.90	4.90	4.88

Annual Max Momentary Gage Height 9.45 m. (MSL.) , at 11.00 Hours , on Dec 23 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 4.32 m. (MSL.)

Left Bank Elevation 11.06 m. (MSL.) ,

Right Bank Elevation 11.34 m. (MSL.) , Drainage Area 148 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.67	0.12	2.68	0.61	0.68	0.79	1.03	0.42	2.48	14.00	0.95	0.08		
2	0.71	0.12	2.03	0.61	0.67	0.77	0.82	0.31	2.40	9.38	0.92	0.08		
3	0.71	0.12	2.11	0.60	0.66	0.76	0.72	0.29	1.58	7.63	0.92	0.08		
4	0.69	0.13	1.45	0.59	0.67	0.75	0.73	0.26	5.70	5.80	0.92	0.08		
5	0.75	0.13	1.31	0.59	0.67	0.74	0.71	0.25	4.30	5.20	0.90	0.12		
6	0.79	0.14	1.69	0.59	0.06	0.71	1.24	4.50	3.40	4.50	0.89	0.12		
7	0.72	0.12	2.98	0.65	0.08	0.73	1.09	6.20	2.18	4.00	0.88	0.12		
8	0.69	0.14	3.51	0.70	0.08	0.70	0.60	7.25	3.00	6.70	0.80	0.12		
9	0.69	0.45	4.05	0.73	0.16	0.69	0.46	9.50	4.50	6.20	0.41	0.12		
10	0.51	0.57	5.30	0.74	0.73	0.69	0.51	9.00	3.60	5.00	0.30	0.12		
11	0.24	0.68	0.14	0.74	0.76	0.69	0.43	6.20	2.70	4.00	0.12	0.12		
12	0.16	0.75	0.13	0.70	0.76	0.69	0.76	4.60	2.33	3.50	0.12	0.12		
13	0.19	0.80	0.14	0.69	0.74	0.72	0.87	5.70	14.25	3.20	0.12	0.12		
14	0.25	0.91	0.12	0.69	0.73	0.74	0.71	8.00	43.58	3.00	0.12	0.12		
15	0.24	1.24	0.20	0.74	0.83	0.77	0.53	8.25	68.18	3.00	0.12	0.08		
16	0.51	1.36	0.41	0.79	0.77	0.89	0.86	6.80	47.55	2.70	0.12	0.08		
17	0.70	1.45	0.68	0.78	0.73	1.06	0.87	5.80	32.75	2.63	0.11	0.08		
18	0.72	1.50	0.89	0.76	0.74	0.96	0.58	7.38	62.48	2.55	0.08	0.08		
19	0.59	1.92	1.06	0.73	0.71	0.84	0.43	9.50	112.00	2.40	0.08	0.08		
20	0.35	2.15	1.23	0.69	0.71	0.76	0.39	8.38	45.53	1.00	0.08	0.08		
21	0.21	2.30	1.34	0.68	0.74	0.75	0.35	7.00	42.92	1.07	0.08	0.08		
22	0.16	2.49	1.14	0.67	0.73	0.75	0.34	5.90	86.88	1.06	0.08	0.08		
23	0.16	2.37	0.69	0.66	0.74	0.75	0.32	7.50	149.68	1.06	0.08	0.08		
24	0.16	2.37	0.66	0.66	0.75	0.74	0.41	7.00	108.25	1.06	0.08	0.08		
25	0.16	2.45	0.65	0.66	0.78	0.72	0.44	5.20	71.50	1.02	0.08	0.08		
26	0.15	2.49	0.66	0.67	0.76	0.75	0.39	4.30	43.25	0.99	0.08	0.08		
27	0.15	2.56	0.65	0.67	0.76	0.76	0.58	3.70	34.00	0.96	0.08	0.08		
28	0.14	2.60	0.65	0.67	0.83	0.77	1.00	4.60	21.60	0.96	0.08	0.08		
29	0.13	2.98	0.64	0.67	0.75	0.93	0.75	3.30	19.43	0.96		0.08		
30	0.12	3.22	0.64	0.67	0.77	1.05	0.50	2.55	21.00	0.96		0.08		
31		3.80		0.67	0.78		0.43		24.40	0.96		0.08		
Total	12.42	44.43	39.83	21.07	20.33	23.42	19.85	159.64	1087.40	107.45	9.60	2.88	1548.32	CMSDAY
Mean	0.41	1.43	1.33	0.68	0.66	0.78	0.64	5.32	35.08	3.47	0.34	0.09	4.24	CMS
Max	0.79	3.80	5.30	0.79	0.83	1.06	1.24	9.50	149.68	14.00	0.95	0.12	149.68	CMS
Min	0.12	0.12	0.12	0.59	0.06	0.69	0.32	0.25	1.58	0.96	0.08	0.08	0.06	CMS
Runoff	1.07	3.84	3.44	1.82	1.76	2.02	1.72	13.79	93.95	9.28	0.83	0.25	133.78	MCM

Momentary Peak 157.80 CMS. at 9.45 m. (MSL.) at 11.00 Hours , on Dec 23 , 2014

Runoff Yield 28.66 Liters/Second/Square KM. Momentary Peak Yield 1066.216 Liters/Second/Square KM.

WATER YEAR : 2014

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.

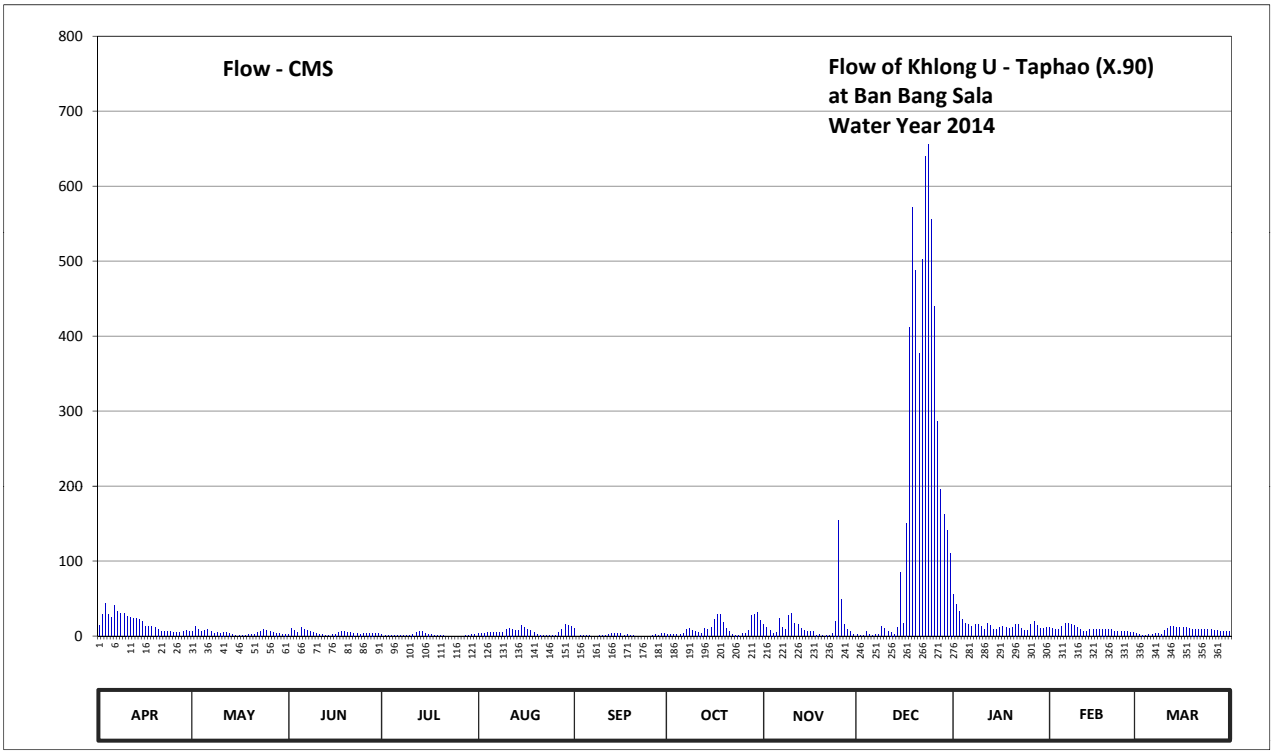
Ban Bang Sala **Amphoe** Khlong Hoi Khong **Changwat** Songkhla

Drainge Area	1,547 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+0.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the top staff gage. **Elevation** +11.201 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	1971 - 1972 , 1979 to date
Rated by Flot	-
Rated by Current Meter	1971 - 1972 , 1979 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	3.02	2.78	2.73	2.84	3.17	2.81	3.35	2.74	4.02	3.21	2.85	
2	3.65	3.24	3.16	2.68	2.87	2.50	2.75	3.22	2.67	3.85	3.18	2.79	
3	3.87	3.12	3.07	2.65	2.88	2.58	2.74	3.08	2.52	3.71	3.13	2.70	
4	3.64	3.02	2.95	2.65	2.91	2.61	2.75	2.88	3.00	3.52	3.09	2.66	
5	3.58	3.05	3.22	2.63	2.93	2.55	2.77	2.96	2.77	3.39	3.27	2.73	
6	3.84	3.12	3.11	2.58	2.95	2.55	2.89	3.53	2.68	3.32	3.39	2.78	
7	3.72	2.97	3.06	2.55	2.94	2.50	3.11	3.20	2.75	3.27	3.39	2.83	
8	3.67	2.85	2.99	2.57	2.92	2.46	3.14	3.12	2.73	3.34	3.35	2.83	
9	3.66	2.92	2.90	2.62	2.93	2.53	3.07	3.63	3.26	3.35	3.28	2.81	
10	3.61	2.88	2.85	2.64	3.13	2.52	3.01	3.67	3.16	3.25	3.21	3.07	
11	3.57	2.96	2.80	2.81	3.17	2.60	2.96	3.37	3.02	3.12	3.13	3.17	
12	3.55	2.94	2.74	2.93	3.13	2.72	2.89	3.34	2.96	3.36	3.02	3.27	
13	3.54	2.88	2.67	3.02	3.04	2.86	3.17	3.17	2.81	3.30	3.03	3.25	
14	3.52	2.79	2.65	2.97	3.04	2.83	3.13	3.05	3.19	3.10	3.09	3.23	
15	3.44	2.63	2.72	2.86	3.29	2.88	3.23	3.00	4.23	3.12	3.11	3.22	
16	3.27	2.68	2.81	2.81	3.22	2.84	3.52	2.99	3.36	3.23	3.12	3.22	
17	3.27	2.63	2.91	2.74	3.13	2.68	3.64	2.99	4.58	3.25	3.12	3.19	
18	3.26	2.66	2.97	2.67	3.04	2.80	3.64	2.69	7.09	3.20	3.13	3.15	
19	3.21	2.75	2.98	2.58	2.93	2.56	3.43	2.72	7.96	3.14	3.13	3.13	
20	3.13	2.75	2.95	2.57	2.73	2.57	3.17	2.62	7.53	3.23	3.12	3.13	
21	3.02	2.74	2.92	2.52	2.69	2.51	2.98	2.69	6.87	3.35	3.09	3.13	
22	3.01	2.95	2.88	2.45	2.64	2.48	2.78	2.67	7.61	3.32	3.01	3.12	
23	2.98	3.03	2.86	2.44	2.56	2.49	2.70	2.86	8.28	3.17	3.01	3.12	
24	2.98	3.09	2.81	2.43	2.55	2.44	2.70	3.46	8.35	3.05	3.01	3.12	
25	2.93	3.07	2.83	2.42	2.56	2.44	2.87	4.64	7.88	3.07	3.00	3.11	
26	2.93	3.00	2.83	2.44	2.67	2.68	2.87	3.94	7.26	3.33	2.98	3.07	
27	2.93	2.91	2.88	2.50	2.95	2.71	3.06	3.34	6.19	3.44	2.90	3.05	
28	3.01	2.88	2.88	2.58	3.12	2.64	3.63	3.09	5.22	3.31	2.90	3.03	
29	3.04	2.85	2.87	2.65	3.33	2.87	3.64	2.99	4.75	3.14		3.02	
30	3.01	2.74	2.86	2.71	3.28	2.85	3.69	2.75	4.42	3.18		3.02	
31		2.81		2.76	3.27		3.47		4.31	3.20		3.02	
Mean	3.34	2.90	2.90	2.65	2.96	2.65	3.10	3.17	4.71	3.31	3.12	3.03	
Max	3.87	3.24	3.22	3.02	3.33	3.17	3.69	4.64	8.35	4.02	3.39	3.27	8.35
Min	2.93	2.63	2.65	2.42	2.55	2.44	2.70	2.62	2.52	3.05	2.90	2.66	2.42

Annual Max Momentary Gage Height	8.41	m. (MSL.) ,	at 07.00 Hours , on Dec 24 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-0.92	m. (MSL.)
Left Bank Elevation	11.24	m. (MSL.) ,			
Right Bank Elevation	11.25	m. (MSL.) ,	Drainage Area	1547	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.25	6.50	2.30	1.80	3.20	10.25	2.67	15.87	1.90	56.10	11.32	3.37		
2	29.00	12.30	10.00	1.30	3.72	0.00	2.00	11.65	1.20	42.00	10.50	2.40		
3	43.60	9.00	7.75	1.00	3.90	0.40	1.90	8.00	0.10	32.60	9.25	1.50		
4	28.40	6.50	5.13	1.00	4.43	0.60	2.00	3.90	6.00	22.60	8.25	1.10		
5	25.15	7.25	11.65	0.80	4.78	0.25	2.20	5.30	2.20	17.18	13.27	1.80		
6	41.20	9.00	8.75	0.40	5.13	0.25	4.08	23.02	1.30	14.90	17.18	2.30		
7	33.20	5.48	7.50	0.25	4.95	0.00	8.75	11.00	2.00	13.27	17.18	3.02		
8	30.20	3.37	5.83	0.35	4.60	0.00	9.50	9.00	1.80	15.55	15.87	3.02		
9	29.60	4.60	4.25	0.70	4.78	0.15	7.75	27.80	12.95	15.87	13.60	2.67		
10	26.60	3.90	3.37	0.90	9.25	0.10	6.25	30.20	10.00	12.62	11.32	7.75		
11	24.72	5.30	2.50	2.67	10.25	0.50	5.30	16.52	6.50	9.00	9.25	10.25		
12	23.87	4.95	1.90	4.78	9.25	1.70	4.08	15.55	5.30	16.20	6.50	13.27		
13	23.45	3.90	1.20	6.50	7.00	3.55	10.25	10.25	2.67	14.25	6.75	12.62		
14	22.60	2.40	1.00	5.48	7.00	3.02	9.25	7.25	10.75	8.50	8.25	11.97		
15	19.20	0.80	1.70	3.55	13.92	3.90	11.97	6.00	84.75	9.00	8.75	11.65		
16	13.27	1.30	2.67	2.67	11.65	3.20	22.60	5.83	16.20	11.97	9.00	11.65		
17	13.27	0.80	4.43	1.90	9.25	1.30	28.40	5.83	150.80	12.62	9.00	10.75		
18	12.95	1.10	5.48	1.20	7.00	2.50	28.40	1.40	412.40	11.00	9.25	9.75		
19	11.32	2.00	5.65	0.40	4.78	0.30	18.77	1.70	571.60	9.50	9.25	9.25		
20	9.25	2.00	5.13	0.35	1.80	0.35	10.25	0.70	487.40	11.97	9.00	9.25		
21	6.50	1.90	4.60	0.10	1.40	0.05	5.65	1.40	377.20	15.87	8.25	9.25		
22	6.25	5.13	3.90	0.00	0.90	0.00	2.30	1.20	501.90	14.90	6.25	9.00		
23	5.65	6.75	3.55	0.00	0.30	0.00	1.50	3.55	639.60	10.25	6.25	9.00		
24	5.65	8.25	2.67	0.00	0.25	0.00	1.50	20.05	655.00	7.25	6.25	9.00		
25	4.78	7.75	3.02	0.00	0.30	0.00	3.72	154.60	554.80	7.75	6.00	8.75		
26	4.78	6.00	3.02	0.00	1.20	1.30	3.72	49.20	440.20	15.22	5.65	7.75		
27	4.78	4.43	3.90	0.00	5.13	1.60	7.50	15.55	285.90	19.20	4.25	7.25		
28	6.25	3.90	3.90	0.40	9.00	0.90	27.80	8.25	195.60	14.57	4.25	6.75		
29	7.00	3.37	3.72	1.00	15.22	3.72	28.40	5.83	161.75	9.50		6.50		
30	6.25	1.90	3.55	1.60	13.60	3.37	31.40	2.00	141.20	10.50		6.50		
31		2.67		2.10	13.27		20.47		110.75	11.00		6.50		
Total	532.99	144.50	134.02	43.20	191.21	43.26	330.33	478.40	5851.72	492.71	259.89	225.59	8727.82	CMSDAY
Mean	17.77	4.66	4.47	1.39	6.17	1.44	10.66	15.95	188.77	15.89	9.28	7.28	23.91	CMS
Max	43.60	12.30	11.65	6.50	15.22	10.25	31.40	154.60	655.00	56.10	17.18	13.27	655.00	CMS
Min	4.78	0.80	1.00	0.00	0.25	0.00	1.50	0.70	0.10	7.25	4.25	1.10	0.00	CMS
Runoff	46.05	12.49	11.58	3.73	16.52	3.74	28.54	41.33	505.59	42.57	22.45	19.49	754.08	MCM

Momentary Peak 668.30 CMS. at 8.41 m. (MSL.) at 07.00 Hours , on Dec 24 , 2014

Runoff Yield 15.46 Liters/Second/Square KM. Momentary Peak Yield 431.997 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Bang Kaeo at Ban Khuan In No Mo , Phutthalung (X.109)

Lat 07 - 20 - 29 N Long 100 - 03 - 35 E

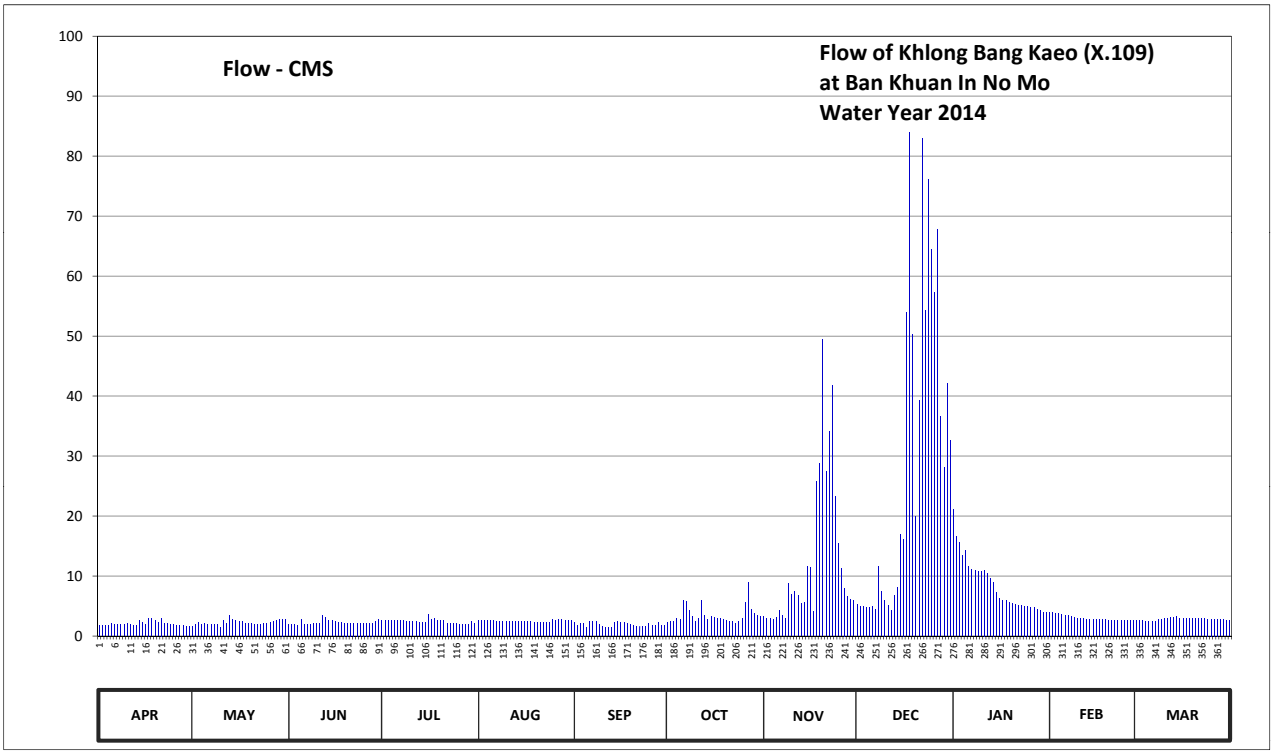
Location : on left bank at Ban Khuan In No Mo.

	Ban Khuan In No Mo	**Amphoe** Ta Mot	**Changwat** Phatthalung
Drainge Area	131 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 Meteorological Station.	**Elevation**	+32.764 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	1979 to date.		
Rating Operation			
Period of Rating	1979 to date.		
Rated by Flot	-		
Rated by Current Meter	1979 to date.		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.24	26.22	26.26	26.35	26.35	26.30	26.30	26.42	26.62	27.78	26.50	26.34	
2	26.24	26.25	26.25	26.35	26.35	26.23	26.32	26.40	26.59	27.51	26.49	26.34	
3	26.24	26.30	26.25	26.35	26.34	26.29	26.32	26.39	26.59	27.44	26.48	26.34	
4	26.24	26.25	26.24	26.34	26.34	26.29	26.39	26.38	26.58	27.30	26.47	26.33	
5	26.27	26.27	26.37	26.34	26.34	26.20	26.36	26.41	26.57	27.35	26.46	26.33	
6	26.26	26.26	26.26	26.34	26.34	26.33	26.70	26.53	26.60	27.17	26.45	26.32	
7	26.26	26.26	26.26	26.34	26.33	26.33	26.67	26.44	26.54	27.13	26.44	26.32	
8	26.26	26.25	26.25	26.34	26.33	26.32	26.53	26.39	27.17	27.11	26.42	26.36	
9	26.25	26.25	26.28	26.33	26.33	26.25	26.43	26.94	26.83	27.10	26.41	26.38	
10	26.27	26.20	26.28	26.33	26.32	26.21	26.33	26.79	26.70	27.10	26.40	26.39	
11	26.25	26.34	26.27	26.32	26.32	26.20	26.39	26.84	26.61	27.12	26.39	26.40	
12	26.24	26.27	26.45	26.32	26.32	26.19	26.69	26.77	26.53	27.07	26.39	26.41	
13	26.24	26.45	26.41	26.31	26.32	26.19	26.44	26.65	26.77	27.01	26.38	26.41	
14	26.35	26.37	26.35	26.30	26.32	26.31	26.38	26.66	26.89	26.96	26.38	26.42	
15	26.30	26.35	26.34	26.31	26.32	26.32	26.42	27.17	27.53	26.82	26.37	26.40	
16	26.25	26.33	26.33	26.46	26.32	26.31	26.41	27.15	27.48	26.72	26.37	26.40	
17	26.40	26.32	26.30	26.36	26.32	26.31	26.40	26.51	29.32	26.70	26.36	26.40	
18	26.39	26.29	26.30	26.39	26.32	26.28	26.39	28.04	30.35	26.69	26.36	26.39	
19	26.34	26.27	26.29	26.34	26.31	26.25	26.38	28.19	29.17	26.66	26.36	26.39	
20	26.30	26.27	26.29	26.34	26.31	26.23	26.35	29.14	27.71	26.64	26.35	26.39	
21	26.40	26.26	26.29	26.34	26.31	26.22	26.33	28.12	28.70	26.62	26.35	26.39	
22	26.28	26.26	26.29	26.29	26.31	26.22	26.32	28.46	30.32	26.61	26.35	26.39	
23	26.27	26.26	26.29	26.28	26.31	26.22	26.29	28.81	29.33	26.61	26.35	26.39	
24	26.25	26.27	26.29	26.28	26.31	26.22	26.32	27.90	30.11	26.60	26.34	26.38	
25	26.25	26.29	26.29	26.27	26.38	26.27	26.40	27.43	29.73	26.60	26.34	26.38	
26	26.24	26.31	26.29	26.26	26.34	26.24	26.66	27.14	29.45	26.58	26.34	26.38	
27	26.23	26.33	26.29	26.26	26.36	26.23	26.95	26.88	29.85	26.57	26.34	26.38	
28	26.23	26.35	26.29	26.25	26.36	26.31	26.55	26.76	28.58	26.55	26.34	26.37	
29	26.22	26.36	26.32	26.25	26.35	26.23	26.48	26.71	28.16	26.53		26.36	
30	26.22	26.38	26.36	26.32	26.34	26.23	26.45	26.69	28.83	26.50		26.35	
31		26.37		26.28	26.34		26.43		28.38	26.50		26.34	
Mean	26.27	26.30	26.30	26.32	26.33	26.26	26.44	27.10	27.95	26.89	26.39	26.37	
Max	26.40	26.45	26.45	26.46	26.38	26.33	26.95	29.14	30.35	27.78	26.50	26.42	30.35
Min	26.22	26.20	26.24	26.25	26.31	26.19	26.29	26.38	26.53	26.50	26.34	26.32	26.19

Annual Max Momentary Gage Height	30.51	m. (MSL.) ,	at 08.00 Hours , on Dec 18 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	25.21	m. (MSL.)
Left Bank Elevation	35.63	m. (MSL.) ,			
Right Bank Elevation	36.35	m. (MSL.) ,	Drainage Area	131	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	1.65	1.95	2.63	2.63	2.25	2.25	3.20	5.20	21.15	4.00	2.55		
2	1.80	1.88	1.88	2.63	2.63	1.72	2.40	3.00	4.90	16.65	3.90	2.55		
3	1.80	2.25	1.88	2.63	2.55	2.18	2.40	2.92	4.90	15.60	3.80	2.55		
4	1.80	1.88	1.80	2.55	2.55	2.18	2.92	2.85	4.80	13.50	3.70	2.48		
5	2.03	2.03	2.78	2.55	2.55	1.50	2.70	3.10	4.70	14.25	3.60	2.48		
6	1.95	1.95	1.95	2.55	2.55	2.48	6.00	4.30	5.00	11.62	3.50	2.40		
7	1.95	1.95	1.95	2.55	2.48	2.48	5.70	3.40	4.40	11.12	3.40	2.40		
8	1.95	1.88	1.88	2.55	2.48	2.40	4.30	2.92	11.62	10.88	3.20	2.70		
9	1.88	1.88	2.10	2.48	2.48	1.88	3.30	8.75	7.38	10.75	3.10	2.85		
10	2.03	1.50	2.10	2.48	2.40	1.57	2.48	6.90	6.00	10.75	3.00	2.92		
11	1.88	2.55	2.03	2.40	2.40	1.50	2.92	7.50	5.10	11.00	2.92	3.00		
12	1.80	2.03	3.50	2.40	2.40	1.43	5.90	6.70	4.30	10.37	2.92	3.10		
13	1.80	3.50	3.10	2.32	2.40	1.43	3.40	5.50	6.70	9.63	2.85	3.10		
14	2.63	2.78	2.63	2.25	2.40	2.32	2.85	5.60	8.12	9.00	2.85	3.20		
15	2.25	2.63	2.55	2.32	2.40	2.40	3.20	11.62	16.95	7.25	2.78	3.00		
16	1.88	2.48	2.48	3.60	2.40	2.32	3.10	11.37	16.20	6.20	2.78	3.00		
17	3.00	2.40	2.25	2.70	2.40	2.32	3.00	4.10	54.00	6.00	2.70	3.00		
18	2.92	2.18	2.25	2.92	2.40	2.10	2.92	25.80	83.88	5.90	2.70	2.92		
19	2.55	2.03	2.18	2.55	2.32	1.88	2.85	28.80	50.25	5.60	2.70	2.92		
20	2.25	2.03	2.18	2.55	2.32	1.72	2.63	49.50	19.92	5.40	2.63	2.92		
21	3.00	1.95	2.18	2.55	2.32	1.65	2.48	27.40	39.25	5.20	2.63	2.92		
22	2.10	1.95	2.18	2.18	2.32	1.65	2.40	34.20	82.90	5.10	2.63	2.92		
23	2.03	1.95	2.18	2.10	2.32	1.65	2.18	41.72	54.25	5.10	2.63	2.92		
24	1.88	2.03	2.18	2.10	2.32	1.65	2.40	23.25	76.08	5.00	2.55	2.85		
25	1.88	2.18	2.18	2.03	2.85	2.03	3.00	15.45	64.51	5.00	2.55	2.85		
26	1.80	2.32	2.18	1.95	2.55	1.80	5.60	11.25	57.25	4.80	2.55	2.85		
27	1.72	2.48	2.18	1.95	2.70	1.72	8.88	8.00	67.75	4.70	2.55	2.85		
28	1.72	2.63	2.18	1.88	2.70	2.32	4.50	6.60	36.60	4.50	2.55	2.78		
29	1.65	2.70	2.40	1.88	2.63	1.72	3.80	6.10	28.20	4.30		2.70		
30	1.65	2.85	2.70	2.40	2.55	1.72	3.50	5.90	42.17	4.00		2.63		
31		2.78		2.10	2.55		3.30		32.60	4.00		2.55		
Total	61.38	69.28	67.96	74.73	76.95	57.97	109.26	377.70	905.88	264.32	83.67	86.86	2235.96	CMSDAY
Mean	2.05	2.23	2.27	2.41	2.48	1.93	3.52	12.59	29.22	8.53	2.99	2.80	6.13	CMS
Max	3.00	3.50	3.50	3.60	2.85	2.48	8.88	49.50	83.88	21.15	4.00	3.20	83.88	CMS
Min	1.65	1.50	1.80	1.88	2.32	1.43	2.18	2.85	4.30	4.00	2.55	2.40	1.43	CMS
Runoff	5.30	5.99	5.87	6.46	6.65	5.01	9.44	32.63	78.27	22.84	7.23	7.51	193.19	MCM

Momentary Peak 89.35 CMS. at 30.51 m. (MSL.) at 08.00 Hours , on Dec 18 , 2014

Runoff Yield 46.76 Liters/Second/Square KM. Momentary Peak Yield 682.061 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Sadao at Ban Takian Pao , Songkhla (X.112)

Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

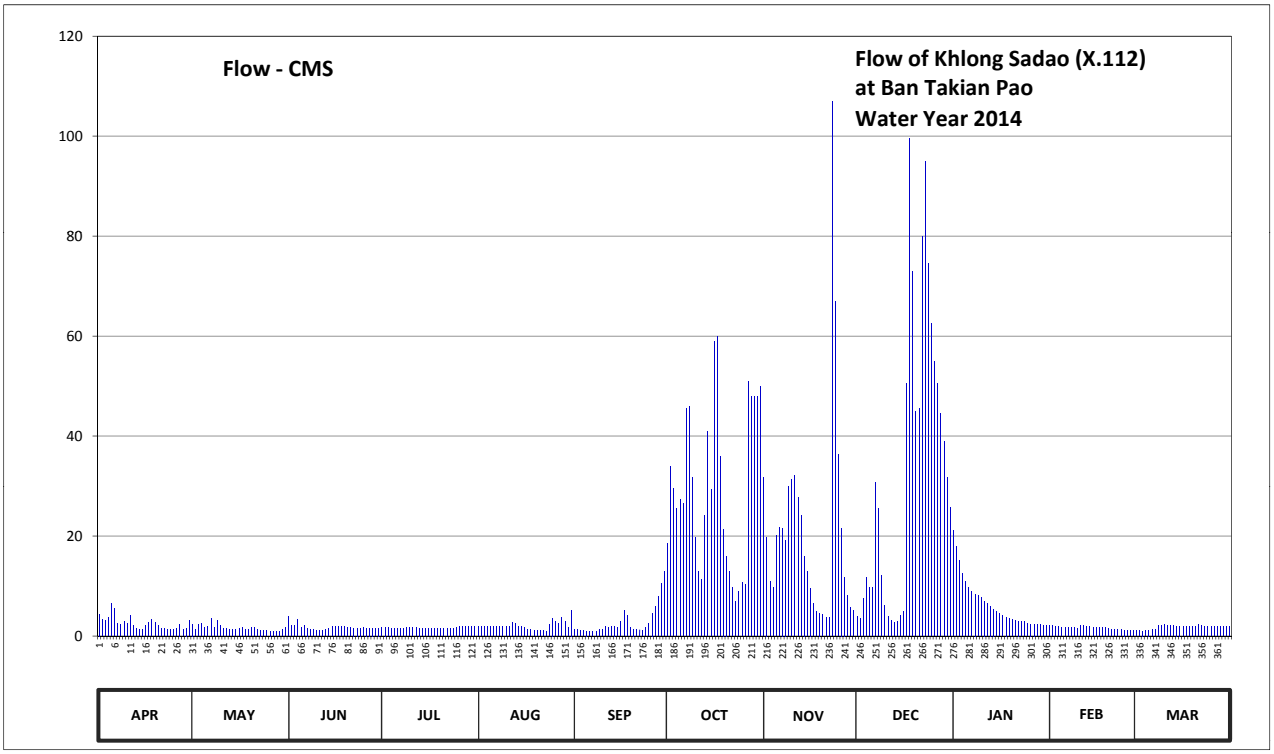
Location : on right bank at Ban Takian Pao.

	Ban Takian Pao	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	493 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.		**Elevation** +24.840 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1979 - 1996 , 2006 to date		
Rating Operation			
Period of Rating	1979 - 1996 , 2006 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1996 , 2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.68	21.16	21.58	20.88	20.98	20.75	23.64	24.25	21.58	23.81	21.03	20.62	
2	21.45	20.74	21.01	20.93	20.99	20.70	24.31	23.72	21.50	23.60	21.02	20.62	
3	21.41	21.09	21.07	20.87	20.96	20.65	24.18	22.91	22.31	23.37	20.99	20.61	
4	21.54	21.21	21.47	20.84	20.96	20.63	24.02	22.73	23.03	23.14	20.94	20.67	
5	22.12	20.92	20.85	20.82	20.96	20.61	24.09	23.74	22.75	22.92	20.92	20.68	
6	21.90	20.97	21.05	20.82	20.96	20.60	24.06	23.84	22.74	22.75	20.91	20.69	
7	21.19	21.50	20.84	20.82	20.94	20.60	24.61	23.83	24.22	22.60	20.87	20.74	
8	21.12	20.88	20.74	20.82	20.94	20.60	24.62	23.68	24.02	22.48	20.85	21.01	
9	21.38	21.41	20.70	20.85	20.94	20.70	24.25	24.20	23.08	22.44	20.85	21.03	
10	21.18	21.06	20.66	20.87	20.94	20.74	23.71	24.24	22.01	22.33	20.81	21.12	
11	21.62	20.82	20.65	20.86	20.97	20.94	23.20	24.26	21.57	22.20	21.03	21.04	
12	21.03	20.79	20.67	20.85	21.31	20.90	22.97	24.11	21.42	22.09	21.02	21.02	
13	20.80	20.73	20.75	20.84	21.19	20.98	23.96	23.96	21.30	22.00	20.99	21.01	
14	20.72	20.71	20.82	20.82	20.97	21.00	24.50	23.44	21.35	21.88	20.94	21.00	
15	20.69	20.70	20.98	20.82	20.95	20.88	24.17	23.20	21.62	21.77	20.92	21.00	
16	21.07	20.80	20.97	20.82	20.89	21.39	24.88	22.72	21.79	21.69	20.91	20.98	
17	21.30	20.86	20.96	20.82	20.72	21.82	24.90	22.10	24.71	21.63	20.87	20.98	
18	21.45	20.74	20.95	20.82	20.69	21.61	24.37	21.80	25.63	21.56	20.85	20.99	
19	21.30	20.73	20.96	20.81	20.66	20.92	23.82	21.72	25.16	21.50	20.85	20.98	
20	21.02	20.92	20.91	20.80	20.66	20.76	23.44	21.65	24.60	21.45	20.81	20.96	
21	20.82	20.86	20.85	20.80	20.64	20.72	23.18	21.55	24.61	21.41	20.72	21.12	
22	20.77	20.74	20.84	20.80	20.66	20.71	22.74	21.53	25.30	21.40	20.71	21.01	
23	20.72	20.68	20.84	20.78	20.54	20.67	22.17	25.74	25.56	21.38	20.70	20.98	
24	20.70	20.64	20.84	20.82	21.14	20.87	22.60	25.04	25.19	21.33	20.69	20.96	
25	20.69	20.62	20.86	20.91	21.52	21.24	22.90	24.38	24.95	21.20	20.68	20.96	
26	20.77	20.61	20.84	20.98	21.38	21.72	22.85	23.83	24.80	21.16	20.66	20.96	
27	21.16	20.60	20.84	20.98	21.21	21.97	24.72	23.04	24.71	21.15	20.66	20.96	
28	20.72	20.59	20.83	20.96	21.53	22.37	24.66	22.44	24.59	21.13	20.63	20.95	
29	20.84	20.60	20.82	20.96	21.33	22.86	24.66	21.96	24.45	21.10		20.94	
30	21.43	20.69	20.83	20.96	20.86	23.20	24.66	21.82	24.25	21.06		20.94	
31		20.91		20.96	21.84		24.70		24.03	21.04		20.94	
Mean	21.15	20.85	20.90	20.86	21.01	21.14	23.92	23.25	23.51	21.95	20.85	20.92	
Max	22.12	21.50	21.58	20.98	21.84	23.20	24.90	25.74	25.63	23.81	21.03	21.12	25.74
Min	20.69	20.59	20.65	20.78	20.54	20.60	22.17	21.53	21.30	21.04	20.63	20.61	20.54

Annual Max Momentary Gage Height	25.88	m. (MSL.) ,	at 09.00 Hours , on Nov 23 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	19.76	m. (MSL.)
Left Bank Elevation	26.18	m. (MSL.) ,			
Right Bank Elevation	26.12	m. (MSL.) ,	Drainage Area	493	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	2.40	3.90	1.70	1.95	1.38	18.60	31.75	3.90	21.20	2.08	1.05		
2	3.25	1.35	2.03	1.83	1.98	1.25	33.85	19.80	3.50	18.00	2.05	1.05		
3	3.05	2.23	2.18	1.68	1.90	1.13	29.50	10.83	7.55	15.13	1.98	1.03		
4	3.70	2.52	3.35	1.60	1.90	1.07	25.50	9.65	11.73	12.55	1.85	1.18		
5	6.60	1.80	1.63	1.55	1.90	1.03	27.25	20.10	9.75	10.90	1.80	1.20		
6	5.50	1.92	2.12	1.55	1.90	1.00	26.50	21.80	9.70	9.75	1.78	1.23		
7	2.48	3.50	1.60	1.55	1.85	1.00	45.50	21.60	30.70	9.00	1.68	1.35		
8	2.30	1.70	1.35	1.55	1.85	1.00	46.00	19.20	25.50	8.40	1.63	2.03		
9	2.95	3.05	1.25	1.63	1.85	1.25	31.75	30.00	12.10	8.20	1.63	2.08		
10	2.45	2.15	1.15	1.68	1.85	1.35	19.65	31.40	6.05	7.65	1.52	2.30		
11	4.10	1.55	1.13	1.65	1.92	1.85	13.00	32.10	3.85	7.00	2.08	2.10		
12	2.08	1.48	1.18	1.63	2.77	1.75	11.27	27.75	3.10	6.45	2.05	2.05		
13	1.50	1.32	1.38	1.60	2.48	1.95	24.20	24.20	2.75	6.00	1.98	2.03		
14	1.30	1.27	1.55	1.55	1.92	2.00	41.00	16.00	2.88	5.40	1.85	2.00		
15	1.23	1.25	1.95	1.55	1.88	1.70	29.25	13.00	4.10	4.85	1.80	2.00		
16	2.18	1.50	1.92	1.55	1.72	2.97	59.00	9.60	4.95	4.45	1.78	1.95		
17	2.75	1.65	1.90	1.55	1.30	5.10	60.00	6.50	50.50	4.15	1.68	1.95		
18	3.25	1.35	1.88	1.55	1.23	4.05	35.95	5.00	99.52	3.80	1.63	1.98		
19	2.75	1.32	1.90	1.52	1.15	1.80	21.40	4.60	73.00	3.50	1.63	1.95		
20	2.05	1.80	1.78	1.50	1.15	1.40	16.00	4.25	45.00	3.25	1.52	1.90		
21	1.55	1.65	1.63	1.50	1.10	1.30	12.85	3.75	45.50	3.05	1.30	2.30		
22	1.43	1.35	1.60	1.50	1.15	1.27	9.70	3.65	80.00	3.00	1.27	2.03		
23	1.30	1.20	1.60	1.45	0.85	1.18	6.85	106.95	95.00	2.95	1.25	1.95		
24	1.25	1.10	1.60	1.55	2.35	1.68	9.00	67.00	74.50	2.83	1.23	1.90		
25	1.23	1.05	1.65	1.78	3.60	2.60	10.75	36.30	62.50	2.50	1.20	1.90		
26	1.43	1.03	1.60	1.95	2.95	4.60	10.38	21.60	55.00	2.40	1.15	1.90		
27	2.40	1.00	1.60	1.95	2.52	5.85	51.00	11.80	50.50	2.38	1.15	1.90		
28	1.30	0.98	1.58	1.90	3.65	7.85	48.00	8.20	44.60	2.32	1.07	1.88		
29	1.60	1.00	1.55	1.90	2.83	10.45	48.00	5.80	39.00	2.25		1.85		
30	3.15	1.23	1.58	1.90	1.65	13.00	48.00	5.10	31.75	2.15		1.85		
31		1.78		1.90	5.20		50.00		25.75	2.10		1.85		
Total	76.51	50.48	53.12	51.25	64.30	85.81	919.70	629.28	1014.23	197.56	45.62	55.72	3243.58	CMSDAY
Mean	2.55	1.63	1.77	1.65	2.07	2.86	29.67	20.98	32.72	6.37	1.63	1.80	8.89	CMS
Max	6.60	3.50	3.90	1.95	5.20	13.00	60.00	106.95	99.52	21.20	2.08	2.30	106.95	CMS
Min	1.23	0.98	1.13	1.45	0.85	1.00	6.85	3.65	2.75	2.10	1.07	1.03	0.85	CMS
Runoff	6.61	4.36	4.59	4.43	5.56	7.41	79.46	54.37	87.63	17.07	3.94	4.81	280.25	MCM

Momentary Peak 117.40 CMS. at 25.88 m. (MSL.) at 09.00 Hours , on Nov 23, 2014

Runoff Yield 18.03 Liters/Second/Square KM. Momentary Peak Yield 238.134 Liters/Second/Square KM.

WATER YEAR : 2014

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	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 15 meters from the gage observer's house.		**Elevation** +37.552 m. (MSL.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

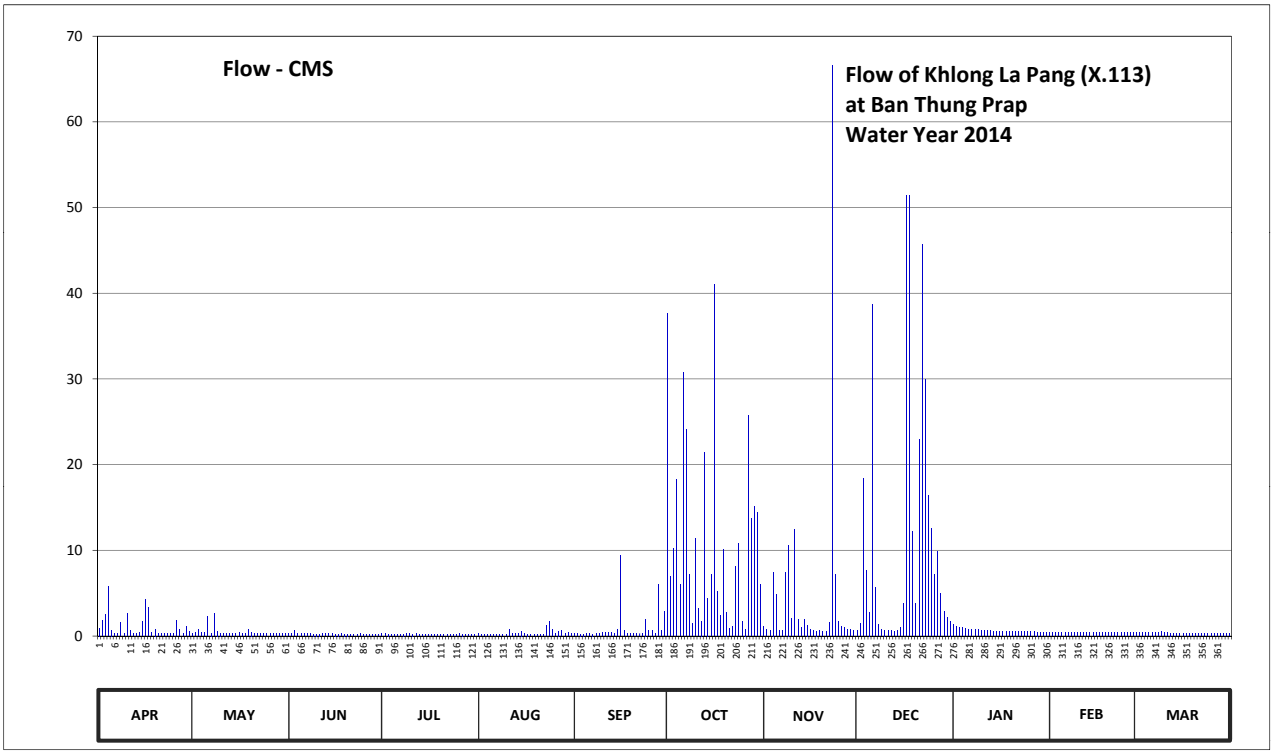
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.45	31.92	31.86	31.94	31.89	31.86	35.22	32.53	32.21	32.62	32.03	31.96	
2	32.75	31.99	31.86	31.85	31.82	31.85	33.65	32.35	32.66	32.54	32.02	31.96	
3	32.93	32.40	32.25	31.83	31.81	31.84	33.96	32.26	34.46	32.50	32.02	31.96	
4	33.51	32.05	31.90	31.82	31.80	31.83	34.45	33.71	33.73	32.46	32.01	31.96	
5	32.30	32.03	31.89	31.82	31.80	31.85	33.54	33.38	33.01	32.43	32.01	31.96	
6	31.94	32.86	31.88	31.82	31.80	31.85	34.99	32.24	35.25	32.39	32.01	31.96	
7	31.93	31.95	31.86	31.82	31.80	31.83	34.72	32.27	33.49	32.35	32.01	31.96	
8	32.69	32.98	31.85	31.83	31.80	31.87	33.68	33.70	32.61	32.36	32.01	31.96	
9	31.89	32.19	31.84	31.87	31.80	31.91	32.65	33.99	32.40	32.37	32.00	32.18	
10	32.96	31.95	31.84	31.88	31.80	31.96	34.04	32.82	32.30	32.28	32.00	31.97	
11	32.24	31.93	31.84	31.83	32.40	32.00	33.09	34.11	32.24	32.26	32.00	31.97	
12	31.94	31.90	31.92	31.85	31.94	32.05	32.73	32.78	32.21	32.23	32.00	31.95	
13	31.89	31.89	31.94	31.82	31.85	31.97	34.61	32.49	32.18	32.21	32.00	31.94	
14	32.05	31.88	31.86	31.82	31.88	31.91	33.31	32.79	32.23	32.18	32.00	31.93	
15	32.71	31.92	31.85	31.82	32.20	32.38	33.68	32.59	32.47	32.17	32.00	31.93	
16	33.29	32.03	31.84	31.81	31.86	33.89	35.32	32.33	33.21	32.16	32.00	31.92	
17	33.12	31.91	31.84	31.81	31.83	32.28	33.43	32.22	35.59	32.14	31.99	31.92	
18	32.05	31.89	31.85	31.81	31.82	31.94	32.92	32.20	35.59	32.14	31.98	31.92	
19	32.41	32.36	31.83	31.81	31.81	31.91	33.95	32.23	34.10	32.13	31.98	31.92	
20	31.92	32.07	31.83	31.81	31.81	31.90	33.01	32.18	33.20	32.12	31.98	31.91	
21	31.90	31.93	31.82	31.80	31.81	31.89	32.42	32.13	34.67	32.11	31.98	31.94	
22	31.89	31.89	31.81	31.80	31.81	31.91	32.51	32.69	35.45	32.10	31.98	31.91	
23	31.89	31.88	31.81	31.80	32.57	31.86	33.79	35.89	34.96	32.10	31.98	31.91	
24	31.87	31.87	31.85	31.80	32.71	32.80	34.00	33.68	34.35	32.09	31.98	31.90	
25	31.86	31.87	31.82	31.80	32.32	32.22	32.71	32.70	34.12	32.09	31.98	31.90	
26	32.74	31.87	31.81	31.85	31.93	32.22	32.41	32.54	33.68	32.09	31.97	31.90	
27	32.38	31.86	31.81	31.84	32.19	31.92	34.79	32.49	33.93	32.08	31.97	31.90	
28	31.89	31.86	31.81	31.82	32.23	33.54	34.20	32.35	33.39	32.06	31.97	31.90	
29	32.52	31.86	31.80	31.80	31.90	32.27	34.28	32.36	33.02	32.04		31.89	
30	32.09	31.86	31.82	31.81	31.98	33.02	34.24	32.24	32.84	32.04		31.89	
31		31.93		31.81	31.88		33.53		32.73	32.03		31.89	
Mean	32.33	32.03	31.86	31.83	31.96	32.15	33.74	32.81	33.49	32.22	31.99	31.94	
Max	33.51	32.98	32.25	31.94	32.71	33.89	35.32	35.89	35.59	32.62	32.03	32.18	35.89
Min	31.86	31.86	31.80	31.80	31.80	31.83	32.41	32.13	32.18	32.03	31.97	31.89	31.80

Annual Max Momentary Gage Height 36.60 m. (MSL.) , at 06.00 Hours , on Nov 23 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 31.83 m. (MSL.)

Left Bank Elevation 37.89 m. (MSL.) ,

Right Bank Elevation 37.89 m. (MSL.) , Drainage Area 118 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.93	0.32	0.26	0.34	0.29	0.26	37.68	1.12	0.61	1.37	0.43	0.36		
2	1.83	0.39	0.26	0.25	0.22	0.25	6.94	0.75	1.51	1.15	0.42	0.36		
3	2.49	0.80	0.65	0.23	0.21	0.24	10.25	0.66	18.45	1.05	0.42	0.36		
4	5.82	0.45	0.30	0.22	0.20	0.23	18.25	7.46	7.64	0.95	0.41	0.36		
5	0.70	0.43	0.29	0.22	0.20	0.25	6.05	4.87	2.80	0.87	0.41	0.36		
6	0.34	2.23	0.28	0.22	0.20	0.25	30.75	0.64	38.69	0.79	0.41	0.36		
7	0.33	0.35	0.26	0.22	0.20	0.23	24.10	0.67	5.68	0.75	0.41	0.36		
8	1.61	2.67	0.25	0.23	0.20	0.27	7.20	7.38	1.34	0.76	0.41	0.36		
9	0.29	0.59	0.24	0.27	0.20	0.31	1.48	10.63	0.80	0.77	0.40	0.58		
10	2.60	0.35	0.24	0.28	0.20	0.36	11.35	2.08	0.70	0.68	0.40	0.37		
11	0.64	0.33	0.24	0.23	0.80	0.40	3.20	12.40	0.64	0.66	0.40	0.37		
12	0.34	0.30	0.32	0.25	0.34	0.45	1.76	1.93	0.61	0.63	0.40	0.35		
13	0.29	0.29	0.34	0.22	0.25	0.37	21.49	1.03	0.58	0.61	0.40	0.34		
14	0.45	0.28	0.26	0.22	0.28	0.31	4.44	1.97	0.63	0.58	0.40	0.33		
15	1.69	0.32	0.25	0.22	0.60	0.78	7.20	1.28	0.98	0.57	0.40	0.33		
16	4.31	0.43	0.24	0.21	0.26	9.37	41.05	0.73	3.81	0.56	0.40	0.32		
17	3.35	0.31	0.24	0.21	0.23	0.68	5.22	0.62	51.35	0.54	0.39	0.32		
18	0.45	0.29	0.25	0.21	0.22	0.34	2.45	0.60	51.35	0.54	0.38	0.32		
19	0.82	0.76	0.23	0.21	0.21	0.31	10.13	0.63	12.25	0.53	0.38	0.32		
20	0.32	0.47	0.23	0.21	0.21	0.30	2.80	0.58	3.75	0.52	0.38	0.31		
21	0.30	0.33	0.22	0.20	0.21	0.29	0.85	0.53	22.91	0.51	0.38	0.34		
22	0.29	0.29	0.21	0.20	0.21	0.31	1.07	1.61	45.75	0.50	0.38	0.31		
23	0.29	0.28	0.21	0.20	1.23	0.26	8.16	66.54	30.00	0.50	0.38	0.31		
24	0.27	0.27	0.25	0.20	1.69	2.00	10.75	7.20	16.37	0.49	0.38	0.30		
25	0.26	0.27	0.22	0.20	0.72	0.62	1.69	1.65	12.55	0.49	0.38	0.30		
26	1.79	0.27	0.21	0.25	0.33	0.62	0.82	1.15	7.20	0.49	0.37	0.30		
27	0.78	0.26	0.21	0.24	0.59	0.32	25.76	1.03	9.88	0.48	0.37	0.30		
28	0.29	0.26	0.21	0.22	0.63	6.05	13.75	0.75	4.94	0.46	0.37	0.30		
29	1.10	0.26	0.20	0.20	0.30	0.67	15.15	0.76	2.85	0.44		0.29		
30	0.49	0.26	0.22	0.21	0.38	2.85	14.45	0.64	2.15	0.44		0.29		
31		0.33		0.21	0.28		5.97		1.76	0.43		0.29		
Total	35.46	15.44	7.79	7.00	12.09	29.95	352.21	139.89	360.53	20.11	11.06	10.47	1002.00	CMSDAY
Mean	1.18	0.50	0.26	0.23	0.39	1.00	11.36	4.66	11.63	0.65	0.40	0.34	2.75	CMS
Max	5.82	2.67	0.65	0.34	1.69	9.37	41.05	66.54	51.35	1.37	0.43	0.58	66.54	CMS
Min	0.26	0.26	0.20	0.20	0.20	0.23	0.82	0.53	0.58	0.43	0.37	0.29	0.20	CMS
Runoff	3.06	1.33	0.67	0.61	1.05	2.59	30.43	12.09	31.15	1.74	0.96	0.91	86.57	MCM

Momentary Peak 135.00 CMS. at 36.60 m. (MSL.) at 06.00 Hours , on Nov 23 , 2014

Runoff Yield 23.26 Liters/Second/Square KM. Momentary Peak Yield 1139.721 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

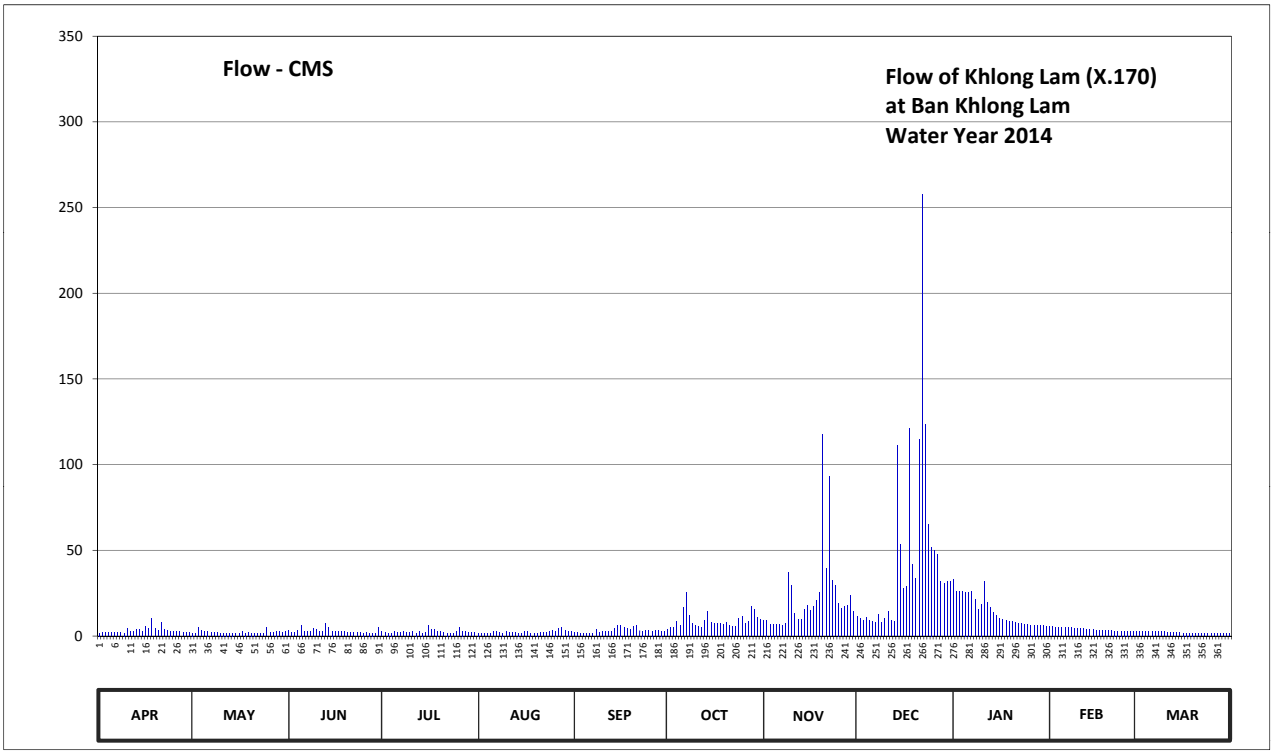
Location : on left bank at the bridge.

	Ban Khlong Lam	**Amphoe** Srinagarindra	**Changwat** Phatthalung
Drainge Area	258 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 21 meters from the top staff gage.	**Elevation**	+27.274 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.18	20.18	20.24	20.22	20.18	20.20	20.27	20.47	20.56	21.20	20.33	20.22	
2	20.20	20.17	20.20	20.20	20.17	20.19	20.31	20.48	20.51	21.00	20.33	20.21	
3	20.19	20.32	20.19	20.18	20.16	20.17	20.30	20.39	20.47	21.00	20.32	20.21	
4	20.19	20.24	20.24	20.18	20.16	20.17	20.44	20.39	20.53	21.00	20.31	20.21	
5	20.19	20.22	20.37	20.22	20.16	20.16	20.35	20.39	20.47	20.99	20.32	20.21	
6	20.20	20.23	20.21	20.20	20.22	20.16	20.72	20.38	20.46	20.99	20.31	20.21	
7	20.19	20.20	20.21	20.20	20.21	20.16	20.98	20.36	20.43	21.00	20.30	20.21	
8	20.19	20.20	20.21	20.22	20.19	20.26	20.57	20.40	20.61	20.87	20.30	20.21	
9	20.18	20.19	20.29	20.20	20.18	20.20	20.41	21.29	20.42	20.69	20.29	20.21	
10	20.29	20.18	20.26	20.19	20.21	20.22	20.36	21.10	20.52	20.79	20.29	20.21	
11	20.21	20.18	20.21	20.21	20.20	20.22	20.33	20.62	20.66	21.16	20.28	20.20	
12	20.21	20.18	20.21	20.18	20.19	20.22	20.31	20.49	20.47	20.82	20.28	20.20	
13	20.27	20.18	20.40	20.21	20.19	20.21	20.47	20.50	20.45	20.72	20.26	20.19	
14	20.27	20.18	20.30	20.18	20.18	20.29	20.66	20.70	22.53	20.64	20.26	20.19	
15	20.21	20.17	20.23	20.19	20.17	20.35	20.43	20.76	21.62	20.57	20.26	20.19	
16	20.33	20.17	20.22	20.35	20.22	20.37	20.40	20.67	21.05	20.52	20.25	20.18	
17	20.29	20.21	20.22	20.27	20.21	20.31	20.41	20.74	21.09	20.49	20.25	20.18	
18	20.51	20.18	20.22	20.26	20.18	20.28	20.41	20.85	22.65	20.47	20.25	20.18	
19	20.28	20.19	20.21	20.23	20.17	20.27	20.39	20.99	21.40	20.46	20.25	20.18	
20	20.24	20.18	20.20	20.21	20.18	20.33	20.42	22.61	21.21	20.45	20.25	20.17	
21	20.42	20.18	20.20	20.20	20.20	20.35	20.37	21.35	22.57	20.43	20.24	20.17	
22	20.27	20.17	20.20	20.18	20.19	20.24	20.34	22.29	23.72	20.41	20.23	20.17	
23	20.24	20.17	20.19	20.18	20.19	20.23	20.33	21.18	22.67	20.41	20.23	20.17	
24	20.23	20.17	20.19	20.17	20.21	20.24	20.52	21.10	21.85	20.39	20.23	20.17	
25	20.22	20.30	20.18	20.22	20.25	20.25	20.55	20.81	21.59	20.38	20.23	20.17	
26	20.22	20.19	20.19	20.32	20.23	20.23	20.41	20.71	21.55	20.37	20.23	20.17	
27	20.21	20.19	20.18	20.23	20.28	20.24	20.46	20.74	21.51	20.37	20.23	20.17	
28	20.20	20.23	20.18	20.21	20.31	20.25	20.74	20.77	21.16	20.37	20.22	20.16	
29	20.19	20.22	20.17	20.20	20.25	20.23	20.69	20.94	21.13	20.36		20.16	
30	20.19	20.19	20.30	20.20	20.23	20.21	20.53	20.66	21.17	20.36		20.17	
31		20.21		20.20	20.21		20.49		21.16	20.34		20.17	
Mean	20.24	20.20	20.23	20.21	20.20	20.24	20.46	20.84	21.23	20.65	20.27	20.19	
Max	20.51	20.32	20.40	20.35	20.31	20.37	20.98	22.61	23.72	21.20	20.33	20.22	23.72
Min	20.18	20.17	20.17	20.17	20.16	20.16	20.27	20.36	20.42	20.34	20.22	20.16	20.16

Annual Max Momentary Gage Height	24.14	m. (MSL.) ,	at 13.00 Hours , on Dec 22 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	18.85	m. (MSL.)
Left Bank Elevation	28.85	m. (MSL.) ,			
Right Bank Elevation	29.06	m. (MSL.) ,	Drainage Area	258	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.76	1.76	3.20	2.70	1.76	2.20	3.95	9.05	11.44	33.00	5.45	2.70		
2	2.20	1.54	2.20	2.20	1.54	1.98	4.95	9.32	10.12	26.00	5.45	2.45		
3	1.98	5.20	1.98	1.76	1.32	1.54	4.70	6.95	9.05	26.00	5.20	2.45		
4	1.98	3.20	3.20	1.76	1.32	1.54	8.26	6.95	10.65	26.00	4.95	2.45		
5	1.98	2.70	6.45	2.70	1.32	1.32	5.95	6.95	9.05	25.65	5.20	2.45		
6	2.20	2.95	2.45	2.20	2.70	1.32	16.40	6.70	8.79	25.65	4.95	2.45		
7	1.98	2.20	2.45	2.20	2.45	1.32	25.30	6.20	8.00	26.00	4.70	2.45		
8	1.98	2.20	2.45	2.70	1.98	3.70	11.70	7.20	12.83	21.45	4.70	2.45		
9	1.76	1.98	4.45	2.20	1.76	2.20	7.47	36.83	7.73	15.43	4.45	2.45		
10	4.45	1.76	3.70	1.98	2.45	2.70	6.20	29.50	10.38	18.68	4.45	2.45		
11	2.45	1.76	2.45	2.45	2.20	2.70	5.45	13.15	14.45	31.60	4.20	2.20		
12	2.45	1.76	2.45	1.76	1.98	2.70	4.95	9.58	9.05	19.70	4.20	2.20		
13	3.95	1.76	7.20	2.45	1.98	2.45	9.05	9.85	8.53	16.40	3.70	1.98		
14	3.95	1.76	4.70	1.76	1.76	4.45	14.45	15.75	111.40	13.80	3.70	1.98		
15	2.45	1.54	2.95	1.98	1.54	5.95	8.00	17.70	53.45	11.70	3.70	1.98		
16	5.45	1.54	2.70	5.95	2.70	6.45	7.20	14.78	27.75	10.38	3.45	1.76		
17	4.45	2.45	2.70	3.95	2.45	4.95	7.47	17.05	29.15	9.58	3.45	1.76		
18	10.12	1.76	2.70	3.70	1.76	4.20	7.47	20.75	121.50	9.05	3.45	1.76		
19	4.20	1.98	2.45	2.95	1.54	3.95	6.95	25.65	41.50	8.79	3.45	1.76		
20	3.20	1.76	2.20	2.45	1.76	5.45	7.73	117.90	33.42	8.53	3.45	1.54		
21	7.73	1.76	2.20	2.20	2.20	5.95	6.45	39.38	114.60	8.00	3.20	1.54		
22	3.95	1.54	2.20	1.76	1.98	3.20	5.70	93.30	257.40	7.47	2.95	1.54		
23	3.20	1.54	1.98	1.76	1.98	2.95	5.45	32.30	123.30	7.47	2.95	1.54		
24	2.95	1.54	1.98	1.54	2.45	3.20	10.38	29.50	65.00	6.95	2.95	1.54		
25	2.70	4.70	1.76	2.70	3.45	3.45	11.17	19.35	51.95	6.70	2.95	1.54		
26	2.70	1.98	1.98	5.20	2.95	2.95	7.47	16.07	49.75	6.45	2.95	1.54		
27	2.45	1.98	1.76	2.95	4.20	3.20	8.79	17.05	47.55	6.45	2.95	1.54		
28	2.20	2.95	1.76	2.45	4.95	3.45	17.05	18.03	31.60	6.45	2.70	1.32		
29	1.98	2.70	1.54	2.20	3.45	2.95	15.43	23.90	30.55	6.20		1.32		
30	1.98	1.98	4.70	2.20	2.95	2.45	10.65	14.45	31.95	6.20		1.54		
31		2.45		2.20	2.45		9.58		31.60	5.70		1.54		
Total	96.78	68.68	86.89	78.96	71.28	96.82	281.72	691.14	1383.49	457.43	109.85	60.17	3483.21	CMSDAY
Mean	3.23	2.22	2.90	2.55	2.30	3.23	9.09	23.04	44.63	14.76	3.92	1.94	9.54	CMS
Max	10.12	5.20	7.20	5.95	4.95	6.45	25.30	117.90	257.40	33.00	5.45	2.70	257.40	CMS
Min	1.76	1.54	1.54	1.54	1.32	1.32	3.95	6.20	7.73	5.70	2.70	1.32	1.32	CMS
Runoff	8.36	5.93	7.51	6.82	6.16	8.37	24.34	59.72	119.53	39.52	9.49	5.20	300.95	MCM

Momentary Peak 337.00 CMS. at 24.14 m. (MSL.) at 13.00 Hours , on Dec 22 , 2014

Runoff Yield 36.99 Liters/Second/Square KM. Momentary Peak Yield 1306.202 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

Lat 06 - 49 - 26 N Long 100 - 26 - 17 E

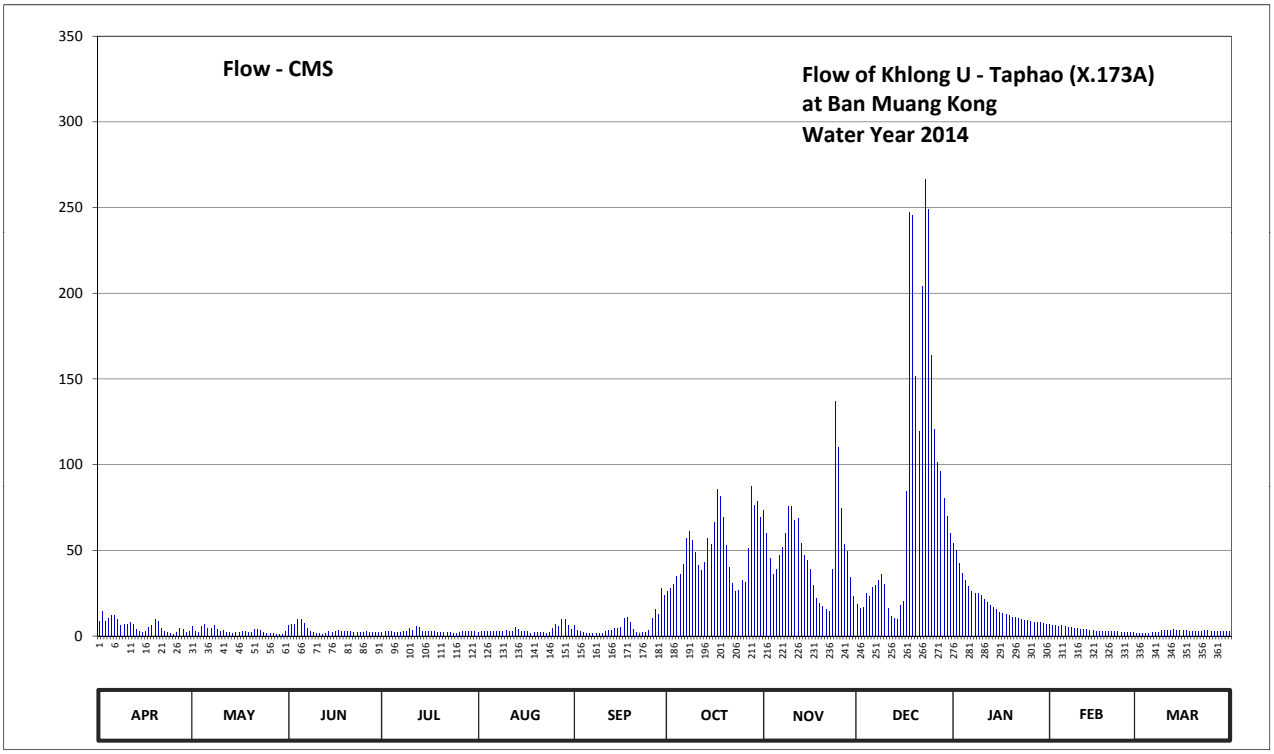
Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	1,063 sq.km.		
Type of Gage	Staff gage		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.38	10.06	10.12	9.70	9.70	10.13	11.85	14.03	11.23	13.48	10.17	9.62	
2	10.92	9.75	10.20	9.75	9.76	9.81	12.00	13.68	11.05	13.30	10.14	9.60	
3	10.38	9.64	10.16	9.75	9.77	9.74	12.13	13.10	11.12	12.93	10.11	9.60	
4	10.55	10.05	10.45	9.72	9.75	9.71	12.44	12.54	11.73	12.57	10.09	9.60	
5	10.69	10.18	10.46	9.71	9.74	9.59	12.55	12.73	11.62	12.31	10.11	9.60	
6	10.70	9.94	10.23	9.71	9.73	9.57	12.89	13.19	12.04	12.08	10.09	9.70	
7	10.50	9.96	9.95	9.71	9.75	9.57	13.59	13.39	12.09	11.86	10.02	9.65	
8	10.10	10.14	9.78	9.72	9.74	9.57	13.73	13.69	12.29	11.77	9.99	9.65	
9	10.15	9.90	9.70	9.72	9.78	9.58	13.54	14.09	12.55	11.77	9.96	9.85	
10	10.17	9.76	9.60	9.94	9.83	9.60	13.26	14.09	12.14	11.66	9.92	9.85	
11	10.27	9.82	9.60	9.84	9.76	9.74	12.87	13.89	11.06	11.46	9.90	9.83	
12	10.19	9.70	9.55	10.06	9.79	9.85	12.70	13.92	10.66	11.32	9.88	9.83	
13	9.91	9.66	9.63	10.03	10.02	9.83	12.98	13.47	10.51	11.19	9.86	9.88	
14	9.77	9.60	9.78	9.77	9.90	9.95	13.59	13.18	10.49	11.08	9.83	9.85	
15	9.65	9.66	9.70	9.76	9.80	9.95	13.46	13.04	11.17	10.98	9.82	9.85	
16	9.75	9.65	9.80	9.77	9.79	10.02	13.87	12.74	11.39	10.88	9.80	9.83	
17	10.00	9.73	9.83	9.72	9.75	10.54	14.30	12.11	14.27	10.81	9.80	9.83	
18	10.10	9.74	9.80	9.72	9.60	10.59	14.22	11.50	15.84	10.76	9.79	9.80	
19	10.44	9.65	9.80	9.71	9.66	10.31	13.94	11.29	15.83	10.68	9.76	9.80	
20	10.37	9.65	9.78	9.65	9.70	9.91	13.43	11.14	15.15	10.61	9.75	9.80	
21	9.93	9.90	9.75	9.68	9.71	9.71	12.80	11.02	14.79	10.57	9.74	9.78	
22	9.72	9.87	9.70	9.65	9.71	9.67	12.18	10.91	15.58	10.53	9.73	9.78	
23	9.66	9.82	9.70	9.65	9.63	9.65	11.82	12.72	15.95	10.48	9.73	9.85	
24	9.58	9.65	9.70	9.63	9.66	9.66	11.87	15.00	15.85	10.43	9.71	9.82	
25	9.55	9.60	9.70	9.63	9.96	9.81	12.29	14.67	15.26	10.39	9.69	9.80	
26	9.66	9.58	9.75	9.65	10.15	10.55	12.23	14.06	14.81	10.37	9.68	9.80	
27	9.95	9.57	9.70	9.75	10.06	10.98	13.35	13.45	14.55	10.32	9.67	9.80	
28	9.88	9.54	9.69	9.79	10.50	10.74	14.33	13.28	14.47	10.29	9.65	9.80	
29	9.69	9.54	9.69	9.75	10.46	11.98	14.10	12.43	14.19	10.27		9.78	
30	9.80	9.56	9.68	9.73	10.12	11.63	14.16	11.59	13.95	10.23		9.78	
31		9.72		9.74	9.88		13.93		13.69	10.19		9.78	
Mean	10.08	9.76	9.83	9.75	9.84	10.06	13.11	13.00	13.14	11.21	9.87	9.77	
Max	10.92	10.18	10.46	10.06	10.50	11.98	14.33	15.00	15.95	13.48	10.17	9.88	15.95
Min	9.55	9.54	9.55	9.63	9.60	9.57	11.82	10.91	10.49	10.19	9.65	9.60	9.54

Annual Max Momentary Gage Height	16.19	m. (MSL.) ,	at 22.00 Hours , on Dec 18 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	9.03	m. (MSL.)
Left Bank Elevation	16.89	m. (MSL.) ,			
Right Bank Elevation	16.93	m. (MSL.) ,	Drainage Area	1063	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.80	5.60	6.20	2.25	2.25	6.30	26.13	73.27	18.37	54.00	6.70	1.65		
2	14.50	2.62	7.00	2.62	2.70	3.10	28.00	59.60	16.12	49.75	6.40	1.50		
3	8.80	1.80	6.60	2.62	2.78	2.55	29.95	45.50	17.00	42.28	6.10	1.50		
4	10.50	5.50	9.50	2.40	2.62	2.32	34.60	36.10	24.62	36.55	5.90	1.50		
5	11.90	6.80	9.60	2.32	2.55	1.43	36.25	38.95	23.25	32.65	6.10	1.50		
6	12.00	4.40	7.30	2.32	2.47	1.27	41.58	47.30	28.60	29.20	5.90	2.25		
7	10.00	4.60	4.50	2.32	2.62	1.27	56.75	51.78	29.35	26.25	5.20	1.87		
8	6.00	6.40	2.85	2.40	2.55	1.27	61.22	59.92	32.35	25.13	4.90	1.87		
9	6.50	4.00	2.25	2.40	2.85	1.35	55.50	75.83	36.25	25.13	4.60	3.50		
10	6.70	2.70	1.50	4.40	3.30	1.50	48.85	75.83	30.10	23.75	4.20	3.50		
11	7.70	3.20	1.50	3.40	2.70	2.55	41.22	67.33	16.25	21.25	4.00	3.30		
12	6.90	2.25	1.13	5.60	2.92	3.50	38.50	68.60	11.60	19.50	3.80	3.30		
13	4.10	1.95	1.73	5.30	5.20	3.30	43.15	53.75	10.10	17.87	3.60	3.80		
14	2.78	1.50	2.85	2.78	4.00	4.50	56.75	47.10	9.90	16.50	3.30	3.50		
15	1.87	1.95	2.25	2.70	3.00	4.50	53.50	44.30	17.62	15.25	3.20	3.50		
16	2.62	1.87	3.00	2.78	2.92	5.20	66.47	39.10	20.38	14.00	3.00	3.30		
17	5.00	2.47	3.30	2.40	2.62	10.40	85.75	29.65	84.18	13.13	3.00	3.30		
18	6.00	2.55	3.00	2.40	1.50	10.90	81.55	21.75	247.00	12.60	2.92	3.00		
19	9.40	1.87	3.00	2.32	1.95	8.10	69.45	19.12	245.25	11.80	2.70	3.00		
20	8.70	1.87	2.85	1.87	2.25	4.10	52.75	17.25	151.62	11.10	2.62	3.00		
21	4.30	4.00	2.62	2.10	2.32	2.32	40.00	15.75	119.25	10.70	2.55	2.85		
22	2.40	3.70	2.25	1.87	2.32	2.03	30.70	14.37	204.30	10.30	2.47	2.85		
23	1.95	3.20	2.25	1.87	1.73	1.87	25.75	38.80	266.25	9.80	2.47	3.50		
24	1.35	1.87	2.25	1.73	1.95	1.95	26.37	137.00	248.75	9.30	2.32	3.20		
25	1.13	1.50	2.25	1.73	4.60	3.10	32.35	110.25	163.55	8.90	2.17	3.00		
26	1.95	1.35	2.62	1.87	6.50	10.50	31.45	74.55	120.85	8.70	2.10	3.00		
27	4.50	1.27	2.25	2.62	5.60	15.25	50.88	53.25	101.50	8.20	2.03	3.00		
28	3.80	1.05	2.17	2.92	10.00	12.40	87.33	49.30	95.90	7.90	1.87	3.00		
29	2.17	1.05	2.17	2.62	9.60	27.75	76.25	34.45	80.07	7.70		2.85		
30	3.00	1.20	2.10	2.47	6.20	23.38	78.80	22.88	69.87	7.30		2.85		
31		2.40		2.55	3.80		69.03		59.92	6.90		2.85		
Total	177.32	88.49	104.84	81.95	110.37	179.96	1556.83	1522.63	2600.12	593.39	106.12	86.59	7208.61	CMSDAY
Mean	5.91	2.85	3.49	2.64	3.56	6.00	50.22	50.75	83.87	19.14	3.79	2.79	19.75	CMS
Max	14.50	6.80	9.60	5.60	10.00	27.75	87.33	137.00	266.25	54.00	6.70	3.80	266.25	CMS
Min	1.13	1.05	1.13	1.73	1.50	1.27	25.75	14.37	9.90	6.90	1.87	1.50	1.05	CMS
Runoff	15.32	7.65	9.06	7.08	9.54	15.55	134.51	131.56	224.65	51.27	9.17	7.48	622.82	MCM

Momentary Peak 317.75 CMS. at 16.19 m. (MSL.) at 22.00 Hours , on Dec 18 , 2014

Runoff Yield 18.58 Liters/Second/Square KM. Momentary Peak Yield 298.665 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Wa at Ban Khlong Wa , Songkhla (X.174)

Lat 06 - 59 - 42 N Long 100 - 29 - 05 E

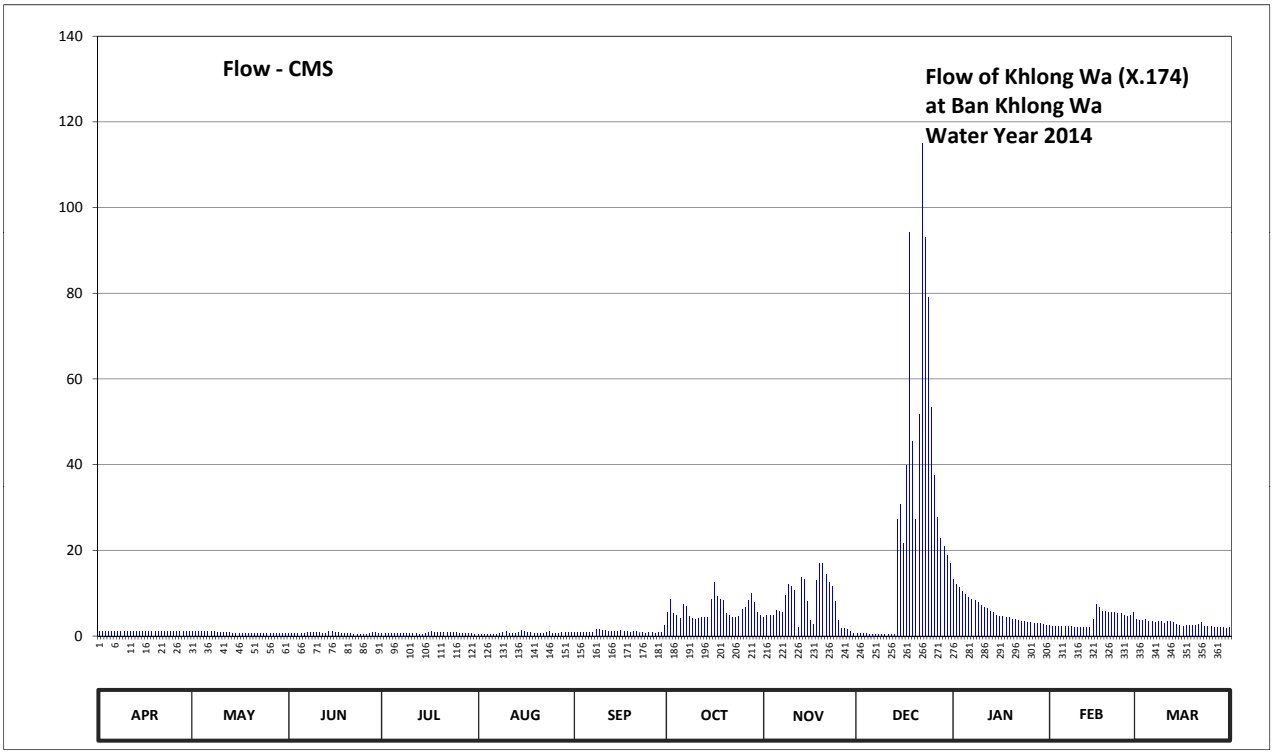
Location : on right bank at the bridge.

	Ban Khlong Wa	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge Area	116 sq.km.		
Type of Gage	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**	+10.954 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
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 25 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.26	4.26	4.20	4.20	4.19	4.24	4.61	4.55	4.62	4.97	4.41	4.52	
2	4.26	4.26	4.20	4.20	4.19	4.24	4.77	4.57	4.63	4.92	4.40	4.50	
3	4.26	4.26	4.20	4.20	4.18	4.24	4.60	4.57	4.62	4.89	4.40	4.50	
4	4.26	4.26	4.20	4.20	4.18	4.23	4.58	4.57	4.60	4.85	4.40	4.52	
5	4.26	4.26	4.20	4.20	4.18	4.23	4.53	4.64	4.55	4.82	4.39	4.49	
6	4.26	4.26	4.20	4.20	4.18	4.23	4.71	4.63	4.56	4.79	4.39	4.48	
7	4.26	4.26	4.25	4.20	4.19	4.25	4.69	4.61	4.54	4.77	4.39	4.46	
8	4.26	4.26	4.25	4.20	4.21	4.33	4.56	4.81	4.54	4.76	4.39	4.48	
9	4.26	4.25	4.25	4.21	4.23	4.32	4.53	4.92	4.54	4.73	4.38	4.48	
10	4.26	4.25	4.25	4.22	4.27	4.30	4.52	4.90	4.53	4.70	4.38	4.44	
11	4.26	4.24	4.24	4.21	4.21	4.29	4.53	4.89	4.53	4.68	4.38	4.49	
12	4.26	4.24	4.22	4.20	4.20	4.28	4.55	4.76	4.52	4.66	4.37	4.48	
13	4.26	4.23	4.21	4.19	4.20	4.26	4.55	4.99	4.57	4.63	4.37	4.46	
14	4.26	4.22	4.26	4.19	4.23	4.26	4.54	4.98	5.49	4.61	4.37	4.43	
15	4.26	4.21	4.26	4.20	4.30	4.27	4.77	4.86	5.60	4.57	4.51	4.41	
16	4.26	4.21	4.25	4.24	4.27	4.29	4.94	4.81	5.30	4.56	4.71	4.40	
17	4.26	4.21	4.24	4.26	4.24	4.27	4.80	4.80	5.86	4.56	4.67	4.41	
18	4.26	4.21	4.22	4.25	4.23	4.27	4.77	4.96	7.05	4.55	4.63	4.41	
19	4.26	4.21	4.22	4.24	4.22	4.24	4.75	5.12	6.01	4.54	4.63	4.41	
20	4.26	4.21	4.20	4.24	4.22	4.26	4.60	5.12	5.49	4.52	4.62	4.42	
21	4.27	4.21	4.20	4.24	4.22	4.26	4.57	5.02	6.16	4.51	4.62	4.43	
22	4.27	4.21	4.19	4.23	4.22	4.25	4.55	4.94	7.43	4.50	4.61	4.46	
23	4.26	4.20	4.19	4.23	4.24	4.23	4.55	4.90	7.03	4.49	4.60	4.40	
24	4.26	4.20	4.19	4.23	4.26	4.21	4.56	4.86	6.75	4.48	4.60	4.40	
25	4.26	4.20	4.19	4.23	4.22	4.24	4.65	4.81	6.20	4.47	4.58	4.40	
26	4.26	4.20	4.19	4.22	4.22	4.25	4.68	4.74	5.80	4.46	4.56	4.38	
27	4.26	4.20	4.20	4.22	4.22	4.22	4.75	4.74	5.50	4.45	4.58	4.38	
28	4.26	4.20	4.25	4.21	4.23	4.24	4.83	4.73	5.34	4.45	4.62	4.38	
29	4.26	4.20	4.23	4.20	4.23	4.25	4.73	4.68	5.27	4.44		4.37	
30	4.26	4.20	4.20	4.20	4.24	4.42	4.62	4.63	5.20	4.43		4.35	
31		4.20		4.19	4.25		4.57		5.12	4.42		4.36	
Mean	4.26	4.23	4.22	4.21	4.22	4.26	4.64	4.8	5.35	4.62	4.5	4.44	
Max	4.27	4.26	4.26	4.26	4.3	4.42	4.94	5.12	7.43	4.97	4.71	4.52	7.43
Min	4.26	4.2	4.19	4.19	4.18	4.21	4.52	4.55	4.52	4.42	4.37	4.35	4.18

Annual Max Momentary Gage Height	7.82	m. (MSL.) ,	at 13.00 Hours , on Dec 22 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	3.76	m. (MSL.)
Left Bank Elevation	11.40	m. (MSL.) ,			
Right Bank Elevation	11.32	m. (MSL.) ,	Drainage Area	116	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.98	0.98	0.50	0.50	0.45	0.82	5.40	4.40	0.62	13.11	2.43	3.92		
2	0.98	0.98	0.50	0.50	0.45	0.82	8.60	4.72	0.68	11.96	2.30	3.60		
3	0.98	0.98	0.50	0.50	0.40	0.82	5.20	4.72	0.62	11.27	2.30	3.60		
4	0.98	0.98	0.50	0.50	0.40	0.74	4.88	4.72	0.50	10.35	2.30	3.92		
5	0.98	0.98	0.50	0.50	0.40	0.74	4.08	6.00	0.45	9.66	2.20	3.47		
6	0.98	0.98	0.50	0.50	0.40	0.74	7.40	5.80	0.46	9.00	2.20	3.34		
7	0.98	0.98	0.90	0.50	0.45	0.90	7.00	5.40	0.44	8.60	2.20	3.08		
8	0.98	0.98	0.90	0.50	0.58	1.60	4.56	9.43	0.44	8.40	2.20	3.34		
9	0.98	0.90	0.90	0.58	0.74	1.50	4.08	11.96	0.44	7.80	2.10	3.34		
10	0.98	0.90	0.90	0.66	1.06	1.30	3.92	11.50	0.43	7.20	2.10	2.82		
11	0.98	0.82	0.82	0.58	0.58	1.22	4.08	10.63	0.43	6.80	2.10	3.47		
12	0.98	0.82	0.66	0.50	0.50	1.14	4.40	2.12	0.42	6.40	2.00	3.34		
13	0.98	0.74	0.58	0.45	0.50	0.98	4.40	13.57	0.47	5.80	2.00	3.08		
14	0.98	0.66	0.98	0.45	0.74	0.98	4.24	13.34	27.29	5.40	2.00	2.69		
15	0.98	0.58	0.98	0.50	1.30	1.06	8.60	8.02	30.80	4.72	3.76	2.43		
16	0.98	0.58	0.90	0.82	1.06	1.22	12.42	3.67	21.70	4.56	7.40	2.30		
17	0.98	0.58	0.82	0.98	0.82	1.06	9.20	2.80	39.76	4.56	6.60	2.43		
18	0.98	0.58	0.66	0.90	0.74	1.06	8.60	12.88	94.15	4.40	5.80	2.43		
19	0.98	0.58	0.66	0.82	0.66	0.82	8.20	16.82	45.42	4.24	5.80	2.43		
20	0.98	0.58	0.50	0.82	0.66	0.98	5.20	16.82	27.29	3.92	5.60	2.56		
21	1.06	0.58	0.50	0.82	0.66	0.98	4.72	14.30	51.72	3.76	5.60	2.69		
22	1.06	0.58	0.45	0.74	0.66	0.90	4.40	12.42	115.01	3.60	5.40	3.08		
23	0.98	0.50	0.45	0.74	0.82	0.74	4.40	11.50	93.09	3.47	5.20	2.30		
24	0.98	0.50	0.45	0.74	0.98	0.58	4.56	8.02	79.00	3.34	5.20	2.30		
25	0.98	0.50	0.45	0.74	0.66	0.82	6.20	3.67	53.40	3.21	4.88	2.30		
26	0.98	0.50	0.45	0.66	0.66	0.90	6.80	1.78	37.60	3.08	4.56	2.10		
27	0.98	0.50	0.50	0.66	0.66	0.66	8.20	1.78	27.60	2.95	4.88	2.10		
28	0.98	0.50	0.90	0.58	0.74	0.82	9.89	1.61	22.82	2.95	5.60	2.10		
29	0.98	0.50	0.74	0.50	0.74	0.90	7.80	0.98	20.86	2.82		2.00		
30	0.98	0.50	0.50	0.50	0.82	2.56	5.60	0.68	18.90	2.69		1.80		
31		0.50		0.45	0.90		4.72		16.82	2.56		1.90		
Total	29.56	21.82	19.55	19.19	21.19	30.36	191.75	226.06	829.63	182.58	106.71	86.26	1764.66	CMSDAY
Mean	0.99	0.70	0.65	0.62	0.68	1.01	6.19	7.54	26.76	5.89	3.81	2.78	4.83	CMS
Max	1.06	0.98	0.98	0.98	1.30	2.56	12.42	16.82	115.01	13.11	7.40	3.92	115.01	CMS
Min	0.98	0.50	0.45	0.45	0.40	0.58	3.92	0.68	0.42	2.56	2.00	1.80	0.40	CMS
Runoff	2.55	1.89	1.69	1.66	1.83	2.62	16.57	19.53	71.68	15.78	9.22	7.45	152.47	MCM

Momentary Peak 137.46 CMS. at 7.82 m. (MSL.) at 13.00 Hours , on Dec 22 , 2014

Runoff Yield 41.68 Liters/Second/Square KM. Momentary Peak Yield 1185.000 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

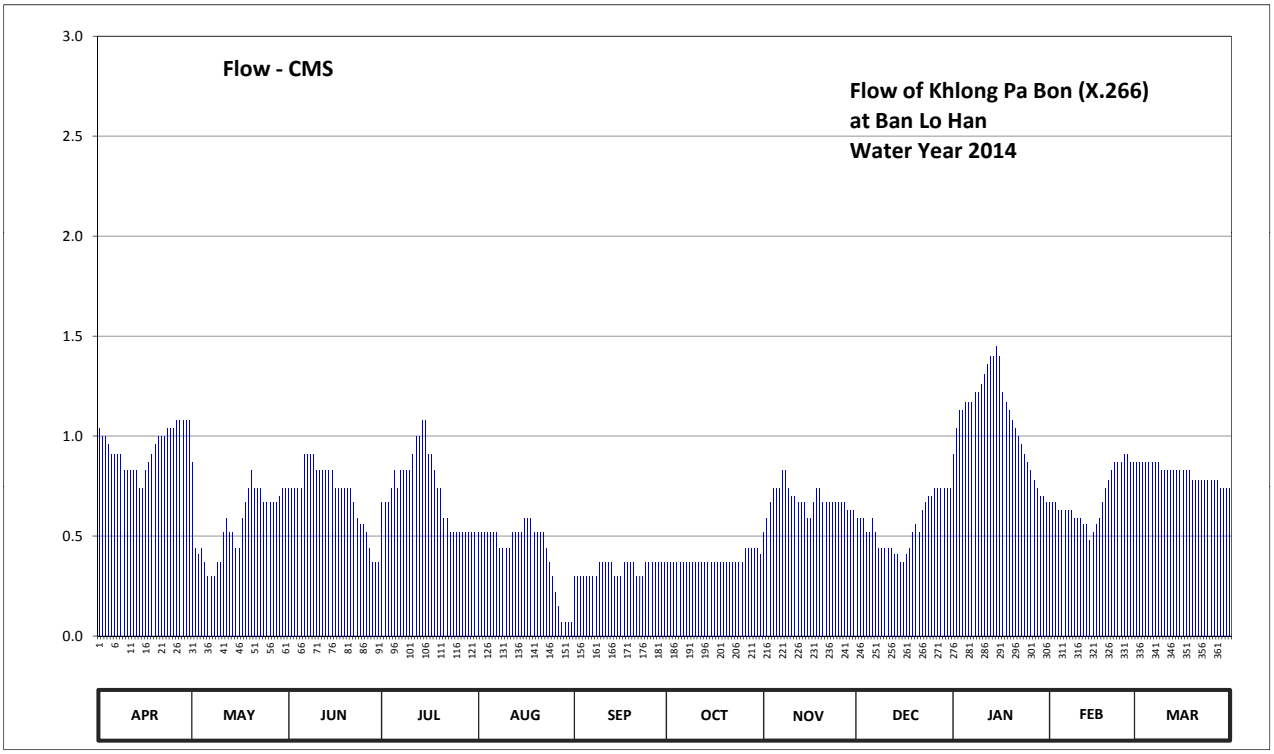
Location : on left bank at Ban Lo Han.

	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** +7.165 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.23	0.20	0.18	0.14	0.08	0.10	0.14	0.16	0.24	0.18	0.23	
2	0.26	0.12	0.20	0.18	0.14	0.08	0.10	0.16	0.16	0.27	0.18	0.23	
3	0.26	0.11	0.20	0.18	0.14	0.08	0.10	0.18	0.16	0.29	0.18	0.23	
4	0.25	0.12	0.20	0.20	0.14	0.08	0.10	0.20	0.14	0.29	0.17	0.23	
5	0.24	0.10	0.20	0.22	0.14	0.08	0.10	0.20	0.14	0.30	0.17	0.23	
6	0.24	0.08	0.24	0.20	0.14	0.08	0.10	0.20	0.16	0.30	0.17	0.23	
7	0.24	0.08	0.24	0.22	0.14	0.08	0.10	0.22	0.14	0.30	0.17	0.23	
8	0.24	0.08	0.24	0.22	0.12	0.08	0.10	0.22	0.12	0.31	0.17	0.23	
9	0.22	0.10	0.24	0.22	0.12	0.10	0.10	0.20	0.12	0.31	0.16	0.22	
10	0.22	0.10	0.22	0.22	0.12	0.10	0.10	0.19	0.12	0.32	0.16	0.22	
11	0.22	0.14	0.22	0.24	0.12	0.10	0.10	0.19	0.12	0.33	0.16	0.22	
12	0.22	0.16	0.22	0.26	0.14	0.10	0.10	0.18	0.12	0.34	0.15	0.22	
13	0.22	0.14	0.22	0.26	0.14	0.10	0.10	0.18	0.11	0.35	0.15	0.22	
14	0.20	0.14	0.22	0.28	0.14	0.08	0.10	0.18	0.11	0.35	0.13	0.22	
15	0.20	0.12	0.22	0.28	0.14	0.08	0.10	0.16	0.10	0.36	0.14	0.22	
16	0.22	0.12	0.20	0.24	0.16	0.08	0.10	0.16	0.10	0.35	0.15	0.22	
17	0.23	0.16	0.20	0.24	0.16	0.10	0.10	0.18	0.11	0.31	0.16	0.22	
18	0.24	0.18	0.20	0.22	0.16	0.10	0.10	0.20	0.12	0.30	0.18	0.22	
19	0.25	0.20	0.20	0.20	0.14	0.10	0.10	0.20	0.14	0.29	0.20	0.21	
20	0.26	0.22	0.20	0.20	0.14	0.10	0.10	0.18	0.15	0.28	0.21	0.21	
21	0.26	0.20	0.20	0.16	0.14	0.08	0.10	0.18	0.14	0.27	0.22	0.21	
22	0.26	0.20	0.18	0.16	0.14	0.08	0.10	0.18	0.17	0.26	0.23	0.21	
23	0.27	0.20	0.16	0.14	0.12	0.08	0.10	0.18	0.18	0.25	0.23	0.21	
24	0.27	0.18	0.15	0.14	0.10	0.10	0.10	0.18	0.19	0.24	0.23	0.21	
25	0.27	0.18	0.15	0.14	0.08	0.10	0.10	0.18	0.19	0.23	0.24	0.21	
26	0.28	0.18	0.14	0.14	0.06	0.10	0.12	0.18	0.20	0.22	0.24	0.21	
27	0.28	0.18	0.12	0.14	0.04	0.10	0.12	0.18	0.20	0.21	0.23	0.21	
28	0.28	0.18	0.10	0.14	0.02	0.10	0.12	0.17	0.20	0.20	0.23	0.20	
29	0.28	0.19	0.10	0.14	0.02	0.10	0.12	0.17	0.20	0.19		0.20	
30	0.28	0.20	0.10	0.14	0.02	0.10	0.12	0.17	0.20	0.19		0.20	
31		0.20		0.14	0.02		0.11		0.20	0.18		0.20	
Mean	0.25	0.15	0.19	0.19	0.11	0.09	0.10	0.18	0.15	0.28	0.19	0.22	
Max	0.28	0.23	0.24	0.28	0.16	0.10	0.12	0.22	0.20	0.36	0.24	0.23	0.36
Min	0.20	0.08	0.10	0.14	0.02	0.08	0.10	0.14	0.10	0.18	0.13	0.20	0.02

Annual Max Momentary Gage Height	0.36	m. (A.D.) ,	at 06.00 Hours , on Jan 15 , 2014			
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.09	m. (A.D.)	
Left Bank Elevation	7.11	m. (A.D.) ,				
Right Bank Elevation	7.10	m. (A.D.) ,	Drainage Area	38	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.04	0.87	0.74	0.67	0.52	0.30	0.37	0.52	0.59	0.91	0.67	0.87		
2	1.00	0.44	0.74	0.67	0.52	0.30	0.37	0.59	0.59	1.04	0.67	0.87		
3	1.00	0.41	0.74	0.67	0.52	0.30	0.37	0.67	0.59	1.13	0.67	0.87		
4	0.96	0.44	0.74	0.74	0.52	0.30	0.37	0.74	0.52	1.13	0.63	0.87		
5	0.91	0.37	0.74	0.83	0.52	0.30	0.37	0.74	0.52	1.17	0.63	0.87		
6	0.91	0.30	0.91	0.74	0.52	0.30	0.37	0.74	0.59	1.17	0.63	0.87		
7	0.91	0.30	0.91	0.83	0.52	0.30	0.37	0.83	0.52	1.17	0.63	0.87		
8	0.91	0.30	0.91	0.83	0.44	0.30	0.37	0.83	0.44	1.22	0.63	0.87		
9	0.83	0.37	0.91	0.83	0.44	0.37	0.37	0.74	0.44	1.22	0.59	0.83		
10	0.83	0.37	0.83	0.83	0.44	0.37	0.37	0.70	0.44	1.26	0.59	0.83		
11	0.83	0.52	0.83	0.91	0.44	0.37	0.37	0.70	0.44	1.31	0.59	0.83		
12	0.83	0.59	0.83	1.00	0.52	0.37	0.37	0.67	0.44	1.36	0.56	0.83		
13	0.83	0.52	0.83	1.00	0.52	0.37	0.37	0.67	0.41	1.40	0.56	0.83		
14	0.74	0.52	0.83	1.08	0.52	0.30	0.37	0.67	0.41	1.40	0.48	0.83		
15	0.74	0.44	0.83	1.08	0.52	0.30	0.37	0.59	0.37	1.45	0.52	0.83		
16	0.83	0.44	0.74	0.91	0.59	0.30	0.37	0.59	0.37	1.40	0.56	0.83		
17	0.87	0.59	0.74	0.91	0.59	0.37	0.37	0.67	0.41	1.22	0.59	0.83		
18	0.91	0.67	0.74	0.83	0.59	0.37	0.37	0.74	0.44	1.17	0.67	0.83		
19	0.96	0.74	0.74	0.74	0.52	0.37	0.37	0.74	0.52	1.13	0.74	0.78		
20	1.00	0.83	0.74	0.74	0.52	0.37	0.37	0.67	0.56	1.08	0.78	0.78		
21	1.00	0.74	0.74	0.59	0.52	0.30	0.37	0.67	0.52	1.04	0.83	0.78		
22	1.00	0.74	0.67	0.59	0.52	0.30	0.37	0.67	0.63	1.00	0.87	0.78		
23	1.04	0.74	0.59	0.52	0.44	0.30	0.37	0.67	0.67	0.96	0.87	0.78		
24	1.04	0.67	0.56	0.52	0.37	0.37	0.37	0.67	0.70	0.91	0.87	0.78		
25	1.04	0.67	0.56	0.52	0.30	0.37	0.37	0.67	0.70	0.87	0.91	0.78		
26	1.08	0.67	0.52	0.52	0.22	0.37	0.44	0.67	0.74	0.83	0.91	0.78		
27	1.08	0.67	0.44	0.52	0.15	0.37	0.44	0.67	0.74	0.78	0.87	0.78		
28	1.08	0.67	0.37	0.52	0.07	0.37	0.44	0.63	0.74	0.74	0.87	0.74		
29	1.08	0.70	0.37	0.52	0.07	0.37	0.44	0.63	0.74	0.70		0.74		
30	1.08	0.74	0.37	0.52	0.07	0.37	0.44	0.63	0.74	0.70		0.74		
31		0.74		0.52	0.07		0.41		0.74	0.67		0.74		
Total	28.36	17.78	21.21	22.70	13.09	10.12	11.86	20.39	17.27	33.54	19.39	25.24	240.95	CMSDAY
Mean	0.95	0.57	0.71	0.73	0.42	0.34	0.38	0.68	0.56	1.08	0.69	0.81	0.66	CMS
Max	1.08	0.87	0.91	1.08	0.59	0.37	0.44	0.83	0.74	1.45	0.91	0.87	1.45	CMS
Min	0.74	0.30	0.37	0.52	0.07	0.30	0.37	0.52	0.37	0.67	0.48	0.74	0.07	CMS
Runoff	2.45	1.54	1.83	1.96	1.13	0.87	1.03	1.76	1.49	2.90	1.68	2.18	20.82	MCM

Momentary Peak 1.45 CMS. at 0.36 m. (A.D.) at 06.00 Hours , on Jan 15 , 2014

Runoff Yield 17.37 Liters/Second/Square KM. Momentary Peak Yield 38.158 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

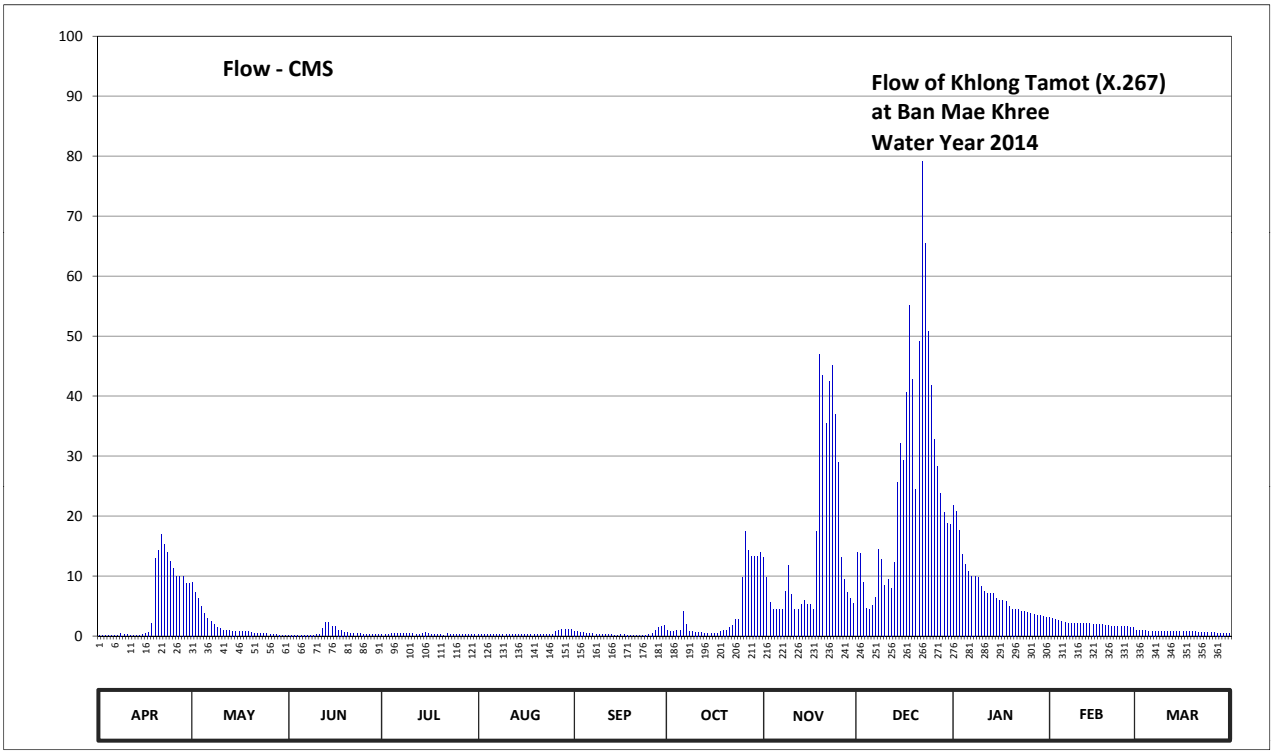
Location : on left bank at Ban Mae Khree.

	Ban Mae Khree	**Amphoe** Tamot	**Changwat** Phatthalung
Drainge Area	295 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the top staff gage.	**Elevation**	+27.878 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 Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.50	22.46	21.50	21.60	21.56	21.76	21.78	22.64	22.70	23.19	22.08	21.79	
2	21.50	22.38	21.51	21.60	21.55	21.75	21.75	22.49	22.69	23.13	22.06	21.78	
3	21.50	22.32	21.51	21.60	21.55	21.70	21.75	22.27	22.46	22.95	22.05	21.77	
4	21.50	22.23	21.51	21.65	21.55	21.70	21.80	22.20	22.21	22.68	22.03	21.77	
5	21.50	22.14	21.52	21.65	21.55	21.65	21.80	22.20	22.19	22.58	22.01	21.76	
6	21.50	22.06	21.52	21.65	21.55	21.65	22.16	22.20	22.24	22.53	22.00	21.76	
7	21.50	22.01	21.52	21.65	21.55	21.63	21.95	22.20	22.33	22.50	21.99	21.76	
8	21.66	21.94	21.52	21.65	21.55	21.60	21.75	22.39	22.74	22.50	21.99	21.75	
9	21.58	21.88	21.52	21.65	21.55	21.60	21.75	22.57	22.62	22.49	21.99	21.75	
10	21.55	21.83	21.53	21.65	21.55	21.60	21.70	22.36	22.44	22.43	21.98	21.75	
11	21.50	21.80	21.60	21.65	21.55	21.57	21.70	22.20	22.48	22.40	21.98	21.74	
12	21.50	21.79	21.83	21.60	21.60	21.55	21.68	22.20	22.42	22.37	21.97	21.74	
13	21.50	21.78	22.00	21.60	21.60	21.55	21.65	22.25	22.59	22.37	21.97	21.73	
14	21.50	21.76	22.00	21.65	21.60	21.50	21.65	22.30	23.38	22.37	21.97	21.73	
15	21.55	21.76	21.90	21.70	21.60	21.50	21.65	22.25	23.66	22.32	21.96	21.73	
16	21.63	21.75	21.90	21.64	21.60	21.55	21.65	22.25	23.55	22.30	21.96	21.72	
17	21.70	21.74	21.80	21.60	21.60	21.55	21.65	22.20	23.97	22.30	21.95	21.72	
18	21.98	21.74	21.80	21.58	21.60	21.52	21.72	22.94	24.38	22.28	21.95	21.72	
19	22.63	21.73	21.70	21.56	21.60	21.50	21.80	24.17	24.04	22.23	21.93	21.71	
20	22.73	21.70	21.70	21.53	21.60	21.50	21.80	24.06	23.32	22.20	21.92	21.71	
21	22.90	21.65	21.65	21.50	21.60	21.50	21.88	23.79	24.23	22.20	21.90	21.70	
22	22.80	21.65	21.65	21.65	21.60	21.50	21.92	24.03	24.85	22.19	21.90	21.69	
23	22.70	21.65	21.63	21.60	21.60	21.49	22.04	24.11	24.61	22.17	21.90	21.69	
24	22.60	21.65	21.62	21.60	21.60	21.52	22.05	23.84	24.27	22.16	21.90	21.69	
25	22.55	21.65	21.61	21.60	21.60	21.60	22.49	23.53	24.01	22.15	21.90	21.68	
26	22.50	21.60	21.60	21.60	21.72	21.66	22.94	22.64	23.69	22.13	21.89	21.67	
27	22.50	21.58	21.60	21.60	21.77	21.78	22.73	22.48	23.50	22.12	21.88	21.66	
28	22.50	21.54	21.60	21.60	21.82	21.86	22.65	22.38	23.29	22.11	21.88	21.66	
29	22.45	21.52	21.60	21.60	21.82	21.90	22.66	22.32	23.12	22.10		21.66	
30	22.45	21.50	21.60	21.53	21.81	21.91	22.66	22.26	23.02	22.09		21.65	
31		21.50		21.55	21.81		22.70		23.01	22.08		21.65	
Mean	21.98	21.82	21.65	21.61	21.62	21.62	22.00	22.72	23.23	22.37	21.96	21.72	
Max	22.90	22.46	22.00	21.70	21.82	21.91	22.94	24.17	24.85	23.19	22.08	21.79	24.85
Min	21.50	21.50	21.50	21.50	21.55	21.49	21.65	22.20	22.19	22.08	21.88	21.65	21.49

Annual Max Momentary Gage Height	24.94	m. (MSL.) ,	at 15.00 Hours , on Dec 22 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	20.24	m. (MSL.)
Left Bank Elevation	27.88	m. (MSL.) ,			
Right Bank Elevation	27.92	m. (MSL.) ,	Drainage Area	295	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	9.00	0.15	0.30	0.24	0.86	0.93	13.05	13.88	21.82	3.15	0.97		
2	0.15	7.20	0.17	0.30	0.22	0.83	0.83	9.75	13.74	20.77	2.92	0.93		
3	0.15	6.30	0.17	0.30	0.22	0.65	0.83	5.55	9.00	17.69	2.81	0.90		
4	0.15	4.95	0.17	0.47	0.22	0.65	1.00	4.50	4.65	13.60	2.59	0.90		
5	0.15	3.82	0.18	0.47	0.22	0.47	1.00	4.50	4.39	12.00	2.36	0.86		
6	0.15	2.92	0.18	0.47	0.22	0.47	4.05	4.50	5.10	10.75	2.25	0.86		
7	0.15	2.36	0.18	0.47	0.22	0.40	1.94	4.50	6.45	10.00	2.19	0.86		
8	0.51	1.88	0.18	0.47	0.22	0.30	0.83	7.35	14.43	10.00	2.19	0.83		
9	0.27	1.50	0.18	0.47	0.22	0.30	0.83	11.75	12.78	9.75	2.19	0.83		
10	0.22	1.19	0.20	0.47	0.22	0.30	0.65	6.90	8.50	8.25	2.12	0.83		
11	0.15	1.00	0.30	0.47	0.22	0.25	0.65	4.50	9.50	7.50	2.12	0.79		
12	0.15	0.97	1.19	0.30	0.30	0.22	0.58	4.50	8.00	7.05	2.06	0.79		
13	0.15	0.93	2.25	0.30	0.30	0.22	0.47	5.25	12.25	7.05	2.06	0.75		
14	0.15	0.86	2.25	0.47	0.30	0.15	0.47	6.00	25.60	7.05	2.06	0.75		
15	0.22	0.86	1.63	0.65	0.30	0.15	0.47	5.25	32.07	6.30	2.00	0.75		
16	0.40	0.83	1.63	0.44	0.30	0.22	0.47	5.25	29.37	6.00	2.00	0.72		
17	0.65	0.79	1.00	0.30	0.30	0.22	0.47	4.50	40.64	6.00	1.94	0.72		
18	2.12	0.79	1.00	0.27	0.30	0.18	0.72	17.53	55.20	5.70	1.94	0.72		
19	12.91	0.75	0.65	0.24	0.30	0.15	1.00	47.02	42.80	4.95	1.81	0.68		
20	14.29	0.65	0.65	0.20	0.30	0.15	1.00	43.45	24.40	4.50	1.75	0.68		
21	16.87	0.47	0.47	0.15	0.30	0.15	1.50	35.49	49.20	4.50	1.63	0.65		
22	15.25	0.47	0.47	0.47	0.30	0.15	1.75	42.48	79.06	4.39	1.63	0.62		
23	13.88	0.47	0.40	0.30	0.30	0.13	2.70	45.08	65.54	4.16	1.63	0.62		
24	12.50	0.47	0.37	0.30	0.30	0.18	2.81	36.90	50.80	4.05	1.63	0.62		
25	11.25	0.47	0.34	0.30	0.30	0.30	9.75	28.93	41.83	3.94	1.63	0.58		
26	10.00	0.30	0.30	0.30	0.72	0.51	17.53	13.05	32.86	3.71	1.56	0.55		
27	10.00	0.27	0.30	0.30	0.90	0.93	14.29	9.50	28.25	3.60	1.50	0.51		
28	10.00	0.21	0.30	0.30	1.13	1.38	13.19	7.20	23.80	3.49	1.50	0.51		
29	8.75	0.18	0.30	0.30	1.13	1.63	13.32	6.30	20.60	3.38		0.51		
30	8.75	0.15	0.30	0.20	1.06	1.69	13.32	5.40	18.85	3.26		0.47		
31		0.15		0.22	1.06		13.88		18.68	3.15		0.47		
Total	150.49	53.16	17.86	10.97	12.64	14.19	123.23	445.93	802.22	238.36	57.22	22.23	1948.50	CMSDAY
Mean	5.02	1.71	0.60	0.35	0.41	0.47	3.98	14.86	25.88	7.69	2.04	0.72	5.34	CMS
Max	16.87	9.00	2.25	0.65	1.13	1.69	17.53	47.02	79.06	21.82	3.15	0.97	79.06	CMS
Min	0.15	0.15	0.15	0.15	0.22	0.13	0.47	4.50	4.39	3.15	1.50	0.47	0.13	CMS
Runoff	13.00	4.59	1.54	0.95	1.09	1.23	10.65	38.53	69.31	20.59	4.94	1.92	168.35	MCM

Momentary Peak 85.03 CMS. at 24.94 m. (MSL.) at 15.00 Hours , on Dec 22 , 2014

Runoff Yield 18.10 Liters/Second/Square KM. Momentary Peak Yield 288.237 Liters/Second/Square KM.

WATER YEAR : 2014

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

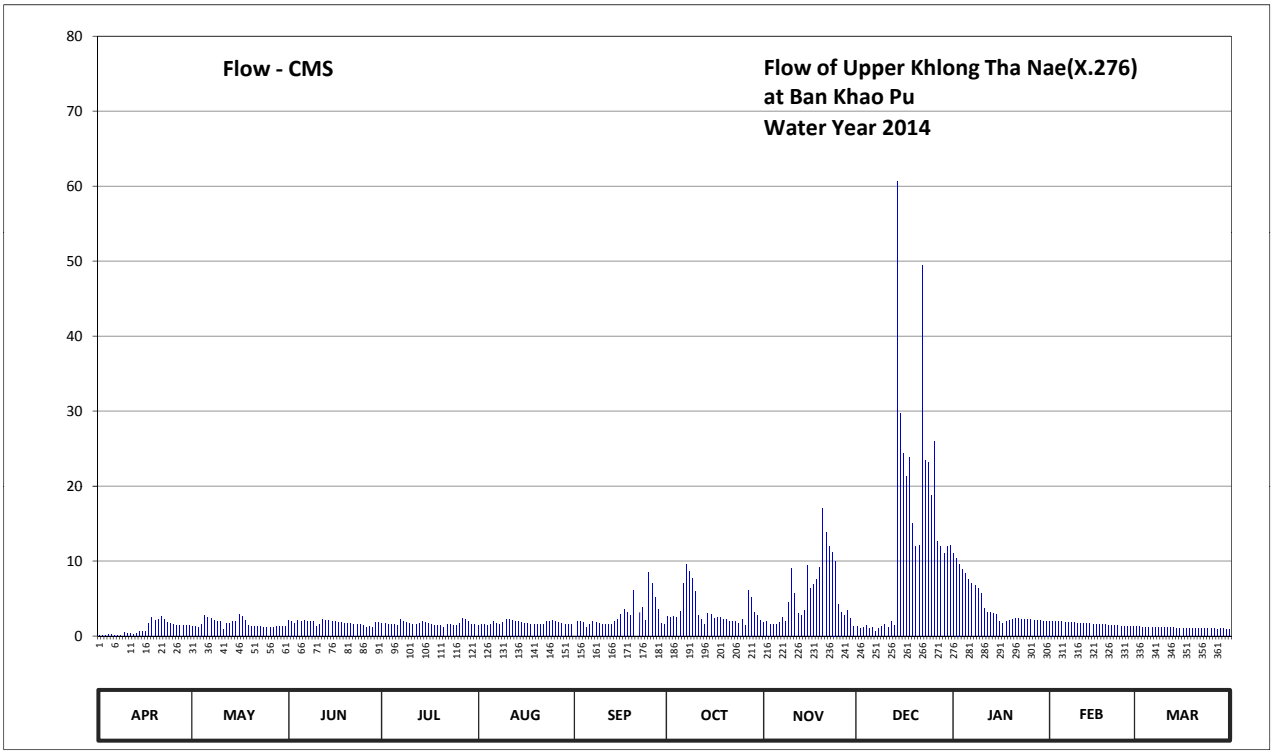
Location : on right bank at the bridge.

	Ban Khao Pu	**Amphoe** Si Banphot	**Changwat** Phatthalung
Drainge Area	47 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+55.054 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	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.19	50.46	50.61	50.54	50.49	37.96	50.73	50.57	50.45	51.65	50.60	50.45	
2	50.19	50.45	50.60	50.53	50.52	50.60	50.69	50.60	50.40	51.59	50.60	50.45	
3	50.19	50.43	50.55	50.50	50.50	50.59	50.73	50.52	50.43	51.51	50.59	50.44	
4	50.24	50.52	50.61	50.52	50.48	50.56	50.70	50.51	50.48	51.44	50.59	50.44	
5	50.22	50.75	50.58	50.52	50.51	50.42	50.87	50.50	50.39	51.38	50.58	50.44	
6	50.21	50.70	50.62	50.49	50.58	50.51	51.25	50.57	50.42	51.30	50.57	50.44	
7	50.20	50.66	50.59	50.65	50.54	50.59	51.50	50.69	50.31	51.25	50.57	50.43	
8	50.20	50.62	50.60	50.60	50.51	50.57	51.41	50.59	50.39	51.22	50.56	50.43	
9	50.28	50.59	50.59	50.57	50.57	50.53	51.32	51.00	50.45	51.19	50.56	50.43	
10	50.27	50.58	50.45	50.54	50.64	50.51	51.14	51.45	50.50	51.12	50.55	50.43	
11	50.25	50.37	50.51	50.51	50.65	50.52	50.76	51.12	50.42	50.92	50.54	50.42	
12	50.23	50.55	50.65	50.52	50.61	50.50	50.64	50.80	50.60	50.84	50.54	50.42	
13	50.26	50.54	50.62	50.53	50.60	50.50	50.51	50.76	50.47	50.82	50.53	50.42	
14	50.31	50.58	50.61	50.58	50.60	50.60	50.81	50.89	53.74	50.80	50.53	50.41	
15	50.33	50.58	50.59	50.57	50.56	50.63	50.77	51.49	52.76	50.79	50.52	50.41	
16	50.31	50.77	50.58	50.53	50.54	50.78	50.68	51.19	52.49	50.59	50.51	50.41	
17	50.53	50.72	50.57	50.51	50.53	50.91	50.70	51.24	52.34	50.54	50.51	50.40	
18	50.70	50.61	50.57	50.49	50.50	50.83	50.69	51.31	52.47	50.59	50.51	50.40	
19	50.62	50.49	50.55	50.49	50.52	50.76	50.63	51.46	51.97	50.61	50.50	50.40	
20	50.63	50.45	50.54	50.48	50.51	51.16	50.63	52.10	51.74	50.64	50.49	50.40	
21	50.72	50.45	50.53	50.43	50.50	38.19	50.59	51.89	51.76	50.66	50.49	50.40	
22	50.65	50.45	50.52	50.51	50.50	50.83	50.59	51.74	53.44	50.66	50.48	50.40	
23	50.57	50.45	50.51	50.50	50.59	50.93	50.58	51.67	52.45	50.65	50.47	50.39	
24	50.53	50.44	50.51	50.49	50.60	50.62	50.55	51.55	52.43	50.64	50.46	50.39	
25	50.50	50.44	50.49	50.47	50.61	51.40	50.64	50.97	52.21	50.64	50.46	50.39	
26	50.49	50.44	50.42	50.54	50.59	51.25	50.48	50.84	52.57	50.63	50.45	50.39	
27	50.47	50.44	50.45	50.66	50.56	51.06	51.16	50.74	51.81	50.62	50.45	50.38	
28	50.49	50.46	50.44	50.64	50.55	50.90	51.07	50.89	51.75	50.61	50.45	50.39	
29	50.49	50.46	50.57	50.58	50.51	50.53	50.83	50.67	51.65	50.61		50.39	
30	50.49	50.45	50.57	50.52	50.50	50.51	50.74	50.45	51.75	50.60		50.38	
31		50.45		50.50	50.50		50.61		51.76	50.60		50.38	
Mean	50.39	50.53	50.55	50.53	50.55	49.88	50.81	51.03	51.51	50.89	50.52	50.41	
Max	50.72	50.77	50.65	50.66	50.65	51.40	51.50	52.10	53.74	51.65	50.60	50.45	53.74
Min	50.19	50.37	50.42	50.43	50.48	37.96	50.48	50.45	50.31	50.54	50.45	50.38	37.96

Annual Max Momentary Gage Height	54.40	m. (MSL.) ,	at 12.00 Hours , on Dec 14 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	49.95	m. (MSL.)
Left Bank Elevation	57.02	m. (MSL.) ,			
Right Bank Elevation	57.02	m. (MSL.) ,	Drainage Area	47	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	1.30	2.05	1.70	1.45	0.00	2.65	1.85	1.25	11.00	2.00	1.25		
2	0.09	1.25	2.00	1.65	1.60	2.00	2.45	2.00	1.00	10.40	2.00	1.25		
3	0.09	1.15	1.75	1.50	1.50	1.95	2.65	1.60	1.15	9.60	1.95	1.20		
4	0.26	1.60	2.05	1.60	1.40	1.80	2.50	1.55	1.40	8.90	1.95	1.20		
5	0.18	2.75	1.90	1.60	1.55	1.10	3.35	1.50	0.95	8.30	1.90	1.20		
6	0.14	2.50	2.10	1.45	1.90	1.55	7.00	1.85	1.10	7.50	1.85	1.20		
7	0.10	2.30	1.95	2.25	1.70	1.95	9.50	2.45	0.55	7.00	1.85	1.15		
8	0.10	2.10	2.00	2.00	1.55	1.85	8.60	1.95	0.95	6.70	1.80	1.15		
9	0.42	1.95	1.95	1.85	1.85	1.65	7.70	4.50	1.25	6.40	1.80	1.15		
10	0.38	1.90	1.25	1.70	2.20	1.55	5.90	9.00	1.50	5.70	1.75	1.15		
11	0.30	0.85	1.55	1.55	2.25	1.60	2.80	5.70	1.10	3.70	1.70	1.10		
12	0.22	1.75	2.25	1.60	2.05	1.50	2.20	3.00	2.00	3.20	1.70	1.10		
13	0.34	1.70	2.10	1.65	2.00	1.50	1.55	2.80	1.35	3.10	1.65	1.10		
14	0.55	1.90	2.05	1.90	2.00	2.00	3.05	3.45	60.60	3.00	1.65	1.05		
15	0.65	1.90	1.95	1.85	1.80	2.15	2.85	9.40	29.70	2.95	1.60	1.05		
16	0.55	2.85	1.90	1.65	1.70	2.90	2.40	6.40	24.30	1.95	1.55	1.05		
17	1.65	2.60	1.85	1.55	1.65	3.60	2.50	6.90	21.30	1.70	1.55	1.00		
18	2.50	2.05	1.85	1.45	1.50	3.15	2.45	7.60	23.90	1.95	1.55	1.00		
19	2.10	1.45	1.75	1.45	1.60	2.80	2.15	9.10	15.05	2.05	1.50	1.00		
20	2.15	1.25	1.70	1.40	1.55	6.10	2.15	17.00	11.90	2.20	1.45	1.00		
21	2.60	1.25	1.65	1.15	1.50	0.00	1.95	13.85	12.10	2.30	1.45	1.00		
22	2.25	1.25	1.60	1.55	1.50	3.15	1.95	11.90	49.40	2.30	1.40	1.00		
23	1.85	1.25	1.55	1.50	1.95	3.80	1.90	11.20	23.50	2.25	1.35	0.95		
24	1.65	1.20	1.55	1.45	2.00	2.10	1.75	10.00	23.10	2.20	1.30	0.95		
25	1.50	1.20	1.45	1.35	2.05	8.50	2.20	4.20	18.70	2.20	1.30	0.95		
26	1.45	1.20	1.10	1.70	1.95	7.00	1.40	3.20	25.90	2.15	1.25	0.95		
27	1.35	1.20	1.25	2.30	1.80	5.10	6.10	2.70	12.65	2.10	1.25	0.90		
28	1.45	1.30	1.20	2.20	1.75	3.50	5.20	3.45	12.00	2.05	1.25	0.95		
29	1.45	1.30	1.85	1.90	1.55	1.65	3.15	2.35	11.00	2.05		0.95		
30	1.45	1.25	1.85	1.60	1.50	1.55	2.70	1.25	12.00	2.00		0.90		
31		1.25		1.50	1.50		2.05		12.10	2.00		0.90		
Total	29.86	50.75	53.00	51.55	53.85	79.05	106.75	163.70	414.75	130.90	45.30	32.75	1212.21	CMSDAY
Mean	1.00	1.64	1.77	1.66	1.74	2.63	3.44	5.46	13.38	4.22	1.62	1.06	3.32	CMS
Max	2.60	2.85	2.25	2.30	2.25	8.50	9.50	17.00	60.60	11.00	2.00	1.25	60.60	CMS
Min	0.09	0.85	1.10	1.15	1.40	0.00	1.40	1.25	0.55	1.70	1.25	0.90	0.00	CMS
Runoff	2.58	4.39	4.58	4.45	4.65	6.83	9.22	14.14	35.83	11.31	3.91	2.83	104.74	MCM

Momentary Peak 96.00 CMS. at 54.40 m. (MSL.) at 12.00 Hours , on Dec 14 , 2014

Runoff Yield 70.66 Liters/Second/Square KM. Momentary Peak Yield 2021.053 Liters/Second/Square KM.

WATER YEAR : 2014

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	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** +19.353 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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

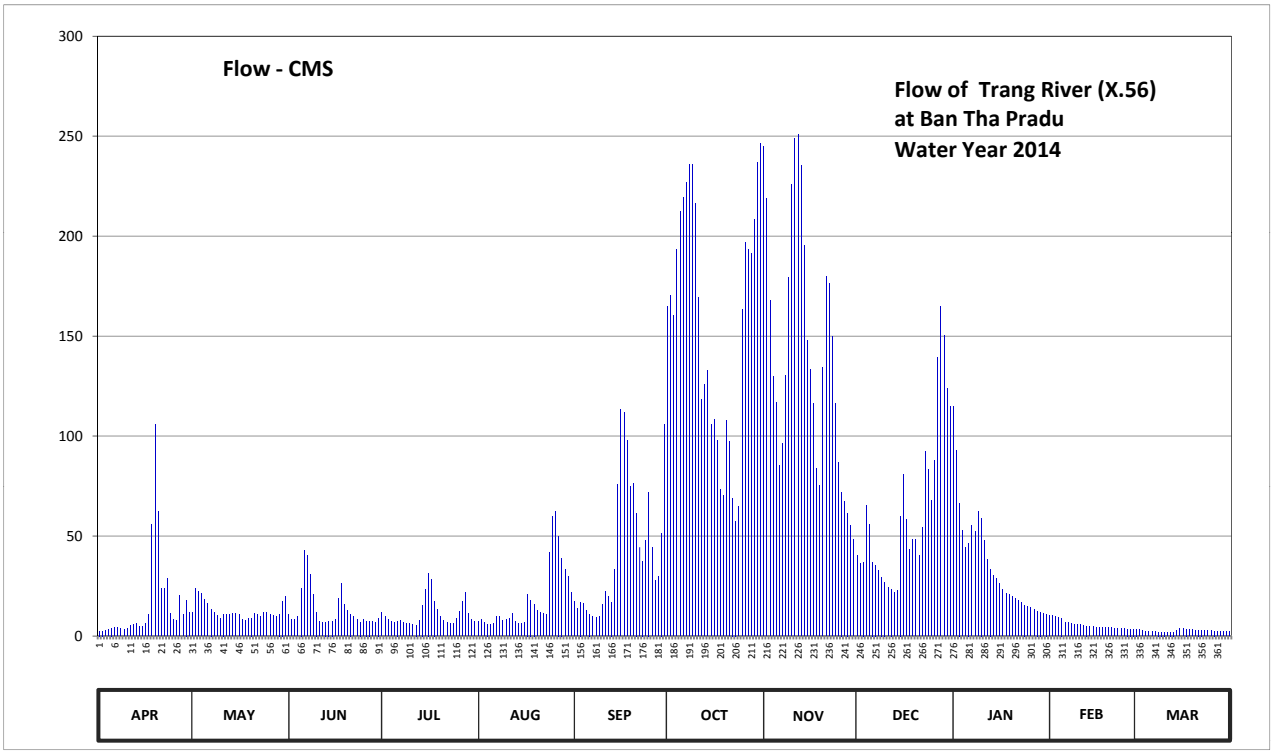
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.95	7.63	7.57	7.63	7.39	7.89	12.00	13.60	8.81	10.88	7.56	7.05	
2	6.95	8.15	7.44	7.51	7.45	7.74	12.11	13.08	8.65	10.37	7.54	7.03	
3	6.97	8.09	7.44	7.45	7.33	7.88	11.91	12.06	8.68	9.65	7.52	6.97	
4	7.02	8.05	7.52	7.38	7.28	7.86	12.57	11.22	9.61	9.21	7.50	6.94	
5	7.10	7.94	8.16	7.35	7.27	7.69	12.95	10.93	9.31	8.94	7.48	6.90	
6	7.15	7.85	8.89	7.40	7.30	7.59	13.09	10.18	8.68	9.01	7.35	6.90	
7	7.13	7.72	8.81	7.41	7.52	7.53	13.24	10.46	8.62	9.29	7.34	6.89	
8	7.06	7.63	8.43	7.35	7.53	7.49	13.42	11.24	8.51	9.19	7.31	6.88	
9	7.03	7.56	8.03	7.32	7.41	7.51	13.42	12.29	8.38	9.51	7.27	6.88	
10	7.06	7.47	7.64	7.30	7.44	7.83	13.03	13.22	8.28	9.41	7.25	6.88	
11	7.23	7.59	7.37	7.27	7.46	8.09	12.09	13.68	8.18	9.05	7.25	6.87	
12	7.27	7.57	7.33	7.24	7.60	7.99	10.96	13.72	8.14	8.74	7.23	6.88	
13	7.29	7.57	7.36	7.41	7.39	7.88	11.14	13.41	8.07	8.54	7.20	6.88	
14	7.18	7.61	7.40	7.82	7.30	8.53	11.29	12.61	8.11	8.41	7.18	6.99	
15	7.17	7.60	7.40	8.13	7.29	9.93	10.68	11.64	9.44	8.35	7.16	7.06	
16	7.29	7.58	7.45	8.46	7.33	10.85	10.73	11.31	10.05	8.26	7.14	7.06	
17	7.58	7.44	7.95	8.34	8.04	10.81	10.49	10.92	9.39	8.13	7.14	7.05	
18	9.31	7.41	8.26	7.90	7.92	10.49	9.85	10.14	8.90	8.05	7.14	7.03	
19	10.68	7.46	7.83	7.71	7.84	9.90	9.77	9.91	9.06	8.03	7.13	7.03	
20	9.51	7.48	7.69	7.53	7.68	9.94	10.72	11.33	9.07	7.99	7.11	6.99	
21	8.15	7.61	7.59	7.42	7.63	9.49	10.48	12.30	8.81	7.95	7.11	7.00	
22	8.15	7.57	7.51	7.35	7.61	8.94	9.73	12.23	9.26	7.91	7.08	7.00	
23	8.35	7.52	7.45	7.32	7.58	8.70	9.36	11.68	10.36	7.87	7.08	6.98	
24	7.61	7.62	7.36	7.30	8.86	9.05	9.59	10.92	10.12	7.82	7.06	6.97	
25	7.45	7.63	7.44	7.47	9.43	9.82	11.97	10.22	9.69	7.78	7.06	6.97	
26	7.42	7.58	7.40	7.66	9.52	8.94	12.64	9.82	10.25	7.75	7.05	6.95	
27	8.01	7.55	7.40	7.89	9.12	8.31	12.57	9.67	11.44	7.71	7.05	6.94	
28	7.58	7.53	7.37	8.07	8.76	8.39	12.53	9.49	12.00	7.67	7.05	6.92	
29	7.92	7.59	7.34	7.60	8.53	9.17	12.87	9.29	11.69	7.64		6.93	
30	7.62	7.90	7.48	7.44	8.39	10.68	13.44	9.07	11.09	7.61		6.93	
31		7.99		7.38	8.07		13.63		10.88	7.59		6.93	
Mean	7.64	7.66	7.68	7.57	7.85	8.76	11.75	11.39	9.40	8.53	7.23	6.96	
Max	10.68	8.15	8.89	8.46	9.52	10.85	13.63	13.72	12.00	10.88	7.56	7.06	13.72
Min	6.95	7.41	7.33	7.24	7.27	7.49	9.36	9.07	8.07	7.59	7.05	6.87	6.87

Annual Max Momentary Gage Height 13.75 m. (MSL.) , at 24.00 Hours , on Nov 11 , 2014

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 5.68 m. (MSL.)

Left Bank Elevation 19.84 m. (MSL.) ,

Right Bank Elevation 19.84 m. (MSL.) , Drainage Area 1801 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.56	11.81	10.69	11.81	7.37	17.25	164.75	244.75	40.31	114.75	10.50	3.50		
2	2.56	23.75	8.25	9.56	8.44	13.87	170.25	218.75	36.25	92.63	10.12	3.30		
3	2.74	22.25	8.25	8.44	6.62	17.00	160.36	167.75	37.00	66.56	9.75	2.74		
4	3.20	21.25	9.75	7.25	6.00	16.50	193.25	129.63	65.31	52.81	9.37	2.48		
5	4.00	18.50	24.00	6.87	5.88	12.94	212.25	116.94	55.94	44.37	9.00	2.13		
6	4.50	16.25	42.81	7.50	6.25	11.06	219.25	85.50	37.00	46.56	6.87	2.13		
7	4.30	13.50	40.31	7.69	9.75	9.94	226.75	96.38	35.50	55.31	6.75	2.04		
8	3.60	11.81	30.75	6.87	9.94	9.19	235.75	130.50	32.75	52.19	6.37	1.95		
9	3.30	10.50	20.75	6.50	7.69	9.56	235.75	179.25	29.50	62.19	5.88	1.95		
10	3.60	8.81	12.00	6.25	8.25	15.75	216.25	225.75	27.00	59.06	5.63	1.95		
11	5.38	11.06	7.12	5.88	8.62	22.25	169.25	248.75	24.50	47.81	5.63	1.86		
12	5.88	10.69	6.62	5.50	11.25	19.75	118.25	250.75	23.50	38.50	5.38	1.95		
13	6.13	10.69	7.00	7.69	7.37	17.00	126.13	235.25	21.75	33.50	5.00	1.95		
14	4.80	11.44	7.50	15.50	6.25	33.25	132.69	195.25	22.75	30.25	4.80	2.91		
15	4.70	11.25	7.50	23.25	6.13	76.13	106.00	148.00	60.00	28.75	4.60	3.60		
16	6.13	10.87	8.44	31.50	6.62	113.44	108.19	133.56	80.63	26.50	4.40	3.60		
17	10.87	8.25	18.75	28.50	21.00	111.69	97.69	116.50	58.44	23.25	4.40	3.50		
18	55.94	7.69	26.50	17.50	18.00	97.69	73.13	84.00	43.12	21.25	4.40	3.30		
19	106.00	8.62	15.75	13.31	16.00	75.00	70.31	75.37	48.13	20.75	4.30	3.30		
20	62.19	9.00	12.94	9.94	12.75	76.50	107.75	134.44	48.44	19.75	4.10	2.91		
21	23.75	11.44	11.06	7.87	11.81	61.56	97.25	179.75	40.31	18.75	4.10	3.00		
22	23.75	10.69	9.56	6.87	11.44	44.37	69.06	176.25	54.38	17.75	3.80	3.00		
23	28.75	9.75	8.44	6.50	10.87	37.50	57.50	149.75	92.25	16.75	3.80	2.83		
24	11.44	11.62	7.00	6.25	41.87	47.81	64.69	116.50	83.25	15.50	3.60	2.74		
25	8.44	11.81	8.25	8.81	59.69	72.00	163.29	87.00	67.81	14.63	3.60	2.74		
26	7.87	10.87	7.50	12.37	62.50	44.37	196.75	72.00	88.13	14.06	3.50	2.56		
27	20.25	10.31	7.50	17.25	50.00	27.75	193.25	67.19	139.25	13.31	3.50	2.48		
28	10.87	9.94	7.12	21.75	39.00	29.75	191.25	61.56	164.75	12.56	3.50	2.30		
29	18.00	11.06	6.75	11.25	33.25	51.56	208.25	55.31	150.19	12.00		2.39		
30	11.62	17.50	9.00	8.25	29.75	106.00	236.75	48.44	123.94	11.44		2.39		
31		19.75		7.25	21.75		246.25		114.75	11.06		2.39		
Total	467.12	392.73	407.86	351.73	562.11	1298.43	4868.29	4230.82	1946.83	1094.55	156.65	81.87	15858.99	CMSDAY
Mean	15.57	12.67	13.60	11.35	18.13	43.28	157.04	141.03	62.80	35.31	5.59	2.64	43.45	CMS
Max	106.00	23.75	42.81	31.50	62.50	113.44	246.25	250.75	164.75	114.75	10.50	3.60	250.75	CMS
Min	2.56	7.69	6.62	5.50	5.88	9.19	57.50	48.44	21.75	11.06	3.50	1.86	1.86	CMS
Runoff	40.36	33.93	35.24	30.39	48.57	112.18	420.62	365.54	168.21	94.57	13.54	7.07	1370.22	MCM

Momentary Peak 252.25 CMS. at 13.75 m. (MSL.) at 24.00 Hours , on Nov 11 , 2014

Runoff Yield 24.13 Liters/Second/Square KM. Momentary Peak Yield 140.061 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Palian at Ban Palian Nai , Trang (X.139A)

Lat 07 - 18 - 55 N Long 99 - 49 - 32 E

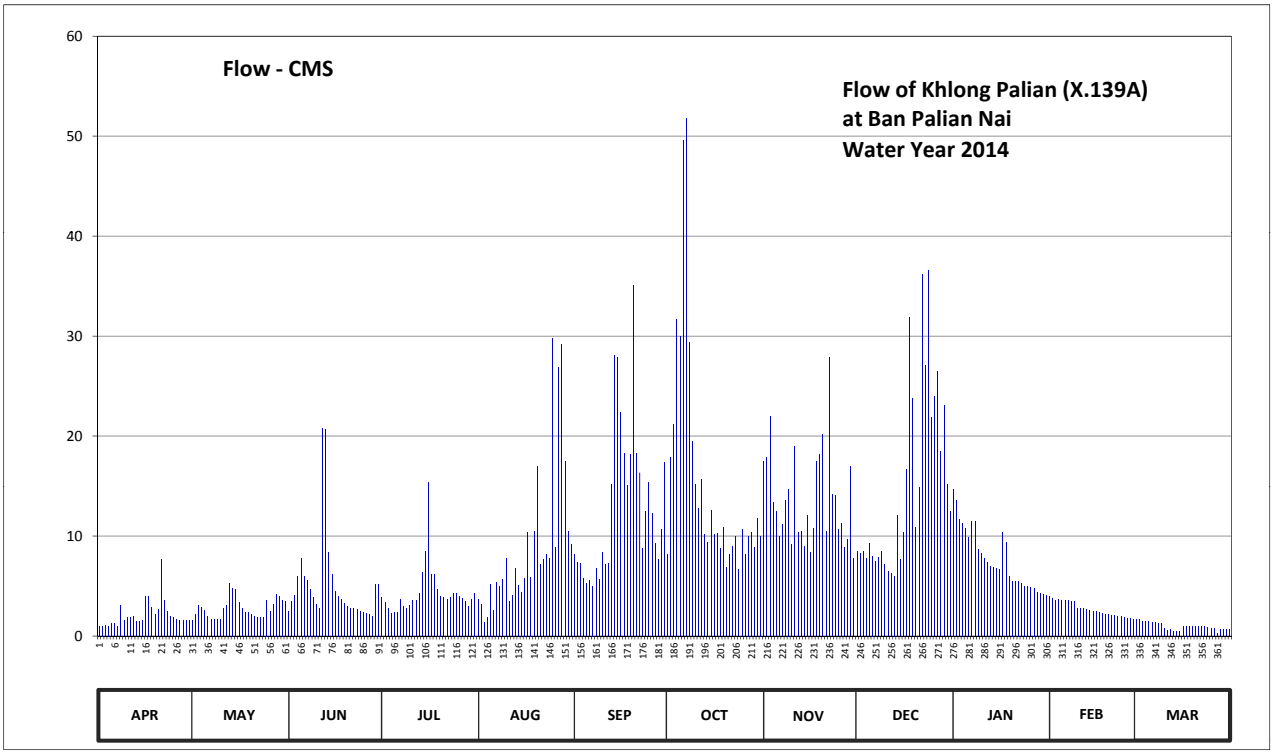
Location : on left bank at the bridge.

	Ban Palian Nai	**Amphoe** Palian	**Changwat** Trang
Drainge Area	160 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (A.D.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +6.999 m. (A.D.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (A.D.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.68	0.81	0.98	0.96	1.37	1.37	2.00	1.40	1.83	1.00	0.70	
2	0.60	0.77	0.93	0.92	0.89	1.31	2.02	2.02	1.38	1.76	0.97	0.70	
3	0.61	0.88	1.01	0.84	0.65	1.30	2.22	2.27	1.40	1.64	0.94	0.67	
4	0.60	0.86	1.20	0.78	0.72	1.18	2.76	1.75	1.34	1.62	0.96	0.66	
5	0.64	0.82	1.34	0.79	1.12	1.13	2.68	1.69	1.46	1.58	0.95	0.66	
6	0.63	0.74	1.20	0.80	0.82	1.16	3.57	1.52	1.36	1.51	0.95	0.65	
7	0.60	0.70	1.16	0.96	1.14	1.10	3.66	1.61	1.32	1.63	0.94	0.65	
8	0.88	0.70	1.07	0.87	1.10	1.26	2.65	1.76	1.35	1.63	0.93	0.64	
9	0.68	0.70	0.98	0.84	1.17	1.17	2.12	1.83	1.40	1.41	0.93	0.63	
10	0.72	0.69	0.90	0.88	1.34	1.39	1.86	1.45	1.29	1.38	0.84	0.55	
11	0.72	0.84	0.84	0.94	0.93	1.29	1.71	2.09	1.24	1.34	0.85	0.51	
12	0.73	0.88	2.20	0.94	1.01	1.30	1.89	1.55	1.22	1.31	0.84	0.53	
13	0.67	1.13	2.19	1.03	1.26	1.86	1.53	1.56	1.20	1.28	0.83	0.50	
14	0.66	1.08	1.39	1.23	1.11	2.59	1.47	1.44	1.67	1.27	0.82	0.50	
15	0.68	1.07	1.21	1.40	1.04	2.58	1.70	1.67	1.33	1.26	0.81	0.50	
16	1.00	0.92	1.05	1.87	1.18	2.29	1.53	1.39	1.55	1.25	0.81	0.60	
17	1.00	0.84	1.00	1.21	1.55	2.05	1.54	1.58	1.95	1.55	0.79	0.60	
18	0.86	0.80	0.96	1.21	1.19	1.85	1.42	2.00	2.77	1.47	0.78	0.59	
19	0.77	0.79	0.91	1.07	1.56	2.04	1.59	2.04	2.37	1.20	0.77	0.59	
20	0.83	0.77	0.87	1.00	1.97	2.92	1.27	2.16	1.59	1.15	0.76	0.59	
21	1.33	0.73	0.85	0.98	1.29	2.05	1.37	1.56	1.84	1.15	0.75	0.59	
22	0.94	0.72	0.84	0.96	1.33	1.93	1.44	2.58	2.97	1.15	0.75	0.60	
23	0.81	0.72	0.83	0.98	1.37	1.42	1.52	1.80	2.54	1.13	0.74	0.59	
24	0.73	0.72	0.81	1.03	1.34	1.69	1.25	1.79	2.99	1.10	0.73	0.58	
25	0.72	0.95	0.80	1.03	2.67	1.87	1.57	1.57	2.26	1.10	0.72	0.56	
26	0.70	0.81	0.78	0.99	1.43	1.68	1.37	1.62	2.38	1.09	0.71	0.55	
27	0.68	0.89	0.76	0.97	2.53	1.46	1.52	1.43	2.51	1.08	0.71	0.45	
28	0.68	1.02	0.74	0.93	2.64	1.33	1.55	1.49	2.06	1.04	0.70	0.53	
29	0.68	1.00	1.12	0.87	2.00	1.57	1.43	1.97	2.33	1.03		0.53	
30	0.68	0.95	1.12	0.96	1.56	1.99	1.65	1.34	1.86	1.02		0.53	
31		0.93		1.03	1.45		1.52		1.69	1.01		0.53	
Mean	0.75	0.84	1.06	1.01	1.37	1.67	1.83	1.75	1.81	1.32	0.83	0.58	
Max	1.33	1.13	2.20	1.87	2.67	2.92	3.66	2.58	2.99	1.83	1.00	0.70	3.66
Min	0.60	0.68	0.74	0.78	0.65	1.10	1.25	1.34	1.20	1.01	0.70	0.45	0.45

Annual Max Momentary Gage Height	3.90	m. (A.D.) ,	at 18.00 Hours , on Oct 7, 2014		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.14	m. (A.D.)
Left Bank Elevation	6.99	m. (A.D.) ,			
Right Bank Elevation	6.60	m. (A.D.) ,	Drainage Area	160	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	1.56	2.48	3.84	3.68	8.13	8.13	17.50	8.50	14.70	4.00	1.70		
2	1.00	2.19	3.44	3.36	3.12	7.37	17.83	17.83	8.25	13.56	3.76	1.70		
3	1.07	3.04	4.10	2.72	1.35	7.25	21.15	22.02	8.50	11.64	3.52	1.49		
4	1.00	2.88	6.00	2.26	1.84	5.80	31.66	13.40	7.75	11.32	3.68	1.42		
5	1.28	2.56	7.75	2.33	5.20	5.30	29.98	12.44	9.25	10.75	3.60	1.42		
6	1.21	1.98	6.00	2.40	2.56	5.60	49.61	10.00	8.00	9.88	3.60	1.35		
7	1.00	1.70	5.60	3.68	5.40	5.00	51.71	11.16	7.50	11.48	3.52	1.35		
8	3.04	1.70	4.70	2.96	5.00	6.75	29.35	13.56	7.88	11.48	3.44	1.28		
9	1.56	1.70	3.84	2.72	5.70	5.70	19.48	14.70	8.50	8.62	3.44	1.21		
10	1.84	1.63	3.20	3.04	7.75	8.38	15.19	9.13	7.12	8.25	2.72	0.75		
11	1.84	2.72	2.72	3.52	3.44	7.12	12.76	18.98	6.50	7.75	2.80	0.55		
12	1.91	3.04	20.80	3.52	4.10	7.25	15.68	10.37	6.25	7.37	2.72	0.65		
13	1.49	5.30	20.63	4.30	6.75	15.19	10.13	10.50	6.00	7.00	2.64	0.50		
14	1.42	4.80	8.38	6.37	5.10	28.10	9.38	9.00	12.12	6.87	2.56	0.50		
15	1.56	4.70	6.13	8.50	4.40	27.90	12.60	12.12	7.63	6.75	2.48	0.50		
16	4.00	3.36	4.50	15.36	5.80	22.37	10.13	8.38	10.37	6.62	2.48	1.00		
17	4.00	2.72	4.00	6.13	10.37	18.32	10.25	10.75	16.68	10.37	2.33	1.00		
18	2.88	2.40	3.68	6.13	5.90	15.03	8.75	17.50	31.87	9.38	2.26	0.95		
19	2.19	2.33	3.28	4.70	10.50	18.16	10.88	18.16	23.77	6.00	2.19	0.95		
20	2.64	2.19	2.96	4.00	17.01	35.08	6.87	20.14	10.88	5.50	2.12	0.95		
21	7.63	1.91	2.80	3.84	7.12	18.32	8.13	10.50	14.86	5.50	2.05	0.95		
22	3.52	1.84	2.72	3.68	7.63	16.34	9.00	27.90	36.15	5.50	2.05	1.00		
23	2.48	1.84	2.64	3.84	8.13	8.75	10.00	14.20	27.10	5.30	1.98	0.95		
24	1.91	1.84	2.48	4.30	7.75	12.44	6.62	14.04	36.59	5.00	1.91	0.90		
25	1.84	3.60	2.40	4.30	29.77	15.36	10.63	10.63	21.85	5.00	1.84	0.80		
26	1.70	2.48	2.26	3.92	8.87	12.28	8.13	11.32	23.95	4.90	1.77	0.75		
27	1.56	3.12	2.12	3.76	26.90	9.25	10.00	8.87	26.50	4.80	1.77	0.25		
28	1.56	4.20	1.98	3.44	29.14	7.63	10.37	9.63	18.49	4.40	1.70	0.65		
29	1.56	4.00	5.20	2.96	17.50	10.63	8.87	17.01	23.07	4.30		0.65		
30	1.56	3.60	5.20	3.68	10.50	17.33	11.80	7.75	15.19	4.20		0.65		
31		3.44		4.30	9.13		10.00		12.44	4.10		0.65		
Total	63.25	86.37	153.99	133.86	277.41	388.13	485.07	409.49	469.51	238.29	74.93	29.42	2809.72	CMSDAY
Mean	2.11	2.79	5.13	4.32	8.95	12.94	15.65	13.65	15.15	7.69	2.68	0.95	7.70	CMS
Max	7.63	5.30	20.80	15.36	29.77	35.08	51.71	27.90	36.59	14.70	4.00	1.70	51.71	CMS
Min	1.00	1.56	1.98	2.26	1.35	5.00	6.62	7.75	6.00	4.10	1.70	0.25	0.25	CMS
Runoff	5.47	7.46	13.31	11.57	23.97	33.53	41.91	35.38	40.57	20.59	6.47	2.54	242.76	MCM

Momentary Peak 57.50 CMS. at 3.90 m. (A.D.) at 18.00 Hours , on Oct 7 , 2014

Runoff Yield 48.11 Liters/Second/Square KM. Momentary Peak Yield 357.698 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

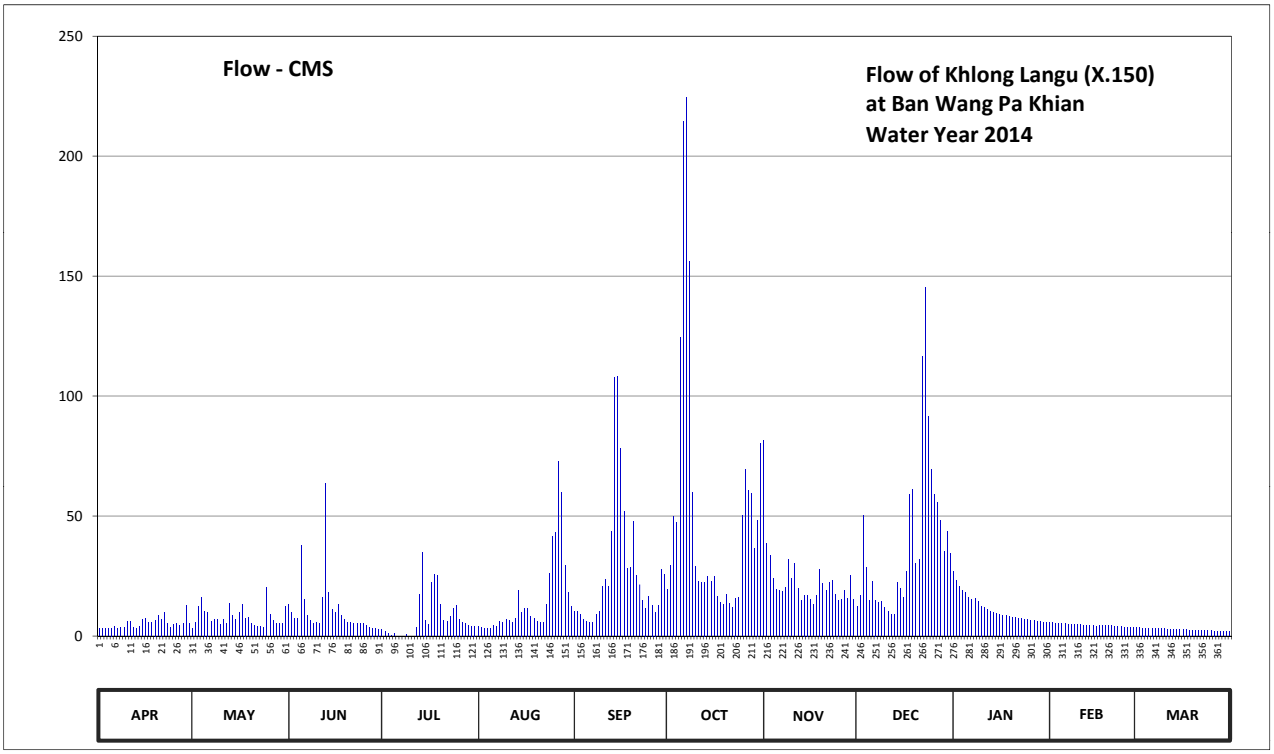
Location : on right bank at Ban Wang Pa Khian.

	Ban Wang Pa Khian	**Amphoe** Langu	**Changwat** Satun
Drainge Area	480 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.	**Elevation**	+16.164 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 Flot	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.31	5.32	6.10	5.26	5.41	5.92	6.45	8.99	6.04	6.89	5.56	5.34	
2	5.31	5.56	5.88	5.19	5.34	5.93	7.03	7.47	6.30	6.66	5.56	5.34	
3	5.31	6.04	5.71	5.10	5.31	5.84	7.89	7.26	7.90	6.53	5.52	5.33	
4	5.31	6.26	5.72	5.03	5.31	5.68	7.79	6.71	6.97	6.42	5.52	5.33	
5	5.33	5.93	7.44	5.09	5.33	5.62	10.06	6.45	6.19	6.37	5.52	5.33	
6	5.39	5.90	6.22	4.98	5.45	5.58	11.97	6.43	6.65	6.27	5.51	5.33	
7	5.32	5.61	5.79	4.88	5.42	5.58	12.14	6.40	6.20	6.22	5.50	5.32	
8	5.37	5.68	5.63	4.88	5.59	5.84	10.84	6.49	6.15	6.23	5.49	5.31	
9	5.36	5.66	5.54	5.08	5.56	5.92	8.25	7.18	6.16	6.16	5.48	5.30	
10	5.60	5.49	5.56	4.88	5.66	6.52	7.01	6.71	6.02	6.06	5.47	5.30	
11	5.59	5.66	5.51	4.92	5.64	6.69	6.65	7.06	5.91	6.02	5.47	5.29	
12	5.38	5.51	6.26	5.37	5.57	6.53	6.61	6.48	5.83	5.97	5.46	5.29	
13	5.32	6.12	8.38	6.34	5.71	7.65	6.63	6.18	5.84	5.92	5.45	5.29	
14	5.41	5.79	6.38	7.32	6.42	9.65	6.75	6.32	6.61	5.90	5.44	5.28	
15	5.68	5.66	5.98	5.65	5.90	9.66	6.64	6.32	6.47	5.87	5.43	5.28	
16	5.71	5.88	5.90	5.48	5.99	8.87	6.75	6.22	6.26	5.84	5.42	5.26	
17	5.55	6.09	6.10	6.61	6.01	7.96	6.28	6.09	6.88	5.82	5.44	5.26	
18	5.55	5.72	5.79	6.81	5.77	6.95	6.15	6.31	8.22	5.79	5.44	5.25	
19	5.65	5.73	5.66	6.79	5.72	6.97	6.10	6.94	8.29	5.77	5.44	5.24	
20	5.80	5.52	5.58	6.09	5.59	7.81	6.33	6.60	7.06	5.75	5.44	5.23	
21	5.69	5.45	5.55	5.64	5.58	6.79	6.12	6.42	7.16	5.73	5.44	5.22	
22	5.88	5.41	5.54	5.60	5.58	6.57	6.02	6.62	9.87	5.72	5.42	5.22	
23	5.51	5.39	5.54	5.78	6.10	6.19	6.25	6.67	10.58	5.72	5.41	5.22	
24	5.35	5.37	5.54	6.01	6.84	6.01	6.27	6.33	9.24	5.69	5.40	5.22	
25	5.48	6.49	5.52	6.08	7.58	6.28	7.90	6.20	8.58	5.66	5.38	5.22	
26	5.51	5.84	5.44	5.69	7.64	6.08	8.59	6.21	8.22	5.64	5.37	5.21	
27	5.43	5.63	5.36	5.58	8.69	5.90	8.28	6.42	8.10	5.64	5.34	5.20	
28	5.53	5.54	5.33	5.53	8.25	6.07	8.23	6.23	7.82	5.62	5.34	5.19	
29	6.07	5.52	5.32	5.45	7.02	6.93	7.40	6.78	7.34	5.60		5.18	
30	5.52	5.52	5.29	5.42	6.39	6.80	7.83	6.21	7.66	5.55		5.18	
31		6.06		5.42	6.05		8.95		7.30	5.55		5.18	
Mean	5.51	5.72	5.85	5.61	6.08	6.69	7.62	6.62	7.22	5.95	5.45	5.26	
Max	6.07	6.49	8.38	7.32	8.69	9.66	12.14	8.99	10.58	6.89	5.56	5.34	12.14
Min	5.31	5.32	5.29	4.88	5.31	5.58	6.02	6.09	5.83	5.55	5.34	5.18	4.88

Annual Max Momentary Gage Height	12.37	m. (MSL.) ,	at 21.00 Hours , on Oct 6 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	4.27	m. (MSL.)
Left Bank Elevation	15.85	m. (MSL.) ,			
Right Bank Elevation	15.81	m. (MSL.) ,	Drainage Area	480	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.10	3.20	13.25	2.60	4.10	10.30	19.37	81.70	12.20	27.07	5.60	3.40		
2	3.10	5.60	9.70	1.90	3.40	10.45	29.53	38.42	16.75	23.05	5.60	3.40		
3	3.10	12.20	7.37	1.00	3.10	9.10	49.98	33.70	50.25	20.78	5.20	3.30		
4	3.10	16.05	7.50	0.30	3.10	7.00	47.23	23.93	28.47	18.85	5.20	3.30		
5	3.30	10.45	37.60	0.90	3.30	6.25	124.40	19.37	14.83	17.97	5.20	3.30		
6	3.90	10.00	15.35	0.00	4.50	5.80	214.35	19.02	22.88	16.22	5.10	3.30		
7	3.20	6.13	8.37	0.00	4.20	5.80	224.40	18.50	15.00	15.35	5.00	3.20		
8	3.70	7.00	6.38	0.00	5.90	9.10	156.00	20.07	14.13	15.53	4.90	3.10		
9	3.60	6.75	5.40	0.80	5.60	10.30	59.88	32.15	14.30	14.30	4.80	3.00		
10	6.00	4.90	5.60	0.00	6.75	20.60	29.18	23.93	11.85	12.55	4.70	3.00		
11	5.90	6.75	5.10	0.00	6.50	23.58	22.88	30.05	10.15	11.85	4.70	2.90		
12	3.80	5.10	16.05	3.70	5.70	20.78	22.18	19.90	8.95	11.05	4.60	2.90		
13	3.20	13.60	63.45	17.45	7.37	43.38	22.53	14.65	9.10	10.30	4.50	2.90		
14	4.10	8.37	18.15	34.90	18.85	108.00	24.63	17.10	22.18	10.00	4.40	2.80		
15	7.00	6.75	11.20	6.63	10.00	108.40	22.70	17.10	19.72	9.55	4.30	2.80		
16	7.37	9.70	10.00	4.80	11.35	78.10	24.63	15.35	16.05	9.10	4.20	2.60		
17	5.50	13.08	13.25	22.18	11.68	51.90	16.40	13.08	26.90	8.80	4.40	2.60		
18	5.50	7.50	8.37	25.68	8.12	28.12	14.13	16.92	59.05	8.37	4.40	2.50		
19	6.63	7.62	6.75	25.32	7.50	28.47	13.25	27.95	60.98	8.12	4.40	2.40		
20	8.50	5.20	5.80	13.08	5.90	47.78	17.27	22.00	30.05	7.87	4.40	2.30		
21	7.13	4.50	5.50	6.50	5.80	25.32	13.60	18.85	31.80	7.62	4.40	2.20		
22	9.70	4.10	5.40	6.00	5.80	21.48	11.85	22.35	116.80	7.50	4.20	2.20		
23	5.10	3.90	5.40	8.25	13.25	14.83	15.88	23.23	145.20	7.50	4.10	2.20		
24	3.50	3.70	5.40	11.68	26.20	11.68	16.22	17.27	91.60	7.13	4.00	2.20		
25	4.80	20.07	5.20	12.90	41.45	16.40	50.25	15.00	69.40	6.75	3.80	2.20		
26	5.10	9.10	4.40	7.13	43.10	12.90	69.70	15.18	59.05	6.50	3.70	2.10		
27	4.30	6.38	3.60	5.80	72.70	10.00	60.70	18.85	55.75	6.50	3.40	2.00		
28	5.30	5.40	3.30	5.30	59.88	12.73	59.32	15.53	48.05	6.25	3.40	1.90		
29	12.73	5.20	3.20	4.50	29.35	27.77	36.50	25.15	35.30	6.00		1.80		
30	5.20	5.20	2.90	4.20	18.32	25.50	48.33	15.18	43.65	5.50		1.80		
31		12.55		4.20	12.38		80.50		34.50	5.50		1.80		
Total	156.46	246.05	318.94	237.70	465.15	811.82	1617.77	691.48	1194.89	349.43	126.60	81.40	6297.69	CMSDAY
Mean	5.22	7.94	10.63	7.67	15.00	27.06	52.19	23.05	38.54	11.27	4.52	2.63	17.25	CMS
Max	12.73	20.07	63.45	34.90	72.70	108.40	224.40	81.70	145.20	27.07	5.60	3.40	224.40	CMS
Min	3.10	3.20	2.90	0.00	3.10	5.80	11.85	13.08	8.95	5.50	3.40	1.80	0.00	CMS
Runoff	13.52	21.26	27.56	20.54	40.19	70.14	139.78	59.74	103.24	30.19	10.94	7.03	544.12	MCM

Momentary Peak 238.20 CMS. at 12.37 m. (MSL.) at 21.00 Hours , on Oct 6 , 2014

Runoff Yield 35.95 Liters/Second/Square KM. Momentary Peak Yield 495.992 Liters/Second/Square KM.

WATER YEAR : 2014

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

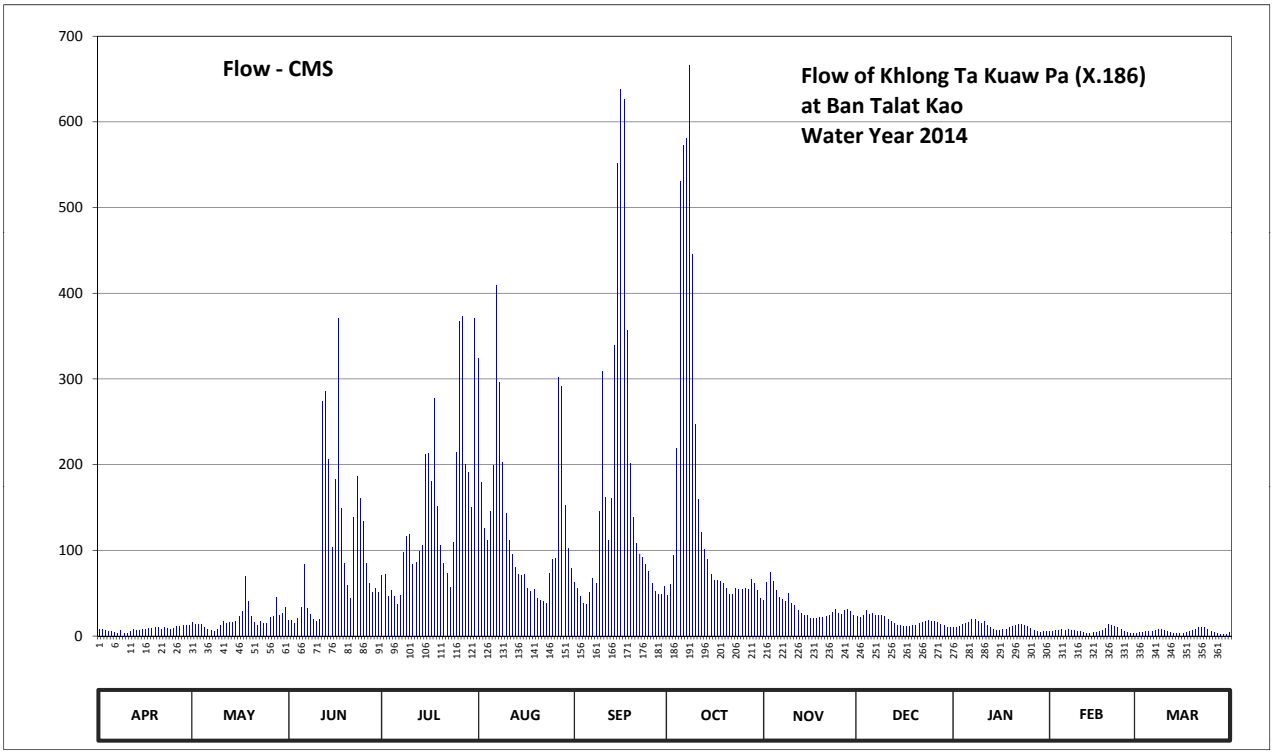
Location : on left bank at Ban Talat Kao.

	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 Flot	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.81	-0.58	-0.54	0.18	2.21	0.10	-0.07	-0.15	-0.44	-0.74	-0.91	-1.06	
2	-0.81	-0.64	-0.54	0.19	1.18	0.03	0.07	0.10	-0.47	-0.73	-0.90	-1.01	
3	-0.87	-0.65	-0.62	-0.08	0.71	-0.08	0.41	0.21	-0.42	-0.70	-0.89	-0.97	
4	-0.92	-0.65	-0.49	0.00	0.58	-0.18	1.48	0.11	-0.31	-0.65	-0.87	-0.94	
5	-0.90	-0.74	-0.27	-0.08	0.89	-0.20	3.35	0.00	-0.40	-0.61	-0.84	-0.92	
6	-1.01	-0.81	0.31	-0.20	1.33	-0.03	3.56	-0.10	-0.37	-0.59	-0.85	-0.90	
7	-1.07	-0.89	-0.28	-0.07	2.71	0.14	3.60	-0.13	-0.42	-0.50	-0.84	-0.88	
8	-0.89	-0.91	-0.40	0.45	2.02	0.09	4.03	-0.16	-0.43	-0.51	-0.86	-0.84	
9	-1.04	-0.84	-0.51	0.63	1.36	0.90	2.92	-0.04	-0.41	-0.57	-0.89	-0.84	
10	-1.04	-0.66	-0.55	0.65	0.87	2.11	1.68	-0.18	-0.45	-0.62	-0.93	-0.86	
11	-0.96	-0.55	-0.52	0.31	0.59	1.04	1.02	-0.22	-0.50	-0.55	-0.96	-0.91	
12	-0.84	-0.60	1.87	0.33	0.42	0.58	0.67	-0.32	-0.56	-0.67	-1.01	-0.98	
13	-0.88	-0.59	1.95	0.46	0.27	1.03	0.48	-0.38	-0.62	-0.76	-1.05	-1.05	
14	-0.88	-0.59	1.39	0.53	0.19	2.30	0.36	-0.42	-0.66	-0.84	-1.05	-1.11	
15	-0.84	-0.57	0.50	1.43	0.18	3.46	0.19	-0.43	-0.68	-0.86	-1.02	-1.12	
16	-0.82	-0.44	1.21	1.44	0.19	3.89	0.12	-0.48	-0.71	-0.86	-0.97	-1.09	
17	-0.79	-0.34	2.49	1.19	0.02	3.83	0.12	-0.49	-0.72	-0.84	-0.91	-1.02	
18	-0.77	0.17	0.93	1.89	-0.01	2.41	0.11	-0.49	-0.70	-0.81	-0.86	-0.94	
19	-0.73	-0.16	0.32	0.95	0.01	1.35	0.09	-0.47	-0.68	-0.76	-0.78	-0.86	
20	-0.75	-0.45	0.06	0.53	-0.12	0.83	0.03	-0.46	-0.66	-0.71	-0.63	-0.81	
21	-0.80	-0.58	-0.12	0.32	-0.15	0.55	-0.06	-0.45	-0.62	-0.67	-0.68	-0.76	
22	-0.75	-0.67	0.83	0.20	-0.16	0.43	-0.06	-0.43	-0.58	-0.65	-0.71	-0.74	
23	-0.78	-0.56	1.23	0.04	-0.19	0.39	0.03	-0.36	-0.55	-0.65	-0.75	-0.76	
24	-0.80	-0.60	1.03	0.56	0.20	0.31	0.01	-0.30	-0.53	-0.66	-0.83	-0.83	
25	-0.77	-0.61	0.79	1.45	0.36	0.22	0.01	-0.37	-0.55	-0.72	-0.93	-0.91	
26	-0.70	-0.46	0.32	2.47	0.38	0.09	0.03	-0.39	-0.56	-0.78	-1.02	-1.01	
27	-0.70	-0.44	0.09	2.50	2.06	-0.01	0.01	-0.31	-0.59	-0.86	-1.08	-1.10	
28	-0.69	-0.10	-0.03	1.34	1.99	-0.06	0.13	-0.29	-0.64	-0.93	-1.09	-1.18	
29	-0.67	-0.43	0.03	1.27	0.96	-0.05	0.09	-0.34	-0.69	-0.97		-1.18	
30	-0.66	-0.37	-0.02	0.94	0.49	0.05	0.00	-0.42	-0.73	-0.96		-1.13	
31		-0.25		2.49	0.26		-0.11		-0.75	-0.94		-0.99	
Mean	-0.83	-0.53	0.35	0.78	0.70	0.85	0.78	-0.27	-0.56	-0.73	-0.90	-0.96	
Max	-0.66	0.17	2.49	2.50	2.71	3.89	4.03	0.21	-0.31	-0.50	-0.63	-0.74	4.03
Min	-1.07	-0.91	-0.62	-0.20	-0.19	-0.20	-0.11	-0.49	-0.75	-0.97	-1.09	-1.18	-1.18

Annual Max Momentary Gage Height	4.23	m. (MSL.) ,	at 02.00 Hours , on Sep 17 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.13	m. (MSL.)
Left Bank Elevation	5.79	m. (MSL.) ,			
Right Bank Elevation	5.82	m. (MSL.) ,	Drainage Area	734	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.80	16.00	18.00	71.00	324.60	63.00	47.40	41.00	23.00	10.10	5.80	3.25		
2	7.80	13.60	18.00	72.00	179.50	56.00	60.00	63.00	21.50	10.45	6.00	3.88		
3	6.60	13.25	14.30	46.60	125.10	46.60	94.00	74.00	24.00	11.50	6.20	4.60		
4	5.60	13.25	20.50	53.00	111.00	38.60	218.80	64.00	30.40	13.25	6.60	5.20		
5	6.00	10.10	32.80	46.60	144.90	37.00	530.00	53.00	25.00	14.65	7.20	5.60		
6	3.88	7.80	84.00	37.00	198.90	50.60	572.00	45.00	26.80	15.50	7.00	6.00		
7	3.12	6.20	32.20	47.40	409.25	67.00	580.00	42.60	24.00	20.00	7.20	6.40		
8	6.20	5.80	25.00	98.00	296.00	62.00	666.30	40.20	23.50	19.50	6.80	7.20		
9	3.50	7.20	19.50	116.30	202.80	146.00	446.00	49.80	24.50	16.50	6.20	7.20		
10	3.50	12.90	17.50	118.50	142.70	309.50	246.60	38.60	22.50	14.30	5.40	6.80		
11	4.80	17.50	19.00	84.00	112.00	162.00	159.50	35.80	20.00	17.50	4.80	5.80		
12	7.20	15.00	274.15	86.00	95.00	111.00	120.70	29.80	17.00	12.55	3.88	4.40		
13	6.40	15.50	285.75	99.00	80.00	160.75	101.00	26.20	14.30	9.40	3.38	3.38		
14	6.40	15.50	206.70	106.00	72.00	339.00	89.00	24.00	12.90	7.20	3.38	2.63		
15	7.20	16.50	103.00	212.05	71.00	552.00	72.00	23.50	12.20	6.80	3.75	2.50		
16	7.60	23.00	183.30	213.40	72.00	638.00	65.00	21.00	11.15	6.80	4.60	2.88		
17	8.35	28.60	370.75	180.75	55.00	626.00	65.00	20.50	10.80	7.20	5.80	3.75		
18	9.05	70.00	149.30	277.05	52.20	356.75	64.00	20.50	11.50	7.80	6.80	5.20		
19	10.45	40.20	85.00	151.50	54.00	201.50	62.00	21.50	12.20	9.40	8.70	6.80		
20	9.75	22.50	59.00	106.00	43.40	138.30	56.00	22.00	12.90	11.15	13.95	7.80		
21	8.00	16.00	43.40	85.00	41.00	108.00	48.20	22.50	14.30	12.55	12.20	9.40		
22	9.75	12.55	138.30	73.00	40.20	96.00	48.20	23.50	16.00	13.25	11.15	10.10		
23	8.70	17.00	185.90	57.00	37.80	92.00	56.00	27.40	17.50	13.25	9.75	9.40		
24	8.00	15.00	160.75	109.00	73.00	84.00	54.00	31.00	18.50	12.90	7.40	7.40		
25	9.05	14.65	133.90	214.75	89.00	75.00	54.00	26.80	17.50	10.80	5.40	5.80		
26	11.50	22.00	85.00	367.25	91.00	62.00	56.00	25.60	17.00	8.70	3.75	3.88		
27	11.50	23.00	62.00	372.50	302.00	52.20	54.00	30.40	15.50	6.80	3.00	2.75		
28	11.85	45.00	50.60	200.20	291.55	48.20	66.00	31.60	13.60	5.40	2.88	1.75		
29	12.55	23.50	56.00	191.10	152.60	49.00	62.00	28.60	11.85	4.60		1.75		
30	12.90	26.80	51.40	150.40	102.00	58.00	53.00	24.00	10.45	4.80		2.38		
31		34.00		370.75	79.00		44.20		9.75	5.20		4.20		
Total	235.00	619.90	2985.00	4413.10	4140.50	4886.00	4910.90	1027.40	542.10	339.80	178.97	160.08	24438.75	CMSDAY
Mean	7.83	20.00	99.50	142.36	133.56	162.87	158.42	34.25	17.49	10.96	6.39	5.16	66.96	CMS
Max	12.90	70.00	370.75	372.50	409.25	638.00	666.30	74.00	30.40	20.00	13.95	10.10	666.30	CMS
Min	3.12	5.80	14.30	37.00	37.80	37.00	44.20	20.50	9.75	4.60	2.88	1.75	1.75	CMS
Runoff	20.30	53.56	257.90	381.29	357.74	422.15	424.30	88.77	46.84	29.36	15.46	13.83	2111.51	MCM

Momentary Peak 708.45 CMS. at 4.23 m. (MSL.) at 02.00 Hours , on Sep 17 , 2014

Runoff Yield 91.22 Liters/Second/Square KM. Momentary Peak Yield 965.191 Liters/Second/Square KM.

WATER YEAR : 2014

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.

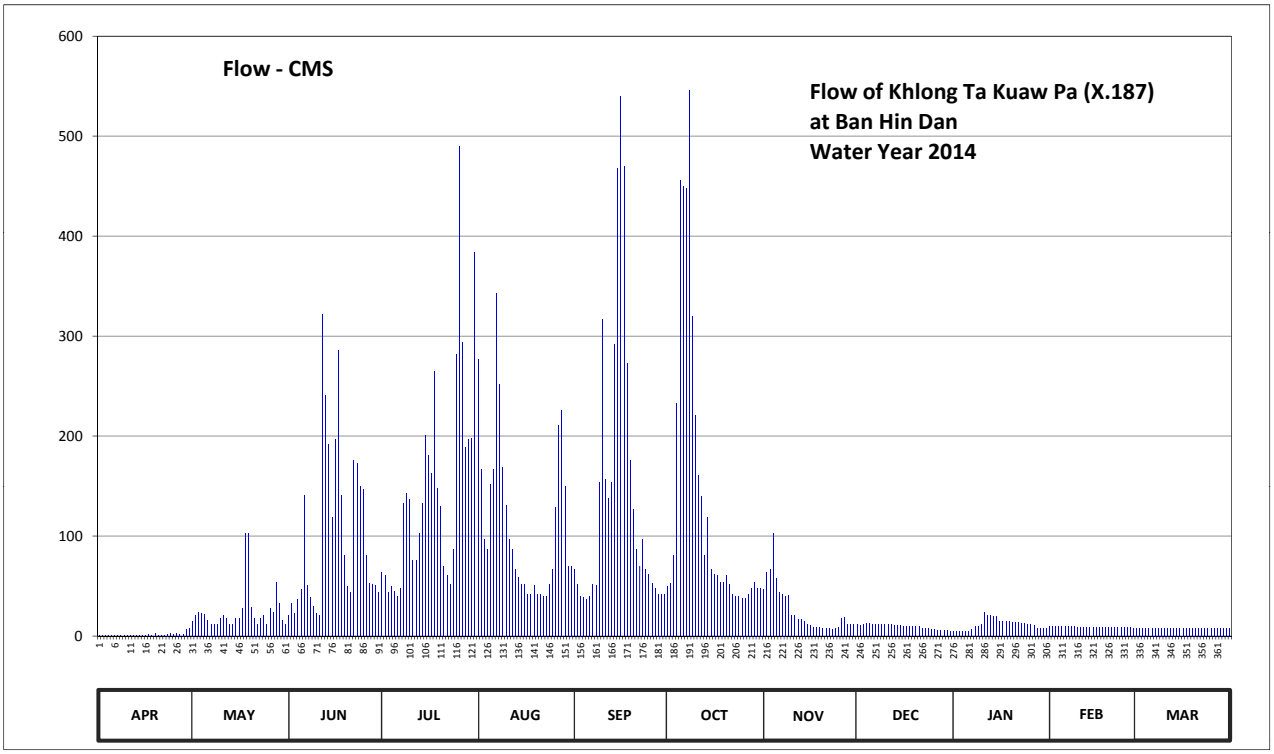
Ban Hin Dan **Amphoe** Ta Kuaw Pa **Changwat** Phangnga

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 Flot	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2014.

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.15	4.85	4.95	5.36	6.45	5.38	5.26	5.24	4.78	4.60	4.75	4.70	
2	4.17	4.94	5.11	5.34	5.80	5.28	5.29	5.36	4.77	4.60	4.75	4.70	
3	4.16	5.00	4.98	5.21	5.45	5.18	5.42	5.38	4.79	4.60	4.73	4.70	
4	4.16	4.98	5.15	5.26	5.43	5.17	6.21	5.46	4.81	4.60	4.73	4.70	
5	4.16	4.96	5.24	5.22	5.70	5.15	7.37	5.32	4.81	4.60	4.73	4.70	
6	4.19	4.86	5.62	5.18	5.80	5.18	7.34	5.21	4.79	4.60	4.73	4.70	
7	4.16	4.80	5.27	5.25	6.80	5.28	7.33	5.20	4.79	4.65	4.73	4.70	
8	4.15	4.80	5.17	5.56	6.32	5.27	7.81	5.18	4.79	4.75	4.73	4.70	
9	4.15	4.80	5.07	5.63	5.81	5.71	6.68	5.19	4.79	4.75	4.73	4.70	
10	4.15	4.90	4.97	5.59	5.55	6.66	6.14	4.95	4.79	4.79	4.72	4.70	
11	4.15	4.94	4.95	5.41	5.45	5.73	5.76	4.95	4.79	5.00	4.72	4.70	
12	4.15	4.90	6.69	5.41	5.43	5.60	5.61	4.87	4.79	4.95	4.72	4.70	
13	4.16	4.80	6.26	5.46	5.38	5.71	5.42	4.87	4.76	4.95	4.72	4.70	
14	4.16	4.80	5.96	5.56	5.33	6.53	5.49	4.85	4.76	4.93	4.72	4.70	
15	4.16	4.90	5.49	6.02	5.28	7.43	5.38	4.78	4.76	4.93	4.72	4.70	
16	4.23	4.90	5.99	5.89	5.28	7.78	5.35	4.76	4.75	4.85	4.72	4.70	
17	4.31	5.04	6.50	5.77	5.20	7.44	5.34	4.71	4.75	4.85	4.72	4.70	
18	4.22	5.46	5.62	6.39	5.20	6.43	5.30	4.71	4.73	4.85	4.72	4.70	
19	4.45	5.46	5.42	5.67	5.27	5.86	5.30	4.72	4.73	4.85	4.72	4.70	
20	4.22	5.06	5.26	5.54	5.20	5.52	5.34	4.68	4.73	4.83	4.72	4.70	
21	4.13	4.90	5.21	5.40	5.20	5.43	5.28	4.68	4.73	4.83	4.72	4.70	
22	4.20	4.80	5.86	5.34	5.18	5.40	5.20	4.68	4.69	4.83	4.71	4.70	
23	4.38	4.90	5.84	5.28	5.18	5.45	5.18	4.65	4.69	4.81	4.71	4.70	
24	4.49	4.95	5.68	5.43	5.28	5.38	5.18	4.68	4.69	4.81	4.71	4.70	
25	4.35	4.80	5.66	6.48	5.38	5.35	5.16	4.71	4.65	4.80	4.71	4.70	
26	4.42	5.05	5.42	7.54	5.53	5.29	5.16	4.89	4.65	4.79	4.71	4.70	
27	4.38	5.00	5.29	6.54	6.08	5.25	5.20	4.91	4.63	4.76	4.71	4.70	
28	4.37	5.30	5.28	5.94	6.17	5.20	5.25	4.78	4.63	4.70	4.70	4.70	
29	4.65	5.11	5.27	5.99	5.68	5.20	5.30	4.79	4.61	4.68		4.70	
30	4.69	4.86	5.21	6.00	5.40	5.20	5.25	4.78	4.61	4.69		4.70	
31		4.80		7.01	5.40		5.25		4.60	4.69		4.70	
Mean	4.26	4.96	5.48	5.73	5.57	5.71	5.70	4.93	4.73	4.77	4.72	4.70	
Max	4.69	5.46	6.69	7.54	6.80	7.78	7.81	5.46	4.81	5.00	4.75	4.70	7.81
Min	4.13	4.80	4.95	5.18	5.18	5.15	5.16	4.65	4.60	4.60	4.70	4.70	4.13

Annual Max Momentary Gage Height	8.08	m. (MSL.) ,	at 18.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	3.46	m. (MSL.)
Left Bank Elevation	11.63	m. (MSL.) ,			
Right Bank Elevation	11.65	m. (MSL.) ,	Drainage Area	546	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	15.00	21.00	63.60	276.50	66.80	49.20	46.80	11.20	5.00	10.00	8.00		
2	0.53	20.40	33.00	60.40	167.00	51.60	52.80	63.60	10.80	5.00	10.00	8.00		
3	0.45	24.00	22.80	43.20	97.00	40.00	80.80	66.80	11.60	5.00	9.20	8.00		
4	0.45	22.80	37.00	49.20	86.20	39.00	232.70	102.40	12.60	5.00	9.20	8.00		
5	0.45	21.60	46.80	44.40	152.00	37.00	456.00	57.20	12.60	5.00	9.20	8.00		
6	0.68	15.60	140.80	40.00	167.00	40.00	450.00	43.20	11.60	5.00	9.20	8.00		
7	0.45	12.00	50.40	48.00	343.00	51.60	448.00	42.00	11.60	6.50	9.20	8.00		
8	0.38	12.00	39.00	132.40	251.80	50.40	546.20	40.00	11.60	10.00	9.20	8.00		
9	0.38	12.00	29.60	142.20	168.50	153.50	320.20	41.00	11.60	10.00	9.20	8.00		
10	0.38	18.00	22.20	136.60	131.00	316.40	220.80	21.00	11.60	11.60	8.80	8.00		
11	0.38	20.40	21.00	75.40	97.00	156.50	161.00	21.00	11.60	24.00	8.80	8.00		
12	0.38	18.00	322.10	75.40	86.20	138.00	139.40	16.20	11.60	21.00	8.80	8.00		
13	0.45	12.00	241.20	102.40	66.80	153.50	80.80	16.20	10.40	21.00	8.80	8.00		
14	0.45	12.00	191.60	132.40	58.80	291.70	118.60	15.00	10.40	19.80	8.80	8.00		
15	0.45	18.00	118.60	201.20	51.60	468.00	66.80	11.20	10.40	19.80	8.80	8.00		
16	0.98	18.00	196.40	180.50	51.60	539.80	62.00	10.40	10.00	15.00	8.80	8.00		
17	1.57	27.20	286.00	162.50	42.00	470.00	60.40	8.40	10.00	15.00	8.80	8.00		
18	0.90	102.40	140.80	265.10	42.00	272.70	54.00	8.40	9.20	15.00	8.80	8.00		
19	2.62	102.40	80.80	147.80	50.40	176.00	54.00	8.80	9.20	15.00	8.80	8.00		
20	0.90	28.80	49.20	129.60	42.00	126.80	60.40	7.40	9.20	13.80	8.80	8.00		
21	0.23	18.00	43.20	70.00	42.00	86.20	51.60	7.40	9.20	13.80	8.80	8.00		
22	0.75	12.00	176.00	60.40	40.00	70.00	42.00	7.40	7.70	13.80	8.40	8.00		
23	2.10	18.00	173.00	51.60	40.00	97.00	40.00	6.50	7.70	12.60	8.40	8.00		
24	2.92	21.00	149.20	86.20	51.60	66.80	40.00	7.40	7.70	12.60	8.40	8.00		
25	1.87	12.00	146.40	282.20	66.80	62.00	38.00	8.40	6.50	12.00	8.40	8.00		
26	2.40	28.00	80.80	490.00	128.20	52.80	38.00	17.40	6.50	11.60	8.40	8.00		
27	2.10	24.00	52.80	293.60	210.80	48.00	42.00	18.60	5.90	10.40	8.40	8.00		
28	2.02	54.00	51.60	188.40	225.90	42.00	48.00	11.20	5.90	8.00	8.00	8.00		
29	6.50	33.00	50.40	196.40	149.20	42.00	54.00	11.60	5.30	7.40		8.00		
30	7.70	15.60	43.20	198.00	70.00	42.00	48.00	11.20	5.30	7.70		8.00		
31		12.00		384.00	70.00		48.00		5.00	7.70		8.00		
Total	42.20	780.20	3056.90	4533.10	3522.90	4248.10	4203.70	754.10	291.50	365.10	248.40	248.00	22294.20	CMSDAY
Mean	1.41	25.17	101.90	146.23	113.64	141.60	135.60	25.14	9.40	11.78	8.87	8.00	61.08	CMS
Max	7.70	102.40	322.10	490.00	343.00	539.80	546.20	102.40	12.60	24.00	10.00	8.00	546.20	CMS
Min	0.23	12.00	21.00	40.00	40.00	37.00	38.00	6.50	5.00	5.00	8.00	8.00	0.23	CMS
Runoff	3.65	67.41	264.12	391.66	304.38	367.04	363.20	65.15	25.19	31.55	21.46	21.43	1926.22	MCM

Momentary Peak 607.40 CMS. at 8.08 m. (MSL.) at 18.00 Hours , on Sep 16 , 2014

Runoff Yield 111.87 Liters/Second/Square KM. Momentary Peak Yield 1112.454 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Rommanee at Ban Rommanee , Phangnga (X.188A)

Lat 08 - 45 - 50 N Long 98 - 27 - 35 E

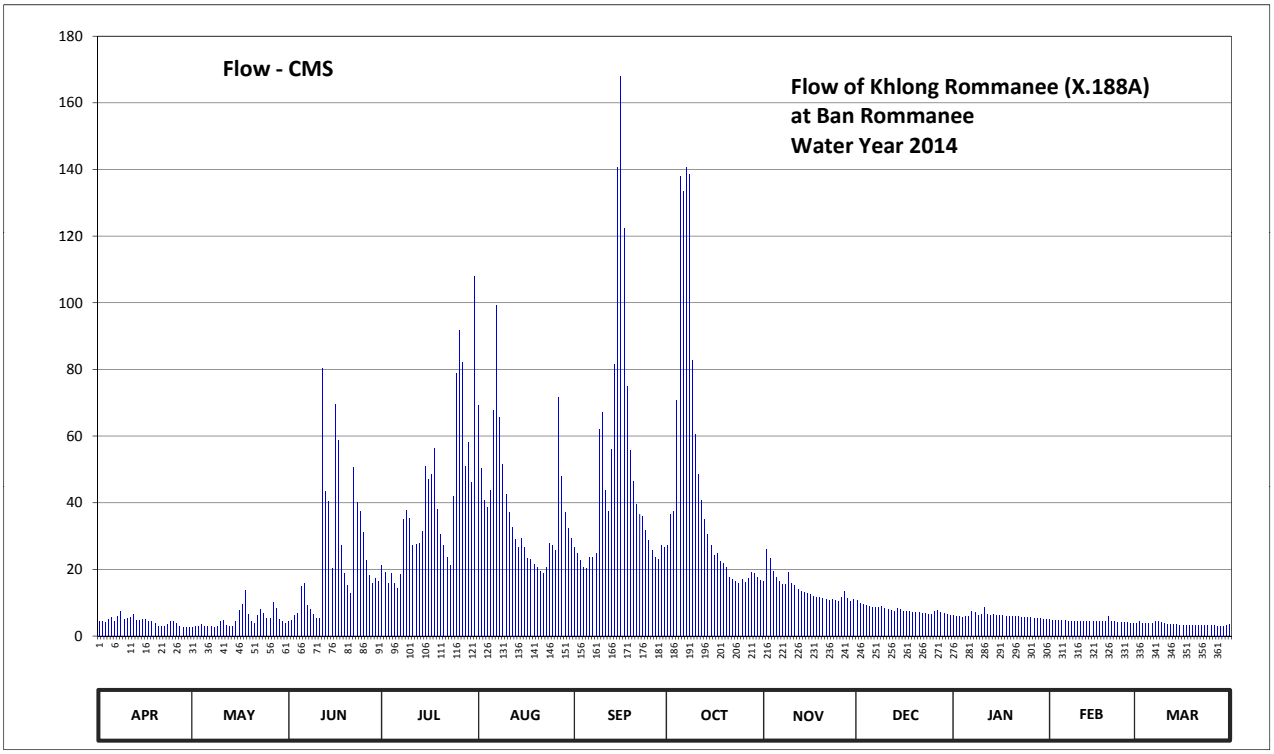
Location : on left bank at the bridge.

	Ban Rommanee	**Amphoe** Kapong	**Changwat** Phangnga
Drainge Area	232 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 abutmentof the bridge.	**Elevation**	+18.740 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	2009 to date		
Rating Operation			
Period of Rating	2009 to date		
Rated by Flot	-		
Rated by Current Meter	2009 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.18	13.10	13.17	13.72	15.03	13.87	13.89	13.58	13.39	13.24	13.20	13.15	
2	13.18	13.12	13.19	13.66	14.55	13.82	14.16	13.86	13.36	13.23	13.19	13.17	
3	13.16	13.12	13.24	13.56	14.28	13.76	14.18	13.78	13.35	13.23	13.19	13.15	
4	13.20	13.14	13.26	13.65	14.22	13.70	15.07	13.67	13.34	13.22	13.19	13.15	
5	13.22	13.11	13.53	13.56	14.36	13.69	16.60	13.62	13.33	13.23	13.19	13.15	
6	13.18	13.12	13.56	13.51	14.99	13.79	16.50	13.58	13.32	13.23	13.19	13.15	
7	13.23	13.11	13.34	13.64	15.74	13.79	16.66	13.55	13.32	13.28	13.18	13.17	
8	13.28	13.10	13.30	14.11	14.94	13.82	16.61	13.55	13.32	13.27	13.18	13.18	
9	13.20	13.12	13.25	14.19	14.59	14.85	15.37	13.66	13.33	13.24	13.18	13.16	
10	13.21	13.18	13.21	14.12	14.33	14.98	14.81	13.56	13.31	13.25	13.18	13.15	
11	13.22	13.19	13.21	13.89	14.17	14.36	14.50	13.54	13.30	13.32	13.18	13.14	
12	13.25	13.13	15.31	13.90	14.05	14.18	14.28	13.50	13.29	13.25	13.18	13.14	
13	13.19	13.12	14.35	13.91	13.94	14.70	14.11	13.48	13.28	13.24	13.18	13.14	
14	13.19	13.11	14.27	14.01	13.87	15.34	13.99	13.47	13.31	13.25	13.17	13.14	
15	13.20	13.18	13.69	14.57	13.95	16.66	13.89	13.46	13.30	13.24	13.17	13.13	
16	13.20	13.29	15.04	14.46	13.87	17.24	13.81	13.45	13.28	13.24	13.17	13.13	
17	13.18	13.35	14.77	14.50	13.78	16.25	13.82	13.43	13.28	13.24	13.17	13.13	
18	13.18	13.49	13.89	14.71	13.77	15.17	13.75	13.42	13.28	13.23	13.18	13.13	
19	13.15	13.25	13.65	14.20	13.73	14.69	13.74	13.42	13.27	13.23	13.17	13.13	
20	13.11	13.18	13.54	13.99	13.70	14.44	13.70	13.41	13.27	13.23	13.23	13.13	
21	13.11	13.15	13.46	13.89	13.67	14.24	13.62	13.40	13.27	13.23	13.18	13.13	
22	13.11	13.24	14.56	13.79	13.65	14.16	13.60	13.39	13.26	13.23	13.17	13.13	
23	13.14	13.30	14.26	13.72	13.70	14.14	13.58	13.40	13.26	13.22	13.16	13.13	
24	13.17	13.26	14.18	14.31	13.91	14.02	13.56	13.39	13.25	13.22	13.16	13.13	
25	13.18	13.21	14.00	15.27	13.89	13.93	13.60	13.38	13.25	13.22	13.16	13.13	
26	13.15	13.21	13.76	15.57	13.85	13.85	13.57	13.42	13.28	13.22	13.16	13.13	
27	13.12	13.37	13.63	15.35	15.09	13.79	13.61	13.48	13.29	13.21	13.15	13.12	
28	13.10	13.31	13.56	14.57	14.48	13.77	13.66	13.41	13.27	13.21	13.15	13.12	
29	13.10	13.20	13.61	14.75	14.17	13.89	13.65	13.38	13.26	13.21		13.12	
30	13.10	13.17	13.58	14.43	14.04	13.87	13.62	13.40	13.25	13.20		13.13	
31		13.15		15.93	13.95		13.59		13.24	13.20		13.14	
Mean	13.17	13.20	13.78	14.24	14.20	14.43	14.29	13.50	13.29	13.23	13.18	13.14	
Max	13.28	13.49	15.31	15.93	15.74	17.24	16.66	13.86	13.39	13.32	13.23	13.18	17.24
Min	13.10	13.10	13.17	13.51	13.65	13.69	13.56	13.38	13.24	13.20	13.15	13.12	13.10

Annual Max Momentary Gage Height	18.04	m. (MSL.) ,	at 14.00 Hours , on Sep 16 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	12.86	m. (MSL.)
Left Bank Elevation	18.63	m. (MSL.) ,			
Right Bank Elevation	18.64	m. (MSL.) ,	Drainage Area	232	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	2.50	4.25	21.20	69.20	26.45	27.15	16.40	10.70	6.20	5.00	3.75		
2	4.50	3.00	4.75	19.10	50.25	24.70	36.60	26.10	9.80	5.90	4.75	4.25		
3	4.00	3.00	6.20	15.80	40.80	22.60	37.30	23.30	9.50	5.90	4.75	3.75		
4	5.00	3.50	6.80	18.75	38.70	20.50	70.80	19.45	9.20	5.60	4.75	3.75		
5	5.60	2.75	14.90	15.80	43.60	20.15	138.00	17.70	8.90	5.90	4.75	3.75		
6	4.50	3.00	15.80	14.30	67.60	23.65	133.50	16.40	8.60	5.90	4.75	3.75		
7	5.90	2.75	9.20	18.40	99.30	23.65	140.70	15.50	8.60	7.40	4.50	4.25		
8	7.40	2.50	8.00	34.85	65.60	24.70	138.45	15.50	8.60	7.10	4.50	4.50		
9	5.00	3.00	6.50	37.65	51.65	62.00	82.80	19.10	8.90	6.20	4.50	4.00		
10	5.30	4.50	5.30	35.20	42.55	67.20	60.40	15.80	8.30	6.50	4.50	3.75		
11	5.60	4.75	5.30	27.15	36.95	43.60	48.50	15.20	8.00	8.60	4.50	3.50		
12	6.50	3.25	80.40	27.50	32.75	37.30	40.80	14.00	7.70	6.50	4.50	3.50		
13	4.75	3.00	43.25	27.85	28.90	56.00	34.85	13.40	7.40	6.20	4.50	3.50		
14	4.75	2.75	40.45	31.35	26.45	81.60	30.65	13.10	8.30	6.50	4.25	3.50		
15	5.00	4.50	20.15	50.95	29.25	140.70	27.15	12.80	8.00	6.20	4.25	3.25		
16	5.00	7.70	69.60	47.10	26.45	168.00	24.35	12.50	7.40	6.20	4.25	3.25		
17	4.50	9.50	58.80	48.50	23.30	122.25	24.70	11.90	7.40	6.20	4.25	3.25		
18	4.50	13.70	27.15	56.40	22.95	74.80	22.25	11.60	7.40	5.90	4.50	3.25		
19	3.75	6.50	18.75	38.00	21.55	55.60	21.90	11.60	7.10	5.90	4.25	3.25		
20	2.75	4.50	15.20	30.65	20.50	46.40	20.50	11.30	7.10	5.90	5.90	3.25		
21	2.75	3.75	12.80	27.15	19.45	39.40	17.70	11.00	7.10	5.90	4.50	3.25		
22	2.75	6.20	50.60	23.65	18.75	36.60	17.00	10.70	6.80	5.90	4.25	3.25		
23	3.50	8.00	40.10	21.20	20.50	35.90	16.40	11.00	6.80	5.60	4.00	3.25		
24	4.25	6.80	37.30	41.85	27.85	31.70	15.80	10.70	6.50	5.60	4.00	3.25		
25	4.50	5.30	31.00	78.80	27.15	28.55	17.00	10.40	6.50	5.60	4.00	3.25		
26	3.75	5.30	22.60	91.65	25.75	25.75	16.10	11.60	7.40	5.60	4.00	3.25		
27	3.00	10.10	18.05	82.00	71.60	23.65	17.35	13.40	7.70	5.30	3.75	3.00		
28	2.50	8.30	15.80	50.95	47.80	22.95	19.10	11.30	7.10	5.30	3.75	3.00		
29	2.50	5.00	17.35	58.00	36.95	27.15	18.75	10.40	6.80	5.30		3.00		
30	2.50	4.25	16.40	46.05	32.40	26.45	17.70	11.00	6.50	5.00		3.25		
31		3.75		107.85	29.25		16.70		6.20	5.00		3.50		
Total	130.80	157.40	722.75	1245.65	1195.75	1439.95	1350.95	424.15	242.30	186.80	124.15	108.25	7328.90	CMSDAY
Mean	4.36	5.08	24.09	40.18	38.57	48.00	43.58	14.14	7.82	6.03	4.43	3.49	20.08	CMS
Max	7.40	13.70	80.40	107.85	99.30	168.00	140.70	26.10	10.70	8.60	5.90	4.50	168.00	CMS
Min	2.50	2.50	4.25	14.30	18.75	20.15	15.80	10.40	6.20	5.00	3.75	3.00	2.50	CMS
Runoff	11.30	13.60	62.45	107.62	103.31	124.41	116.72	36.65	20.94	16.14	10.73	9.35	633.22	MCM

Momentary Peak 208.00 CMS. at 18.04 m. (MSL.) at 14.00 Hours , on Sep 16 , 2014

Runoff Yield 86.55 Liters/Second/Square KM. Momentary Peak Yield 895.394 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

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

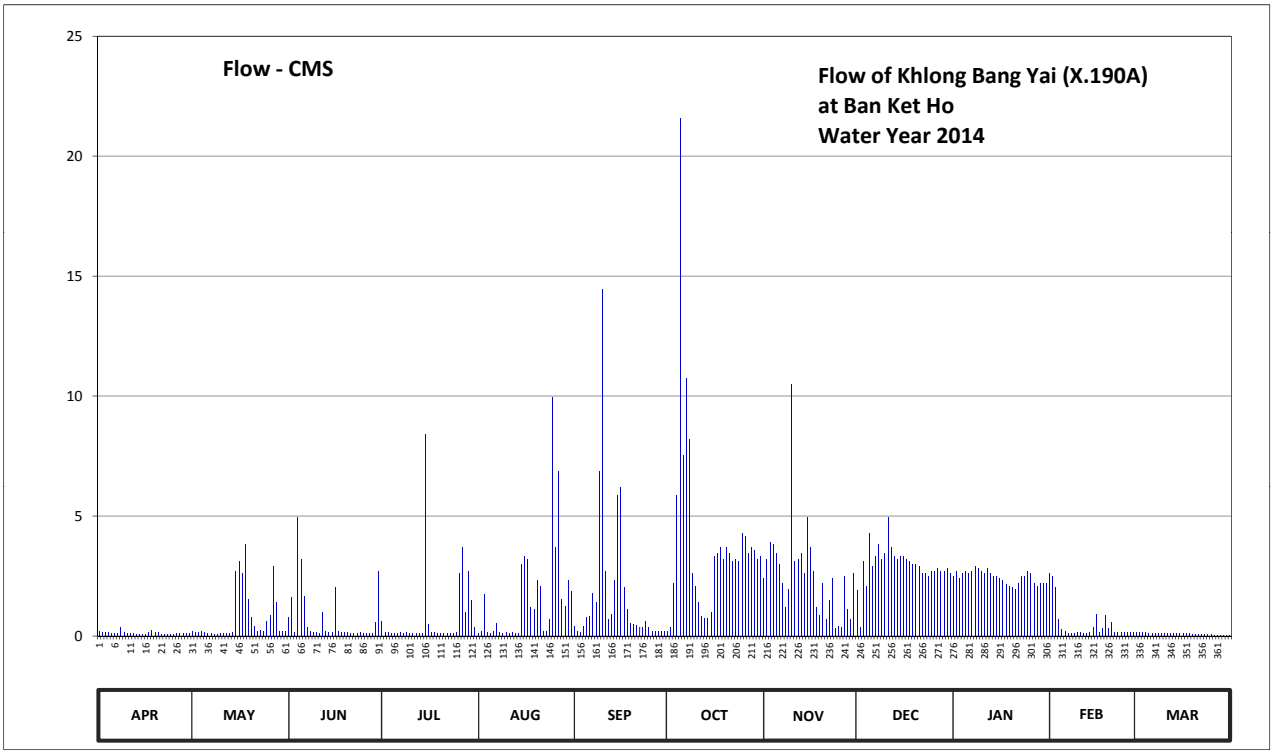
Location : on left bank at Ban Ket Ho.

	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 Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.59	14.55	14.84	14.80	14.42	14.70	14.59	15.12	15.05	15.13	15.14	14.46	
2	14.47	14.52	15.00	14.48	14.60	14.59	14.69	15.20	14.69	15.15	15.13	14.46	
3	14.49	14.52	14.50	14.46	15.02	14.53	15.10	15.26	15.19	15.12	15.07	14.46	
4	14.46	14.54	15.33	14.45	14.50	14.71	15.38	15.25	15.08	15.14	14.82	14.47	
5	14.41	14.52	15.20	14.44	14.42	14.84	15.89	15.22	15.29	15.15	14.63	14.45	
6	14.42	14.45	15.01	14.43	14.59	14.85	15.46	15.18	15.17	15.14	14.55	14.45	
7	14.38	14.39	14.69	14.47	14.76	15.03	15.59	15.10	15.21	15.15	14.44	14.45	
8	14.67	14.37	14.60	14.45	14.49	14.97	15.49	14.93	15.25	15.17	14.41	14.44	
9	14.50	14.35	14.52	14.48	14.45	15.43	15.14	15.06	15.20	15.16	14.41	14.44	
10	14.45	14.41	14.49	14.44	14.48	15.72	15.08	15.58	15.22	15.15	14.46	14.43	
11	14.40	14.44	14.45	14.41	14.43	15.15	14.97	15.19	15.33	15.14	14.52	14.44	
12	14.38	14.45	14.90	14.41	14.46	14.82	14.85	15.20	15.24	15.16	14.45	14.44	
13	14.37	14.45	14.56	14.43	14.41	14.88	14.83	15.22	15.21	15.14	14.45	14.44	
14	14.36	14.50	14.49	14.43	14.38	15.11	14.83	15.14	15.20	15.13	14.47	14.44	
15	14.35	15.15	14.46	15.50	15.18	15.38	14.90	15.33	15.21	15.13	14.68	14.43	
16	14.34	15.19	15.07	14.74	15.21	15.40	15.21	15.24	15.21	15.12	14.88	14.43	
17	14.51	15.14	14.57	14.53	15.20	15.07	15.22	15.15	15.20	15.11	14.49	14.43	
18	14.62	15.25	14.49	14.49	14.93	14.92	15.24	14.93	15.19	15.09	14.65	14.38	
19	14.48	14.99	14.51	14.45	14.92	14.76	15.20	14.87	15.18	15.08	14.86	14.37	
20	14.46	14.84	14.47	14.43	15.11	14.75	15.24	15.10	15.18	15.07	14.65	14.36	
21	14.37	14.70	14.45	14.42	15.08	14.72	15.22	14.82	15.17	15.06	14.79	14.36	
22	14.36	14.55	14.43	14.41	14.60	14.69	15.19	14.98	15.14	15.10	14.47	14.35	
23	14.35	14.61	14.44	14.42	14.56	14.67	15.20	15.12	15.14	15.13	14.48	14.35	
24	14.37	14.55	14.48	14.44	14.82	14.80	15.19	14.66	15.13	15.13	14.50	14.31	
25	14.36	14.80	14.45	14.50	15.56	14.67	15.29	14.70	15.15	15.15	14.51	14.29	
26	14.39	14.87	14.44	15.14	15.24	14.60	15.28	14.69	15.15	15.14	14.50	14.26	
27	14.45	15.17	14.43	15.24	15.43	14.57	15.22	15.13	15.16	15.10	14.48	14.25	
28	14.39	14.97	14.41	14.90	14.99	14.59	15.24	14.92	15.15	15.08	14.47	14.25	
29	14.42	14.56	14.78	15.15	14.94	14.60	15.23	14.82	15.15	15.10		14.24	
30	14.43	14.59	15.15	14.98	15.11	14.60	15.20	15.14	15.16	15.10		14.24	
31		14.57		14.69	15.04		15.21		15.14	15.10		14.25	
Mean	14.43	14.68	14.65	14.61	14.82	14.87	15.17	15.08	15.17	15.12	14.62	14.38	
Max	14.67	15.25	15.33	15.50	15.56	15.72	15.89	15.58	15.33	15.17	15.14	14.47	15.89
Min	14.34	14.35	14.41	14.41	14.38	14.53	14.59	14.66	14.69	15.06	14.41	14.24	14.24

Annual Max Momentary Gage Height	16.10	m. (MSL.) ,	at 14.00 Hours , on Aug 25 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	13.67	m. (MSL.)
Left Bank Elevation	17.54	m. (MSL.) ,			
Right Bank Elevation	17.66	m. (MSL.) ,	Drainage Area	28	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.19	0.17	0.76	0.60	0.11	0.40	0.19	2.40	1.90	2.50	2.60	0.13		
2	0.14	0.16	1.60	0.14	0.20	0.19	0.38	3.20	0.38	2.70	2.50	0.13		
3	0.14	0.16	0.15	0.13	1.72	0.16	2.20	3.92	3.10	2.40	2.02	0.13		
4	0.13	0.17	4.94	0.12	0.15	0.42	5.84	3.80	2.08	2.60	0.68	0.14		
5	0.10	0.16	3.20	0.12	0.11	0.76	21.58	3.44	4.28	2.70	0.26	0.12		
6	0.11	0.12	1.66	0.12	0.19	0.80	7.52	3.00	2.90	2.60	0.17	0.12		
7	0.09	0.10	0.38	0.14	0.52	1.78	10.74	2.20	3.32	2.70	0.12	0.12		
8	0.34	0.08	0.20	0.12	0.14	1.42	8.18	1.18	3.80	2.90	0.10	0.12		
9	0.15	0.08	0.16	0.14	0.12	6.86	2.60	1.96	3.20	2.80	0.10	0.12		
10	0.12	0.10	0.14	0.12	0.14	14.44	2.08	10.48	3.44	2.70	0.13	0.12		
11	0.10	0.12	0.12	0.10	0.12	2.70	1.42	3.10	4.94	2.60	0.16	0.12		
12	0.09	0.12	1.00	0.10	0.13	0.68	0.80	3.20	3.68	2.80	0.12	0.12		
13	0.08	0.12	0.18	0.12	0.10	0.92	0.72	3.44	3.32	2.60	0.12	0.12		
14	0.08	0.15	0.14	0.12	0.09	2.30	0.72	2.60	3.20	2.50	0.14	0.12		
15	0.08	2.70	0.13	8.40	3.00	5.84	1.00	4.94	3.32	2.50	0.36	0.12		
16	0.07	3.10	2.02	0.48	3.32	6.20	3.32	3.68	3.32	2.40	0.92	0.12		
17	0.15	2.60	0.18	0.16	3.20	2.02	3.44	2.70	3.20	2.30	0.14	0.12		
18	0.24	3.80	0.14	0.14	1.18	1.12	3.68	1.18	3.10	2.14	0.30	0.09		
19	0.14	1.54	0.15	0.12	1.12	0.52	3.20	0.88	3.00	2.08	0.84	0.08		
20	0.13	0.76	0.14	0.12	2.30	0.50	3.68	2.20	3.00	2.02	0.30	0.08		
21	0.08	0.40	0.12	0.11	2.08	0.44	3.44	0.68	2.90	1.96	0.58	0.08		
22	0.08	0.17	0.12	0.10	0.20	0.38	3.10	1.48	2.60	2.20	0.14	0.08		
23	0.08	0.22	0.12	0.11	0.18	0.34	3.20	2.40	2.60	2.50	0.14	0.08		
24	0.08	0.17	0.14	0.12	0.68	0.60	3.10	0.32	2.50	2.50	0.15	0.06		
25	0.08	0.60	0.12	0.15	9.96	0.34	4.28	0.40	2.70	2.70	0.15	0.05		
26	0.10	0.88	0.12	2.60	3.68	0.20	4.16	0.38	2.70	2.60	0.15	0.03		
27	0.12	2.90	0.12	3.68	6.86	0.18	3.44	2.50	2.80	2.20	0.14	0.03		
28	0.10	1.42	0.10	1.00	1.54	0.19	3.68	1.12	2.70	2.08	0.14	0.03		
29	0.11	0.18	0.56	2.70	1.24	0.20	3.56	0.68	2.70	2.20		0.02		
30	0.12	0.19	2.70	1.48	2.30	0.20	3.20	2.60	2.80	2.20		0.02		
31		0.18		0.38	1.84		3.32		2.60	2.20		0.03		
Total	3.62	23.62	21.61	24.04	48.52	53.10	121.77	76.06	92.08	75.88	13.67	2.85	556.82	CMSDAY
Mean	0.12	0.76	0.72	0.78	1.57	1.77	3.93	2.54	2.97	2.45	0.49	0.09	1.53	CMS
Max	0.34	3.80	4.94	8.40	9.96	14.44	21.58	10.48	4.94	2.90	2.60	0.14	21.58	CMS
Min	0.07	0.08	0.10	0.10	0.09	0.16	0.19	0.32	0.38	1.96	0.10	0.02	0.02	CMS
Runoff	0.31	2.04	1.87	2.08	4.19	4.59	10.52	6.57	7.96	6.56	1.18	0.25	48.11	MCM

Momentary Peak 32.00 CMS. at 16.10 m. (MSL.) at 14.00 Hours , on Aug 25 , 2014

Runoff Yield 54.48 Liters/Second/Square KM. Momentary Peak Yield 1106.501 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

Lat 07 - 53 - 20 N Long 98 - 23 - 40 E

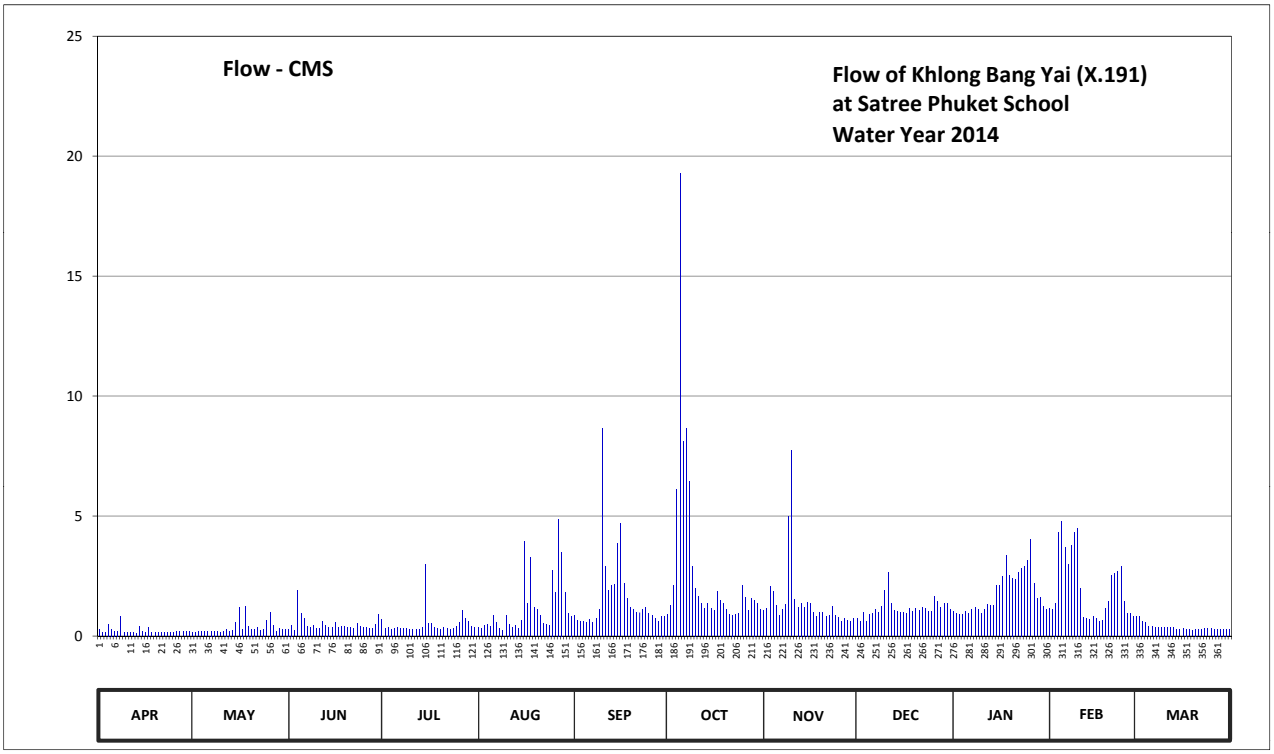
Location : on left bank at Satree Phuket School.

	Ban -	**Amphoe** Mueang	**Changwat** Phuket
Drainge Area	54 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 8 meters from the top staff gage.	**Elevation**	+4.964 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Flot	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.47	1.41	1.49	1.68	1.53	1.74	1.76	1.82	1.69	1.81	1.85	1.73	
2	1.41	1.40	1.58	1.51	1.51	1.66	1.89	1.85	1.64	1.78	1.84	1.73	
3	1.40	1.42	1.46	1.54	1.57	1.64	2.08	2.07	1.80	1.76	1.92	1.65	
4	1.60	1.43	2.04	1.49	1.60	1.65	2.57	2.03	1.65	1.76	2.39	1.62	
5	1.49	1.43	1.77	1.51	1.55	1.63	3.43	1.89	1.76	1.81	2.44	1.55	
6	1.44	1.43	1.70	1.52	1.74	1.67	2.74	1.74	1.78	1.77	2.32	1.55	
7	1.44	1.44	1.56	1.50	1.62	1.63	2.78	1.83	1.83	1.83	2.23	1.54	
8	1.72	1.44	1.52	1.51	1.51	1.69	2.60	1.90	1.80	1.86	2.33	1.54	
9	1.41	1.42	1.57	1.51	1.46	1.84	2.22	2.46	1.88	1.83	2.39	1.53	
10	1.40	1.41	1.51	1.49	1.74	2.78	2.06	2.71	2.04	1.78	2.41	1.54	
11	1.40	1.42	1.51	1.48	1.60	2.22	1.99	1.96	2.18	1.83	2.06	1.54	
12	1.40	1.49	1.64	1.48	1.53	2.04	1.91	1.87	1.91	1.90	1.71	1.54	
13	1.38	1.44	1.58	1.48	1.58	2.08	1.85	1.92	1.82	1.89	1.69	1.53	
14	1.55	1.45	1.54	1.53	1.51	2.09	1.91	1.87	1.81	1.89	1.68	1.48	
15	1.43	1.63	1.52	2.23	1.66	2.34	1.85	1.93	1.80	2.08	1.72	1.47	
16	1.41	1.86	1.63	1.61	2.35	2.43	1.82	1.91	1.79	2.08	1.70	1.51	
17	1.54	1.49	1.54	1.61	1.91	2.10	2.03	1.80	1.77	2.15	1.64	1.49	
18	1.41	1.88	1.56	1.53	2.27	1.97	1.95	1.73	1.85	2.28	1.66	1.48	
19	1.40	1.56	1.55	1.50	1.86	1.86	1.92	1.80	1.81	2.16	1.85	1.46	
20	1.40	1.49	1.52	1.48	1.84	1.83	1.83	1.79	1.85	2.14	1.94	1.49	
21	1.41	1.49	1.52	1.52	1.74	1.80	1.76	1.73	1.82	2.13	2.16	1.48	
22	1.41	1.53	1.50	1.50	1.61	1.79	1.75	1.75	1.86	2.18	2.17	1.48	
23	1.41	1.46	1.61	1.49	1.59	1.83	1.76	1.88	1.85	2.21	2.19	1.50	
24	1.41	1.49	1.55	1.50	1.58	1.87	1.78	1.75	1.81	2.22	2.22	1.50	
25	1.41	1.66	1.52	1.56	2.20	1.78	2.08	1.71	1.81	2.25	1.94	1.51	
26	1.42	1.80	1.52	1.63	2.02	1.74	1.98	1.65	1.99	2.36	1.78	1.49	
27	1.43	1.57	1.51	1.82	2.45	1.70	1.82	1.70	1.94	2.10	1.77	1.49	
28	1.43	1.44	1.50	1.69	2.30	1.64	1.97	1.66	1.86	1.97	1.73	1.49	
29	1.43	1.50	1.60	1.65	2.02	1.73	1.95	1.65	1.92	1.98		1.49	
30	1.43	1.48	1.76	1.55	1.77	1.73	1.91	1.69	1.91	1.88		1.49	
31		1.48		1.53	1.73		1.83		1.84	1.83		1.48	
Mean	1.44	1.51	1.58	1.57	1.77	1.88	2.06	1.87	1.84	1.98	1.99	1.53	
Max	1.72	1.88	2.04	2.23	2.45	2.78	3.43	2.71	2.18	2.36	2.44	1.73	3.43
Min	1.38	1.40	1.46	1.48	1.46	1.63	1.75	1.65	1.64	1.76	1.64	1.46	1.38

Annual Max Momentary Gage Height	3.96	m. (MSL.) ,	at 19.00 Hours , on Oct 5 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	1.16	m. (MSL.)
Left Bank Elevation	4.90	m. (MSL.) ,			
Right Bank Elevation	4.89	m. (MSL.) ,	Drainage Area	54	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	0.16	0.29	0.70	0.36	0.85	0.90	1.06	0.73	1.03	1.15	0.83		
2	0.16	0.15	0.46	0.32	0.32	0.65	1.27	1.15	0.60	0.95	1.12	0.83		
3	0.15	0.18	0.24	0.38	0.44	0.60	2.10	2.05	1.00	0.90	1.38	0.62		
4	0.50	0.19	1.90	0.29	0.50	0.62	6.12	1.85	0.62	0.90	4.31	0.55		
5	0.29	0.19	0.93	0.32	0.40	0.58	19.27	1.27	0.90	1.03	4.78	0.40		
6	0.21	0.19	0.75	0.34	0.85	0.67	8.12	0.85	0.95	0.93	3.68	0.40		
7	0.21	0.21	0.42	0.30	0.55	0.58	8.64	1.09	1.09	1.09	2.98	0.38		
8	0.80	0.21	0.34	0.32	0.32	0.73	6.45	1.30	1.00	1.18	3.77	0.38		
9	0.16	0.18	0.44	0.32	0.24	1.12	2.90	4.97	1.24	1.09	4.31	0.36		
10	0.15	0.16	0.32	0.29	0.85	8.64	2.00	7.73	1.90	0.95	4.50	0.38		
11	0.15	0.18	0.32	0.27	0.50	2.90	1.66	1.54	2.64	1.09	2.00	0.38		
12	0.15	0.29	0.60	0.27	0.36	1.90	1.34	1.21	1.34	1.30	0.78	0.38		
13	0.12	0.21	0.46	0.27	0.46	2.10	1.15	1.38	1.06	1.27	0.73	0.36		
14	0.40	0.23	0.38	0.36	0.32	2.15	1.34	1.21	1.03	1.27	0.70	0.27		
15	0.19	0.58	0.34	2.98	0.65	3.86	1.15	1.42	1.00	2.10	0.80	0.26		
16	0.16	1.18	0.58	0.52	3.95	4.69	1.06	1.34	0.98	2.10	0.75	0.32		
17	0.38	0.29	0.38	0.52	1.34	2.20	1.85	1.00	0.93	2.48	0.60	0.29		
18	0.16	1.24	0.42	0.36	3.28	1.58	1.50	0.83	1.15	3.35	0.65	0.27		
19	0.15	0.42	0.40	0.30	1.18	1.18	1.38	1.00	1.03	2.53	1.15	0.24		
20	0.15	0.29	0.34	0.27	1.12	1.09	1.09	0.98	1.15	2.42	1.46	0.29		
21	0.16	0.29	0.34	0.34	0.85	1.00	0.90	0.83	1.06	2.37	2.53	0.27		
22	0.16	0.36	0.30	0.30	0.52	0.98	0.88	0.88	1.18	2.64	2.59	0.27		
23	0.16	0.24	0.52	0.29	0.48	1.09	0.90	1.24	1.15	2.83	2.70	0.30		
24	0.16	0.29	0.40	0.30	0.46	1.21	0.95	0.88	1.03	2.90	2.90	0.30		
25	0.16	0.65	0.34	0.42	2.75	0.95	2.10	0.78	1.03	3.13	1.46	0.32		
26	0.18	1.00	0.34	0.58	1.80	0.85	1.62	0.62	1.66	4.04	0.95	0.29		
27	0.19	0.44	0.32	1.06	4.88	0.75	1.06	0.75	1.46	2.20	0.93	0.29		
28	0.19	0.21	0.30	0.73	3.50	0.60	1.58	0.65	1.18	1.58	0.83	0.29		
29	0.19	0.30	0.50	0.62	1.80	0.83	1.50	0.62	1.38	1.62		0.29		
30	0.19	0.27	0.90	0.40	0.93	0.83	1.34	0.73	1.34	1.24		0.29		
31		0.27		0.36	0.83		1.09		1.12	1.09		0.27		
Total	6.64	11.05	14.57	15.10	36.79	47.78	85.21	43.21	35.93	55.60	56.49	11.37	419.74	CMSDAY
Mean	0.22	0.36	0.49	0.49	1.19	1.59	2.75	1.44	1.16	1.79	2.02	0.37	1.15	CMS
Max	0.80	1.24	1.90	2.98	4.88	8.64	19.27	7.73	2.64	4.04	4.78	0.83	19.27	CMS
Min	0.12	0.15	0.24	0.27	0.24	0.58	0.88	0.62	0.60	0.90	0.60	0.24	0.12	CMS
Runoff	0.57	0.96	1.26	1.31	3.18	4.13	7.36	3.73	3.10	4.80	4.88	0.98	36.27	MCM

Momentary Peak 29.70 CMS. at 3.96 m. (MSL.) at 19.00 Hours , on Oct 5 , 2014

Runoff Yield 21.30 Liters/Second/Square KM. Momentary Peak Yield 549.390 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Lower Trang River at Ban Pa Mak , Trang (X.234)

Lat 07 - 35 - 21 N Long 99 - 34 - 39 E

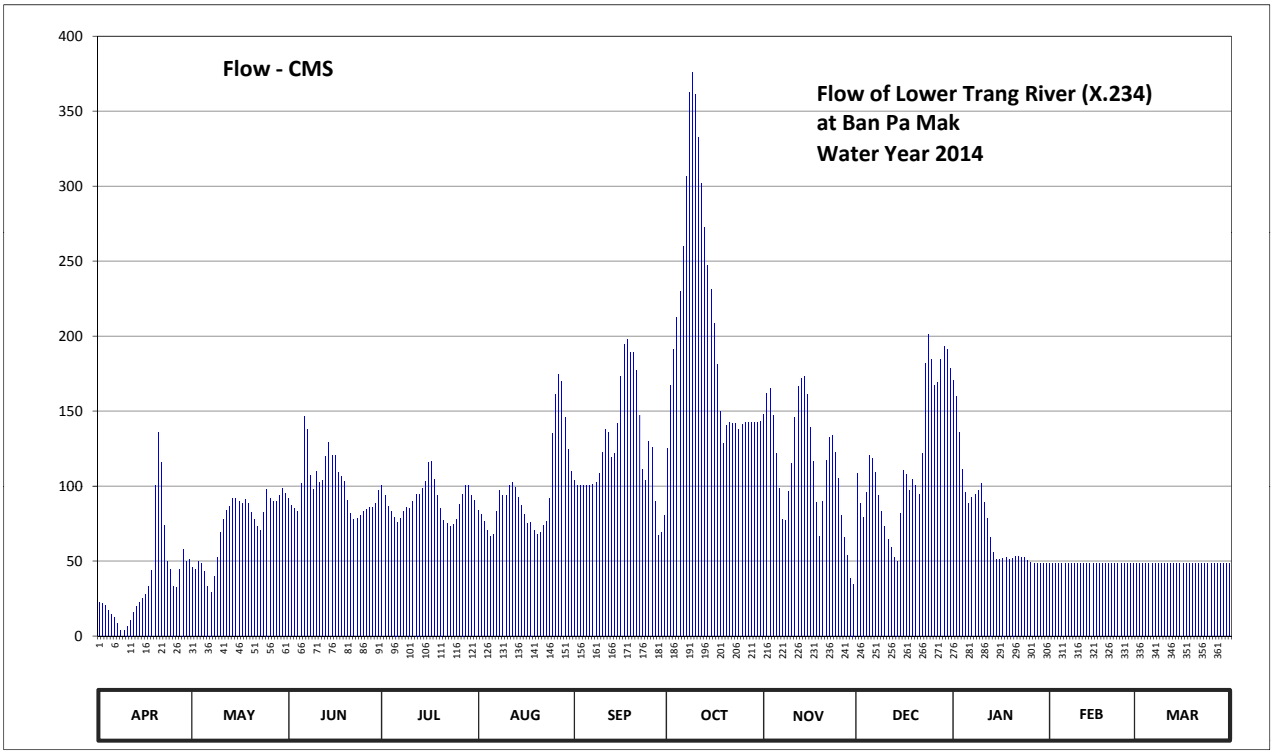
Location : on left bank at Ban Pa Mak.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	1.10	1.99	2.16	1.85	2.21	2.57	2.90	2.29	3.22	1.16	1.16	
2	0.56	1.08	1.91	2.03	1.80	2.16	3.17	3.10	1.93	3.07	1.16	1.16	
3	0.53	1.19	1.87	1.90	1.72	2.15	3.52	3.14	1.77	2.73	1.16	1.16	
4	0.45	1.17	1.84	1.84	1.61	2.15	3.81	2.89	2.07	2.34	1.16	1.16	
5	0.39	1.05	2.18	1.77	1.53	2.15	4.04	2.52	2.49	2.07	1.16	1.16	
6	0.33	0.83	2.88	1.71	1.56	2.15	4.41	2.12	2.46	1.93	1.16	1.16	
7	0.23	0.74	2.75	1.75	1.84	2.17	4.99	1.74	2.30	2.01	1.16	1.16	
8	0.11	0.97	2.27	1.84	2.09	2.19	5.64	1.73	2.03	2.04	1.16	1.16	
9	0.10	1.25	2.10	1.89	2.03	2.29	5.79	2.08	1.84	2.09	1.16	1.16	
10	0.19	1.58	2.31	1.88	2.03	2.53	5.62	2.40	1.66	2.18	1.16	1.16	
11	0.29	1.74	2.19	1.96	2.16	2.75	5.30	2.87	1.49	1.95	1.16	1.16	
12	0.42	1.85	2.21	2.05	2.19	2.73	4.93	3.16	1.38	1.75	1.16	1.16	
13	0.52	1.90	2.48	2.05	2.13	2.47	4.57	3.24	1.25	1.52	1.16	1.16	
14	0.59	1.99	2.63	2.12	2.01	2.52	4.25	3.26	1.20	1.31	1.16	1.16	
15	0.65	2.00	2.49	2.20	1.91	2.81	4.05	3.09	1.81	1.22	1.16	1.16	
16	0.70	1.96	2.49	2.41	1.80	3.26	3.75	2.77	2.32	1.22	1.16	1.16	
17	0.83	1.94	2.30	2.43	1.69	3.56	3.37	2.42	2.28	1.24	1.16	1.16	
18	1.06	1.98	2.26	2.22	1.71	3.61	2.93	1.95	2.09	1.25	1.16	1.16	
19	2.16	1.94	2.20	2.03	1.61	3.49	2.62	1.53	2.22	1.22	1.16	1.16	
20	2.73	1.82	1.97	1.88	1.55	3.49	2.79	1.96	2.16	1.24	1.16	1.16	
21	2.41	1.74	1.81	1.73	1.58	3.32	2.82	2.44	2.04	1.26	1.16	1.16	
22	1.67	1.66	1.74	1.69	1.67	2.89	2.81	2.68	2.51	1.26	1.16	1.16	
23	1.19	1.61	1.75	1.66	1.72	2.34	2.81	2.70	3.38	1.25	1.16	1.16	
24	1.08	1.82	1.79	1.68	2.00	2.21	2.76	2.53	3.66	1.25	1.16	1.16	
25	0.83	2.11	1.84	1.74	2.72	2.64	2.80	2.24	3.42	1.21	1.16	1.16	
26	0.81	1.99	1.86	1.92	3.09	2.58	2.82	1.79	3.17	1.18	1.16	1.16	
27	1.07	1.96	1.89	2.05	3.28	1.96	2.82	1.51	3.20	1.17	1.16	1.16	
28	1.36	1.96	1.89	2.16	3.21	1.54	2.82	1.27	3.42	1.17	1.16	1.16	
29	1.19	2.03	1.94	2.16	2.87	1.58	2.82	0.95	3.55	1.16		1.16	
30	1.22	2.12	2.09	2.03	2.56	1.79	2.82	0.86	3.52	1.16		1.16	
31		2.06		1.97	2.31		2.83		3.34	1.16		1.16	
Mean	0.88	1.65	2.13	1.96	2.06	2.52	3.65	2.33	2.40	1.64	1.16	1.16	
Max	2.73	2.12	2.88	2.43	3.28	3.61	5.79	3.26	3.66	3.22	1.16	1.16	5.79
Min	0.10	0.74	1.74	1.66	1.53	1.54	2.57	0.86	1.20	1.16	1.16	1.16	0.10

Annual Max Momentary Gage Height	5.82	m. (MSL.) ,	at 07.00 Hours , on Oct 9 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-2.05	m. (MSL.)
Left Bank Elevation	6.65	m. (MSL.) ,			
Right Bank Elevation	6.68	m. (MSL.) ,	Drainage Area	2808	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.20	45.50	91.45	100.80	83.75	103.60	125.20	148.00	108.40	170.40	48.20	48.20		
2	21.40	44.60	87.05	93.65	81.00	100.80	166.90	162.00	88.15	159.90	48.20	48.20		
3	20.20	49.55	84.85	86.50	76.60	100.25	191.40	164.80	79.35	136.10	48.20	48.20		
4	17.00	48.65	83.20	83.20	70.55	100.25	212.75	147.30	95.85	111.40	48.20	48.20		
5	14.60	43.25	101.90	79.35	66.50	100.25	230.20	122.20	120.40	95.85	48.20	48.20		
6	12.20	33.35	146.60	76.05	68.00	100.25	259.80	98.60	118.60	88.15	48.20	48.20		
7	8.20	29.30	137.50	78.25	83.20	101.35	306.20	77.70	109.00	92.55	48.20	48.20		
8	3.85	39.65	107.20	83.20	96.95	102.45	362.60	77.15	93.65	94.20	48.20	48.20		
9	3.50	52.50	97.50	85.95	93.65	108.40	376.10	96.40	83.20	96.95	48.20	48.20		
10	6.65	69.00	109.60	85.40	93.65	122.80	360.80	115.00	73.30	101.90	48.20	48.20		
11	10.60	77.70	102.45	89.80	100.80	137.50	332.50	145.90	64.50	89.25	48.20	48.20		
12	15.80	83.75	103.60	94.75	102.45	136.10	301.40	166.20	59.00	78.25	48.20	48.20		
13	19.80	86.50	119.80	94.75	99.15	119.20	272.60	171.80	52.50	66.00	48.20	48.20		
14	22.60	91.45	129.10	98.60	92.55	122.20	247.00	173.20	50.00	55.50	48.20	48.20		
15	25.25	92.00	120.40	103.00	87.05	141.70	231.00	161.30	81.55	51.00	48.20	48.20		
16	27.50	89.80	120.40	115.60	81.00	173.20	208.25	138.90	110.20	51.00	48.20	48.20		
17	33.35	88.70	109.00	116.80	74.95	194.20	180.90	116.20	107.80	52.00	48.20	48.20		
18	43.70	90.90	106.60	104.20	76.05	197.75	150.10	89.25	96.95	52.50	48.20	48.20		
19	100.80	88.70	103.00	93.65	70.55	189.30	128.40	66.50	104.20	51.00	48.20	48.20		
20	136.10	82.10	90.35	85.40	67.50	189.30	140.30	89.80	100.80	52.00	48.20	48.20		
21	115.60	77.70	81.55	77.15	69.00	177.40	142.40	117.40	94.20	53.00	48.20	48.20		
22	73.85	73.30	77.70	74.95	73.85	147.30	141.70	132.60	121.60	53.00	48.20	48.20		
23	49.55	70.55	78.25	73.30	76.60	111.40	141.70	134.00	181.60	52.50	48.20	48.20		
24	44.60	82.10	80.45	74.40	92.00	103.60	138.20	122.80	201.50	52.50	48.20	48.20		
25	33.35	98.05	83.20	77.70	135.40	129.80	141.00	105.40	184.40	50.50	48.20	48.20		
26	32.45	91.45	84.30	87.60	161.30	125.80	142.40	80.45	166.90	49.10	48.20	48.20		
27	44.15	89.80	85.95	94.75	174.60	89.80	142.40	65.50	169.00	48.65	48.20	48.20		
28	58.00	89.80	85.95	100.80	169.70	67.00	142.40	53.50	184.40	48.65	48.20	48.20		
29	49.55	93.65	88.70	100.80	145.90	69.00	142.40	38.75	193.50	48.20		48.20		
30	51.00	98.60	96.95	93.65	124.60	80.45	142.40	34.70	191.40	48.20		48.20		
31		95.30		90.35	109.60		143.10		178.80	48.20		48.20		
Total	1117.40	2287.25	2994.55	2794.35	2998.45	3742.40	6344.50	3413.30	3664.70	2298.40	1349.60	1494.20	34499.10	CMSDAY
Mean	37.25	73.78	99.82	90.14	96.72	124.75	204.66	113.78	118.22	74.14	48.20	48.20	94.52	CMS
Max	136.10	98.60	146.60	116.80	174.60	197.75	376.10	173.20	201.50	170.40	48.20	48.20	376.10	CMS
Min	3.50	29.30	77.70	73.30	66.50	67.00	125.20	34.70	50.00	48.20	48.20	48.20	3.50	CMS
Runoff	96.54	197.62	258.73	241.43	259.07	323.34	548.17	294.91	316.63	198.58	116.61	129.10	2980.72	MCM

Momentary Peak 378.80 CMS. at 5.82 m. (MSL.) at 07.00 Hours , on Oct 9 , 2014

Runoff Yield 33.66 Liters/Second/Square KM. Momentary Peak Yield 134.878 Liters/Second/Square KM.

WATER YEAR : 2014

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

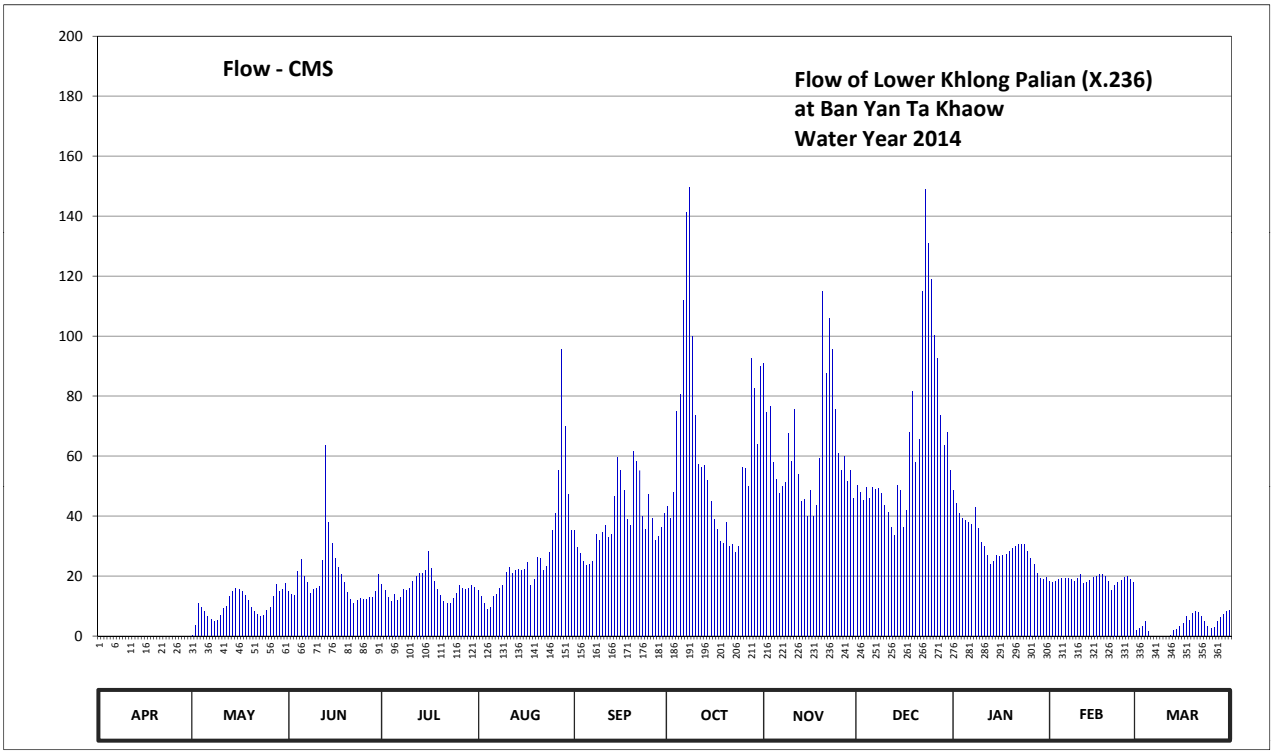
Location : on right bank at Ban Yan Ta Khaow.

	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 Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.58	-0.38	0.59	0.69	0.61	1.33	1.53	2.58	1.71	1.66	0.73	-0.21	
2	-0.63	-0.04	0.55	0.61	0.53	1.18	1.43	2.25	1.65	1.56	0.71	-0.16	
3	-0.70	0.43	0.54	0.52	0.44	1.10	1.65	2.29	1.58	1.47	0.73	-0.07	
4	-0.68	0.36	0.86	0.46	0.33	1.00	2.26	1.90	1.69	1.43	0.75	0.06	
5	-0.64	0.28	1.02	0.56	0.36	0.94	2.37	1.76	1.60	1.41	0.77	-0.26	
6	-0.86	0.16	0.80	0.48	0.53	0.96	2.93	1.64	1.69	1.40	0.77	-0.58	
7	-1.07	0.09	0.72	0.51	0.56	0.99	3.39	1.70	1.67	1.38	0.77	-0.73	
8	-1.06	0.06	0.57	0.62	0.64	1.30	3.51	1.73	1.68	1.52	0.75	-0.70	
9	-1.04	0.08	0.62	0.61	0.68	1.25	2.73	2.11	1.64	1.35	0.73	-0.70	
10	-1.01	0.20	0.63	0.63	0.85	1.31	2.23	1.91	1.54	1.23	0.77	-0.66	
11	-0.93	0.35	0.66	0.73	0.91	1.37	1.88	2.27	1.48	1.19	0.82	-0.54	
12	-0.88	0.39	1.01	0.80	0.84	1.27	1.86	1.80	1.36	1.07	0.70	-0.38	
13	-0.83	0.53	2.03	0.84	0.87	1.30	1.87	1.57	1.29	0.96	0.71	-0.22	
14	-0.78	0.59	1.40	0.84	0.89	1.61	1.75	1.59	1.71	1.00	0.74	-0.19	
15	-0.72	0.63	1.22	0.87	0.87	1.94	1.57	1.45	1.66	1.07	0.78	-0.08	
16	-0.60	0.62	1.03	1.13	0.89	1.83	1.42	1.66	1.36	1.06	0.80	0.02	
17	-0.57	0.60	0.92	0.90	0.98	1.66	1.34	1.45	1.50	1.08	0.82	0.17	
18	-0.73	0.54	0.82	0.73	0.67	1.42	1.24	1.54	2.12	1.09	0.82	0.08	
19	-0.53	0.47	0.71	0.62	0.76	1.37	1.22	1.93	2.39	1.13	0.79	0.23	
20	-0.63	0.37	0.58	0.54	1.05	1.99	1.40	2.98	1.90	1.17	0.73	0.28	
21	-0.60	0.28	0.49	0.46	1.03	1.91	1.20	2.51	2.07	1.20	0.61	0.26	
22	-0.69	0.21	0.44	0.44	0.88	1.83	1.21	2.83	2.98	1.21	0.68	0.17	
23	-0.77	0.17	0.47	0.43	0.93	1.45	1.11	2.66	3.50	1.21	0.71	0.05	
24	-0.80	0.19	0.50	0.50	1.11	1.34	1.19	2.27	3.24	1.21	0.74	-0.09	
25	-0.74	0.31	0.49	0.57	1.33	1.63	1.86	1.97	3.05	1.13	0.78	-0.16	
26	-0.66	0.36	0.49	0.67	1.47	1.43	1.85	1.83	2.74	1.04	0.80	-0.12	
27	-0.58	0.53	0.51	0.64	1.83	1.25	1.70	1.95	2.61	0.95	0.76	0.06	
28	-0.53	0.69	0.52	0.62	2.66	1.28	2.61	1.74	2.23	0.84	0.71	0.14	
29	-0.49	0.60	0.59	0.64	2.16	1.36	2.41	1.83	2.03	0.77		0.22	
30	-0.47	0.62	0.82	0.67	1.63	1.47	2.04	1.60	2.12	0.76		0.28	
31		0.70		0.65	1.33		2.56		1.83	0.78		0.31	
Mean	-0.73	0.35	0.75	0.64	0.99	1.40	1.91	1.98	1.99	1.17	0.75	-0.11	
Max	-0.47	0.70	2.03	1.13	2.66	1.99	3.51	2.98	3.50	1.66	0.82	0.31	3.51
Min	-1.07	-0.38	0.44	0.43	0.33	0.94	1.11	1.45	1.29	0.76	0.61	-0.73	-1.07

Annual Max Momentary Gage Height	3.78	m. (MSL.) ,	at 02.00 Hours , on Oct 8 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-1.21	m. (MSL.)
Left Bank Elevation	7.44	m. (MSL.) ,			
Right Bank Elevation	7.44	m. (MSL.) ,	Drainage Area	587	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.20	14.75	17.25	15.25	35.20	43.20	91.00	50.40	48.40	18.25	1.90		
2	0.00	3.60	13.75	15.25	13.25	29.50	39.20	74.50	48.00	44.40	17.75	2.40		
3	0.00	10.75	13.50	13.00	11.00	27.50	48.00	76.50	45.20	40.80	18.25	3.30		
4	0.00	9.40	21.50	11.50	8.95	25.00	75.00	58.00	49.60	39.20	18.75	4.90		
5	0.00	8.20	25.50	14.00	9.40	23.50	80.50	52.40	46.00	38.40	19.25	1.40		
6	0.00	6.40	20.00	12.00	13.25	24.00	111.80	47.60	49.60	38.00	19.25	0.00		
7	0.00	5.35	18.00	12.75	14.00	24.75	141.30	50.00	48.80	37.20	19.25	0.00		
8	0.00	4.90	14.25	15.50	16.00	34.00	149.70	51.20	49.20	42.80	18.75	0.00		
9	0.00	5.20	15.50	15.25	17.00	32.00	99.80	67.50	47.60	36.00	18.25	0.00		
10	0.00	7.00	15.75	15.75	21.25	34.40	73.50	58.40	43.60	31.20	19.25	0.00		
11	0.00	9.25	16.50	18.25	22.75	36.80	57.20	75.50	41.20	29.75	20.50	0.00		
12	0.00	9.85	25.25	20.00	21.00	32.80	56.40	54.00	36.40	26.75	17.50	0.20		
13	0.00	13.25	63.50	21.00	21.75	34.00	56.80	44.80	33.60	24.00	17.75	1.80		
14	0.00	14.75	38.00	21.00	22.25	46.40	52.00	45.60	50.40	25.00	18.50	2.10		
15	0.00	15.75	30.80	21.75	21.75	59.60	44.80	40.00	48.40	26.75	19.50	3.20		
16	0.00	15.50	25.75	28.25	22.25	55.20	38.80	48.40	36.40	26.50	20.00	4.30		
17	0.00	15.00	23.00	22.50	24.50	48.40	35.60	40.00	42.00	27.00	20.50	6.55		
18	0.00	13.50	20.50	18.25	16.75	38.80	31.60	43.60	68.00	27.25	20.50	5.20		
19	0.00	11.75	17.75	15.50	19.00	36.80	30.80	59.20	81.50	28.25	19.75	7.45		
20	0.00	9.55	14.50	13.50	26.25	61.60	38.00	114.80	58.00	29.25	18.25	8.20		
21	0.00	8.20	12.25	11.50	25.75	58.40	30.00	87.50	65.50	30.00	15.25	7.90		
22	0.00	7.15	11.00	11.00	22.00	55.20	30.40	105.80	114.80	30.40	17.00	6.55		
23	0.00	6.55	11.75	10.75	23.25	40.00	27.75	95.60	149.00	30.40	17.75	4.75		
24	0.00	6.85	12.50	12.50	27.75	35.60	29.75	75.50	130.80	30.40	18.50	3.10		
25	0.00	8.65	12.25	14.25	35.20	47.20	56.40	60.80	119.00	28.25	19.50	2.40		
26	0.00	9.40	12.25	16.75	40.80	39.20	56.00	55.20	100.40	26.00	20.00	2.80		
27	0.00	13.25	12.75	16.00	55.20	32.00	50.00	60.00	92.60	23.75	19.00	4.90		
28	0.00	17.25	13.00	15.50	95.60	33.20	92.60	51.60	73.50	21.00	17.75	6.10		
29	0.00	15.00	14.75	16.00	70.00	36.40	82.50	55.20	63.50	19.25		7.30		
30	0.00	15.50	20.50	16.75	47.20	40.80	64.00	46.00	68.00	19.00		8.20		
31		17.50		16.25	35.20		90.00		55.20	19.50		8.65		
Total	0.00	314.45	581.05	499.50	835.55	1158.25	1913.40	1886.20	2006.20	944.85	524.50	115.55	10779.50	CMSDAY
Mean	0.00	10.14	19.37	16.11	26.95	38.61	61.72	62.87	64.72	30.48	18.73	3.73	29.53	CMS
Max	0.00	17.50	63.50	28.25	95.60	61.60	149.70	114.80	149.00	48.40	20.50	8.65	149.70	CMS
Min	0.00	0.20	11.00	10.75	8.95	23.50	27.75	40.00	33.60	19.00	15.25	0.00	0.00	CMS
Runoff	0.00	27.17	50.20	43.16	72.19	100.07	165.32	162.97	173.34	81.64	45.32	9.98	931.35	MCM

Momentary Peak 168.60 CMS. at 3.78 m. (MSL.) at 02.00 Hours , on Oct 8 , 2014

Runoff Yield 50.31 Liters/Second/Square KM. Momentary Peak Yield 286.832 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

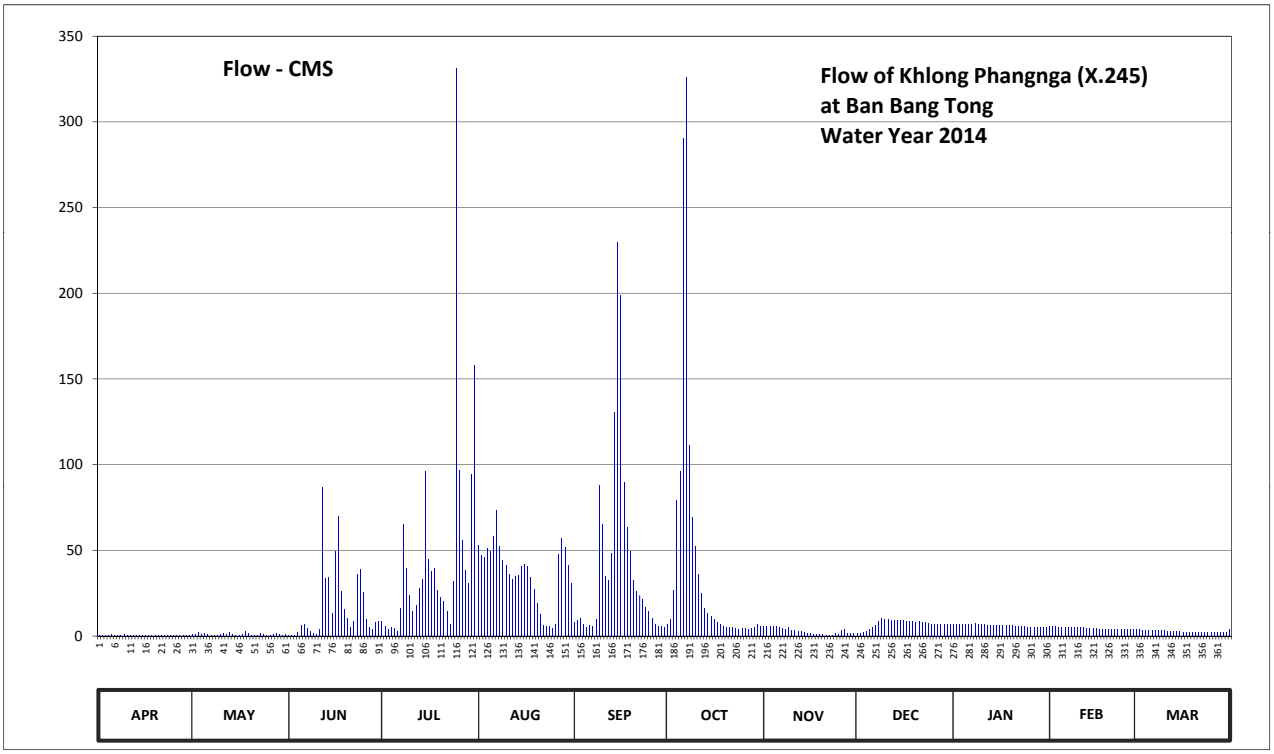
Location : on right bank at Ban Bang Tong.

	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** +16.857 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Flot	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Rather unstable by some scouring.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.66	7.72	7.62	8.09	9.26	8.07	8.03	7.97	7.75	8.04	7.97	7.88	
2	7.61	7.67	7.64	7.97	9.17	8.13	8.16	7.97	7.76	8.04	7.97	7.88	
3	7.55	7.78	7.62	7.88	9.15	8.18	8.74	7.97	7.80	8.03	7.97	7.87	
4	7.52	7.71	7.80	7.94	9.23	8.03	9.61	7.97	7.83	8.03	7.96	7.87	
5	7.67	7.77	8.00	7.92	9.21	7.94	9.81	7.97	7.88	8.03	7.96	7.87	
6	7.55	7.67	8.04	7.84	9.34	8.01	11.31	7.95	7.95	8.02	7.96	7.87	
7	7.56	7.61	7.92	8.40	9.54	7.97	11.52	7.91	8.01	8.04	7.96	7.87	
8	7.58	7.64	7.83	9.44	9.25	8.15	9.97	7.89	8.10	8.06	7.96	7.86	
9	7.67	7.63	7.75	9.04	9.12	9.72	9.49	7.95	8.17	8.04	7.95	7.86	
10	7.64	7.69	7.72	8.64	9.07	9.44	9.25	7.86	8.15	8.03	7.95	7.86	
11	7.59	7.74	7.88	8.34	8.98	8.94	8.98	7.86	8.14	8.02	7.94	7.85	
12	7.56	7.68	9.70	8.46	8.90	8.88	8.68	7.85	8.13	8.01	7.94	7.84	
13	7.55	7.79	8.91	8.77	8.94	9.19	8.41	7.85	8.13	8.01	7.93	7.83	
14	7.58	7.67	8.93	8.90	8.96	10.16	8.28	7.79	8.13	8.01	7.92	7.83	
15	7.60	7.62	8.28	9.81	9.06	10.93	8.21	7.76	8.13	8.01	7.92	7.82	
16	7.59	7.66	9.21	9.13	9.08	10.72	8.15	7.73	8.12	8.00	7.91	7.81	
17	7.59	7.68	9.50	9.01	9.06	9.74	8.07	7.72	8.11	8.00	7.90	7.80	
18	7.58	7.83	8.71	9.04	8.93	9.42	8.04	7.70	8.10	8.00	7.90	7.80	
19	7.58	7.75	8.38	8.74	8.75	9.21	7.99	7.69	8.09	8.00	7.89	7.80	
20	7.57	7.66	8.17	8.62	8.51	8.88	7.96	7.67	8.08	8.00	7.89	7.80	
21	7.54	7.62	7.96	8.54	8.26	8.72	7.94	7.66	8.09	7.99	7.88	7.80	
22	7.64	7.61	8.11	8.33	8.00	8.65	7.95	7.65	8.08	7.99	7.88	7.80	
23	7.60	7.73	8.97	8.04	7.99	8.58	7.92	7.65	8.07	7.98	7.88	7.80	
24	7.57	7.69	9.03	8.87	7.98	8.42	7.90	7.75	8.06	7.98	7.88	7.80	
25	7.56	7.63	8.69	11.55	7.92	8.33	7.93	7.69	8.04	7.96	7.88	7.80	
26	7.55	7.66	8.14	9.82	8.04	8.18	7.92	7.86	8.04	7.96	7.88	7.79	
27	7.54	7.70	7.96	9.30	9.18	8.03	7.90	7.90	8.04	7.96	7.88	7.79	
28	7.53	7.75	7.90	9.02	9.32	7.98	7.91	7.76	8.04	7.95	7.88	7.79	
29	7.55	7.67	8.08	8.84	9.24	7.97	7.96	7.75	8.04	7.94		7.79	
30	7.53	7.65	8.10	9.79	9.07	7.96	8.02	7.75	8.04	7.94		7.79	
31		7.68		10.40	8.85		7.98		8.04	7.94		7.90	
Mean	7.58	7.69	8.29	8.85	8.88	8.75	8.58	7.81	8.04	8.00	7.92	7.83	
Max	7.67	7.83	9.70	11.55	9.54	10.93	11.52	7.97	8.17	8.06	7.97	7.90	11.55
Min	7.52	7.61	7.62	7.84	7.92	7.94	7.90	7.65	7.75	7.94	7.88	7.79	7.52

Annual Max Momentary Gage Height	12.13	m. (MSL.) ,	at 12.00 Hours , on Jul 25 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	6.48	m. (MSL.)
Left Bank Elevation	16.60	m. (MSL.) ,			
Right Bank Elevation	17.62	m. (MSL.) ,	Drainage Area	242	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.63	1.22	0.24	8.25	52.90	7.75	6.75	5.40	1.51	7.00	5.40	3.60		
2	0.15	0.73	0.44	5.40	47.20	9.25	10.00	5.40	1.61	7.00	5.40	3.60		
3	0.04	1.81	0.24	3.60	46.00	10.50	26.90	5.40	2.00	6.75	5.40	3.40		
4	0.03	1.12	2.00	4.80	50.95	6.75	78.85	5.40	2.60	6.75	5.20	3.40		
5	0.73	1.71	6.00	4.40	49.65	4.80	95.95	5.40	3.60	6.75	5.20	3.40		
6	0.04	0.73	7.00	2.80	58.10	6.25	290.15	5.00	5.00	6.50	5.20	3.40		
7	0.04	0.15	4.40	16.00	73.20	5.40	326.00	4.20	6.25	7.00	5.20	3.40		
8	0.05	0.44	2.60	65.20	52.25	9.75	111.15	3.80	8.50	7.50	5.20	3.20		
9	0.73	0.34	1.51	39.40	44.20	88.20	69.20	5.00	10.25	7.00	5.00	3.20		
10	0.44	0.93	1.22	23.40	41.20	65.20	52.25	3.20	9.75	6.75	5.00	3.20		
11	0.05	1.41	3.60	14.50	36.20	34.60	36.20	3.20	9.50	6.50	4.80	3.00		
12	0.04	0.83	86.50	17.80	33.00	32.20	24.80	3.00	9.25	6.25	4.80	2.80		
13	0.04	1.90	33.40	27.95	34.60	48.40	16.30	3.00	9.25	6.25	4.60	2.60		
14	0.05	0.73	34.20	33.00	35.40	130.80	13.00	1.90	9.25	6.25	4.40	2.60		
15	0.05	0.24	13.00	95.95	40.60	229.50	11.25	1.61	9.25	6.25	4.40	2.40		
16	0.05	0.63	49.65	44.80	41.80	198.80	9.75	1.32	9.00	6.00	4.20	2.20		
17	0.05	0.83	70.00	37.60	40.60	89.90	7.75	1.22	8.75	6.00	4.00	2.00		
18	0.05	2.60	25.85	39.40	34.20	63.60	7.00	1.02	8.50	6.00	4.00	2.00		
19	0.05	1.51	15.50	26.90	27.25	49.65	5.80	0.93	8.25	6.00	3.80	2.00		
20	0.04	0.63	10.25	22.70	19.30	32.20	5.20	0.73	8.00	6.00	3.80	2.00		
21	0.04	0.24	5.20	20.20	12.50	26.20	4.80	0.63	8.25	5.80	3.60	2.00		
22	0.44	0.15	8.75	14.25	6.00	23.75	5.00	0.54	8.00	5.80	3.60	2.00		
23	0.05	1.32	35.80	7.00	5.80	21.40	4.40	0.54	7.75	5.60	3.60	2.00		
24	0.04	0.93	38.80	31.80	5.60	16.60	4.00	1.51	7.50	5.60	3.60	2.00		
25	0.04	0.34	25.15	331.25	4.40	14.25	4.60	0.93	7.00	5.20	3.60	2.00		
26	0.04	0.63	9.50	96.90	7.00	10.50	4.40	3.20	7.00	5.20	3.60	1.90		
27	0.04	1.02	5.20	55.50	47.80	6.75	4.00	4.00	7.00	5.20	3.60	1.90		
28	0.03	1.51	4.00	38.20	56.80	5.60	4.20	1.61	7.00	5.00	3.60	1.90		
29	0.04	0.73	8.00	30.60	51.60	5.40	5.20	1.51	7.00	4.80		1.90		
30	0.03	0.54	8.50	94.15	41.20	5.20	6.50	1.51	7.00	4.80		1.90		
31		0.83		158.00	31.00		5.60		7.00	4.80		4.00		
Total	4.14	28.73	516.50	1411.70	1128.30	1259.15	1256.95	82.11	220.57	188.30	123.80	80.90	6301.15	CMSDAY
Mean	0.14	0.93	17.22	45.54	36.40	41.97	40.55	2.74	7.12	6.07	4.42	2.61	17.26	CMS
Max	0.73	2.60	86.50	331.25	73.20	229.50	326.00	5.40	10.25	7.50	5.40	4.00	331.25	CMS
Min	0.03	0.15	0.24	2.80	4.40	4.80	4.00	0.54	1.51	4.80	3.60	1.90	0.03	CMS
Runoff	0.36	2.48	44.63	121.97	97.49	108.79	108.60	7.09	19.06	16.27	10.70	6.99	544.42	MCM

Momentary Peak 438.70 CMS. at 12.13 m. (MSL.) at 12.00 Hours , on Jul 25 , 2014

Runoff Yield 71.34 Liters/Second/Square KM. Momentary Peak Yield 1810.192 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Upper Khlong Tha Prae at Ban Karakat , Satun (X.261)

Lat 06 - 50 - 19 N Long 100 - 04 - 10 E

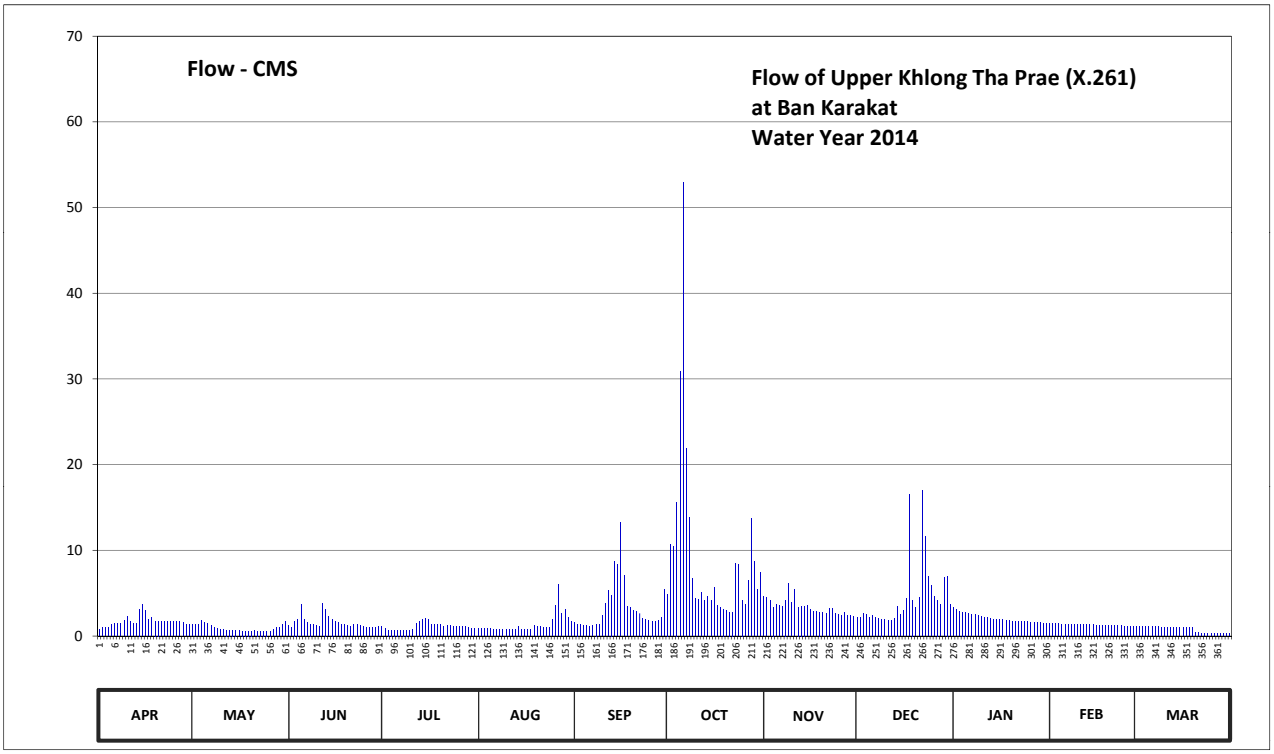
Location : on right bank at Ban Karakat.

	Ban Karakat	**Amphoe** Khuan Kalong	**Changwat** Satun
Drainge Area	99 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.		**Elevation** +30.451 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Flot	-		
Rated by Current Meter	2007 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.66	26.76	26.74	26.72	26.67	26.82	27.44	27.41	26.93	27.17	26.80	26.73	
2	26.69	26.76	26.71	26.67	26.67	26.78	28.02	27.40	26.93	27.12	26.80	26.73	
3	26.71	26.76	26.85	26.64	26.67	26.76	28.00	27.33	27.03	27.08	26.79	26.72	
4	26.71	26.87	26.90	26.64	26.67	26.75	28.41	27.18	27.00	27.06	26.79	26.72	
5	26.76	26.82	27.23	26.64	26.67	26.74	29.22	27.24	26.94	27.06	26.78	26.73	
6	26.80	26.80	26.88	26.64	26.66	26.73	30.08	27.21	26.97	27.02	26.78	26.73	
7	26.80	26.74	26.82	26.64	26.66	26.74	28.77	27.19	26.94	27.00	26.78	26.72	
8	26.80	26.70	26.78	26.64	26.66	26.78	28.29	27.34	26.91	27.00	26.77	26.72	
9	26.87	26.67	26.76	26.64	26.66	26.77	27.62	27.56	26.90	26.98	26.77	26.71	
10	26.95	26.66	26.75	26.64	26.66	26.98	27.38	27.29	26.88	26.95	26.77	26.71	
11	26.83	26.66	26.73	26.65	26.66	27.25	27.35	27.49	26.87	26.94	26.76	26.71	
12	26.80	26.64	27.25	26.80	26.66	27.48	27.46	27.18	26.86	26.93	26.76	26.71	
13	26.80	26.64	27.13	26.83	26.66	27.43	27.32	27.20	26.91	26.91	26.76	26.71	
14	27.13	26.64	26.95	26.90	26.72	27.82	27.41	27.20	27.20	26.90	26.76	26.70	
15	27.24	26.64	26.90	26.92	26.66	27.78	27.33	27.22	27.01	26.89	26.76	26.70	
16	27.09	26.63	26.83	26.89	26.66	28.25	27.52	27.12	27.10	26.89	26.75	26.69	
17	26.89	26.62	26.81	26.78	26.66	27.66	27.21	27.08	27.37	26.88	26.75	26.69	
18	26.94	26.62	26.78	26.77	26.66	27.19	27.16	27.07	28.47	26.87	26.75	26.69	
19	26.85	26.62	26.76	26.76	26.75	27.16	27.13	27.06	27.34	26.86	26.75	26.69	
20	26.85	26.62	26.75	26.76	26.72	27.09	27.10	27.04	27.17	26.85	26.75	26.59	
21	26.84	26.63	26.73	26.73	26.72	27.08	27.06	27.02	27.39	26.85	26.75	26.57	
22	26.84	26.62	26.76	26.74	26.70	27.03	27.06	27.14	28.50	26.84	26.75	26.56	
23	26.84	26.62	26.76	26.74	26.70	26.92	27.80	27.14	28.11	26.84	26.75	26.56	
24	26.84	26.62	26.74	26.72	26.70	26.88	27.78	27.03	27.64	26.83	26.74	26.56	
25	26.84	26.62	26.73	26.72	26.89	26.87	27.34	27.00	27.54	26.83	26.73	26.56	
26	26.84	26.62	26.71	26.72	27.21	26.85	27.23	26.99	27.41	26.82	26.73	26.55	
27	26.83	26.65	26.70	26.72	27.55	26.83	27.60	27.05	27.34	26.82	26.73	26.55	
28	26.82	26.70	26.69	26.72	27.02	26.86	28.28	26.98	27.24	26.81	26.73	26.55	
29	26.77	26.71	26.70	26.69	27.11	26.94	27.82	26.97	27.63	26.81		26.55	
30	26.76	26.76	26.73	26.68	26.94	27.49	27.49	26.95	27.65	26.80		26.55	
31		26.84		26.67	26.84		27.69		27.24	26.80		26.55	
Mean	26.85	26.69	26.82	26.72	26.77	27.09	27.72	27.17	27.27	26.92	26.76	26.65	
Max	27.24	26.87	27.25	26.92	27.55	28.25	30.08	27.56	28.50	27.17	26.80	26.73	30.08
Min	26.66	26.62	26.69	26.64	26.66	26.73	27.06	26.95	26.86	26.80	26.73	26.55	26.55

Annual Max Momentary Gage Height	30.87	m. (MSL.) ,	at 03.00 Hours , on Oct 6 , 2014		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	26.41	m. (MSL.)
Left Bank Elevation	32.45	m. (MSL.) ,			
Right Bank Elevation	32.44	m. (MSL.) ,	Drainage Area	99	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	1.30	1.20	1.10	0.85	1.60	4.90	4.60	2.15	3.35	1.50	1.15		
2	0.95	1.30	1.05	0.85	0.85	1.40	10.70	4.50	2.15	3.10	1.50	1.15		
3	1.05	1.30	1.75	0.70	0.85	1.30	10.50	4.15	2.65	2.90	1.45	1.10		
4	1.05	1.85	2.00	0.70	0.85	1.25	15.65	3.40	2.50	2.80	1.45	1.10		
5	1.30	1.60	3.65	0.70	0.85	1.20	30.90	3.70	2.20	2.80	1.40	1.15		
6	1.50	1.50	1.90	0.70	0.80	1.15	52.90	3.55	2.35	2.60	1.40	1.15		
7	1.50	1.20	1.60	0.70	0.80	1.20	21.90	3.45	2.20	2.50	1.40	1.10		
8	1.50	1.00	1.40	0.70	0.80	1.40	13.85	4.20	2.05	2.50	1.35	1.10		
9	1.85	0.85	1.30	0.70	0.80	1.35	6.70	6.10	2.00	2.40	1.35	1.05		
10	2.25	0.80	1.25	0.70	0.80	2.40	4.40	3.95	1.90	2.25	1.35	1.05		
11	1.65	0.80	1.15	0.75	0.80	3.75	4.25	5.40	1.85	2.20	1.30	1.05		
12	1.50	0.70	3.75	1.50	0.80	5.30	5.10	3.40	1.80	2.15	1.30	1.05		
13	1.50	0.70	3.15	1.65	0.80	4.80	4.10	3.50	2.05	2.05	1.30	1.05		
14	3.15	0.70	2.25	2.00	1.10	8.70	4.60	3.50	3.50	2.00	1.30	1.00		
15	3.70	0.70	2.00	2.10	0.80	8.30	4.15	3.60	2.55	1.95	1.30	1.00		
16	2.95	0.65	1.65	1.95	0.80	13.25	5.70	3.10	3.00	1.95	1.25	0.95		
17	1.95	0.60	1.55	1.40	0.80	7.10	3.55	2.90	4.35	1.90	1.25	0.95		
18	2.20	0.60	1.40	1.35	0.80	3.45	3.30	2.85	16.55	1.85	1.25	0.95		
19	1.75	0.60	1.30	1.30	1.25	3.30	3.15	2.80	4.20	1.80	1.25	0.95		
20	1.75	0.60	1.25	1.30	1.10	2.95	3.00	2.70	3.35	1.75	1.25	0.45		
21	1.70	0.65	1.15	1.15	1.10	2.90	2.80	2.60	4.45	1.75	1.25	0.36		
22	1.70	0.60	1.30	1.20	1.00	2.65	2.80	3.20	17.00	1.70	1.25	0.32		
23	1.70	0.60	1.30	1.20	1.00	2.10	8.50	3.20	11.60	1.70	1.25	0.32		
24	1.70	0.60	1.20	1.10	1.00	1.90	8.30	2.65	6.90	1.65	1.20	0.32		
25	1.70	0.60	1.15	1.10	1.95	1.85	4.20	2.50	5.90	1.65	1.15	0.32		
26	1.70	0.60	1.05	1.10	3.55	1.75	3.65	2.45	4.60	1.60	1.15	0.27		
27	1.65	0.75	1.00	1.10	6.00	1.65	6.50	2.75	4.20	1.60	1.15	0.27		
28	1.60	1.00	0.95	1.10	2.60	1.80	13.70	2.40	3.70	1.55	1.15	0.27		
29	1.35	1.05	1.00	0.95	3.05	2.20	8.70	2.35	6.80	1.55		0.27		
30	1.30	1.30	1.15	0.90	2.20	5.40	5.40	2.25	7.00	1.50		0.27		
31		1.70		0.85	1.70		7.40		3.70	1.50		0.27		
Total	51.95	28.80	47.80	34.60	42.45	99.35	285.25	101.70	141.20	64.55	36.45	23.76	957.86	CMSDAY
Mean	1.73	0.93	1.59	1.12	1.37	3.31	9.20	3.39	4.55	2.08	1.30	0.77	2.62	CMS
Max	3.70	1.85	3.75	2.10	6.00	13.25	52.90	6.10	17.00	3.35	1.50	1.15	52.90	CMS
Min	0.80	0.60	0.95	0.70	0.80	1.15	2.80	2.25	1.80	1.50	1.15	0.27	0.27	CMS
Runoff	4.49	2.49	4.13	2.99	3.67	8.58	24.65	8.79	12.20	5.58	3.15	2.05	82.76	MCM

Momentary Peak 80.50 CMS. at 30.87 m. (MSL.) at 03.00 Hours , on Oct 6 , 2014

Runoff Yield 26.51 Liters/Second/Square KM. Momentary Peak Yield 813.131 Liters/Second/Square KM.

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Duson at Ban Panjor , Satun (X.279)

Lat 06 - 46 - 39 N Long 100 - 04 - 16 E

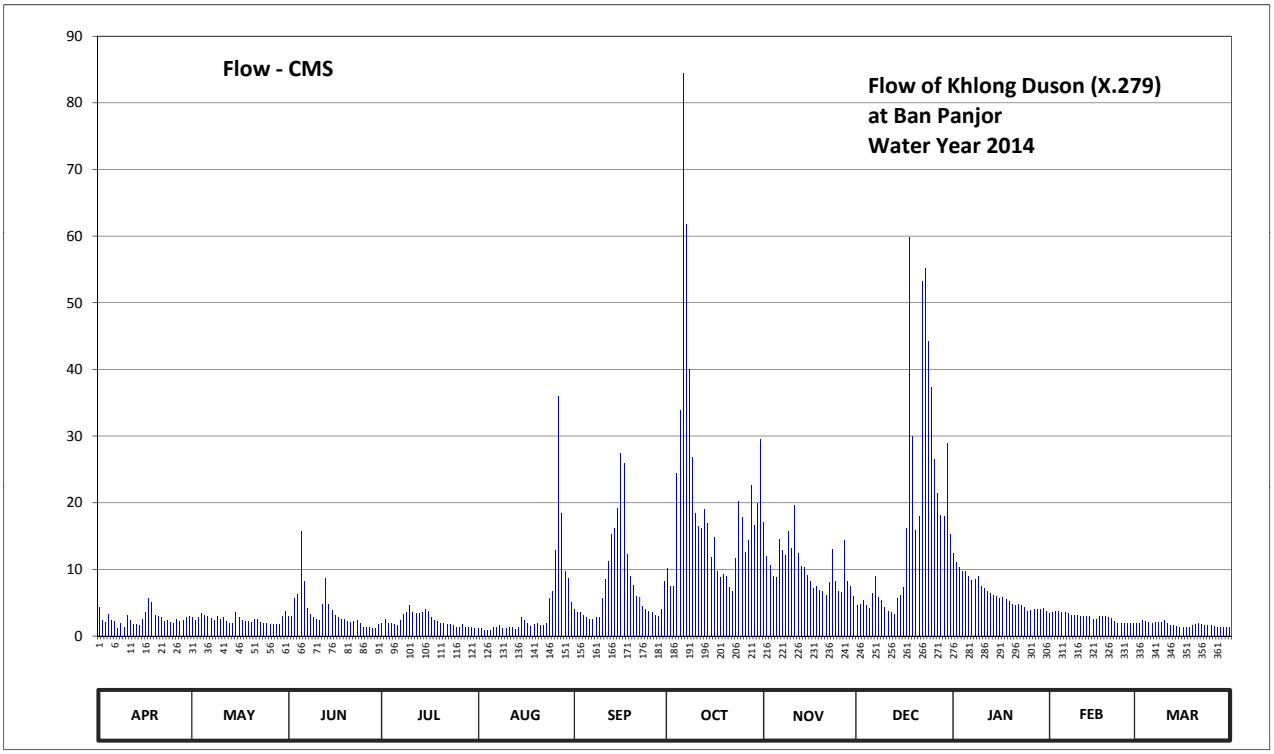
Location : on right bank at Ban Panjor.

	Ban Panjor	**Amphoe** Khuan Don	**Changwat** Satun
Drainge Area	262 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+18.423 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the top staff gage.		**Elevation** +24.423 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2011 to date		
Rating Operation			
Period of Rating	2011 to date		
Rated by Flot	-		
Rated by Current Meter	2011 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2014.		

Gage Height in Meter (MSL.) Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.63	19.43	19.46	19.31	19.22	19.59	20.09	20.60	19.65	20.27	19.52	19.32	
2	19.37	19.37	19.45	19.40	19.21	19.53	19.88	20.24	19.66	20.16	19.54	19.32	
3	19.34	19.44	19.73	19.33	19.18	19.54	19.87	20.13	19.71	20.10	19.56	19.38	
4	19.50	19.51	19.78	19.31	19.17	19.48	21.08	20.00	19.65	20.06	19.55	19.36	
5	19.37	19.48	20.51	19.29	19.17	19.43	21.59	19.98	19.61	20.06	19.54	19.34	
6	19.36	19.45	19.94	19.27	19.23	19.40	23.58	20.43	19.79	19.99	19.53	19.32	
7	19.22	19.42	19.61	19.37	19.24	19.39	22.75	20.31	20.00	19.95	19.52	19.34	
8	19.33	19.37	19.50	19.50	19.28	19.43	21.87	20.25	19.74	19.96	19.47	19.34	
9	19.25	19.45	19.44	19.53	19.22	19.43	21.22	20.51	19.71	19.99	19.47	19.34	
10	19.48	19.40	19.40	19.65	19.22	19.73	20.69	20.33	19.62	19.88	19.48	19.37	
11	19.37	19.43	19.38	19.53	19.25	19.96	20.56	20.77	19.56	19.85	19.46	19.32	
12	19.30	19.35	19.66	19.51	19.23	20.18	20.54	20.27	19.53	19.82	19.46	19.28	
13	19.29	19.33	19.97	19.51	19.20	20.48	20.73	20.11	19.50	19.79	19.46	19.27	
14	19.27	19.33	19.66	19.54	19.24	20.54	20.59	20.10	19.73	19.77	19.46	19.26	
15	19.41	19.53	19.58	19.59	19.44	20.74	20.22	20.01	19.77	19.75	19.41	19.25	
16	19.53	19.43	19.49	19.55	19.37	21.25	20.45	19.93	19.86	19.73	19.40	19.25	
17	19.73	19.37	19.44	19.44	19.32	21.17	20.06	19.85	20.54	19.74	19.45	19.24	
18	19.68	19.35	19.41	19.38	19.26	20.26	19.98	19.87	22.67	19.72	19.46	19.23	
19	19.48	19.36	19.39	19.35	19.30	20.00	20.02	19.83	21.40	19.70	19.46	19.27	
20	19.46	19.34	19.36	19.33	19.31	19.89	20.00	19.81	20.52	19.66	19.43	19.29	
21	19.43	19.39	19.34	19.32	19.27	19.75	19.86	19.77	20.66	19.65	19.42	19.31	
22	19.36	19.41	19.35	19.30	19.27	19.75	19.82	19.92	22.41	19.66	19.36	19.30	
23	19.37	19.34	19.37	19.29	19.32	19.64	20.21	20.32	22.49	19.65	19.33	19.28	
24	19.34	19.33	19.32	19.27	19.73	19.59	20.81	19.94	22.05	19.63	19.33	19.27	
25	19.32	19.32	19.25	19.23	19.82	19.57	20.65	19.82	21.75	19.57	19.33	19.27	
26	19.39	19.30	19.23	19.23	20.31	19.53	20.28	19.80	21.20	19.58	19.33	19.26	
27	19.36	19.29	19.23	19.30	21.69	19.48	20.42	20.42	20.89	19.60	19.33	19.25	
28	19.38	19.29	19.21	19.24	20.69	19.46	20.97	19.94	20.67	19.60	19.33	19.25	
29	19.43	19.30	19.21	19.24	20.05	19.60	20.57	19.87	20.66	19.60		19.25	
30	19.46	19.45	19.29	19.23	19.97	19.94	20.79	19.76	21.34	19.61		19.24	
31		19.57		19.22	19.68		21.37		20.48	19.57		19.23	
Mean	19.41	19.39	19.50	19.37	19.51	19.86	20.69	20.10	20.48	19.80	19.44	19.29	
Max	19.73	19.57	20.51	19.65	21.69	21.25	23.58	20.77	22.67	20.27	19.56	19.38	23.58
Min	19.22	19.29	19.21	19.22	19.17	19.39	19.82	19.76	19.50	19.57	19.33	19.23	19.17

Annual Max Momentary Gage Height	23.70	m. (MSL.) ,	at 15.00 Hours , on Oct 6 , 2014		
Zero Gage at Bottom Elevation	18.42	m. (MSL.) ,	River Bed	18.10	m. (MSL.)
Left Bank Elevation	24.39	m. (MSL.) ,			
Right Bank Elevation	24.40	m. (MSL.) ,	Drainage Area	262	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2014 to March 31, 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.37	2.72	2.95	1.82	1.15	3.92	10.13	17.00	4.62	12.38	3.40	1.90		
2	2.28	2.28	2.88	2.50	1.07	3.48	7.50	12.00	4.75	11.00	3.55	1.90		
3	2.05	2.80	5.62	1.97	0.90	3.55	7.38	10.62	5.37	10.25	3.70	2.35		
4	3.25	3.32	6.25	1.82	0.85	3.10	24.40	9.00	4.62	9.75	3.62	2.20		
5	2.28	3.10	15.65	1.68	0.85	2.72	33.80	8.75	4.13	9.75	3.55	2.05		
6	2.20	2.88	8.25	1.52	1.22	2.50	84.40	14.45	6.38	8.87	3.48	1.90		
7	1.15	2.65	4.13	2.28	1.30	2.42	61.75	12.87	9.00	8.38	3.40	2.05		
8	1.97	2.28	3.25	3.25	1.60	2.72	40.08	12.13	5.75	8.50	3.02	2.05		
9	1.37	2.88	2.80	3.48	1.15	2.72	26.85	15.65	5.37	8.87	3.02	2.05		
10	3.10	2.50	2.50	4.62	1.15	5.62	18.35	13.13	4.25	7.50	3.10	2.28		
11	2.28	2.72	2.35	3.48	1.37	8.50	16.40	19.55	3.70	7.13	2.95	1.90		
12	1.75	2.12	4.75	3.32	1.22	11.25	16.10	12.38	3.48	6.75	2.95	1.60		
13	1.68	1.97	8.62	3.32	1.00	15.20	18.95	10.38	3.25	6.38	2.95	1.52		
14	1.52	1.97	4.75	3.55	1.30	16.10	16.85	10.25	5.62	6.13	2.95	1.45		
15	2.57	3.48	3.85	3.92	2.80	19.10	11.75	9.13	6.13	5.87	2.57	1.37		
16	3.48	2.72	3.17	3.62	2.28	27.38	14.75	8.13	7.25	5.62	2.50	1.37		
17	5.62	2.28	2.80	2.80	1.90	25.98	9.75	7.13	16.10	5.75	2.88	1.30		
18	5.00	2.12	2.57	2.35	1.45	12.25	8.75	7.38	59.75	5.50	2.95	1.22		
19	3.10	2.20	2.42	2.12	1.75	9.00	9.25	6.87	30.00	5.25	2.95	1.52		
20	2.95	2.05	2.20	1.97	1.82	7.62	9.00	6.62	15.80	4.75	2.72	1.68		
21	2.72	2.42	2.05	1.90	1.52	5.87	7.25	6.13	17.90	4.62	2.65	1.82		
22	2.20	2.57	2.12	1.75	1.52	5.87	6.75	8.00	53.25	4.75	2.20	1.75		
23	2.28	2.05	2.28	1.68	1.90	4.50	11.62	13.00	55.25	4.62	1.97	1.60		
24	2.05	1.97	1.90	1.52	5.62	3.92	20.15	8.25	44.25	4.37	1.97	1.52		
25	1.90	1.90	1.37	1.22	6.75	3.77	17.75	6.75	37.37	3.77	1.97	1.52		
26	2.42	1.75	1.22	1.22	12.87	3.48	12.50	6.50	26.50	3.85	1.97	1.45		
27	2.20	1.68	1.22	1.75	36.03	3.10	14.30	14.30	21.35	4.00	1.97	1.37		
28	2.35	1.68	1.07	1.30	18.35	2.95	22.55	8.25	18.05	4.00	1.97	1.37		
29	2.72	1.75	1.07	1.30	9.62	4.00	16.55	7.38	17.90	4.00		1.37		
30	2.95	2.88	1.68	1.22	8.62	8.25	19.85	6.00	28.95	4.13		1.30		
31		3.77		1.15	5.00		29.48		15.20	3.77		1.22		
Total	77.76	75.46	107.74	71.40	135.93	230.84	624.94	307.98	541.29	200.26	78.88	51.95	2504.43	CMSDAY
Mean	2.59	2.43	3.59	2.30	4.38	7.69	20.16	10.27	17.46	6.46	2.82	1.68	6.86	CMS
Max	5.62	3.77	15.65	4.62	36.03	27.38	84.40	19.55	59.75	12.38	3.70	2.35	84.40	CMS
Min	1.15	1.68	1.07	1.15	0.85	2.42	6.75	6.00	3.25	3.77	1.97	1.22	0.85	CMS
Runoff	6.72	6.52	9.31	6.17	11.74	19.95	54.00	26.61	46.77	17.30	6.82	4.49	216.38	MCM

Momentary Peak 88.00 CMS. at 23.70 m. (MSL.) at 15.00 Hours , on Oct 6 , 2014

Runoff Yield 26.19 Liters/Second/Square KM. Momentary Peak Yield 335.878 Liters/Second/Square KM.

Suspended Sediment Station

Water Year 2014

WATER YEAR : 2014

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	1998-2014
Number of observation	292
R-Square	0.8217
Remarks	Continued Sediment Station

$$QS = 5.8720\ QW^{1.31550}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	21.70	79.70	87.60	131.90	1282.20	1008.70	105.70	28.20	11.30	11.30	12.70		
2	0.50	52.00	99.60	197.80	99.60	615.60	1996.10	90.50	24.90	11.30	11.30	10.00		
3	0.00	156.90	160.40	146.10	99.60	812.10	1138.00	77.10	28.20	11.30	11.30	3.00		
4	0.00	111.90	171.50	99.60	128.50	812.10	560.10	69.50	26.60	11.30	11.30	17.10		
5	0.00	84.90	93.50	66.90	102.60	459.40	370.30	66.90	24.90	11.30	11.30	179.00		
6	0.00	303.60	74.50	54.00	146.10	407.90	333.40	79.70	23.30	11.30	11.30	142.40		
7	0.00	11.30	54.00	42.50	229.00	812.10	280.10	128.50	23.30	11.30	11.30	164.00		
8	4.00	46.20	37.00	33.40	376.50	499.20	229.00	149.60	24.90	11.30	11.30	149.60		
9	6.30	52.00	26.60	26.60	466.00	389.00	194.00	1030.00	23.30	11.30	12.70	149.60		
10	5.10	21.70	209.30	21.70	672.30	345.60	167.80	1062.20	21.70	10.00	12.70	146.10		
11	7.50	17.10	164.00	40.60	1149.00	315.40	156.90	303.60	21.70	11.30	12.70	135.50		
12	8.70	15.60	153.10	121.60	376.50	245.70	146.10	186.40	20.10	11.30	12.70	139.00		
13	6.30	14.10	175.10	217.20	229.00	221.10	135.50	135.50	20.10	14.10	12.70	128.50		
14	5.10	26.60	93.50	427.20	339.50	240.10	125.10	108.80	18.60	15.60	11.30	125.10		
15	3.00	6.30	118.20	333.40	573.70	274.30	111.90	90.50	18.60	15.60	10.00	125.10		
16	3.00	28.20	128.50	291.70	376.50	345.60	108.80	79.70	17.10	15.60	4.00	128.50		
17	3.00	21.70	66.90	194.00	1149.00	262.70	105.70	72.00	12.70	15.60	0.50	156.90		
18	3.00	28.20	197.80	364.00	499.20	186.40	93.50	64.50	12.70	15.60	2.10	149.60		
19	3.00	64.50	118.20	1338.70	262.70	167.80	87.60	56.00	10.00	15.60	4.00	142.40		
20	3.00	48.10	69.50	1019.40	194.00	205.50	87.60	50.10	12.70	15.60	15.60	139.00		
21	3.00	35.20	62.00	539.70	171.50	164.00	82.30	48.10	12.70	15.60	29.90	128.50		
22	4.00	29.90	58.00	401.70	376.50	156.90	82.30	46.20	12.70	15.60	29.90	128.50		
23	8.70	20.10	40.60	274.30	213.40	131.90	79.70	42.50	12.70	15.60	28.20	125.10		
24	8.70	11.30	35.20	179.00	160.40	539.70	251.40	42.50	12.70	14.10	24.90	108.80		
25	8.70	10.00	23.30	194.00	131.90	7930.30	622.70	40.60	12.70	12.70	12.70	102.60		
26	50.10	8.70	20.10	160.40	221.10	4096.90	309.60	40.60	12.70	12.70	12.70	102.60		
27	37.00	8.70	35.20	505.90	492.50	1453.40	205.50	38.80	10.00	12.70	12.70	99.60		
28	17.10	26.60	74.50	762.00	532.80	1614.80	153.10	40.60	10.00	11.30	12.70	146.10		
29	18.60	29.90	131.90	553.20	453.10	1367.20	111.90	33.40	10.00	11.30		139.00		
30	60.00	121.60	58.00	251.40	1497.00	772.00	102.60	28.20	11.30	11.30		135.50		
31		111.90		167.80	2825.60		99.60		11.30	11.30		135.50		
Total	281.40	1546.50	2829.70	9113.40	14677.00	27126.90	9536.90	4408.30	542.40	401.80	365.10	3694.90	74524.30	**Ton**
Mean	9.40	49.90	94.30	294.00	473.50	904.20	307.60	146.90	17.50	13.00	13.00	119.20		
Max	60.00	303.60	209.30	1338.70	2825.60	7930.30	1996.10	1062.20	28.20	15.60	29.90	179.00	7930.30	
Min	0.00	6.30	20.10	21.70	99.60	131.90	79.70	28.20	10.00	10.00	0.50	3.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	77
R-Square	0.7770
Remarks	Continued Sediment Station

$$QS = 9.4715\ QW^{1.14460}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	181.10	200.70	259.10	240.70	306.00	3792.20	1005.00	347.90	209.70	181.10	177.60	186.50		
2	177.60	226.10	242.50	304.00	279.60	1604.90	1729.90	321.20	206.20	184.70	177.60	184.70		
3	177.60	315.50	276.00	287.10	264.70	1468.80	1843.40	296.50	204.40	186.50	175.90	184.70		
4	175.90	378.90	309.80	266.50	276.00	1481.10	1157.00	274.00	204.40	186.50	175.90	184.70		
5	175.90	298.30	274.00	237.00	276.00	1334.30	620.00	272.20	202.50	184.70	175.90	183.00		
6	175.90	294.60	253.70	224.30	296.50	1199.70	493.10	277.80	202.50	186.50	175.90	183.00		
7	177.60	287.10	242.50	216.90	309.80	1310.00	377.00	307.90	200.70	184.70	175.90	179.40		
8	175.90	289.00	270.30	209.70	361.50	1055.40	328.90	349.80	200.70	184.70	174.20	174.20		
9	181.10	277.80	298.30	206.20	378.90	749.80	313.50	847.40	199.00	184.70	174.20	167.00		
10	175.90	248.10	321.20	204.40	493.10	418.90	294.60	1873.00	197.20	184.70	172.30	165.30		
11	175.90	197.20	307.90	215.20	1089.00	367.10	277.80	717.70	197.20	186.50	172.30	167.00		
12	175.90	202.50	272.20	260.90	394.50	357.50	274.00	351.70	197.20	188.30	174.20	165.30		
13	175.90	216.90	277.80	315.50	330.70	340.30	266.50	311.60	195.30	186.50	174.20	163.60		
14	179.40	272.20	294.60	822.90	311.60	349.80	255.50	291.00	193.60	184.70	181.10	165.30		
15	181.10	296.50	330.70	929.90	661.80	347.90	246.10	277.80	193.60	191.80	184.70	174.20		
16	183.00	251.70	336.30	620.00	375.10	468.20	244.30	266.50	191.80	227.90	186.50	183.00		
17	183.00	220.60	296.50	359.60	896.90	384.70	242.50	242.50	188.30	237.00	184.70	181.10		
18	181.10	244.30	309.80	336.30	855.60	388.60	237.00	233.40	186.50	229.70	190.10	179.40		
19	177.60	220.60	272.20	1131.60	377.00	351.70	231.50	231.50	184.70	213.40	193.60	177.60		
20	179.40	266.50	249.90	1063.80	340.30	332.60	227.90	229.70	183.00	202.50	188.30	179.40		
21	181.10	227.90	235.20	757.90	334.50	307.90	224.30	227.90	181.10	195.30	188.30	179.40		
22	181.10	222.40	224.30	394.50	378.90	302.20	220.60	226.10	181.10	202.50	193.60	181.10		
23	186.50	215.20	218.90	361.50	373.00	300.30	233.40	224.30	179.40	237.00	200.70	184.70		
24	183.00	209.70	213.40	321.20	328.90	340.30	378.90	222.40	179.40	242.50	197.20	188.30		
25	181.10	195.30	209.70	289.00	306.00	3884.80	2430.00	216.90	177.60	237.00	188.30	186.50		
26	184.70	188.30	209.70	291.00	315.50	5090.70	1518.10	215.20	179.40	226.10	190.10	184.70		
27	188.30	190.10	206.20	717.70	693.60	2669.60	1046.90	209.70	184.70	222.40	186.50	186.50		
28	195.30	211.60	204.40	1742.50	888.60	2368.90	394.50	197.20	183.00	218.90	186.50	186.50		
29	197.20	226.10	213.40	1273.70	831.10	2141.70	349.80	193.60	183.00	215.20		184.70		
30	193.60	311.60	249.90	669.80	1902.60	1114.60	351.70	213.40	183.00	211.60		183.00		
31		342.10		349.80	4832.50		351.70		181.10	191.80		179.40		
Total	5438.70	7745.40	7880.40	15621.10	20059.80	36624.50	18165.40	10467.80	5931.30	6297.40	5116.30	5553.20	144901.30	**Ton**
Mean	181.30	249.90	262.70	503.90	647.10	1220.80	586.00	348.90	191.30	203.10	182.70	179.10		
Max	197.20	378.90	336.30	1742.50	4832.50	5090.70	2430.00	1873.00	209.70	242.50	200.70	188.30	5090.70	
Min	175.90	188.30	204.40	204.40	264.70	300.30	220.60	193.60	177.60	181.10	172.30	163.60	163.60	

WATER YEAR : 2014

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	2014
Number of observation	20
R-Square	0.7869
Remarks	Continued Sediment Station

$$QS = 10.1310\ QW^{1.12490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.90	36.20	115.60	115.60	100.20	253.20	484.40	66.10	36.20	24.60	19.60	19.60		
2	18.40	40.10	159.10	92.60	88.80	186.50	469.00	60.50	34.90	23.30	19.60	19.60		
3	10.70	73.20	161.20	117.60	117.60	253.20	240.20	57.80	34.90	23.30	19.60	18.40		
4	15.40	77.50	59.20	106.00	98.30	214.40	169.20	55.00	34.90	23.30	18.40	18.40		
5	22.10	37.50	76.00	59.20	111.80	159.10	151.10	50.90	33.60	23.30	18.40	17.20		
6	20.90	24.60	55.00	48.20	135.20	253.20	145.10	81.80	34.90	22.10	18.40	17.20		
7	32.30	42.80	34.90	41.50	242.80	305.90	139.20	106.00	33.60	22.10	18.40	16.00		
8	28.40	74.60	33.60	36.20	282.00	224.70	131.30	81.80	33.60	22.10	17.20	15.40		
9	24.60	28.40	76.00	37.50	300.50	196.60	106.00	186.50	32.30	20.90	18.40	15.40		
10	20.90	27.10	161.20	49.50	628.00	209.30	92.60	167.20	32.30	22.10	18.40	14.80		
11	20.90	32.30	83.20	125.40	322.20	186.50	90.70	96.40	32.30	23.30	18.40	16.00		
12	19.60	23.30	80.30	121.50	199.10	157.10	85.10	73.20	27.10	24.60	17.20	16.00		
13	19.60	22.10	92.60	90.70	159.10	163.20	80.30	63.30	16.00	25.90	17.20	20.90		
14	18.40	24.60	61.90	219.50	333.30	177.40	74.60	61.90	14.80	27.10	17.20	20.90		
15	18.40	37.50	73.20	147.10	232.40	169.20	71.80	59.20	14.20	27.10	17.20	19.60		
16	19.60	49.50	94.50	175.30	295.20	147.10	70.40	56.40	13.00	25.90	17.20	18.40		
17	19.60	33.60	227.20	98.30	512.50	133.20	68.90	55.00	13.00	24.60	17.20	18.40		
18	19.60	94.50	123.40	476.70	219.50	117.60	67.50	52.30	13.00	24.60	22.10	17.20		
19	23.30	76.00	81.80	442.20	169.20	145.10	66.10	49.50	12.40	23.30	27.10	17.20		
20	22.10	59.20	70.40	351.80	141.20	155.10	61.90	48.20	12.40	22.10	33.60	16.00		
21	23.30	40.10	66.10	261.00	173.30	119.50	60.50	46.80	12.40	20.90	46.80	15.40		
22	19.60	27.10	57.80	217.00	209.30	125.40	59.20	45.50	11.90	20.90	36.20	15.40		
23	17.20	22.10	46.80	153.10	145.10	106.00	57.80	44.10	10.70	20.90	29.70	17.20		
24	28.40	20.90	44.10	149.10	121.50	1260.00	59.20	42.80	11.30	19.60	27.10	17.20		
25	49.50	23.30	40.10	135.20	137.20	1086.20	63.30	41.50	14.20	20.90	23.30	16.00		
26	76.00	25.90	36.20	147.10	222.10	499.80	66.10	40.10	11.30	20.90	23.30	16.00		
27	44.10	31.00	66.10	329.60	214.40	284.60	59.20	40.10	20.90	19.60	20.90	17.20		
28	32.30	25.90	147.10	292.60	191.50	370.40	57.80	38.80	34.90	19.60	20.90	14.80		
29	94.50	32.30	67.50	206.70	247.90	274.10	56.40	37.50	29.70	19.60		20.90		
30	44.10	189.00	74.60	155.10	363.00	219.50	70.40	36.20	25.90	19.60		24.60		
31		60.50		123.40	593.50		74.60		24.60	19.60		22.10		
Total	835.70	1412.70	2566.70	5122.30	7307.70	8153.10	3549.90	1942.40	717.20	697.70	619.00	549.40	33473.80	**Ton**
Mean	27.90	45.60	85.60	165.20	235.70	271.80	114.50	64.70	23.10	22.50	22.10	17.70		
Max	94.50	189.00	227.20	476.70	628.00	1260.00	484.40	186.50	36.20	27.10	46.80	24.60	1260.00	
Min	10.70	20.90	33.60	36.20	88.80	106.00	56.40	36.20	10.70	19.60	17.20	14.80	10.70	

WATER YEAR : 2014

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	2014
Number of observation	20
R-Square	0.9295
Remarks	Continued Sediment Station

$$QS = 2.1693\ QW^{1.24090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	1.20	1.20	84.90	58.60	34.20	67.20	2.70	2.70	1.20	7.20	0.50		
2	1.20	1.20	1.40	117.40	43.30	21.50	38.70	2.70	2.70	1.20	7.20	0.50		
3	1.00	1.20	4.50	30.40	41.00	29.40	27.80	2.70	2.70	1.20	7.20	0.50		
4	0.00	1.20	12.90	20.00	65.60	25.10	20.00	2.70	2.70	1.20	7.20	0.50		
5	0.00	1.20	15.20	16.00	64.00	23.10	16.00	2.70	2.70	1.20	6.40	0.20		
6	0.40	1.20	15.60	20.50	127.40	87.50	12.50	2.70	2.70	1.20	5.40	0.20		
7	4.30	1.20	13.60	24.10	94.10	34.80	12.10	2.70	2.60	1.20	3.90	0.20		
8	4.70	2.60	12.10	25.10	58.60	27.20	11.40	2.70	2.20	1.20	2.10	0.00		
9	5.40	2.70	12.10	27.80	57.10	18.80	10.30	2.70	1.90	1.20	1.70	0.00		
10	5.60	2.70	12.10	92.20	59.40	16.80	8.50	2.70	1.60	1.20	1.20	0.00		
11	6.40	2.70	13.30	48.80	41.00	13.60	8.50	2.70	1.30	1.20	1.20	0.00		
12	6.40	2.70	16.40	23.10	28.30	11.70	8.10	2.70	1.30	1.20	1.20	0.00		
13	6.40	2.70	18.40	35.90	25.10	8.50	7.60	2.70	1.20	1.20	1.20	0.00		
14	5.40	2.90	21.50	55.60	21.00	8.50	7.40	2.70	1.20	1.30	0.70	0.00		
15	4.50	2.70	23.10	127.40	17.60	8.50	7.00	2.70	1.20	2.40	0.50	0.00		
16	4.30	2.70	25.10	264.60	60.90	8.50	6.80	2.70	1.20	2.70	0.50	0.00		
17	3.60	2.70	24.10	63.30	79.20	8.50	6.60	2.70	1.20	2.70	0.50	1.60		
18	3.40	2.70	17.20	41.60	43.30	7.60	6.40	2.70	1.20	2.70	0.50	47.40		
19	2.70	2.70	10.60	112.50	27.80	8.30	6.20	2.70	1.20	2.70	0.50	40.40		
20	2.20	2.70	10.60	361.20	18.00	7.60	5.60	2.70	1.20	4.30	0.50	42.10		
21	1.20	2.70	12.10	126.40	16.00	16.00	5.40	2.70	1.20	7.20	1.30	12.90		
22	1.20	3.60	12.10	71.90	14.00	45.00	5.30	2.70	1.20	7.20	1.30	12.10		
23	1.20	3.60	12.10	79.20	12.50	44.40	4.70	2.70	1.20	7.00	1.20	12.10		
24	1.20	2.60	12.90	127.40	16.80	218.60	4.10	2.70	1.20	7.00	1.00	11.70		
25	1.20	1.20	16.40	68.70	21.00	216.30	3.60	2.70	1.20	7.00	0.70	6.60		
26	1.20	1.20	25.70	41.00	19.20	88.40	3.20	2.70	1.20	7.20	0.70	6.40		
27	1.20	1.20	21.50	29.90	22.60	42.70	3.10	2.70	1.20	7.20	0.70	6.40		
28	1.20	1.20	17.60	28.30	25.10	31.00	2.70	2.70	1.20	7.20	0.70	6.40		
29	1.20	1.20	15.60	31.00	27.20	71.90	2.70	2.70	1.20	7.20		7.00		
30	1.20	1.20	18.80	52.60	25.10	154.70	2.70	2.70	1.20	7.20		9.90		
31		1.20		114.40	25.10		2.70		1.20	7.20		6.20		
Total	81.10	64.50	445.80	2363.20	1255.90	1338.70	334.90	81.00	49.90	113.00	64.40	231.80	6424.20	**Ton**
Mean	2.70	2.10	14.90	76.20	40.50	44.60	10.80	2.70	1.60	3.60	2.30	7.50		
Max	6.40	3.60	25.70	361.20	127.40	218.60	67.20	2.70	2.70	7.20	7.20	47.40	361.20	
Min	0.00	1.20	1.20	16.00	12.50	7.60	2.70	2.70	1.20	1.20	0.50	0.00	0.00	

WATER YEAR : 2014

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	1998-2014
Number of observation	325
R-Square	0.8232
Remarks	Continued Sediment Station

$$QS = 3.8388\ QW^{1.09490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	0.50	1.00	7.80	94.00	12.80	28.50	2.20	1.10	1.00	0.80	0.70		
2	1.00	0.60	1.10	12.10	85.40	26.70	24.00	2.20	1.20	1.00	0.80	0.70		
3	1.20	1.10	1.40	10.20	367.40	57.70	17.00	2.00	1.30	1.00	0.80	0.70		
4	1.70	1.30	1.10	2.60	297.80	48.80	11.90	2.00	1.20	1.00	0.80	0.70		
5	2.10	1.30	1.00	3.90	224.80	55.80	9.20	1.90	1.20	1.00	0.70	0.70		
6	2.40	0.70	1.00	3.00	788.70	107.60	6.50	1.80	1.20	1.00	0.70	0.60		
7	1.80	0.70	1.40	12.10	580.00	71.90	5.90	1.80	1.20	1.00	0.70	0.60		
8	1.50	0.70	5.70	15.30	315.50	19.10	4.50	1.70	1.30	1.00	0.70	0.60		
9	1.10	0.80	3.90	21.40	247.20	15.90	4.90	1.60	1.10	1.00	0.70	0.60		
10	0.90	1.00	2.60	36.40	88.50	12.80	3.00	1.60	1.00	1.00	0.70	0.50		
11	0.80	1.00	4.10	27.00	60.90	10.70	3.30	1.60	1.00	1.00	0.70	0.50		
12	0.80	0.80	11.10	24.30	33.90	9.60	3.90	1.60	1.00	1.00	0.70	0.40		
13	0.80	0.70	12.80	35.80	21.70	12.50	4.70	1.60	1.10	1.00	0.70	0.40		
14	0.80	0.70	12.80	50.70	13.10	13.30	4.30	1.60	1.20	0.80	0.70	0.40		
15	0.80	0.70	11.70	55.10	12.80	20.80	3.20	1.60	1.10	0.80	0.70	0.40		
16	0.80	0.70	8.80	77.10	12.80	21.10	2.60	1.60	1.00	0.80	0.70	0.50		
17	0.70	0.70	4.10	67.30	11.90	16.20	2.30	1.60	1.00	0.80	0.70	0.40		
18	0.70	1.00	2.40	65.40	9.40	13.10	2.20	1.50	1.00	0.80	0.70	0.40		
19	0.70	1.00	2.30	112.10	9.40	9.00	2.20	1.50	1.00	0.80	0.90	0.40		
20	0.70	1.00	2.20	111.00	10.40	6.50	2.20	1.40	1.00	0.80	0.90	0.30		
21	0.70	0.70	2.30	69.30	5.30	12.50	2.20	1.50	1.10	0.80	1.10	0.30		
22	0.70	0.70	2.50	77.10	6.10	17.30	2.20	1.30	1.00	0.70	1.20	0.50		
23	0.70	0.70	5.70	80.80	17.00	18.20	2.60	1.20	1.00	0.80	1.30	0.50		
24	0.60	0.70	11.70	53.20	24.00	38.80	2.60	1.20	0.90	0.80	1.20	0.40		
25	0.50	0.70	10.20	20.20	19.60	72.50	2.50	1.10	0.80	0.80	1.00	0.50		
26	0.50	0.70	5.10	9.40	15.00	73.20	2.20	1.10	0.80	0.80	1.00	0.50		
27	0.60	0.80	4.50	6.10	12.80	57.70	2.10	1.10	0.80	0.80	1.00	0.30		
28	0.70	1.70	2.40	6.30	12.80	25.80	2.00	1.10	0.80	0.80	1.00	0.40		
29	0.50	1.40	2.80	14.80	12.80	19.60	2.00	1.10	0.80	0.90		0.50		
30	0.50	1.10	7.30	22.90	13.10	20.50	2.00	1.10	0.80	0.90		0.60		
31		1.00		29.70	16.70		2.10		0.80	0.80		0.60		
Total	28.30	27.20	147.00	1140.40	3440.80	918.00	170.80	46.20	31.80	27.50	23.60	15.60	6017.20	**Ton**
Mean	0.90	0.90	4.90	36.80	111.00	30.60	5.50	1.50	1.00	0.90	0.80	0.50		
Max	2.40	1.70	12.80	112.10	788.70	107.60	28.50	2.20	1.30	1.00	1.30	0.70	788.70	
Min	0.50	0.50	1.00	2.60	5.30	6.50	2.00	1.10	0.80	0.70	0.70	0.30	0.30	

WATER YEAR : 2014

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	1998-2014
Number of observation	304
R-Square	0.8665
Remarks	Continued Sediment Station

$$QS = 2.3296\ QW^{1.35090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.50	5.00	5.30	82.80	477.10	98.80	153.50	24.30	5.20	1.20	0.40	1.20		
2	3.50	4.80	5.30	52.30	192.00	298.90	149.80	24.30	7.20	1.20	0.10	1.20		
3	3.50	4.80	4.80	48.10	414.30	392.70	142.40	24.30	8.50	1.20	0.30	1.20		
4	3.00	3.80	4.80	44.80	234.50	190.00	101.10	26.40	7.80	1.20	0.30	0.80		
5	3.00	4.80	4.80	30.10	417.90	184.10	88.40	26.40	7.80	1.40	0.30	0.80		
6	3.80	5.30	5.20	19.00	7302.60	465.90	79.50	24.30	7.60	1.20	0.30	0.80		
7	4.80	5.30	7.40	26.40	2067.10	207.80	80.60	24.30	7.40	1.20	0.10	0.30		
8	4.80	4.80	10.70	83.90	319.30	176.30	70.80	20.90	7.40	1.20	0.10	0.30		
9	4.40	5.00	14.60	439.90	264.80	157.20	57.30	20.90	7.40	0.80	0.30	0.40		
10	3.80	5.70	9.40	144.20	304.70	153.50	55.20	17.70	7.20	0.80	0.30	0.80		
11	3.80	5.20	9.40	59.30	196.00	98.80	46.40	17.00	7.00	0.80	0.30	0.60		
12	3.80	4.40	16.40	94.10	115.60	91.80	40.00	14.60	6.80	0.80	0.30	0.30		
13	3.80	3.80	26.40	218.40	99.90	91.80	44.00	12.20	6.30	0.70	0.30	0.30		
14	3.80	3.80	25.00	515.10	89.60	95.30	44.80	10.00	6.10	0.70	0.60	0.30		
15	3.50	3.80	25.70	1327.60	93.00	162.90	41.60	10.00	5.70	0.70	0.60	0.60		
16	3.50	3.00	25.70	842.50	104.70	231.80	39.20	8.90	5.70	0.70	0.60	0.60		
17	3.50	3.00	16.40	313.40	103.50	164.80	34.50	8.90	5.70	0.70	0.60	0.60		
18	3.50	4.40	8.90	205.20	91.80	120.90	32.30	9.60	5.70	0.70	0.30	0.30		
19	3.00	4.80	7.40	180.20	120.90	122.60	35.30	9.60	5.90	0.70	0.30	0.30		
20	3.00	4.80	6.80	192.00	213.10	127.90	35.30	9.60	6.10	0.70	0.80	0.30		
21	3.80	4.80	7.20	162.90	112.20	122.60	31.50	8.90	6.30	0.70	1.40	0.30		
22	3.80	4.80	10.00	170.50	122.60	122.60	30.10	8.50	6.30	0.70	1.40	0.30		
23	3.80	5.70	27.90	662.50	107.00	699.90	27.90	8.90	5.30	0.70	1.30	0.30		
24	3.80	5.70	38.40	723.60	119.10	4805.30	27.90	7.40	3.30	0.70	1.30	0.30		
25	3.80	5.30	54.20	161.00	87.30	2281.20	27.90	6.10	2.00	0.70	1.20	0.30		
26	3.80	5.30	25.70	102.30	78.40	737.90	27.90	5.30	1.40	0.70	1.40	0.30		
27	4.80	4.80	46.40	93.00	97.60	184.10	28.60	4.80	1.40	0.70	1.40	0.30		
28	5.50	4.80	94.10	89.60	172.50	155.40	28.60	4.40	1.40	0.70	1.40	0.30		
29	5.70	5.30	161.00	316.40	414.30	172.50	30.10	4.40	1.40	0.70		0.30		
30	5.70	5.30	293.10	1717.10	301.80	454.70	27.20	4.20	1.40	0.70		0.30		
31		4.80		1087.10	144.20		24.30		1.40	0.70		0.30		
Total	117.80	146.90	998.40	10205.30	14979.40	13370.00	1684.00	407.10	166.10	26.30	18.00	15.30	42134.60	**Ton**
Mean	3.90	4.70	33.30	329.20	483.20	445.70	54.30	13.60	5.40	0.80	0.60	0.50		
Max	5.70	5.70	293.10	1717.10	7302.60	4805.30	153.50	26.40	8.50	1.40	1.40	1.20	7302.60	
Min	3.00	3.00	4.80	19.00	78.40	91.80	24.30	4.20	1.40	0.70	0.10	0.30	0.10	

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Khok Kham Lai, Udon Thani (Kh.93)

Lat 17 - 33 - 22 N Long 103 - 20 - 20 E

Location : on left bank at the bridge of Amphoe Ban Duang - Amphoe Sawang Daen Din Highway.

Ban Khok Kham Lai **Amphoe** Ban Dung **Changwat** Udon Thani

Drainge Area	760 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	1998-2014
Number of observation	147
R-Square	0.8085
Remarks	Continued Sediment Station

$$QS = 8.7272\ QW^{0.93020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	153.00	174.90	174.90	43.20	0.70	4.60	1.70	0.00		
2	0.00	0.00	0.00	0.00	155.80	164.90	175.80	34.50	1.50	4.20	1.50	0.00		
3	0.00	0.00	0.00	0.00	157.60	164.90	174.90	30.10	2.40	4.20	1.50	0.00		
4	0.00	0.00	0.00	0.00	162.20	161.30	169.50	25.10	3.00	4.20	1.50	0.00		
5	0.00	0.00	0.00	0.00	167.70	159.40	154.00	21.80	4.00	4.20	1.50	0.00		
6	0.00	0.00	0.00	0.00	169.50	159.40	124.40	21.80	4.60	3.70	1.00	0.00		
7	0.00	0.00	0.00	0.00	170.40	150.30	83.90	21.80	5.40	3.70	0.20	0.00		
8	0.00	0.00	0.00	0.00	170.40	140.20	41.00	21.80	6.30	3.30	0.00	0.00		
9	0.00	0.00	0.00	0.50	162.20	106.30	19.40	21.80	6.30	3.30	0.00	0.00		
10	0.00	0.00	0.00	1.00	150.30	56.90	8.60	21.80	6.30	3.30	0.00	0.00		
11	0.00	0.00	0.00	1.70	142.00	28.30	6.90	21.50	6.30	3.30	0.00	0.00		
12	0.00	0.00	0.00	5.70	131.80	15.10	5.00	20.60	5.80	2.80	0.00	0.00		
13	0.00	0.00	0.00	7.90	108.40	8.30	4.80	19.70	5.80	2.80	0.00	0.00		
14	0.00	0.00	0.00	8.70	77.10	6.40	3.70	18.80	5.80	2.80	0.00	0.00		
15	0.00	0.00	0.00	12.60	67.40	22.40	2.40	17.20	5.40	2.80	0.00	0.00		
16	0.00	0.00	0.00	23.00	103.60	39.30	1.50	13.20	5.40	2.80	0.00	0.00		
17	0.00	0.00	0.00	29.20	122.50	46.20	1.20	9.40	5.40	2.40	0.00	0.00		
18	0.00	0.00	0.00	36.70	132.80	44.90	0.50	6.40	5.40	2.40	0.00	0.00		
19	0.00	0.00	0.00	70.20	134.60	34.50	0.50	3.50	5.40	2.40	0.00	0.00		
20	0.00	0.00	0.00	107.00	158.50	21.50	0.50	2.40	5.00	2.40	0.00	0.00		
21	0.00	0.00	0.00	107.00	173.10	23.60	0.20	1.50	4.60	2.40	0.00	0.00		
22	0.00	0.00	0.00	113.70	192.10	35.40	2.70	1.50	4.60	2.40	0.00	0.00		
23	0.00	0.00	0.00	126.30	205.60	41.50	6.90	1.20	4.60	2.40	0.00	0.00		
24	0.00	0.00	0.00	148.40	211.90	43.60	9.40	0.50	4.60	2.40	0.00	0.00		
25	0.00	0.00	0.00	159.40	219.90	53.30	9.40	0.50	4.60	2.00	0.00	0.00		
26	0.00	0.00	0.00	154.90	219.90	98.90	9.40	0.50	4.60	2.00	0.00	0.00		
27	0.00	0.00	0.00	145.70	216.30	134.60	9.70	0.50	4.60	2.00	0.00	0.00		
28	0.00	0.00	0.00	148.40	212.80	149.40	12.60	0.50	4.60	2.00	0.00	0.00		
29	0.00	0.00	0.00	145.70	206.50	161.30	12.60	0.50	4.60	2.00		0.00		
30	0.00	0.00	0.00	138.30	196.60	170.40	12.60	0.50	4.60	2.00		0.00		
31		0.00		134.60	187.60		11.30		4.60	2.00		0.00		
Total	0.00	0.00	0.00	1826.60	5040.10	2617.40	1250.20	404.10	146.80	89.20	8.90	0.00	11383.30	**Ton**
Mean	0.00	0.00	0.00	58.90	162.60	87.20	40.30	13.50	4.70	2.90	0.30	0.00		
Max	0.00	0.00	0.00	159.40	219.90	174.90	175.80	43.20	6.30	4.60	1.70	0.00	219.90	
Min	0.00	0.00	0.00	0.00	67.40	6.40	0.20	0.50	0.70	2.00	0.00	0.00	0.00	

WATER YEAR : 2014

KHONG RIVER BASIN

Songkhram River at Ban Tha Kok Daeng , Bueng Kan (Kh.98)

Lat 17 - 51 - 04 N Long 103 - 46 - 52 E

Location : on right bank at the bridge.

Ban Tha Kok Daeng **Amphoe** Se Ka **Changwat** Bueng Kan

Drainge Area	5,089 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	2012-2014
Number of observation	56
R-Square	0.8788
Remarks	Continued Sediment Station

$$QS = 3.0460\ QW^{1.08300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.30	3.20	2.90	680.00	2389.50	2247.50	2278.10	42.00	8.30	5.20	5.20	4.90		
2	3.30	3.20	3.00	715.10	2408.80	2220.70	2236.00	37.50	8.30	5.20	5.20	4.90		
3	3.20	3.20	3.20	710.00	2435.70	2216.80	2197.70	33.10	8.30	5.20	5.20	4.90		
4	3.20	3.20	3.20	660.10	2482.00	2224.50	2148.00	25.50	8.10	5.10	5.20	4.90		
5	3.20	3.20	3.20	572.60	2524.50	2266.60	2045.20	20.10	7.70	4.90	5.20	4.90		
6	3.30	3.20	3.40	458.60	2582.50	2293.50	1946.50	18.50	7.40	4.90	5.10	4.90		
7	3.30	3.20	3.40	388.70	2617.40	2308.80	1851.90	17.70	7.40	4.90	5.10	4.90		
8	3.40	3.20	3.60	473.50	2636.80	2316.50	1745.40	17.70	7.40	4.90	5.10	4.90		
9	3.70	3.20	3.60	655.10	2660.10	2320.30	1589.30	18.50	7.40	4.90	5.10	4.90		
10	3.80	3.20	3.60	866.90	2679.50	2308.80	1426.20	19.90	7.40	4.90	5.10	4.70		
11	4.00	3.20	3.70	1077.70	2683.30	2285.80	1257.90	21.20	7.30	5.10	5.10	4.00		
12	4.00	3.00	3.70	1241.20	2679.50	2255.10	1077.70	21.20	7.30	5.10	5.10	3.70		
13	4.00	2.70	4.10	1345.20	2667.80	2224.50	825.60	21.80	7.30	5.20	5.20	3.70		
14	4.00	2.30	7.90	1466.90	2663.90	2186.20	607.90	21.80	7.00	5.30	5.20	4.20		
15	4.10	2.10	15.20	1579.00	2656.20	2132.80	448.00	20.30	6.90	5.20	5.30	5.50		
16	4.10	2.00	29.90	1678.20	2656.20	2102.30	320.30	18.80	6.60	5.20	5.30	5.50		
17	4.20	1.80	76.40	1749.00	2652.30	2071.80	234.60	16.70	6.60	5.20	5.30	5.50		
18	4.20	1.80	155.70	1848.40	2632.90	2056.60	182.60	13.80	6.20	5.20	5.30	5.50		
19	4.20	1.80	324.10	1961.60	2617.40	2056.60	133.40	12.20	5.90	5.20	5.30	5.20		
20	4.20	1.80	465.00	1995.80	2586.40	2052.80	114.10	11.90	5.90	5.20	5.20	4.90		
21	4.20	2.00	553.10	2018.60	2570.90	2068.00	101.70	10.70	5.90	5.20	4.90	4.90		
22	4.00	2.30	563.90	2037.60	2555.40	2087.00	83.20	9.70	5.80	5.20	4.90	4.70		
23	3.70	2.40	522.90	2060.40	2540.00	2132.80	75.80	9.10	5.60	5.20	4.80	4.50		
24	3.60	2.40	503.50	2033.80	2512.90	2224.50	66.30	9.30	5.30	5.20	4.80	4.50		
25	3.30	2.50	540.10	2052.80	2478.20	2278.10	59.00	8.90	5.20	5.20	4.80	5.30		
26	3.30	2.70	617.80	2098.50	2443.50	2328.00	53.10	8.60	5.20	5.20	4.80	7.30		
27	3.20	2.70	692.50	2163.30	2404.90	2324.20	49.20	8.30	5.20	5.20	4.80	9.40		
28	3.20	2.70	712.50	2232.10	2370.30	2324.20	45.90	8.30	5.20	5.20	4.90	10.00		
29	3.00	2.70	685.00	2285.80	2343.40	2324.20	45.90	8.30	5.20	5.20		9.90		
30	3.00	2.70	655.10	2335.70	2308.80	2308.80	45.90	8.30	5.20	5.20		9.70		
31		2.80		2366.40	2278.10		44.60		5.20	5.20		9.70		
Total	109.20	82.40	7165.20	45808.60	78719.10	66548.30	25337.00	519.70	203.70	159.20	142.50	176.40	224971.30	**Ton**
Mean	3.60	2.70	238.80	1477.70	2539.30	2218.30	817.30	17.30	6.60	5.10	5.10	5.70		
Max	4.20	3.20	712.50	2366.40	2683.30	2328.00	2278.10	42.00	8.30	5.30	5.30	10.00	2683.30	
Min	3.00	1.80	2.90	388.70	2278.10	2052.80	44.60	8.30	5.20	4.90	4.80	3.70	1.80	

WATER YEAR : 2014

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.
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	2014
Number of observation	27
R-Square	0.9726
Remarks	Continued Sediment Station

$$QS = 3.2904\ QW^{1.08010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	11.20	2.00	8.10	696.90	1837.50	528.50	161.00	48.80	12.10	24.00	0.40		
2	2.50	18.00	1.30	7.30	687.70	1837.50	578.50	165.00	51.20	10.20	22.60	0.20		
3	2.40	48.80	1.00	7.00	699.90	1772.20	497.40	264.90	54.90	8.10	20.50	0.30		
4	2.10	97.10	0.10	7.00	745.90	1755.90	428.20	412.90	52.40	6.60	17.40	0.40		
5	2.20	110.00	0.10	6.20	822.90	1751.80	405.30	420.60	51.20	6.20	14.60	0.40		
6	2.60	77.30	0.70	6.20	939.40	1743.60	395.20	420.60	50.00	5.80	13.00	0.30		
7	3.10	69.60	0.70	16.90	1106.50	1808.90	374.90	497.40	46.40	5.50	11.20	0.30		
8	3.40	61.90	0.50	451.20	1043.60	1845.70	309.70	572.50	43.00	3.10	10.70	0.30		
9	3.10	54.90	0.40	1183.80	887.70	1849.80	260.30	575.50	40.90	12.60	0.50	0.30		
10	3.10	52.40	0.30	1289.80	761.20	1804.80	226.10	536.20	39.80	43.00	1.60	0.30		
11	3.50	37.60	0.20	1141.60	651.20	1735.50	212.60	528.50	38.70	90.00	0.80	0.40		
12	3.40	33.60	6.20	904.90	636.00	1601.50	208.10	507.80	37.60	102.60	0.80	0.30		
13	3.30	28.60	6.60	755.10	605.70	1513.60	235.20	466.60	35.50	78.80	0.70	0.30		
14	3.10	24.70	8.10	1173.20	593.50	1498.60	223.90	443.50	34.50	74.20	0.60	0.30		
15	3.10	24.70	9.30	1201.40	727.50	1453.70	212.60	382.50	33.60	66.50	0.60	0.30		
16	2.80	24.00	10.20	1106.50	745.90	1401.40	217.10	295.10	32.80	61.90	0.50	0.30		
17	2.70	20.50	18.00	870.40	721.30	1379.00	203.70	214.90	38.70	60.40	0.50	0.30		
18	2.50	12.60	18.00	699.90	699.90	1356.60	242.00	190.80	26.90	56.10	0.50	0.30		
19	2.40	10.20	15.20	678.50	699.90	1300.90	223.90	167.10	24.70	51.20	0.50	0.30		
20	2.30	4.50	12.60	798.20	745.90	1252.70	214.90	151.00	23.30	46.40	0.40	0.30		
21	2.20	4.20	11.60	730.50	724.40	1183.80	188.60	129.30	12.10	37.60	0.40	0.30		
22	2.10	8.10	11.20	639.00	684.60	1155.60	182.10	119.70	3.40	35.50	0.50	0.30		
23	1.60	15.20	9.30	748.90	614.70	1082.00	205.90	100.80	3.90	34.50	0.50	0.30		
24	1.30	12.10	4.50	608.60	587.50	932.50	226.10	93.50	12.60	33.60	0.40	0.40		
25	1.10	10.20	4.20	510.40	578.50	853.90	226.10	83.50	24.70	32.80	0.40	0.50		
26	1.10	9.30	7.00	461.50	660.30	841.50	228.40	75.70	37.60	31.90	0.40	0.70		
27	1.00	4.50	12.10	469.10	745.90	807.50	232.90	69.60	34.50	31.10	0.40	0.70		
28	0.90	3.10	12.60	528.50	829.10	709.10	248.80	63.40	30.30	29.40	0.40	0.80		
29	0.80	2.80	11.20	736.70	977.50	608.60	242.00	57.30	26.90	27.70		0.70		
30	0.80	2.50	9.30	844.60	1509.90	533.60	232.90	50.00	21.20	26.10		0.60		
31		2.20		761.20	1776.30		221.60		21.20	24.70		0.50		
Total	69.20	896.40	204.50	19352.20	24907.20	41209.30	8633.50	8217.20	1033.30	1146.20	145.40	12.10	105826.50	**Ton**
Mean	2.30	28.90	6.80	624.30	803.50	1373.60	278.50	273.90	33.30	37.00	5.20	0.40		
Max	3.50	110.00	18.00	1289.80	1776.30	1849.80	578.50	575.50	54.90	102.60	24.00	0.80	1849.80	
Min	0.80	2.20	0.10	6.20	578.50	533.60	182.10	50.00	3.40	3.10	0.40	0.20	0.10	

WATER YEAR : 2014

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	1997 - 2014
Number of observation	515
R-Square	0.9331
Remarks	Continued Sediment Station

$$QS = 3.4816\ QW^{1.51100}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	45.10	82.60	203.20	336.50	5877.10	1755.30	538.00	297.80	73.10	6.10	5.20		
2	3.20	51.80	74.40	227.10	297.80	6698.70	1296.70	654.70	286.10	62.40	6.10	4.90		
3	3.20	97.00	62.80	147.80	336.50	17778.60	1068.40	701.70	274.50	55.50	5.80	4.90		
4	3.50	218.70	36.10	118.40	408.80	18205.20	701.70	1408.90	265.30	45.80	5.80	4.90		
5	3.20	147.80	39.00	102.20	575.20	13973.20	550.20	2720.60	256.20	37.30	5.50	4.90		
6	3.20	326.70	48.30	97.00	2219.20	8944.00	525.90	1988.00	247.30	34.90	5.20	6.10		
7	3.20	408.80	42.00	141.30	1700.30	5469.70	513.60	2020.50	238.50	30.40	5.20	6.10		
8	3.20	288.60	39.00	326.70	1108.80	4045.30	477.90	1810.80	238.50	18.30	5.20	7.40		
9	3.20	174.70	45.10	356.50	798.70	3138.70	408.80	1408.90	229.70	24.10	5.20	7.40		
10	3.20	97.00	42.00	466.00	934.60	2803.10	387.10	1233.00	221.10	48.90	5.20	7.40		
11	3.20	62.80	22.60	307.40	670.20	2286.80	376.80	1170.40	204.20	187.70	5.80	6.40		
12	3.50	55.40	17.00	336.50	366.60	2086.10	376.80	1088.60	187.70	166.90	5.80	6.10		
13	3.50	51.80	66.60	1565.60	346.50	2119.10	550.20	1028.60	180.70	140.40	5.80	6.10		
14	3.50	42.00	261.70	1233.00	882.80	2053.20	765.90	969.70	180.70	96.30	5.80	5.80		
15	4.00	30.40	387.10	952.10	765.90	1988.00	600.80	934.60	180.70	48.90	5.80	5.50		
16	4.30	25.10	188.80	639.30	865.80	1810.80	477.90	478.40	173.70	45.80	5.80	5.50		
17	4.90	22.60	91.80	454.40	865.80	2119.10	419.90	478.40	173.70	34.90	5.80	5.20		
18	4.90	22.60	62.80	513.60	587.90	1866.90	387.10	506.50	166.90	32.70	5.80	5.20		
19	4.90	25.10	51.80	431.10	513.60	1673.10	397.50	592.40	153.40	22.10	5.80	7.40		
20	3.70	36.10	51.80	538.00	865.80	1700.30	387.10	520.70	146.90	10.70	6.10	9.60		
21	0.90	48.30	36.10	366.60	2599.50	1619.00	366.60	478.40	140.40	8.50	8.50	9.60		
22	22.60	48.30	12.70	336.50	1673.10	1361.50	356.50	478.40	134.00	8.50	8.50	9.60		
23	39.00	45.10	10.00	366.60	1008.80	1170.40	538.00	464.60	127.70	8.50	6.10	6.40		
24	33.20	27.70	10.00	442.70	1108.80	989.20	654.70	450.90	116.40	8.50	5.80	8.50		
25	22.60	27.70	8.70	489.60	1408.90	1108.80	717.50	437.30	96.30	8.50	5.80	7.40		
26	22.60	33.20	6.40	376.80	1592.20	1191.10	613.40	423.90	91.50	8.50	5.50	10.70		
27	15.50	36.10	3.70	654.70	1923.60	1233.00	513.60	397.50	86.80	6.40	5.20	10.70		
28	15.50	39.00	2.30	1275.40	1783.00	1233.00	489.60	371.70	86.80	5.80	5.20	10.70		
29	20.20	82.60	1.60	1170.40	1783.00	1383.40	538.00	321.80	82.10	5.50		9.60		
30	27.70	161.10	39.00	613.40	7007.20	1923.60	587.90	297.80	82.10	5.50		9.60		
31		124.00		419.90	18062.60		587.90		77.60	5.50		9.60		
Total	292.50	2903.20	1843.80	15669.80	55398.00	119850.00	18389.30	26375.70	5425.30	1296.80	164.20	224.40	247833.00	**Ton**
Mean	9.80	93.70	61.50	505.50	1787.00	3995.00	593.20	879.20	175.00	41.80	5.90	7.20		
Max	39.00	408.80	387.10	1565.60	18062.60	18205.20	1755.30	2720.60	297.80	187.70	8.50	10.70	18205.20	
Min	0.90	22.60	1.60	97.00	297.80	989.20	356.50	297.80	77.60	5.50	5.20	4.90	0.90	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.7245
Remarks	Continued Sediment Station

$$QS = 1.3783\ QW^{1.92810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	26.10	24.50	33.10	12.20	1039.90	286.30	76.00	26.10	8.10	13.10	5.60		
2	0.10	37.10	22.90	27.80	22.90	1141.50	286.30	96.10	24.50	7.40	13.10	5.60		
3	0.10	43.60	22.90	15.10	14.10	879.90	264.50	152.40	22.90	7.40	13.10	5.60		
4	0.10	35.10	17.20	13.10	15.10	809.90	206.50	233.40	21.40	6.80	13.10	5.60		
5	0.10	29.50	21.40	13.10	33.10	557.80	145.30	275.30	21.40	6.10	13.10	5.60		
6	0.20	26.10	20.00	9.60	243.60	264.50	127.90	167.10	20.00	5.60	13.10	5.60		
7	2.60	26.10	21.40	17.20	48.20	127.90	111.50	101.10	21.40	5.60	13.10	5.00		
8	2.80	24.50	22.90	48.20	39.20	87.30	87.30	116.80	20.00	8.80	13.10	5.00		
9	2.80	22.90	20.00	53.00	35.10	68.80	65.40	127.90	20.00	15.10	13.10	4.50		
10	2.80	22.90	13.10	33.10	33.10	96.10	68.80	96.10	18.50	21.40	11.30	4.50		
11	2.80	22.90	11.30	31.30	26.10	45.90	68.80	62.00	17.20	26.10	8.80	5.60		
12	2.80	22.90	11.30	18.50	24.50	41.40	87.30	53.00	17.20	26.10	8.80	8.10		
13	2.80	21.40	9.60	33.10	29.50	35.10	116.80	50.60	16.10	20.00	8.80	10.50		
14	2.80	21.40	12.20	83.50	101.10	39.20	101.10	50.60	16.10	17.20	8.80	13.10		
15	2.80	20.00	48.20	41.40	58.70	53.00	79.70	48.20	16.10	15.10	8.10	13.10		
16	2.80	20.00	18.50	35.10	35.10	65.40	83.50	45.90	16.10	13.10	8.10	13.10		
17	2.80	18.50	14.10	27.80	21.40	182.40	76.00	45.90	15.10	13.10	8.10	13.10		
18	2.80	22.90	13.10	48.20	29.50	190.30	68.80	43.60	14.10	13.10	8.10	11.30		
19	2.80	65.40	13.10	87.30	24.50	159.70	65.40	41.40	13.10	13.10	8.10	10.50		
20	2.60	41.40	13.10	43.60	26.10	167.10	76.00	39.20	13.10	13.10	8.10	9.60		
21	2.00	24.50	13.10	41.40	62.00	152.40	76.00	39.20	14.10	13.10	8.10	9.60		
22	2.30	18.50	13.10	37.10	76.00	145.30	79.70	37.10	14.10	13.10	8.10	8.80		
23	2.30	16.10	13.10	37.10	65.40	122.30	122.30	35.10	14.10	13.10	8.10	8.80		
24	0.90	16.10	12.20	31.30	31.30	127.90	116.80	29.50	16.10	13.10	8.10	8.80		
25	1.10	16.10	12.20	43.60	43.60	133.60	91.30	24.50	16.10	13.10	7.40	11.30		
26	33.10	16.10	14.10	43.60	37.10	145.30	76.00	24.50	16.10	13.10	7.40	45.90		
27	29.50	16.10	13.10	43.60	31.30	122.30	76.00	22.90	16.10	13.10	7.40	133.60		
28	31.30	16.10	13.10	39.20	55.50	139.40	76.00	21.40	15.10	13.10	7.40	116.80		
29	22.90	16.10	13.10	35.10	65.40	264.50	83.50	20.00	15.10	13.10		68.80		
30	26.10	16.10	17.20	31.30	1248.40	297.50	83.50	18.50	15.10	13.10		45.90		
31		16.10		24.50	1595.00		76.00		15.10	13.10		35.10		
Total	191.80	758.60	505.10	1120.90	4184.10	7703.60	3430.30	2195.30	537.50	406.40	275.00	654.00	21962.60	**Ton**
Mean	6.40	24.50	16.80	36.20	135.00	256.80	110.70	73.20	17.30	13.10	9.80	21.10		
Max	33.10	65.40	48.20	87.30	1595.00	1141.50	286.30	275.30	26.10	26.10	13.10	133.60	1595.00	
Min	0.10	16.10	9.60	9.60	12.20	35.10	65.40	18.50	13.10	5.60	7.40	4.50	0.10	

WATER YEAR : 2014

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	1998-2014
Number of observation	297
R-Square	0.8524
Remarks	Continued Sediment Station

$$QS = 4.3172\ QW^{1.24130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	10.80	32.60	21.20	66.00	2862.10	402.40	112.20	66.00	39.90	14.80	23.40		
2	1.00	12.80	35.00	21.20	55.30	3411.60	371.60	108.20	66.00	37.50	9.00	27.90		
3	0.00	19.00	35.00	21.20	47.50	3588.90	341.20	108.20	66.00	37.50	5.40	23.40		
4	0.00	25.60	37.50	21.20	50.10	3323.60	348.80	104.20	66.00	39.90	5.40	23.40		
5	0.00	32.60	39.90	23.40	84.70	2534.30	363.90	108.20	66.00	39.90	3.80	25.60		
6	0.00	44.90	44.90	27.90	108.20	1896.60	333.70	175.70	63.30	39.90	3.80	25.60		
7	0.00	80.90	44.90	27.90	171.30	1580.30	311.40	318.80	63.30	37.50	3.80	23.40		
8	0.00	132.80	44.90	32.60	253.50	1077.90	282.10	441.60	63.30	35.00	2.30	21.20		
9	0.00	124.50	44.90	30.30	189.00	902.60	246.40	473.40	60.60	35.00	2.30	21.20		
10	0.00	116.30	47.50	32.60	205.90	710.10	217.30	482.80	60.60	32.60	1.00	19.00		
11	0.00	108.20	47.50	42.40	240.50	644.30	184.50	441.60	57.90	32.60	1.00	14.80		
12	2.30	92.40	50.10	52.70	189.00	568.60	171.30	402.40	57.90	32.60	2.30	12.80		
13	3.80	77.10	55.30	55.30	217.30	558.90	200.20	318.80	55.30	30.30	3.80	19.00		
14	3.80	63.30	57.90	42.40	189.00	539.70	253.50	228.90	52.70	32.60	5.40	19.00		
15	5.40	69.70	60.60	96.30	153.90	530.10	205.90	184.50	50.10	32.60	5.40	16.90		
16	5.40	80.90	60.60	348.80	145.40	539.70	162.60	153.90	50.10	30.30	9.00	7.10		
17	5.40	104.20	52.70	158.20	145.40	549.30	141.20	137.00	47.50	27.90	10.80	12.80		
18	5.40	137.00	50.10	128.60	149.70	482.80	132.80	128.60	47.50	27.90	12.80	21.20		
19	5.40	132.80	50.10	108.20	162.60	379.20	124.50	120.40	44.90	27.90	14.80	14.80		
20	7.10	66.00	47.50	96.30	132.80	318.80	120.40	112.20	42.40	27.90	14.80	14.80		
21	7.10	52.70	44.90	96.30	137.00	260.60	116.30	104.20	42.40	27.90	16.90	10.80		
22	7.10	47.50	44.90	112.20	162.60	211.60	112.20	100.30	42.40	25.60	16.90	10.80		
23	9.00	39.90	42.40	132.80	184.50	194.60	112.20	92.40	39.90	25.60	19.00	9.00		
24	10.80	30.30	37.50	153.90	184.50	184.50	116.30	88.50	39.90	23.40	19.00	9.00		
25	10.80	23.40	27.90	171.30	171.30	260.60	128.60	84.70	39.90	23.40	19.00	9.00		
26	10.80	25.60	21.20	166.90	180.10	593.60	137.00	84.70	39.90	21.20	21.20	10.80		
27	10.80	25.60	21.20	141.20	158.20	724.60	128.60	80.90	39.90	21.20	21.20	12.80		
28	10.80	21.20	21.20	104.20	217.30	473.40	120.40	77.10	42.40	21.20	21.20	16.90		
29	12.80	16.90	21.20	84.70	410.20	386.90	124.50	73.40	42.40	19.00		16.90		
30	10.80	14.80	23.40	73.40	1063.10	371.60	128.60	66.00	39.90	21.20		16.90		
31		23.40		66.00	1661.70		120.40		39.90	19.00		14.80		
Total	146.80	1853.10	1245.30	2691.60	7487.60	30661.40	6260.80	5513.80	1596.30	926.00	286.10	525.00	59193.80	**Ton**
Mean	4.90	59.80	41.50	86.80	241.50	1022.00	202.00	183.80	51.50	29.90	10.20	16.90		
Max	12.80	137.00	60.60	348.80	1661.70	3588.90	402.40	482.80	66.00	39.90	21.20	27.90	3588.90	
Min	0.00	10.80	21.20	21.20	47.50	184.50	112.20	66.00	39.90	19.00	1.00	7.10	0.00	

WATER YEAR : 2014

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.
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	2004-2014
Number of observation	199
R-Square	0.7764
Remarks	Continued Sediment Station

$$QS = 3.0043\ QW^{1.08310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	72.60	88.30	66.50	43.60	94.40	276.30	34.60	3.70	14.70	42.00	46.20	33.00		
2	73.40	78.60	73.40	46.20	75.20	284.80	22.50	1.70	16.20	42.80	46.20	27.30		
3	69.10	126.20	83.00	52.00	47.80	330.00	17.00	1.40	16.20	38.70	45.30	27.30		
4	67.40	209.10	71.70	48.70	27.30	333.80	15.50	1.10	15.50	33.00	43.60	27.30		
5	83.90	183.00	45.30	36.20	33.70	330.00	22.50	1.70	13.90	29.70	45.30	27.30		
6	90.90	155.70	52.00	29.70	30.50	339.40	17.80	1.40	13.90	29.70	47.80	27.30		
7	96.20	144.90	54.60	35.40	27.30	330.00	9.40	0.80	14.70	32.10	47.80	27.30		
8	105.00	107.70	60.50	44.50	28.10	326.30	3.00	2.40	16.20	35.40	47.80	27.30		
9	98.90	50.40	57.10	83.00	27.30	257.90	2.70	5.80	19.30	36.20	47.80	27.30		
10	76.00	56.30	47.80	93.60	26.50	153.00	2.40	15.50	29.70	33.00	47.00	27.30		
11	77.80	78.60	43.60	62.20	23.30	65.70	3.00	28.10	38.70	37.80	43.60	27.30		
12	95.30	82.10	36.20	42.00	22.50	28.90	2.70	30.50	36.20	40.30	42.00	27.30		
13	105.00	83.90	35.40	57.90	23.30	27.30	3.70	32.10	31.30	42.00	42.00	27.30		
14	124.80	98.90	35.40	89.10	20.90	35.40	5.10	30.50	29.70	42.00	42.00	27.30		
15	132.80	142.20	35.40	123.50	24.10	35.40	3.00	28.90	29.70	41.20	42.00	27.30		
16	139.50	146.30	37.00	90.00	44.50	29.70	3.00	27.30	29.70	39.50	40.30	27.30		
17	146.30	150.30	38.70	107.70	65.70	16.20	2.40	25.70	29.70	37.80	37.80	27.30		
18	140.90	144.90	39.50	203.60	57.10	11.70	2.40	25.70	29.70	35.40	37.80	27.30		
19	122.20	149.00	38.70	213.30	43.60	12.40	2.40	24.90	28.90	35.40	37.00	39.50		
20	105.00	162.50	34.60	191.20	34.60	6.50	2.70	26.50	27.30	35.40	35.40	77.80		
21	87.40	172.00	27.30	159.80	31.30	5.10	3.00	28.10	27.30	35.40	35.40	84.70		
22	83.90	143.60	27.30	135.50	39.50	4.40	3.00	24.10	29.70	34.60	35.40	66.50		
23	77.80	92.70	27.30	163.90	45.30	4.40	3.00	24.10	35.40	32.10	37.00	80.40		
24	76.90	66.50	27.30	203.60	48.70	15.50	3.00	24.90	31.30	33.00	39.50	109.00		
25	78.60	45.30	27.30	239.70	38.70	39.50	3.70	25.70	33.70	36.20	39.50	119.50		
26	86.50	47.00	31.30	232.80	51.20	58.80	4.40	24.10	29.70	37.80	39.50	119.50		
27	88.30	46.20	37.80	206.30	85.60	87.40	5.10	23.30	31.30	37.00	50.40	106.30		
28	91.80	50.40	35.40	177.50	130.20	58.80	5.10	19.30	35.40	37.00	36.20	97.10		
29	95.30	74.30	35.40	136.90	130.20	42.80	4.40	17.80	36.20	39.50		85.60		
30	95.30	71.70	38.70	96.20	109.00	28.90	9.40	17.00	37.80	37.80		79.50		
31		53.70		102.40	163.90		5.80		39.50	40.30		74.30		
Total	2884.80	3302.30	1301.50	3548.00	1651.30	3576.30	227.70	544.10	848.50	1140.10	1177.60	1636.80	21839.00	**Ton**
Mean	96.20	106.50	43.40	114.50	53.30	119.20	7.30	18.10	27.40	36.80	42.10	52.80		
Max	146.30	209.10	83.00	239.70	163.90	339.40	34.60	32.10	39.50	42.80	50.40	119.50	339.40	
Min	67.40	45.30	27.30	29.70	20.90	4.40	2.40	0.80	13.90	29.70	35.40	27.30	0.80	

WATER YEAR : 2013

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	1998-2014
Number of observation	281
R-Square	0.8290
Remarks	Continued Sediment Station

$$QS = 5.4387\ QW^{1.14180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	25.60	668.20	271.30	74.80	123.10	29.80	0.00	0.00		
2	0.00	0.00	0.00	0.00	24.50	926.50	292.60	71.90	119.20	29.80	0.00	0.00		
3	0.00	0.00	0.00	0.00	22.60	992.60	245.90	79.70	115.40	29.80	0.00	0.00		
4	0.00	0.00	0.00	0.00	15.60	1021.10	243.30	100.80	113.50	28.80	0.00	0.00		
5	0.00	0.00	0.00	0.00	9.00	985.50	262.30	117.30	111.60	28.80	0.00	0.00		
6	0.00	0.00	0.00	0.00	4.50	979.60	207.40	130.80	97.30	28.80	0.00	0.00		
7	0.00	0.00	0.00	0.00	3.70	885.50	140.40	126.90	92.00	28.80	0.00	0.00		
8	0.00	0.00	0.00	0.00	93.70	800.70	117.30	384.30	88.40	23.50	0.00	0.00		
9	0.00	0.00	0.00	0.00	217.60	782.20	106.20	500.00	71.90	16.50	0.00	0.00		
10	0.00	0.00	0.00	0.00	215.00	768.40	100.80	547.30	66.10	11.50	0.00	0.00		
11	0.00	0.00	0.00	0.00	235.50	786.80	93.70	418.60	64.60	6.70	0.00	0.00		
12	0.00	0.00	0.00	0.00	277.40	786.80	95.50	323.80	61.80	2.40	0.00	0.00		
13	0.00	0.00	0.00	0.00	240.70	763.90	111.60	262.30	57.50	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	204.80	709.00	123.10	222.70	54.70	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	194.70	645.70	123.10	202.30	54.70	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	189.70	605.40	109.80	187.20	51.90	0.00	0.00	0.00		
17	0.00	0.00	0.00	56.10	184.70	579.20	95.50	177.20	50.50	0.00	0.00	0.00		
18	0.00	0.00	0.00	121.10	159.90	605.40	88.40	169.80	49.10	0.00	0.00	0.00		
19	0.00	0.00	0.00	38.20	106.20	504.00	84.90	159.90	47.70	0.00	0.00	0.00		
20	0.00	0.00	0.00	25.60	56.10	380.50	81.40	157.40	46.30	0.00	0.00	0.00		
21	0.00	0.00	0.00	20.80	40.90	295.70	78.00	152.60	45.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	23.50	30.90	238.10	74.80	150.10	45.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	25.60	34.20	209.90	73.30	147.70	45.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	21.70	128.80	199.80	76.20	142.80	43.60	0.00	0.00	0.00		
25	0.00	0.00	0.00	24.50	150.10	199.80	93.70	147.70	43.60	0.00	0.00	0.00		
26	0.00	0.00	0.00	36.80	99.00	199.80	123.10	152.60	43.60	0.00	0.00	0.00		
27	0.00	0.00	0.00	54.70	83.20	243.30	97.30	147.70	40.90	0.00	0.00	0.00		
28	0.00	0.00	0.00	54.70	71.90	340.40	92.00	140.40	38.20	0.00	0.00	0.00		
29	0.00	0.00	0.00	46.30	111.60	445.60	88.40	135.60	33.10	0.00		0.00		
30	0.00	0.00	0.00	33.10	169.80	320.50	84.90	128.80	32.00	0.00		0.00		
31		0.00		28.80	369.10		81.40		30.90	0.00		0.00		
Total	0.00	0.00	0.00	611.50	3771.00	17869.90	3957.60	5861.00	1978.20	265.20	0.00	0.00	34314.40	**Ton**
Mean	0.00	0.00	0.00	19.70	121.60	595.70	127.70	195.40	63.80	8.60	0.00	0.00		
Max	0.00	0.00	0.00	121.10	369.10	1021.10	292.60	547.30	123.10	29.80	0.00	0.00	1021.10	
Min	0.00	0.00	0.00	0.00	3.70	199.80	73.30	71.90	30.90	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2007-2014
Number of observation	126
R-Square	0.8430
Remarks	Continued Sediment Station

$$QS = 5.8018\ QW^{1.18540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	717.30	371.40	202.20	2.90	1.80	2.50	1.20	1.00		
2	0.00	0.00	0.00	1.60	534.40	678.00	30.90	4.10	1.80	2.50	1.20	0.80		
3	0.00	0.00	0.00	1.80	413.90	613.40	15.50	4.70	1.80	2.30	1.20	0.80		
4	0.00	0.00	0.00	0.10	340.00	501.00	11.30	4.10	1.80	2.30	1.20	0.60		
5	0.00	0.00	0.00	0.80	446.30	350.40	9.70	3.70	1.80	2.00	1.20	0.60		
6	0.00	0.00	0.00	1.20	704.20	490.00	8.30	3.20	1.80	2.00	1.20	0.40		
7	0.00	0.00	0.00	0.60	877.70	891.30	7.50	2.70	1.80	1.80	1.20	0.40		
8	0.00	0.00	0.00	1.00	1015.00	783.50	6.40	2.70	1.80	1.80	1.20	0.30		
9	0.00	0.00	0.00	1.40	837.10	413.90	5.70	2.70	2.00	1.60	1.20	0.30		
10	0.00	0.00	0.00	1.80	545.50	253.50	5.10	2.70	2.00	1.60	1.20	0.10		
11	0.00	0.00	0.00	2.70	381.90	253.50	4.70	2.70	2.00	1.40	1.20	0.10		
12	0.00	0.00	0.00	4.10	271.00	253.50	4.10	2.70	2.00	1.40	1.20	0.00		
13	0.00	0.00	0.00	5.10	175.50	236.20	3.70	2.70	2.00	1.20	1.20	0.00		
14	0.00	0.00	0.00	6.40	149.50	184.40	3.20	2.70	2.00	1.20	1.20	0.30		
15	0.00	0.00	0.00	49.70	132.50	153.70	3.20	2.70	2.00	1.20	1.20	0.60		
16	0.00	0.00	0.00	959.70	119.90	140.90	3.20	2.70	2.00	1.20	1.00	0.60		
17	0.00	0.00	0.00	1084.70	99.50	193.30	2.70	2.70	2.30	1.20	1.00	0.30		
18	0.00	0.00	0.00	1212.10	87.50	162.50	2.70	2.70	2.30	1.20	1.00	0.00		
19	0.00	0.00	0.00	1312.70	79.80	136.80	2.70	2.70	2.30	1.20	1.00	0.00		
20	0.00	0.00	0.00	1141.10	91.60	115.80	2.30	2.70	2.30	1.20	1.00	0.00		
21	0.00	0.00	0.00	959.70	107.60	99.50	2.30	2.50	2.30	1.20	1.00	0.00		
22	0.00	0.00	0.00	932.20	91.60	91.60	2.30	2.30	2.30	1.20	1.00	0.00		
23	0.00	0.00	0.00	973.50	95.50	111.80	2.30	2.30	2.30	1.20	1.00	0.00		
24	0.00	0.00	0.00	1298.20	111.80	1169.40	2.30	2.30	2.50	1.20	1.00	0.00		
25	0.00	0.00	0.00	1001.10	132.50	3352.10	2.30	2.30	2.50	1.20	1.00	0.00		
26	0.00	0.00	0.00	704.20	153.70	2343.40	2.30	2.30	2.50	1.20	1.00	0.00		
27	0.00	0.00	0.00	468.10	236.20	1212.10	2.50	1.80	2.50	1.20	1.00	0.00		
28	0.00	0.00	0.00	392.60	413.90	704.20	2.50	1.80	2.50	1.20	1.00	0.00		
29	0.00	0.00	0.00	329.60	468.10	523.20	2.30	1.80	2.50	1.20		0.00		
30	0.00	0.00	0.00	468.10	413.90	468.10	2.30	1.80	2.50	1.20		0.00		
31		0.00		932.20	360.90		2.70		2.50	1.20		0.00		
Total	0.00	0.00	0.00	14248.10	10605.80	17252.40	361.20	81.70	66.50	46.00	31.00	7.20	42699.90	**Ton**
Mean	0.00	0.00	0.00	459.60	342.10	575.10	11.70	2.70	2.10	1.50	1.10	0.20		
Max	0.00	0.00	0.00	1312.70	1015.00	3352.10	202.20	4.70	2.50	2.50	1.20	1.00	3352.10	
Min	0.00	0.00	0.00	0.00	79.80	91.60	2.30	1.80	1.80	1.20	1.00	0.00	0.00	

WATER YEAR : 2014

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	2004-2014
Number of observation	216
R-Square	0.8188
Remarks	Continued Sediment Station

$$QS = 9.4693\ QW^{0.97070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	139.70	722.80	53.90	52.20	499.90	2590.00	2559.00	528.40	261.30	47.80	81.60	116.70		
2	149.80	1095.30	53.90	166.70	505.60	2791.50	2137.10	471.30	265.40	47.80	78.20	91.10		
3	173.50	840.30	60.00	153.20	511.30	3327.40	1865.00	422.20	253.00	47.80	73.00	76.50		
4	261.30	706.70	93.70	61.70	441.80	3741.70	1745.70	315.20	237.10	46.90	73.00	73.00		
5	282.10	658.20	81.60	43.40	298.60	3817.70	1607.40	183.60	233.80	46.00	73.00	74.70		
6	302.80	482.70	91.10	65.20	248.80	3699.50	1407.80	265.40	223.80	44.30	74.70	93.70		
7	311.10	517.00	146.50	83.40	207.10	3505.10	1280.40	494.10	210.40	39.90	81.60	114.20		
8	397.60	302.80	91.10	160.00	170.10	3140.90	1213.70	422.20	197.00	38.10	86.80	121.90		
9	328.40	248.80	73.00	121.90	143.10	2644.30	1052.20	333.40	190.30	38.10	98.80	109.10		
10	233.80	240.50	73.00	124.40	111.60	2193.30	1013.10	333.40	163.40	38.10	103.90	98.80		
11	213.80	244.60	71.30	32.80	76.50	2364.70	951.60	432.00	106.50	38.10	103.90	85.10		
12	207.10	240.50	67.80	23.00	42.50	2868.90	812.90	328.40	83.40	38.10	103.90	78.20		
13	213.80	223.80	60.00	28.80	25.30	2737.30	599.90	333.40	79.90	37.30	103.90	70.40		
14	220.40	220.40	51.30	39.00	17.70	2527.90	556.80	382.80	74.70	35.50	103.90	73.00		
15	220.40	248.80	41.70	62.60	21.70	2256.50	512.10	407.40	68.70	35.50	96.20	114.20		
16	227.10	298.60	33.70	127.00	31.50	1959.00	368.80	427.10	64.30	35.50	81.60	173.50		
17	306.90	227.10	28.80	143.10	33.70	1758.30	67.80	432.00	62.60	35.50	91.10	203.70		
18	466.40	217.10	27.10	114.20	38.10	1594.80	68.70	407.40	60.00	35.50	127.00	197.00		
19	397.60	227.10	33.70	248.80	56.50	1402.30	91.10	382.80	57.40	41.70	132.10	180.20		
20	333.40	183.60	47.80	528.40	76.50	1313.70	137.10	368.00	57.40	64.30	137.10	143.10		
21	277.90	143.10	62.60	586.90	93.70	1258.20	129.50	353.20	57.40	101.40	132.10	119.30		
22	269.60	265.40	56.50	488.40	103.90	1258.20	149.80	338.30	57.40	134.60	127.00	127.00		
23	269.60	207.10	33.70	722.80	74.70	1424.40	387.70	323.50	55.70	139.70	127.00	146.50		
24	197.00	129.50	22.60	698.60	418.10	1319.20	348.20	311.10	54.80	143.10	127.00	143.10		
25	124.40	111.60	15.80	840.30	520.20	1952.70	343.30	298.60	54.80	143.10	124.40	132.10		
26	106.50	88.50	23.50	642.00	890.00	2845.70	714.70	286.20	47.80	146.50	119.30	137.10		
27	143.10	61.70	31.50	1049.10	1285.90	3750.20	936.40	273.80	43.40	153.20	119.30	132.10		
28	269.60	60.90	30.60	840.30	1626.30	4036.80	888.40	273.80	39.90	160.00	119.30	124.40		
29	277.90	60.00	28.80	811.30	2021.50	3437.50	730.80	294.50	38.10	149.80		116.70		
30	432.00	57.40	31.50	722.80	2271.30	2892.10	821.00	277.90	38.10	116.70		111.60		
31		53.90		557.70	2465.80		666.30		38.10	114.20		119.30		
Total	7754.60	9385.80	1618.10	10340.00	15329.30	76409.80	26164.30	10701.40	3475.90	2334.10	2900.70	3697.30	170111.30	**Ton**
Mean	258.50	302.80	53.90	333.50	494.50	2547.00	844.00	356.70	112.10	75.30	103.60	119.30		
Max	466.40	1095.30	146.50	1049.10	2465.80	4036.80	2559.00	528.40	265.40	160.00	137.10	203.70	4036.80	
Min	106.50	53.90	15.80	23.00	17.70	1258.20	67.80	183.60	38.10	35.50	73.00	70.40	15.80	

WATER YEAR : 2014

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	2014
Number of observation	20
R-Square	0.8782
Remarks	Continued Sediment Station

$$QS = 13.2100\ QW^{1.31760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	3.90	5.00	5.30	12.20	684.10	37.30	12.50	10.50	7.00	5.00	5.90		
2	3.30	3.90	5.00	5.30	11.80	609.40	53.70	12.50	10.20	7.00	5.00	5.90		
3	3.20	3.90	4.70	5.90	11.50	823.40	182.60	12.20	9.80	7.00	4.70	5.90		
4	3.10	4.20	4.70	8.30	10.50	276.30	95.80	11.50	9.80	7.00	4.70	5.90		
5	3.10	5.00	4.50	5.60	12.90	110.40	57.70	32.90	9.50	7.00	4.70	5.90		
6	3.10	5.90	4.50	7.30	185.20	299.30	36.20	201.20	9.50	7.00	4.70	5.60		
7	2.90	5.90	4.50	6.70	68.30	651.90	34.00	195.80	9.20	7.00	4.70	5.60		
8	2.90	5.90	4.50	5.60	35.10	141.90	28.70	234.70	9.20	7.00	4.50	5.60		
9	2.90	5.60	4.20	5.30	44.20	62.20	19.60	112.40	8.90	6.70	4.50	5.30		
10	2.90	5.60	4.20	5.30	22.50	95.80	19.60	51.30	8.90	6.70	4.50	5.30		
11	2.90	5.30	4.20	6.20	20.80	269.80	54.90	30.80	8.90	6.70	4.50	5.30		
12	3.10	5.00	4.50	7.60	17.40	110.40	53.70	22.50	8.60	6.70	4.50	5.30		
13	3.30	5.00	4.50	20.80	16.10	79.40	34.00	20.80	8.60	6.70	4.50	5.00		
14	3.40	5.30	5.00	1576.10	15.70	81.00	21.40	17.90	8.60	6.70	4.50	7.30		
15	3.40	6.70	5.60	193.20	15.30	45.30	19.60	15.30	8.30	6.70	4.20	6.70		
16	3.40	4.70	9.20	53.70	15.70	31.80	18.50	13.90	8.30	6.70	4.20	5.90		
17	3.40	4.50	8.90	39.60	28.70	24.50	19.60	12.90	8.30	6.70	4.20	5.60		
18	3.40	5.00	7.90	29.70	15.70	24.50	19.60	11.80	8.30	6.40	4.20	5.60		
19	3.40	15.30	7.30	24.50	15.00	21.40	15.30	11.80	8.30	6.40	4.20	5.60		
20	3.40	9.80	7.00	21.90	19.60	18.50	13.90	11.50	8.30	6.40	4.20	5.30		
21	3.60	5.90	6.70	20.20	45.30	18.50	13.90	11.20	7.90	6.40	4.50	5.30		
22	3.60	3.20	6.40	19.60	52.50	21.40	13.90	11.20	7.60	6.40	8.30	5.30		
23	3.60	1.80	5.90	18.50	34.00	25.60	13.60	11.20	7.60	6.40	8.60	5.30		
24	3.60	1.40	5.30	15.30	20.20	32.90	13.60	11.20	7.60	6.20	7.60	7.30		
25	3.60	1.30	5.60	15.70	15.70	302.70	13.60	11.20	7.60	6.20	7.30	6.40		
26	3.60	1.20	5.60	19.60	14.30	159.40	13.20	11.20	7.30	6.20	7.00	5.30		
27	3.60	1.40	5.90	17.40	47.70	87.50	13.20	11.20	7.30	6.20	6.70	5.00		
28	3.70	2.60	6.40	15.70	411.60	47.70	12.90	11.20	7.30	5.90	6.70	4.70		
29	4.20	5.30	5.90	14.60	154.30	40.70	12.50	11.20	7.00	5.90		4.50		
30	3.90	4.70	5.60	13.60	1249.90	56.20	12.20	10.80	7.00	5.90		4.20		
31		4.20		13.20	811.20		12.20		7.00	5.90		3.90		
Total	100.90	149.40	169.20	2217.30	3450.90	5253.90	980.50	1157.80	261.20	203.10	146.90	171.70	14262.80	**Ton**
Mean	3.40	4.80	5.60	71.50	111.30	175.10	31.60	38.60	8.40	6.60	5.20	5.50		
Max	4.20	15.30	9.20	1576.10	1249.90	823.40	182.60	234.70	10.50	7.00	8.60	7.30	1576.10	
Min	2.90	1.20	4.20	5.30	10.50	18.50	12.20	10.80	7.00	5.90	4.20	3.90	1.20	

WATER YEAR : 2014

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	2004-2014
Number of observation	188
R-Square	0.7877
Remarks	Continued Sediment Station

$$QS = 3.8911\ QW^{1.11520}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.80	0.70	0.80	1.80	43.80	64.30	15.20	8.60	1.20	0.60	0.50		
2	0.20	0.80	0.60	1.20	1.60	108.20	66.80	13.80	8.40	1.10	0.60	0.50		
3	0.20	0.90	0.60	1.00	1.50	172.00	58.30	12.10	8.10	1.00	0.60	0.50		
4	0.20	0.90	0.60	1.00	1.50	139.70	52.70	10.30	7.90	1.00	0.60	0.50		
5	0.20	1.10	0.60	0.90	1.50	62.70	44.80	9.80	7.20	0.90	0.60	0.50		
6	0.20	1.10	0.90	1.00	2.50	42.10	40.10	12.10	5.70	0.90	0.60	0.50		
7	0.10	1.20	3.70	1.20	2.70	47.80	51.90	19.00	5.30	0.90	0.60	0.50		
8	0.30	1.20	3.80	1.20	2.50	84.80	42.40	37.50	5.10	0.80	0.60	0.50		
9	0.20	1.40	3.70	1.20	3.00	76.90	29.50	43.10	5.00	0.80	0.60	0.50		
10	0.10	1.30	3.50	1.00	3.30	55.40	40.80	43.80	4.90	0.80	0.60	0.50		
11	0.00	1.20	3.40	0.80	3.30	53.50	36.20	42.10	4.70	0.80	0.60	0.50		
12	0.00	1.30	3.30	0.90	3.00	53.90	37.50	40.40	4.20	0.80	0.60	0.50		
13	0.00	1.50	3.00	17.80	3.00	63.90	37.80	38.80	3.80	0.80	0.60	0.50		
14	0.00	3.50	2.90	43.10	3.00	70.80	32.90	36.80	3.50	0.80	0.60	0.50		
15	0.10	1.60	3.30	19.00	3.00	68.40	26.30	34.20	3.00	0.70	0.60	0.50		
16	0.10	1.30	3.20	12.90	4.90	179.70	23.70	27.10	2.50	0.70	0.60	0.50		
17	0.10	1.30	2.80	5.90	3.80	100.60	22.10	17.80	2.20	0.70	0.50	0.50		
18	0.00	1.20	2.70	4.20	3.30	71.20	18.80	15.60	2.30	0.70	0.50	0.50		
19	0.00	1.20	2.30	4.60	2.50	62.70	16.20	15.00	2.30	0.70	0.50	0.50		
20	0.00	1.10	2.00	5.10	1.80	55.00	16.00	14.00	2.30	0.70	0.50	0.50		
21	0.00	1.00	1.60	5.50	1.80	51.50	13.80	12.30	2.00	0.70	0.50	0.50		
22	0.00	0.90	1.20	5.00	2.40	43.10	14.40	11.30	2.00	0.70	0.50	0.50		
23	0.00	0.90	1.00	4.30	5.30	38.10	25.50	10.10	1.80	0.70	0.50	0.50		
24	0.00	0.70	1.00	5.10	4.20	39.10	22.60	8.10	1.70	0.70	0.50	0.50		
25	0.00	0.60	0.90	7.00	5.00	72.70	16.70	7.60	1.60	0.60	0.50	0.50		
26	0.00	0.60	0.90	5.40	7.60	134.70	15.60	7.00	1.50	0.60	0.50	0.50		
27	0.00	0.60	0.90	4.10	9.00	81.60	15.20	6.60	1.50	0.60	0.50	0.50		
28	0.20	1.00	0.90	3.00	13.10	70.30	14.60	6.30	1.40	0.60	0.50	0.50		
29	0.30	0.70	0.80	2.80	56.60	65.50	14.20	6.20	1.30	0.60		0.50		
30	0.30	0.60	0.80	2.40	47.10	63.50	14.20	5.90	1.30	0.60		0.50		
31		0.60		2.20	41.80		14.00		1.20	0.60		0.50		
Total	3.00	34.10	57.60	171.60	247.40	2273.20	939.90	579.90	114.30	23.80	15.60	15.50	4475.90	**Ton**
Mean	0.10	1.10	1.90	5.50	8.00	75.80	30.30	19.30	3.70	0.80	0.60	0.50		
Max	0.30	3.50	3.80	43.10	56.60	179.70	66.80	43.80	8.60	1.20	0.60	0.50	179.70	
Min	0.00	0.60	0.60	0.80	1.50	38.10	13.80	5.90	1.20	0.60	0.50	0.50	0.00	

WATER YEAR : 2014

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	2004-2014
Number of observation	206
R-Square	0.7970
Remarks	Continued Sediment Station

$$QS = 4.2353\ QW^{1.37950}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.70	8.50	10.30	21.10	11.00	272.10	183.10	17.40	13.80	10.60	8.50	7.10		
2	5.80	8.10	9.50	23.70	11.40	863.20	132.80	16.80	13.40	10.60	8.50	7.40		
3	6.10	8.50	9.20	19.80	16.80	1342.10	106.00	16.20	13.80	10.60	8.50	7.10		
4	6.10	9.20	8.80	13.00	16.20	591.70	77.80	18.00	13.00	10.30	8.50	7.10		
5	6.10	8.80	8.50	10.60	16.20	285.00	60.80	67.50	13.00	9.90	8.80	6.70		
6	6.40	8.50	7.80	9.90	34.80	154.80	47.00	154.80	12.60	10.30	9.20	7.10		
7	6.70	8.50	7.40	10.60	53.30	282.40	44.60	172.30	12.60	10.60	9.20	6.70		
8	7.10	8.10	7.40	16.80	39.20	177.70	43.80	210.30	12.20	9.90	9.20	7.10		
9	7.10	8.10	8.10	13.40	26.30	118.10	43.00	114.90	12.60	9.90	8.80	7.40		
10	7.10	7.80	14.60	11.80	23.00	110.10	42.30	89.80	12.20	9.90	9.20	7.10		
11	7.40	7.80	13.80	11.00	28.40	116.50	41.50	59.70	12.20	9.90	9.20	7.10		
12	10.60	7.80	13.80	10.60	34.80	107.30	40.70	43.00	12.20	9.50	8.50	7.40		
13	10.60	8.10	20.40	11.40	28.40	94.70	40.00	36.20	11.80	9.90	8.50	7.10		
14	10.60	11.00	16.20	104.70	27.00	94.70	37.00	29.80	11.80	9.50	9.20	7.10		
15	10.30	12.60	12.60	161.70	25.70	97.20	34.00	25.70	11.40	9.50	9.20	7.10		
16	10.30	12.60	10.30	54.40	30.50	113.30	31.20	23.00	11.40	9.50	8.80	7.40		
17	9.90	12.20	13.40	24.30	142.80	83.70	30.50	22.40	11.00	9.90	8.80	7.40		
18	9.50	12.60	13.80	15.00	75.50	65.20	29.80	21.10	11.40	9.50	9.20	7.10		
19	9.20	12.60	13.00	15.60	40.70	61.90	29.10	20.40	11.40	9.50	8.50	7.10		
20	8.80	12.20	12.60	16.20	35.50	53.30	29.80	19.80	11.00	9.50	8.50	7.40		
21	8.50	11.00	12.20	20.40	54.40	50.20	29.80	19.80	11.00	9.50	8.50	7.40		
22	8.50	9.20	11.80	15.00	141.10	57.60	29.10	18.60	10.60	9.20	8.80	7.80		
23	8.10	8.80	11.00	13.40	190.40	39.20	29.10	16.80	11.00	9.20	8.80	7.10		
24	7.80	8.50	10.60	12.20	98.40	42.30	28.40	16.20	10.60	9.20	8.50	7.40		
25	7.40	8.10	9.90	11.00	51.20	66.40	27.70	15.00	11.00	9.20	8.10	7.10		
26	7.40	9.20	9.90	21.70	43.80	216.50	27.00	14.60	11.00	9.20	8.10	7.10		
27	7.40	13.00	9.90	16.20	53.30	170.60	25.00	14.60	11.00	8.80	8.10	7.40		
28	7.40	14.20	9.90	13.80	520.20	129.50	23.00	14.60	10.60	8.80	8.10	6.70		
29	7.80	9.90	9.20	13.00	744.40	184.90	21.10	14.20	10.60	8.80		7.10		
30	7.80	8.80	8.80	12.20	515.90	170.60	18.00	13.80	10.30	8.80		6.70		
31		9.90		11.80	417.10		16.20		10.30	8.50		6.40		
Total	240.50	304.20	334.70	736.30	3547.70	6212.80	1399.20	1337.30	362.80	298.00	243.80	221.20	15238.50	**Ton**
Mean	8.00	9.80	11.20	23.80	114.40	207.10	45.10	44.60	11.70	9.60	8.70	7.10		
Max	10.60	14.20	20.40	161.70	744.40	1342.10	183.10	210.30	13.80	10.60	9.20	7.80	1342.10	
Min	5.80	7.80	7.40	9.90	11.00	39.20	16.20	13.80	10.30	8.50	8.10	6.40	5.80	

WATER YEAR : 2014

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.
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	2006-2014
Number of observation	129
R-Square	0.7449
Remarks	Continued Sediment Station

$$QS = 5.2390\ QW^{1.23130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.60	5.20	34.20	31.60	8.90	183.50	228.20	30.00	7.00	12.50	8.30	5.10		
2	19.90	9.10	19.90	41.70	5.10	176.50	227.10	20.60	7.00	11.50	3.00	4.90		
3	19.20	9.80	13.10	37.70	2.60	172.10	233.00	12.50	7.00	11.50	2.30	5.20		
4	18.50	5.00	13.80	41.30	1.40	182.50	231.80	13.80	7.00	11.80	2.10	9.10		
5	17.80	4.50	11.80	42.60	1.60	194.50	223.50	17.20	6.80	12.20	1.70	13.60		
6	16.80	4.50	9.60	28.20	2.00	174.70	218.80	19.90	6.00	11.10	1.00	18.20		
7	16.10	4.50	8.70	9.30	2.30	164.30	193.40	34.70	6.00	9.60	0.20	21.30		
8	15.50	4.50	9.10	3.10	2.80	183.50	161.80	66.20	6.00	7.40	0.20	25.60		
9	14.80	4.50	6.40	2.90	5.00	184.50	122.30	84.60	6.00	5.40	0.20	21.30		
10	14.50	4.40	5.00	1.20	13.80	152.30	82.70	74.30	5.80	4.50	3.70	16.50		
11	14.10	4.10	4.50	1.60	20.60	94.40	63.60	37.00	5.40	4.20	23.50	12.20		
12	13.60	3.60	4.40	5.10	19.90	64.70	48.70	40.90	5.10	4.50	23.80	10.70		
13	13.10	3.30	4.10	9.10	10.40	66.80	36.10	23.80	4.90	6.40	24.20	7.90		
14	12.70	5.80	3.60	12.20	8.50	124.80	26.70	12.70	4.50	13.60	26.70	6.80		
15	12.20	12.50	3.30	11.80	6.80	131.40	20.90	12.00	4.40	19.20	32.30	5.40		
16	11.30	13.80	2.80	9.60	5.60	119.90	16.50	10.90	3.70	22.40	29.00	4.50		
17	10.70	20.30	2.30	8.10	4.50	93.70	12.20	10.20	7.20	24.50	25.30	4.50		
18	10.00	27.50	2.10	7.20	4.40	77.50	11.10	9.60	23.00	25.60	20.90	4.40		
19	9.30	37.70	1.80	6.00	4.40	69.90	9.80	8.90	25.60	26.30	16.80	4.10		
20	8.70	37.70	5.60	5.20	8.50	34.20	8.90	8.10	26.30	27.50	12.70	4.00		
21	8.30	12.70	22.70	4.50	59.60	49.40	8.10	7.70	27.50	27.10	12.50	3.90		
22	7.70	11.80	26.00	4.50	81.40	26.00	13.10	7.70	27.50	25.60	12.20	3.70		
23	7.20	10.90	27.80	4.10	55.00	19.90	30.80	7.70	27.50	26.30	11.80	3.60		
24	6.80	10.90	29.70	2.90	40.10	44.60	37.70	7.70	27.10	27.50	11.30	3.50		
25	6.20	9.80	30.40	3.30	35.40	163.50	37.70	7.70	26.70	27.80	10.90	3.50		
26	5.60	10.90	29.30	11.10	46.10	215.30	38.60	7.40	24.80	27.80	9.60	3.60		
27	5.10	17.50	28.20	15.20	116.60	242.50	47.00	7.40	22.70	24.80	7.70	3.60		
28	4.70	26.30	27.80	20.90	122.30	240.10	37.00	7.20	20.30	21.30	5.80	3.70		
29	4.50	36.60	26.70	17.20	121.50	235.30	27.10	7.20	18.20	18.20		3.90		
30	4.50	42.10	26.30	13.40	164.30	230.60	24.80	7.00	16.10	15.20		4.00		
31		39.70		11.80	175.60		23.00		14.10	12.90		4.10		
Total	350.00	451.50	441.00	424.40	1157.00	4112.90	2502.00	622.60	427.20	526.20	339.70	246.40	11600.90	**Ton**
Mean	11.70	14.60	14.70	13.70	37.30	137.10	80.70	20.80	13.80	17.00	12.10	7.90		
Max	20.60	42.10	34.20	42.60	175.60	242.50	233.00	84.60	27.50	27.80	32.30	25.60	242.50	
Min	4.50	3.30	1.80	1.20	1.40	19.90	8.10	7.00	3.70	4.20	0.20	3.50	0.20	

WATER YEAR : 2014

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	2005-2014
Number of observation	196
R-Square	0.8442
Remarks	Continued Sediment Station

$$QS = 4.9092\ QW^{1.05030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	85.60	431.60	98.00	242.60	289.40	1272.50	612.10	212.90	114.20	60.90	39.00	45.90		
2	134.00	442.40	101.60	154.00	200.50	1761.50	653.80	195.60	119.60	60.90	42.50	44.70		
3	165.00	413.80	144.90	137.60	292.60	2203.30	762.60	166.80	114.20	60.90	55.10	42.50		
4	137.60	428.10	159.50	152.20	176.00	2175.60	724.90	143.10	112.40	60.90	58.60	37.90		
5	159.50	431.60	154.00	144.90	130.40	1914.10	670.50	141.30	105.20	60.90	58.60	35.60		
6	178.40	371.40	143.10	69.10	143.10	1709.10	616.30	159.50	108.80	60.90	58.60	33.40		
7	239.50	330.30	150.40	67.90	141.30	1438.80	554.10	168.60	101.60	55.10	58.60	33.40		
8	261.30	276.90	143.10	59.80	123.20	1260.70	510.70	171.10	87.30	43.60	58.60	33.40		
9	267.50	255.10	123.20	85.60	103.40	1110.00	456.70	173.50	85.60	48.20	59.80	33.40		
10	248.80	212.90	101.60	125.00	89.10	906.10	399.50	176.00	76.10	56.30	60.90	34.50		
11	217.80	178.40	89.10	130.40	82.00	811.80	355.60	185.80	72.60	56.30	58.60	35.60		
12	176.00	203.00	71.40	110.60	80.30	733.20	305.10	230.20	99.80	57.40	54.00	35.60		
13	215.30	227.10	70.30	94.50	72.60	733.20	273.80	305.10	77.30	54.00	44.70	35.60		
14	255.10	261.30	72.60	114.20	62.10	750.00	212.90	314.60	75.00	48.20	45.90	35.60		
15	317.70	273.80	76.10	236.40	59.80	733.20	166.80	333.50	78.50	57.40	45.90	35.60		
16	413.80	258.20	78.50	264.40	59.80	678.80	141.30	355.60	77.30	57.40	49.30	34.50		
17	424.50	255.10	83.80	239.50	116.00	662.10	130.40	358.70	71.40	57.40	55.10	39.00		
18	385.30	233.30	99.80	270.70	255.10	645.40	112.40	324.00	60.90	54.00	55.10	48.20		
19	378.10	217.80	90.90	417.30	154.00	570.60	134.00	305.10	60.90	43.60	55.10	49.30		
20	327.20	210.40	76.10	456.70	132.20	499.90	139.50	286.30	60.90	47.00	55.10	67.90		
21	264.40	270.70	75.00	428.10	207.90	456.70	117.80	286.30	60.90	57.40	55.10	110.60		
22	220.90	245.70	73.80	368.20	178.40	435.20	94.50	261.30	60.90	58.60	55.10	72.60		
23	205.50	207.90	65.60	355.60	143.10	333.50	82.00	203.00	59.80	47.00	55.10	101.60		
24	198.10	143.10	59.80	399.50	166.80	471.10	99.80	193.20	58.60	47.00	56.30	123.20		
25	183.30	77.30	63.30	417.30	217.80	741.60	165.00	178.40	59.80	51.70	60.90	135.80		
26	180.90	69.10	87.30	424.50	217.80	1126.00	207.90	193.20	60.90	59.80	58.60	123.20		
27	173.50	56.30	83.80	438.80	485.50	1227.90	180.90	193.20	60.90	64.40	58.60	130.40		
28	166.80	73.80	80.30	406.60	847.70	1077.90	180.90	183.30	60.90	60.90	55.10	119.60		
29	242.60	112.40	76.10	358.70	937.60	816.30	251.90	178.40	60.90	44.70		110.60		
30	374.60	116.00	123.20	327.20	928.60	628.80	230.20	141.30	60.90	37.90		92.70		
31		139.50		302.00	1067.20		190.70		60.90	36.80		78.50		
Total	7198.60	7424.30	2916.20	7799.90	8161.30	29884.90	9734.60	6718.90	2425.00	1667.50	1523.90	1990.40	87445.50	**Ton**
Mean	240.00	239.50	97.20	251.60	263.30	996.20	314.00	224.00	78.20	53.80	54.40	64.20		
Max	424.50	442.40	159.50	456.70	1067.20	2203.30	762.60	358.70	119.60	64.40	60.90	135.80	2203.30	
Min	85.60	56.30	59.80	59.80	59.80	333.50	82.00	141.30	58.60	36.80	39.00	33.40	33.40	

WATER YEAR : 2014

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	2014
Number of observation	28
R-Square	0.8911
Remarks	Continued Sediment Station

$$QS = 5.1727\ QW^{1.09950}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	37.10	94.90	66.50	9.90	129.50	272.50	282.30	368.30	14.80	19.20	0.00	0.00		
2	21.20	101.60	66.50	0.40	126.80	298.70	385.10	391.80	13.50	21.20	0.00	0.00		
3	45.30	103.80	70.80	0.00	108.30	301.90	391.80	371.70	12.30	21.20	0.00	0.00		
4	37.10	106.10	77.30	6.30	92.70	381.70	388.40	341.60	7.50	17.30	0.00	0.00		
5	39.10	106.10	75.10	11.10	75.10	459.60	361.60	305.20	7.50	14.80	0.00	0.00		
6	39.10	106.10	88.30	4.00	68.60	432.40	318.40	292.10	5.20	6.30	0.00	0.00		
7	33.00	110.60	86.10	0.00	68.60	466.40	282.30	315.10	5.20	8.70	0.00	39.10		
8	60.10	140.10	83.90	0.00	57.90	442.60	272.50	292.10	6.30	1.90	0.00	7.50		
9	68.60	219.70	66.50	0.00	53.70	358.30	279.00	249.80	9.90	0.00	0.00	9.90		
10	75.10	282.30	62.20	0.00	47.40	279.00	338.30	197.40	5.20	0.00	0.00	17.30		
11	81.70	311.80	51.60	1.90	41.20	219.70	429.00	148.20	4.60	0.00	0.00	17.30		
12	88.30	318.40	47.40	0.00	29.00	178.10	518.00	115.10	4.60	0.00	0.00	17.30		
13	94.90	262.70	39.10	0.00	16.00	140.10	611.90	97.10	4.00	0.00	0.00	21.20		
14	99.40	230.90	23.10	0.00	9.90	124.10	636.50	79.50	3.50	0.00	0.00	21.20		
15	103.80	186.40	21.20	0.00	4.60	124.10	661.10	68.60	2.40	0.00	0.00	14.80		
16	108.30	172.70	31.00	27.00	2.90	129.50	664.60	62.20	1.90	0.00	0.00	6.30		
17	103.80	148.20	39.10	45.30	0.90	161.80	615.40	55.80	1.90	0.00	0.00	8.70		
18	110.60	115.10	43.30	64.30	0.90	150.90	518.00	45.30	1.90	0.00	0.00	17.30		
19	110.60	137.50	47.40	57.90	4.00	156.30	401.90	25.10	1.40	0.00	0.00	17.30		
20	106.10	150.90	45.30	64.30	4.60	211.30	305.20	17.30	4.60	0.00	0.00	16.00		
21	101.60	150.90	45.30	64.30	17.30	236.90	253.00	16.00	25.10	0.00	0.00	11.10		
22	94.90	140.10	35.10	106.10	21.20	203.00	243.30	17.30	25.10	0.00	0.00	12.30		
23	92.70	119.60	17.30	121.90	29.00	159.00	228.10	16.00	21.20	0.00	0.00	13.50		
24	92.70	103.80	13.50	159.00	45.30	142.80	225.30	17.30	17.30	0.00	0.00	4.00		
25	86.10	92.70	4.00	186.40	53.70	148.20	259.50	12.30	17.30	0.00	0.00	0.90		
26	79.50	86.10	1.90	175.40	49.50	140.10	288.80	16.00	17.30	0.00	0.00	7.50		
27	77.30	73.00	1.90	129.50	55.80	153.60	298.70	16.00	17.30	0.00	0.00	14.80		
28	77.30	51.60	2.90	115.10	79.50	148.20	305.20	16.00	17.30	0.00	0.00	9.90		
29	79.50	66.50	8.70	94.90	117.30	156.30	308.50	14.80	19.20	0.00		4.60		
30	88.30	66.50	6.30	119.60	169.90	175.40	328.30	14.80	17.30	0.00		0.00		
31		66.50		129.50	216.90		358.30		17.30	0.00		0.00		
Total	2333.10	4423.20	1268.60	1694.10	1798.00	6952.50	11758.30	3995.80	329.90	110.60	0.00	309.80	34973.90	**Ton**
Mean	77.80	142.70	42.30	54.60	58.00	231.70	379.30	133.20	10.60	3.60	0.00	10.00		
Max	110.60	318.40	88.30	186.40	216.90	466.40	664.60	391.80	25.10	21.20	0.00	39.10	664.60	
Min	21.20	51.60	1.90	0.00	0.90	124.10	225.30	12.30	1.40	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	32
R-Square	0.8760
Remarks	Continued Sediment Station

$$QS = 11.7630\ QW^{0.81080}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	31.00	27.90	144.90	17.20	166.40	177.00	1150.90	1486.90	497.80	213.80	39.10	16.30		
2	30.20	28.70	153.60	16.30	162.20	239.40	1150.90	1528.50	403.20	211.80	36.90	16.30		
3	30.20	28.70	151.40	14.60	172.80	318.70	1142.40	1574.80	296.40	205.70	35.50	16.30		
4	29.40	29.40	122.60	13.60	174.90	458.40	1125.30	1619.80	217.70	201.70	33.20	15.50		
5	29.40	29.40	96.90	10.80	166.40	666.30	1105.20	1654.60	217.70	199.60	31.00	14.60		
6	28.70	29.40	76.10	9.80	162.20	831.70	1093.30	1674.40	247.20	199.60	29.40	13.60		
7	28.70	32.50	64.80	7.80	185.30	906.50	1073.30	1689.20	255.30	197.60	28.70	12.70		
8	27.90	32.50	54.30	4.40	207.70	959.50	1049.30	1674.40	255.30	195.60	27.90	11.80		
9	27.90	31.70	47.50	1.80	215.70	978.20	1026.50	1654.60	243.30	191.50	26.30	10.80		
10	27.10	30.20	42.00	3.20	217.70	981.90	985.70	1629.70	239.40	177.00	24.70	9.80		
11	26.30	29.40	37.70	1.80	213.80	959.50	944.40	1584.90	239.40	164.30	23.10	8.80		
12	26.30	31.70	30.20	0.00	197.60	921.70	902.70	1542.30	241.40	160.00	22.30	7.80		
13	25.50	39.80	25.50	0.00	170.70	879.80	868.30	1486.90	241.40	151.40	22.30	10.80		
14	25.50	47.50	23.10	3.20	144.90	849.30	824.70	1435.70	239.40	140.50	21.50	10.80		
15	27.10	57.00	21.50	8.80	122.60	887.40	785.50	1387.40	237.50	133.90	21.50	11.80		
16	27.10	71.10	22.30	12.70	99.30	970.70	760.40	1338.90	237.50	124.90	20.60	11.80		
17	27.10	101.70	21.50	15.50	87.10	1019.10	735.00	1258.70	231.60	115.80	19.80	10.80		
18	26.30	120.30	18.10	19.80	74.90	1069.40	702.90	1177.30	225.70	108.80	18.90	10.80		
19	26.30	131.60	15.50	22.30	64.80	1129.60	669.70	1101.20	223.70	101.70	18.10	10.80		
20	26.30	142.70	15.50	22.30	55.70	1195.50	629.30	1049.30	223.70	94.50	19.80	9.80		
21	26.30	149.30	13.60	22.30	50.30	1249.70	608.80	1011.70	221.70	74.90	18.90	7.80		
22	26.30	149.30	13.60	22.30	44.80	1276.60	612.30	981.90	225.70	73.60	18.90	9.80		
23	27.10	160.00	11.80	24.70	42.70	1285.60	642.80	955.70	219.70	72.40	18.90	9.80		
24	27.10	168.60	11.80	32.50	43.40	1276.60	716.80	925.50	215.70	76.10	18.90	9.80		
25	27.10	164.30	13.60	48.90	43.40	1263.20	824.70	879.80	217.70	64.80	18.90	8.80		
26	27.10	155.80	10.80	67.30	44.80	1213.70	963.20	828.20	217.70	59.60	18.90	8.80		
27	26.30	149.30	8.80	82.20	44.80	1177.30	1069.40	778.40	221.70	54.30	17.20	7.80		
28	26.30	144.90	6.70	118.10	46.20	1159.40	1168.20	716.80	227.70	50.30	17.20	6.70		
29	26.30	155.80	4.40	147.10	51.60	1155.10	1267.70	646.20	221.70	46.20		6.70		
30	27.10	144.90	16.30	162.20	68.60	1150.90	1343.30	590.50	215.70	43.40		8.80		
31		140.50		172.80	104.00		1422.30		213.80	42.70		9.80		
Total	821.30	2755.90	1296.40	1106.30	3647.30	28607.70	29365.20	37864.20	7633.40	3948.00	668.40	336.30	118050.40	**Ton**
Mean	27.40	88.90	43.20	35.70	117.70	953.60	947.30	1262.10	246.20	127.40	23.90	10.80		
Max	31.00	168.60	153.60	172.80	217.70	1285.60	1422.30	1689.20	497.80	213.80	39.10	16.30	1689.20	
Min	25.50	27.90	4.40	0.00	42.70	177.00	608.80	590.50	213.80	42.70	17.20	6.70	0.00	

WATER YEAR : 2014

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	2014
Number of observation	22
R-Square	0.9755
Remarks	Continued Sediment Station

$$QS = 4.0389\ QW^{0.98290}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.10	15.00	22.00	12.70	369.60	69.20	1572.80	1851.50	763.20	121.80	153.50	74.90		
2	11.50	15.00	21.60	12.50	413.60	62.40	1594.30	1701.60	517.80	123.70	148.00	76.00		
3	12.50	15.00	21.00	12.90	442.90	99.70	1608.60	1765.90	299.80	121.80	140.50	78.30		
4	12.50	15.00	20.60	13.80	490.40	138.60	1615.80	1773.00	109.80	121.80	131.20	79.40		
5	12.90	14.80	20.20	15.00	517.80	174.00	1615.80	1851.50	108.70	121.80	127.40	78.30		
6	13.30	14.80	20.00	16.00	545.20	146.10	1608.60	2093.90	107.60	119.90	123.70	78.30		
7	13.40	14.60	20.20	19.10	583.40	162.90	1558.50	2115.30	107.60	119.90	121.80	77.10		
8	13.60	14.60	20.40	21.20	599.80	697.90	1451.10	1972.80	105.30	119.90	119.90	77.10		
9	13.40	14.40	19.80	28.10	594.30	1673.00	1365.00	2015.60	104.20	119.90	116.20	77.10		
10	13.30	14.40	20.00	35.00	572.50	1343.50	1196.20	1922.90	103.10	119.90	114.30	76.00		
11	13.40	14.20	21.80	36.20	534.20	1314.80	1001.80	2022.70	103.10	131.20	112.10	74.90		
12	13.40	14.00	18.30	38.40	428.30	1304.00	958.50	2015.60	101.90	162.90	108.70	73.70		
13	13.40	13.80	14.60	52.20	402.60	1304.00	866.30	1987.10	101.90	151.70	104.20	72.60		
14	13.60	13.80	12.70	62.40	314.50	1298.60	687.00	1987.10	100.80	131.20	97.40	71.50		
15	13.60	13.60	13.10	68.10	237.00	1282.50	757.70	1994.20	100.80	151.70	89.50	70.30		
16	13.80	13.60	14.80	98.60	177.70	1277.10	697.90	1751.60	99.70	157.30	88.40	68.10		
17	14.00	13.40	16.00	83.90	142.40	1282.50	605.20	1572.80	99.70	153.50	87.30	65.80		
18	14.20	13.30	14.00	77.10	86.20	1287.90	556.10	974.70	98.60	151.70	85.00	64.70		
19	14.40	13.30	9.90	77.10	27.00	1298.60	501.40	506.90	98.60	155.40	83.90	62.40		
20	14.60	13.10	9.40	76.00	22.70	1304.00	446.60	410.00	100.80	149.80	82.80	60.10		
21	14.80	12.90	9.20	74.90	21.40	1304.00	244.40	351.30	109.80	142.40	81.60	59.00		
22	14.60	12.70	9.00	78.30	20.40	1298.60	377.00	410.00	116.20	134.90	80.50	57.80		
23	15.00	12.50	8.80	85.00	18.70	1293.20	340.30	495.90	121.80	138.60	78.30	56.70		
24	15.00	14.00	8.40	94.10	22.20	1287.90	307.20	605.20	123.70	134.90	77.10	54.40		
25	15.00	19.60	8.20	121.80	56.70	1282.50	281.40	877.20	123.70	142.40	76.00	49.90		
26	15.20	20.60	8.20	140.50	80.50	1304.00	285.00	850.10	121.80	142.40	76.00	44.20		
27	15.20	21.00	8.00	140.50	114.30	1615.80	561.60	839.20	123.70	140.50	76.00	41.90		
28	15.20	21.80	8.00	123.70	108.70	1644.40	1723.00	833.80	123.70	142.40	74.90	40.70		
29	15.20	28.10	9.20	129.30	103.10	1622.90	1773.00	806.70	121.80	146.10		39.60		
30	15.20	22.70	13.10	159.10	98.60	1572.80	1737.30	795.80	121.80	155.40		38.40		
31		22.00		285.00	88.40		1744.40		119.90	157.30		35.00		
Total	416.30	491.60	440.50	2288.50	8235.10	31747.40	31639.80	41151.90	4660.90	4284.10	2856.20	1974.20	130186.50	**Ton**
Mean	13.90	15.90	14.70	73.80	265.60	1058.20	1020.60	1371.70	150.40	138.20	102.00	63.70		
Max	15.20	28.10	22.00	285.00	599.80	1673.00	1773.00	2115.30	763.20	162.90	153.50	79.40	2115.30	
Min	11.10	12.50	8.00	12.50	18.70	62.40	244.40	351.30	98.60	119.90	74.90	35.00	8.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	32
R-Square	0.9729
Remarks	Continued Sediment Station

$$QS = 1.9334\ QW^{1.21130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	2.90	128.70	7.90	28.40	28.40	1227.70	1352.30	212.90	3.40	0.00	0.00		
2	1.00	3.20	71.10	7.30	23.30	64.10	1240.80	1392.00	155.90	6.20	0.00	0.00		
3	0.80	3.20	44.80	6.70	20.40	191.90	1234.20	1425.30	86.30	9.70	0.00	0.00		
4	1.00	3.70	33.00	6.20	18.30	294.00	1240.80	1452.00	48.90	9.70	0.00	0.00		
5	1.00	24.70	24.70	5.60	17.60	341.90	1227.70	1465.40	35.30	6.20	0.00	0.00		
6	1.00	44.00	21.10	4.50	17.60	305.90	1201.80	1438.60	32.20	3.70	0.00	0.00		
7	1.00	52.20	19.00	3.90	18.30	239.80	1176.00	1445.30	37.60	2.40	0.00	0.00		
8	0.80	48.90	14.90	3.70	21.80	218.30	1143.80	1438.60	35.30	1.50	0.00	0.00		
9	0.80	38.40	12.90	3.90	24.70	243.60	1079.90	1445.30	39.20	0.80	0.00	0.00		
10	0.80	29.90	10.40	3.70	25.50	258.90	1016.70	1452.00	40.80	0.40	0.00	0.00		
11	0.80	24.00	8.50	3.20	19.00	309.80	941.80	1465.40	36.90	0.00	0.00	0.00		
12	0.80	29.20	6.70	2.70	13.60	386.90	880.10	1505.70	32.20	0.00	0.00	0.00		
13	0.60	42.40	6.20	2.90	9.10	382.80	819.20	1519.20	27.70	0.00	0.00	0.00		
14	0.80	43.20	5.60	5.00	8.50	416.00	778.30	1492.20	21.80	0.00	0.00	0.00		
15	0.80	49.70	4.50	5.00	9.10	479.50	746.40	1452.00	19.00	0.00	0.00	0.00		
16	0.80	84.00	4.20	6.20	8.50	602.10	709.50	1432.00	17.60	0.00	0.00	0.00		
17	0.80	95.40	3.90	7.30	5.60	867.90	678.80	1398.60	16.90	0.00	0.00	0.00		
18	0.80	136.00	4.20	6.20	4.50	1023.00	647.00	1405.30	14.20	0.00	0.00	0.00		
19	1.00	153.40	5.00	1.90	4.50	1156.60	611.10	1432.00	13.60	0.00	0.00	0.00		
20	1.00	128.70	4.20	0.30	5.00	1234.20	588.80	1418.60	13.60	0.00	0.00	0.00		
21	1.00	171.20	4.50	0.60	4.20	1279.90	566.60	1358.90	11.60	0.00	0.00	0.00		
22	1.00	184.10	7.30	0.60	3.90	1299.60	553.40	1293.00	8.50	0.00	0.00	0.00		
23	0.80	121.40	7.30	1.50	3.90	1201.80	557.80	1221.30	6.70	0.00	0.00	0.00		
24	0.80	136.00	6.20	3.70	3.40	1150.20	597.70	1137.40	6.20	0.00	0.00	0.00		
25	0.80	133.60	5.00	14.20	2.90	1169.50	651.60	1035.60	5.00	0.00	0.00	0.00		
26	0.80	111.80	5.00	26.20	3.90	1208.30	725.30	917.00	3.90	0.00	0.00	0.00		
27	0.80	88.50	4.20	36.10	3.90	1214.80	855.60	767.70	2.90	0.00	0.00	0.00		
28	1.50	72.80	3.90	40.80	3.70	1221.30	1010.40	597.70	2.70	0.00	0.00	0.00		
29	1.70	100.10	3.70	41.60	4.50	1221.30	1131.00	441.20	1.90	0.00		0.00		
30	2.70	143.40	7.30	36.10	9.70	1234.20	1227.70	309.80	1.90	0.00		0.00		
31		148.40		31.50	16.90		1293.00		1.50	0.00		0.00		
Total	29.60	2448.40	488.00	327.00	364.20	21246.50	28360.50	37907.40	990.70	44.00	0.00	0.00	92206.30	**Ton**
Mean	1.00	79.00	16.30	10.50	11.70	708.20	914.90	1263.60	32.00	1.40	0.00	0.00		
Max	2.70	184.10	128.70	41.60	28.40	1299.60	1293.00	1519.20	212.90	9.70	0.00	0.00	1519.20	
Min	0.60	2.90	3.70	0.30	2.90	28.40	553.40	309.80	1.50	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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** Mueang **Changwat** Ubon Ratchathani

Drainge Area	107,345 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2010-2014
Number of observation	152
R-Square	0.8612
Remarks	Continued Sediment Station

$$QS = 3.6135\ QW^{1.03290}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	24.60	66.60	253.40	1833.10	7367.60	2971.30	6733.30	4285.10	1649.10	63.30	112.90	38.20		
2	24.60	65.00	290.90	1751.20	7769.90	3304.70	7063.70	4011.80	1712.60	55.20	112.90	38.20		
3	25.40	61.70	411.80	1560.70	8672.20	3718.20	7339.50	3885.90	1569.80	47.10	121.20	37.40		
4	26.20	60.10	437.80	1443.10	8945.00	4011.80	7505.10	3990.80	1316.80	43.00	121.20	36.60		
5	27.80	61.70	481.40	1398.00	8945.00	4474.60	7588.90	3948.90	1143.80	39.00	121.20	35.80		
6	27.80	65.00	525.10	1319.10	8945.00	4934.30	7603.20	3802.00	1002.90	47.10	121.20	35.00		
7	31.00	65.00	568.90	1262.80	8945.00	5216.40	7574.60	3718.20	1143.80	71.50	112.90	34.20		
8	34.20	65.00	612.80	1206.60	8938.60	5782.00	7394.70	3655.40	1159.50	104.60	104.60	33.40		
9	38.20	65.00	656.80	1262.80	8925.80	6705.80	7063.70	3378.90	1190.90	121.20	96.30	32.60		
10	38.20	68.30	718.50	1274.10	8900.30	7201.60	6568.30	3193.40	1238.10	112.90	79.80	31.80		
11	38.20	73.20	753.90	1251.60	8862.00	7284.30	5923.70	3100.80	1175.20	104.60	67.40	31.80		
12	37.40	78.10	674.40	1330.30	8825.30	7201.60	5145.80	3063.80	1002.90	96.30	59.30	31.00		
13	36.60	84.70	568.90	1499.60	8772.70	6926.00	4285.10	3026.80	956.00	96.30	55.20	31.00		
14	36.60	91.30	595.20	1601.50	8638.80	6678.30	3230.50	2934.30	1034.10	104.60	51.10	30.20		
15	35.80	102.90	595.20	1510.90	8495.40	6485.80	2303.70	2934.30	1143.80	112.90	47.10	29.40		
16	36.60	112.90	612.80	1285.30	8247.00	6430.80	1712.60	2694.40	1222.40	121.20	47.10	27.80		
17	37.40	117.90	630.40	1307.80	7817.60	6485.80	1633.20	2159.40	1253.80	121.20	43.00	27.80		
18	38.20	119.60	621.60	1330.30	7036.20	6623.30	1569.80	1887.80	1175.20	121.20	39.00	27.80		
19	40.60	107.90	612.80	1364.10	5876.40	6733.30	1301.10	1665.00	1112.40	121.20	38.20	28.60		
20	43.80	93.00	656.80	1587.90	4622.20	6760.80	1175.20	1506.40	1175.20	112.90	37.40	29.40		
21	47.10	91.30	780.50	1956.10	3416.00	6678.30	940.40	1522.20	1206.60	112.90	37.40	32.60		
22	51.90	89.70	931.50	2450.50	2418.40	6513.30	831.50	1538.10	1238.10	112.90	39.00	38.20		
23	55.20	89.70	1074.40	3560.00	1935.60	6238.60	924.80	1728.50	1238.10	104.60	47.10	59.30		
24	58.40	88.00	1409.30	4554.30	1585.60	5852.80	1034.10	2159.40	1175.20	104.60	43.00	88.00		
25	60.10	86.40	1184.20	4948.40	1332.60	5829.20	1332.60	1855.90	831.50	96.30	43.00	163.20		
26	63.30	81.40	1065.40	5110.50	1222.40	5970.90	1633.20	1696.70	577.60	96.30	43.00	171.60		
27	63.30	89.70	1083.30	5068.20	1222.40	5947.30	1839.90	1601.50	290.90	104.60	39.00	163.20		
28	61.70	117.90	1083.30	5025.90	1411.50	5994.60	2436.80	1633.20	163.20	104.60	39.00	146.40		
29	63.30	140.10	1206.60	5110.50	1808.10	6183.70	3249.00	1665.00	96.30	112.90		146.40		
30	66.60	184.30	1642.30	5782.00	2191.50	6430.80	3802.00	1855.90	75.60	112.90		129.60		
31		226.80		6792.60	2565.50		4158.90		71.50	112.90		112.90		
Total	1270.10	2910.20	22740.20	78739.80	184657.60	177570.20	122898.90	80099.80	31342.90	2992.80	1919.50	1899.40	709041.40	**Ton**
Mean	42.30	93.90	758.00	2540.00	5956.70	5919.00	3964.50	2670.00	1011.10	96.50	68.60	61.30		
Max	66.60	226.80	1642.30	6792.60	8945.00	7284.30	7603.20	4285.10	1712.60	121.20	121.20	171.60	8945.00	
Min	24.60	60.10	253.40	1206.60	1222.40	2971.30	831.50	1506.40	71.50	39.00	37.40	27.80	24.60	

WATER YEAR : 2014

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	2014
Number of observation	31
R-Square	0.8165
Remarks	Continued Sediment Station

$$QS = 2.8396\ QW^{0.95930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	2.00	2.00	2.60	81.50	16.30	159.00	240.80	47.40	0.00	0.00	0.00		
2	2.20	2.10	2.00	2.30	92.10	25.90	187.30	246.30	37.70	0.00	0.00	0.00		
3	2.10	2.00	2.00	2.50	97.00	44.00	202.80	265.80	35.20	0.00	0.00	0.00		
4	2.10	2.00	2.00	3.00	99.90	58.70	192.80	261.30	21.80	0.00	0.00	0.00		
5	2.10	2.00	2.00	3.20	124.30	69.40	177.30	265.80	21.80	0.00	0.00	0.00		
6	2.00	2.00	2.00	3.50	132.20	74.40	182.80	268.10	22.70	0.00	0.00	0.00		
7	2.00	2.00	2.00	3.80	159.00	87.20	213.70	243.60	23.20	0.00	0.00	0.00		
8	2.00	2.00	2.00	4.20	170.90	92.10	203.70	202.80	23.60	0.00	0.00	0.00		
9	2.00	2.00	2.00	4.60	165.40	111.10	187.30	185.50	24.50	0.00	0.00	0.00		
10	2.00	2.00	2.00	5.30	157.10	111.80	167.20	176.40	25.00	0.00	0.00	0.00		
11	2.00	2.00	2.10	6.00	137.80	107.60	143.30	137.80	25.40	0.00	0.00	0.00		
12	2.00	2.00	2.10	6.40	119.50	79.40	123.60	122.20	25.90	0.00	0.00	0.00		
13	2.00	2.00	2.00	7.50	106.20	95.60	111.10	118.80	25.40	0.00	0.00	0.00		
14	2.00	2.00	2.20	9.20	91.40	104.10	98.50	115.30	25.00	0.00	0.00	0.00		
15	2.00	2.00	2.50	10.20	78.00	116.70	89.30	105.50	24.10	0.00	0.00	0.00		
16	2.10	2.00	2.30	11.70	58.70	139.60	99.90	75.10	24.10	0.00	0.00	0.00		
17	2.10	2.00	2.20	13.30	41.10	180.90	107.60	65.90	23.20	0.00	0.00	0.00		
18	2.10	2.00	2.10	13.90	20.80	210.10	98.50	59.40	22.30	0.00	0.00	0.00		
19	2.20	1.90	2.00	12.90	11.50	222.80	88.60	39.10	21.80	0.00	0.00	0.00		
20	2.10	1.90	2.00	11.90	6.40	230.00	75.80	45.00	21.80	0.00	0.00	0.00		
21	2.10	1.90	2.10	11.90	4.90	225.50	78.00	45.90	22.30	0.00	0.00	0.00		
22	2.10	1.90	2.10	12.50	4.60	233.60	88.60	31.80	21.80	0.00	0.00	0.00		
23	2.10	1.90	2.20	19.80	5.40	230.00	96.30	29.30	21.40	0.00	0.00	0.00		
24	2.10	1.90	2.40	14.90	6.90	229.10	110.40	34.20	21.20	0.00	0.00	0.00		
25	2.10	1.90	2.40	17.20	11.70	238.10	156.20	47.40	21.00	0.00	0.00	0.00		
26	2.00	2.00	2.30	19.80	17.00	221.00	171.80	48.30	21.00	0.00	0.00	0.00		
27	2.00	2.00	2.20	18.60	21.20	196.40	175.40	46.40	20.80	0.00	0.00	0.00		
28	2.00	2.10	2.10	17.80	23.60	184.60	221.90	46.40	20.80	0.00	0.00	0.00		
29	2.00	2.10	2.10	17.80	19.40	166.30	239.00	49.80	20.40	0.00		0.00		
30	2.00	2.00	3.10	25.90	16.50	156.20	230.00	49.30	20.20	0.00		0.00		
31		2.00		53.20	34.70		233.60		0.00	0.00		0.00		
Total	61.80	61.60	64.50	367.40	2116.70	4258.50	4711.30	3669.30	732.80	0.00	0.00	0.00	16043.90	**Ton**
Mean	2.10	2.00	2.20	11.90	68.30	142.00	152.00	122.30	23.60	0.00	0.00	0.00		
Max	2.20	2.10	3.10	53.20	170.90	238.10	239.00	268.10	47.40	0.00	0.00	0.00	268.10	
Min	2.00	1.90	2.00	2.30	4.60	16.30	75.80	29.30	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

MUN RIVER BASIN

Lam Chi at Ban La Loon, Surin (M.26A)

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

Location : on left bank at railway bridge.

Ban La Loon **Amphoe** Mueang **Changwat** Surin

Drainge Area	3,028 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2014
Number of observation	47
R-Square	0.7491
Remarks	Continued Sediment Station

$$QS = 5.2476\ QW^{0.80850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.00	2.00	2.10	3.30	2.30	16.10	120.00	301.90	47.00	2.70	2.20	2.10		
2	2.00	2.00	2.30	3.40	2.40	74.20	110.50	304.80	43.30	2.60	2.10	2.00		
3	2.00	2.00	2.30	3.30	2.30	113.30	114.50	302.80	33.80	2.60	2.10	2.00		
4	2.00	2.00	2.30	3.20	2.30	142.50	95.80	301.90	25.70	2.60	2.10	2.00		
5	2.00	2.00	2.40	3.10	2.30	157.00	78.90	293.10	23.20	2.50	2.10	2.00		
6	2.00	2.00	2.40	3.10	2.50	181.90	67.40	284.90	18.00	2.50	2.10	2.00		
7	2.00	2.00	2.40	3.00	2.70	203.60	92.20	267.40	12.50	2.50	2.10	2.00		
8	2.00	2.00	2.30	3.00	3.00	213.80	90.60	251.50	8.60	2.50	2.10	2.00		
9	2.00	2.00	2.30	3.10	4.80	208.50	93.20	231.30	11.20	2.50	2.10	2.00		
10	2.00	2.00	2.20	3.10	4.60	193.10	93.20	212.90	8.60	2.40	2.10	2.00		
11	2.00	2.00	2.10	3.00	4.20	177.50	92.20	193.10	5.80	2.40	2.10	2.00		
12	2.00	2.00	2.10	2.90	3.70	155.60	92.50	178.60	5.50	2.30	2.10	2.00		
13	2.00	2.00	2.10	2.90	3.90	131.50	84.70	166.40	4.70	2.30	2.10	2.00		
14	2.00	2.00	2.10	3.00	4.00	126.50	77.50	148.70	3.70	2.30	2.10	2.00		
15	2.00	2.00	2.10	3.10	4.10	123.30	75.40	132.20	3.30	2.20	2.10	2.10		
16	2.00	2.00	2.10	3.10	3.80	136.10	67.70	115.80	3.40	2.20	2.10	2.10		
17	2.00	2.00	2.00	3.00	3.60	157.30	58.50	102.40	3.40	2.20	2.20	2.10		
18	2.00	2.20	1.90	2.90	3.00	176.80	47.30	90.60	3.60	2.20	2.20	2.10		
19	2.00	2.10	1.90	2.90	2.90	193.10	39.90	71.30	3.60	2.20	2.20	2.10		
20	2.00	2.00	1.90	2.90	3.00	208.50	50.90	59.10	3.70	2.20	2.20	2.10		
21	2.00	2.00	1.90	2.90	2.80	209.40	71.60	60.40	3.70	2.20	2.20	2.10		
22	2.00	2.00	1.90	2.90	3.00	195.10	92.50	52.80	3.50	2.20	2.20	2.00		
23	2.00	2.00	1.90	2.90	2.90	170.90	119.70	46.10	3.40	2.20	2.20	2.00		
24	2.00	2.10	1.90	2.90	2.90	140.40	146.60	39.90	3.20	2.20	2.20	2.00		
25	2.00	3.10	1.90	2.90	2.70	123.60	173.50	24.20	3.10	2.20	2.20	2.00		
26	2.00	2.80	2.60	2.80	2.80	128.00	206.30	26.70	2.90	2.20	2.20	2.00		
27	2.00	2.60	3.20	2.70	3.40	141.10	228.30	23.20	2.90	2.20	2.10	2.00		
28	2.00	2.40	2.50	2.70	4.30	147.70	252.50	23.20	2.90	2.20	2.10	2.00		
29	2.00	2.30	2.50	2.60	6.00	145.60	275.40	26.00	2.80	2.20		2.00		
30	2.00	2.20	3.10	2.60	18.00	134.70	287.80	39.20	2.80	2.20		2.00		
31		2.20		2.40	10.70		295.70		2.80	2.20		2.00		
Total	60.00	66.00	66.70	91.60	124.90	4626.70	3792.80	4372.40	306.60	72.10	59.90	62.80	13702.50	**Ton**
Mean	2.00	2.10	2.20	3.00	4.00	154.20	122.30	145.70	9.90	2.30	2.10	2.00		
Max	2.00	3.10	3.20	3.40	18.00	213.80	295.70	304.80	47.00	2.70	2.20	2.10	304.80	
Min	2.00	2.00	1.90	2.40	2.30	16.10	39.90	23.20	2.80	2.20	2.10	2.00	1.90	

WATER YEAR : 2014

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	2014
Number of observation	28
R-Square	0.8769
Remarks	Continued Sediment Station

$$QS = 2.5795\ QW^{0.98150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	1.00	0.00	5.10	17.90	104.50	150.00	253.10	19.90	16.90	9.60	15.00		
2	3.10	1.60	0.00	4.60	18.90	151.50	161.30	263.60	19.90	16.90	9.60	15.00		
3	2.60	2.10	0.00	4.10	19.90	187.40	165.70	271.70	17.90	16.90	9.60	15.00		
4	2.60	3.60	0.00	4.10	19.90	210.70	162.80	274.60	16.90	16.90	9.60	15.00		
5	2.60	3.10	0.00	3.60	20.80	225.30	155.20	271.70	23.70	16.90	9.60	14.00		
6	2.60	3.10	0.00	5.10	25.70	242.70	150.00	263.60	41.60	16.90	9.60	14.00		
7	2.60	3.10	0.00	11.00	82.20	257.20	152.40	249.70	39.20	15.00	9.60	13.00		
8	2.60	3.10	0.00	14.00	101.30	268.80	146.30	227.60	36.80	13.00	9.60	13.00		
9	2.60	3.10	0.00	9.10	111.00	280.40	136.00	191.50	39.20	12.00	9.10	12.00		
10	2.60	2.60	0.00	7.60	115.70	290.30	114.30	151.00	53.40	11.00	9.10	12.00		
11	3.10	2.60	0.00	7.10	112.90	297.20	102.40	120.90	39.20	10.10	9.10	11.00		
12	3.60	2.60	0.00	7.10	95.90	300.00	99.90	104.90	30.80	9.60	9.10	11.00		
13	3.60	2.10	0.00	6.60	72.70	293.70	98.10	99.20	26.70	9.60	9.10	10.10		
14	3.60	1.60	0.00	7.10	39.20	282.10	95.20	93.10	24.70	9.60	9.10	10.10		
15	3.60	1.60	0.00	6.60	39.20	264.20	90.50	63.10	22.80	9.60	9.10	10.10		
16	3.60	1.00	0.00	6.60	36.80	245.60	84.50	39.20	20.80	9.60	9.10	9.60		
17	3.60	1.00	0.00	6.60	34.40	236.90	55.00	32.00	19.90	10.10	9.10	9.60		
18	3.60	1.00	0.00	6.60	30.80	235.70	45.00	26.70	19.90	10.10	9.10	9.10		
19	3.60	0.50	0.00	6.10	24.70	239.20	41.60	23.70	19.90	9.60	9.60	9.10		
20	3.60	0.50	0.00	6.60	19.90	245.00	43.30	20.80	18.90	8.60	9.60	9.10		
21	3.60	0.50	0.00	7.60	16.00	249.70	48.30	17.90	18.90	8.60	11.00	9.10		
22	3.60	0.00	2.10	8.60	10.10	250.20	56.70	16.90	18.90	9.10	14.00	9.10		
23	3.10	0.00	2.60	13.00	12.00	245.60	86.40	15.00	17.90	9.10	15.00	8.60		
24	2.60	0.00	2.60	14.00	20.80	234.60	99.90	14.00	18.90	9.10	15.00	8.60		
25	2.60	0.00	3.10	11.00	23.70	217.10	123.30	14.00	18.90	9.60	14.00	8.10		
26	2.10	0.00	3.10	10.10	20.80	191.50	148.60	13.00	18.90	9.60	14.00	7.60		
27	1.60	0.00	3.60	10.10	20.80	164.00	171.00	12.00	18.90	9.60	13.00	7.60		
28	1.60	0.00	4.10	9.60	24.70	143.50	192.00	13.00	17.90	9.60	14.00	7.60		
29	1.00	0.00	5.10	10.10	33.20	133.60	211.90	13.00	16.90	9.60		7.10		
30	1.00	0.00	6.60	11.00	38.00	135.00	228.70	17.90	16.00	9.60		7.10		
31		0.00		14.00	70.30		242.10		14.00	9.60		7.10		
Total	85.80	41.40	32.90	254.40	1330.20	6823.20	3858.40	3188.40	748.20	352.00	297.00	324.40	17336.30	**Ton**
Mean	2.90	1.30	1.10	8.20	42.90	227.40	124.50	106.30	24.10	11.40	10.60	10.50		
Max	3.60	3.60	6.60	14.00	115.70	300.00	242.10	274.60	53.40	16.90	15.00	15.00	300.00	
Min	1.00	0.00	0.00	3.60	10.10	104.50	41.60	12.00	14.00	8.60	9.10	7.10	0.00	

WATER YEAR : 2014

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	2014
Number of observation	43
R-Square	0.9047
Remarks	Continued Sediment Station

$$QS = 1.7842\ QW^{1.49190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.10	5.80	2.90	6.30	14.50	22.70	39.70	30.80	8.70	3.10	2.50	2.60		
2	3.10	4.50	2.90	8.20	14.50	30.80	37.90	27.50	6.70	3.10	2.50	4.50		
3	3.10	4.00	3.30	9.80	12.70	32.50	25.80	24.30	6.30	3.10	2.60	4.50		
4	2.90	3.30	4.00	8.20	9.80	47.30	22.70	19.70	7.20	2.90	2.80	3.70		
5	3.30	3.70	4.00	7.20	8.70	29.10	19.70	25.80	7.70	2.90	3.10	3.10		
6	4.90	3.30	3.70	6.70	8.70	22.70	47.30	30.80	7.20	2.60	3.10	3.30		
7	3.70	5.80	3.70	5.80	22.70	75.00	199.40	34.30	6.70	2.80	3.30	3.70		
8	3.70	17.00	4.00	5.30	147.10	77.30	144.30	49.30	6.30	3.70	2.90	3.30		
9	3.30	119.60	4.00	10.90	109.10	51.30	144.30	36.10	5.30	4.50	2.80	3.70		
10	2.90	15.70	4.50	59.60	59.60	79.60	177.10	21.20	5.30	4.00	2.90	3.70		
11	3.10	5.30	8.70	45.40	39.70	84.30	238.40	17.00	4.50	4.50	2.60	4.50		
12	3.30	19.00	15.10	27.50	24.30	77.30	242.40	15.70	4.50	4.00	1.70	4.50		
13	2.90	12.10	24.30	9.30	25.80	79.60	101.40	13.90	4.50	4.00	1.70	4.50		
14	4.00	11.50	18.40	13.20	66.00	59.60	66.00	13.20	4.50	3.70	1.70	4.00		
15	5.30	6.30	15.10	57.50	57.50	27.50	49.30	12.70	4.00	3.10	1.90	4.00		
16	13.90	3.10	29.10	59.60	81.90	19.70	36.10	12.10	4.00	3.10	2.30	3.70		
17	10.40	2.90	22.70	51.30	59.60	19.00	27.50	10.90	4.00	2.90	3.30	3.70		
18	7.70	2.60	25.80	41.60	37.90	17.70	22.70	10.40	4.00	2.80	2.60	3.30		
19	5.80	2.80	34.30	45.40	30.80	17.00	19.00	9.30	4.00	2.60	2.60	3.30		
20	4.90	2.90	47.30	39.70	22.70	13.90	43.50	8.70	4.00	2.50	2.50	3.30		
21	4.90	3.10	24.30	30.80	18.40	12.10	195.60	8.20	4.00	2.30	2.50	3.30		
22	5.80	3.30	21.20	32.50	19.00	11.50	188.10	7.70	3.70	2.30	2.60	3.70		
23	5.30	3.30	19.00	27.50	16.40	9.80	68.20	7.20	3.30	2.30	2.90	4.50		
24	4.90	3.30	14.50	19.00	14.50	8.70	57.50	7.20	3.30	2.30	2.50	5.80		
25	3.70	3.70	13.20	17.70	15.70	12.70	111.70	7.20	3.30	2.30	2.10	6.30		
26	4.90	3.30	12.10	22.70	32.50	25.80	347.20	7.70	3.30	2.30	2.10	6.30		
27	3.70	2.90	11.50	25.80	53.30	22.70	130.40	7.70	2.90	2.50	2.20	5.30		
28	3.10	3.10	9.30	34.30	36.10	19.70	61.70	7.70	2.90	2.50	2.90	4.00		
29	12.70	3.10	6.70	22.70	55.40	24.30	59.60	8.70	2.90	2.30		2.80		
30	16.40	3.30	5.30	17.70	25.80	29.10	45.40	7.70	3.10	2.30		2.80		
31		3.30		17.70	19.70		43.50		3.10	2.30		2.60		
Total	160.70	286.90	414.90	786.90	1160.40	1060.30	3013.40	500.70	145.20	91.60	71.20	122.30	7814.50	**Ton**
Mean	5.40	9.30	13.80	25.40	37.40	35.30	97.20	16.70	4.70	3.00	2.50	3.90		
Max	16.40	119.60	47.30	59.60	147.10	84.30	347.20	49.30	8.70	4.50	3.30	6.30	347.20	
Min	2.90	2.60	2.90	5.30	8.70	8.70	19.00	7.20	2.90	2.30	1.70	2.60	1.70	

WATER YEAR : 2014

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.
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	2013-2014
Number of observation	41
R-Square	0.7791
Remarks	Continued Sediment Station

$$QS = 18.8880\ QW^{0.78320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.50	209.60	162.40	20.80	44.70	21.10	1019.70	1151.00	273.90	0.00	0.00	0.00		
2	15.40	248.10	175.30	19.80	40.40	24.30	1013.30	1161.00	0.00	0.00	0.00	0.00		
3	14.10	268.20	206.50	21.10	44.70	38.20	1000.50	1167.60	0.00	0.00	0.00	0.00		
4	12.30	271.10	224.60	20.50	48.10	36.00	984.40	1170.90	0.00	0.00	0.00	0.00		
5	11.10	251.00	197.30	20.10	61.30	31.50	965.10	1170.90	0.00	0.00	0.00	0.00		
6	9.40	245.20	200.40	19.30	73.80	33.80	945.60	1167.60	0.00	0.00	0.00	0.00		
7	7.20	251.00	200.40	18.00	61.30	51.50	932.60	1157.70	0.00	0.00	0.00	0.00		
8	5.80	296.20	200.40	16.80	48.10	118.20	913.90	1157.70	0.00	0.00	0.00	0.00		
9	4.00	320.80	184.80	16.50	42.50	227.60	877.30	1154.30	0.00	0.00	0.00	0.00		
10	2.40	323.50	175.30	16.50	48.10	448.10	858.80	1154.30	0.00	0.00	0.00	0.00		
11	2.40	320.80	162.40	16.20	42.50	543.90	846.50	1161.00	0.00	0.00	0.00	0.00		
12	1.80	320.80	162.40	16.20	42.50	604.30	834.10	1170.90	0.00	0.00	0.00	0.00		
13	2.40	320.80	155.90	16.00	38.20	660.30	818.50	1170.90	0.00	0.00	0.00	0.00		
14	2.40	320.80	149.20	16.20	33.80	701.40	774.40	1170.90	0.00	0.00	0.00	0.00		
15	2.90	320.80	139.10	15.40	36.00	758.40	774.40	1170.90	0.00	0.00	0.00	0.00		
16	2.90	320.80	132.30	14.10	36.00	805.90	752.00	1174.20	0.00	0.00	0.00	0.00		
17	2.40	320.80	125.30	13.80	33.80	855.80	729.50	1164.30	0.00	0.00	0.00	0.00		
18	2.40	320.80	118.20	14.10	26.80	904.80	704.10	1147.70	0.00	0.00	0.00	0.00		
19	1.80	364.90	107.40	15.10	21.50	942.30	687.80	1134.40	0.00	0.00	0.00	0.00		
20	1.80	404.40	84.80	16.80	21.40	978.00	696.00	1084.10	0.00	0.00	0.00	0.00		
21	1.80	475.60	61.30	16.50	21.10	1000.50	723.10	1029.70	0.00	0.00	0.00	0.00		
22	1.20	526.30	36.00	16.90	20.80	1016.50	755.20	974.80	0.00	0.00	0.00	0.00		
23	1.20	532.20	21.80	17.50	20.40	1029.70	793.30	929.30	0.00	0.00	0.00	0.00		
24	0.90	499.70	21.50	19.80	19.00	1060.40	849.60	834.10	0.00	0.00	0.00	0.00		
25	0.90	514.50	19.80	20.40	18.30	1063.80	901.70	736.00	0.00	0.00	0.00	0.00		
26	7.50	511.60	19.30	20.80	33.80	1060.40	955.30	581.50	0.00	0.00	0.00	0.00		
27	17.50	508.60	18.70	21.40	51.50	1043.40	1003.70	481.60	0.00	0.00	0.00	0.00		
28	128.80	496.70	18.00	21.80	64.50	1029.70	1046.80	407.60	0.00	0.00	0.00	0.00		
29	191.10	407.60	18.00	29.10	40.40	1022.90	1080.70	347.20	0.00	0.00		0.00		
30	203.50	320.80	19.80	33.80	24.30	1016.50	1107.60	318.10	0.00	0.00		0.00		
31		248.10		42.50	21.10		1111.00		0.00	0.00		0.00		
Total	675.80	11062.10	3518.60	603.80	1180.70	19129.20	27456.50	29802.20	273.90	0.00	0.00	0.00	93702.80	**Ton**
Mean	22.50	356.80	117.30	19.50	38.10	637.60	885.70	993.40	8.80	0.00	0.00	0.00		
Max	203.50	532.20	224.60	42.50	73.80	1063.80	1111.00	1174.20	273.90	0.00	0.00	0.00	1174.20	
Min	0.90	209.60	18.00	13.80	18.30	21.10	687.80	318.10	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	27
R-Square	0.8164
Remarks	Continued Sediment Station

$$QS = 1.0106\ QW^{1.58540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	0.30	0.20	4122.30	13689.70	21.10	19.20	8.70	3.20	2.80	1.30	0.60		
2	0.90	0.40	0.10	1663.40	2381.70	35.30	16.40	6.10	3.20	2.80	1.30	0.60		
3	0.80	0.50	0.10	350.30	921.10	64.50	11.40	5.30	3.20	2.80	1.30	0.60		
4	0.80	0.60	0.10	128.50	317.60	36.50	8.40	5.20	3.20	2.80	1.20	0.60		
5	0.70	0.70	0.10	59.00	665.40	26.20	7.00	5.20	3.20	2.80	1.20	0.60		
6	0.70	0.80	0.10	32.90	1042.00	25.20	6.10	5.00	3.20	2.70	1.10	0.60		
7	0.60	0.90	0.10	21.10	1284.00	36.50	5.60	4.90	3.20	2.60	1.10	0.60		
8	0.60	0.90	0.10	29.50	728.00	55.40	5.30	4.60	3.20	2.50	1.00	0.60		
9	0.60	0.90	0.10	66.30	426.00	32.90	5.20	4.30	3.20	2.30	0.90	0.60		
10	0.50	0.90	0.10	535.10	158.50	20.10	4.70	4.00	3.20	2.10	0.90	0.60		
11	0.50	0.90	0.50	342.00	70.10	21.10	4.60	4.00	3.20	2.00	0.90	0.60		
12	0.50	0.90	1.10	128.50	36.50	21.10	4.60	3.90	3.20	1.90	0.90	0.60		
13	0.40	0.90	1.00	72.00	29.50	16.40	4.30	3.90	3.00	1.90	0.80	0.60		
14	0.40	0.90	1.90	84.00	24.10	16.40	4.00	3.80	3.00	1.80	0.80	0.60		
15	0.40	0.90	4.70	355.20	19.20	16.40	3.80	3.90	3.00	1.80	0.70	0.60		
16	0.40	0.90	6.40	1291.80	16.40	17.30	3.80	3.80	2.90	1.80	0.70	0.60		
17	0.40	0.80	5.30	457.80	21.10	16.40	3.70	3.80	2.90	1.70	0.70	0.50		
18	0.40	0.60	5.20	169.50	21.10	15.50	3.50	3.80	2.90	1.70	0.70	0.50		
19	0.40	0.40	4.50	105.40	13.00	14.60	3.40	3.70	2.90	1.70	0.70	0.50		
20	0.40	0.20	4.00	153.30	10.60	10.60	3.30	3.70	2.90	1.70	0.70	0.40		
21	0.40	0.30	5.00	138.20	9.10	12.20	3.30	3.70	2.90	1.60	0.60	0.40		
22	0.30	0.20	48.60	1291.80	7.40	15.50	3.30	3.50	2.90	1.60	0.60	0.40		
23	0.30	0.20	558.00	2611.10	6.40	25.20	3.50	3.50	2.90	1.60	0.60	0.40		
24	0.30	0.20	1056.50	1436.30	6.10	22.10	3.30	3.50	2.90	1.60	0.60	0.30		
25	0.30	0.20	474.00	379.90	5.60	25.20	3.30	3.40	2.80	1.50	0.60	0.30		
26	0.40	0.20	317.60	116.70	5.60	50.20	13.80	3.40	2.80	1.50	0.60	0.30		
27	0.40	0.30	116.70	153.30	5.80	30.60	18.20	3.30	2.80	1.50	0.60	0.30		
28	0.30	0.40	103.20	278.40	18.20	25.20	14.60	3.30	2.80	1.50	0.60	0.30		
29	0.30	0.30	209.30	333.80	96.60	19.20	15.50	3.30	2.80	1.50		0.30		
30	0.20	0.30	984.40	3015.40	35.30	16.40	15.50	3.20	2.80	1.50		0.20		
31		0.30		20299.20	9.80		15.50		2.80	1.40		0.20		
Total	14.50	17.20	3909.00	40222.00	22081.50	761.30	238.10	125.70	93.10	61.00	23.70	14.90	67562.00	**Ton**
Mean	0.50	0.60	130.30	1297.50	712.30	25.40	7.70	4.20	3.00	2.00	0.80	0.50		
Max	0.90	0.90	1056.50	20299.20	13689.70	64.50	19.20	8.70	3.20	2.80	1.30	0.60	20299.20	
Min	0.20	0.20	0.10	21.10	5.60	10.60	3.30	3.20	2.80	1.40	0.60	0.20	0.10	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2011-2014
Number of observation	134
R-Square	0.7034
Remarks	Continued Sediment Station

$$QS = 17.2660\ QW^{1.30180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	26.00	2.70	4.40	9.90	1367.90	56.90	23.10	10.90	1.90	0.80	0.20		
2	0.50	26.00	1.90	3.30	8.90	400.90	35.00	29.50	8.90	1.90	0.60	0.00		
3	0.50	11.90	1.90	3.30	8.90	101.50	21.90	31.30	9.90	1.60	0.60	0.00		
4	0.50	72.20	2.10	3.30	9.90	62.90	26.00	23.10	10.90	1.30	0.60	0.10		
5	1.30	7.90	2.10	3.00	8.90	42.60	21.90	355.00	17.30	1.30	0.50	0.20		
6	1.10	7.90	1.60	3.00	8.90	637.80	306.00	187.60	11.90	1.30	0.30	0.30		
7	1.10	48.20	1.10	3.00	16.20	754.30	4915.40	45.40	10.90	1.30	0.30	0.30		
8	0.90	21.90	1.30	3.30	40.60	922.90	536.10	36.80	7.90	1.90	0.30	0.10		
9	0.80	229.60	0.80	3.30	51.10	235.80	1383.40	33.10	7.00	3.00	0.50	0.10		
10	0.50	45.40	0.80	3.60	19.50	115.30	556.10	26.00	6.10	3.30	0.50	1.10		
11	0.50	11.90	1.30	3.30	16.20	1430.10	496.50	21.90	3.60	2.40	0.60	2.40		
12	5.20	7.90	1.30	3.30	14.00	732.80	429.10	19.50	3.60	2.10	0.50	1.90		
13	9.90	5.20	1.60	3.00	11.90	586.40	125.90	17.30	3.60	1.10	0.40	0.30		
14	33.10	3.60	2.40	199.40	15.10	312.50	78.50	15.10	3.30	0.80	0.60	0.00		
15	15.10	2.70	11.90	91.50	17.30	286.40	59.90	14.00	3.30	1.10	1.30	0.00		
16	7.00	2.10	16.20	36.80	16.20	373.20	45.40	12.90	3.00	1.10	1.30	2.10		
17	18.40	27.80	16.20	18.40	19.50	125.90	38.70	12.90	2.70	1.10	1.30	1.60		
18	15.10	91.50	11.90	33.10	11.90	91.50	29.50	11.90	2.40	1.10	1.30	2.40		
19	40.60	78.50	7.00	17.30	7.90	69.00	29.50	10.90	2.40	1.10	1.10	1.90		
20	11.90	33.10	3.00	15.10	9.90	56.90	94.80	9.90	2.40	0.90	1.10	1.90		
21	5.20	11.90	2.10	14.00	7.90	69.00	312.50	8.90	2.10	0.90	0.80	0.90		
22	3.30	6.10	1.90	19.50	6.10	29.50	69.00	7.90	2.10	0.90	1.90	0.60		
23	2.10	3.30	2.40	35.00	4.40	26.00	42.60	7.90	2.10	0.90	1.30	0.30		
24	2.10	3.60	5.20	16.20	14.00	31.30	35.00	7.90	2.10	0.90	0.80	0.30		
25	2.10	3.30	4.40	10.90	14.00	104.90	29.50	7.00	2.10	0.90	0.50	0.10		
26	5.20	5.20	4.40	7.90	14.00	62.90	48.20	6.10	2.10	0.80	0.50	2.10		
27	3.00	3.60	4.40	7.90	45.40	59.90	36.80	7.00	2.10	0.80	0.30	0.80		
28	9.90	3.60	3.60	11.90	153.20	36.80	29.50	8.90	2.10	0.80	0.20	0.50		
29	586.40	3.60	3.30	11.90	164.50	176.00	38.70	10.90	1.90	0.80		0.60		
30	91.50	3.60	3.30	9.90	40.60	142.10	31.30	11.90	1.90	0.80		0.60		
31		3.60		10.90	35.00		31.30		1.90	0.80		0.80		
Total	875.30	812.70	124.10	610.70	821.80	9445.00	9990.90	1021.60	154.50	40.90	20.80	24.50	23942.80	**Ton**
Mean	29.20	26.20	4.10	19.70	26.50	314.80	322.30	34.10	5.00	1.30	0.70	0.80		
Max	586.40	229.60	16.20	199.40	164.50	1430.10	4915.40	355.00	17.30	3.30	1.90	2.40	4915.40	
Min	0.50	2.10	0.80	3.00	4.40	26.00	21.90	6.10	1.90	0.80	0.20	0.00	0.00	

WATER YEAR : 2014

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	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2014
Number of observation	21
R-Square	0.7984
Remarks	Continued Sediment Station

$$QS = 5.8580\ QW^{0.79590}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	8.70	9.60	36.60	36.60	227.00	509.00	26.50	0.00	0.00	0.00		
2	0.00	0.00	7.70	10.20	35.40	37.50	221.50	534.90	29.10	0.00	0.00	0.00		
3	0.00	0.00	6.80	13.70	34.90	53.20	216.00	561.70	36.60	0.00	0.00	0.00		
4	0.00	0.00	6.10	13.90	34.30	193.50	207.60	545.00	49.20	0.00	0.00	0.00		
5	0.00	0.00	4.90	12.00	33.70	246.90	207.60	524.30	70.10	0.00	0.00	0.00		
6	0.00	0.00	2.80	12.10	36.60	300.80	196.40	479.10	59.50	0.00	0.00	0.00		
7	0.00	0.00	1.60	12.10	41.80	334.50	183.00	442.80	45.10	0.00	0.00	0.00		
8	0.00	0.00	0.50	11.80	40.90	346.00	171.30	385.60	41.80	0.00	0.00	0.00		
9	0.00	0.00	0.00	11.60	41.80	329.00	164.40	374.40	48.40	0.00	0.00	0.00		
10	0.00	0.00	0.00	12.10	45.10	303.90	131.40	364.20	41.80	0.00	0.00	0.00		
11	0.00	0.00	0.00	12.10	44.30	282.90	108.20	346.00	34.30	0.00	0.00	0.00		
12	0.00	0.00	0.00	11.60	44.30	254.90	112.60	310.00	33.70	0.00	0.00	0.00		
13	0.00	0.00	0.00	11.60	44.30	225.20	112.60	281.10	30.70	0.00	0.00	0.00		
14	0.00	0.00	0.00	12.50	39.20	205.80	115.20	262.00	28.20	0.00	0.00	0.00		
15	0.00	0.00	0.00	13.70	27.60	213.20	119.50	235.20	29.10	0.00	0.00	0.00		
16	0.00	16.80	0.00	15.00	27.30	236.10	130.60	209.50	29.10	0.00	0.00	0.00		
17	0.00	16.80	0.00	16.20	26.60	261.10	95.60	177.20	28.50	0.00	0.00	0.00		
18	0.00	17.00	0.50	17.70	25.30	298.30	80.70	133.90	28.50	0.00	0.00	0.00		
19	0.00	14.20	5.90	18.90	24.40	330.00	46.80	123.80	0.00	0.00	0.00	0.00		
20	0.00	13.10	6.10	19.90	24.50	351.70	45.10	104.60	0.00	0.00	0.00	0.00		
21	0.00	15.90	5.90	21.30	24.70	335.60	57.20	97.40	0.00	0.00	0.00	0.00		
22	0.00	15.90	5.60	22.90	24.50	303.90	90.10	92.90	0.00	0.00	0.00	0.00		
23	0.00	15.90	6.30	24.10	24.40	287.20	116.90	83.60	0.00	0.00	0.00	0.00		
24	0.00	15.90	6.30	25.70	24.50	264.60	230.70	74.00	0.00	0.00	0.00	0.00		
25	0.00	15.90	6.30	27.10	25.00	235.20	280.30	61.00	0.00	0.00	0.00	0.00		
26	0.00	15.90	5.90	28.80	25.20	227.00	328.00	51.60	0.00	0.00	0.00	0.00		
27	0.00	13.10	5.90	30.70	25.20	228.80	376.60	37.50	0.00	0.00	0.00	0.00		
28	0.00	12.10	5.40	42.60	25.20	228.80	419.80	31.90	0.00	0.00	0.00	0.00		
29	0.00	10.40	6.50	43.50	27.10	227.90	453.30	24.10	0.00	0.00		0.00		
30	0.00	10.20	8.10	42.60	33.10	235.20	479.10	23.40	0.00	0.00		0.00		
31		10.20		40.10	33.70		497.40		0.00	0.00		0.00		
Total	0.00	229.30	113.80	617.70	1001.50	7415.30	6222.50	7481.70	690.20	0.00	0.00	0.00	23772.00	**Ton**
Mean	0.00	7.40	3.80	19.90	32.30	247.20	200.70	249.40	22.30	0.00	0.00	0.00		
Max	0.00	17.00	8.70	43.50	45.10	351.70	497.40	561.70	70.10	0.00	0.00	0.00	561.70	
Min	0.00	0.00	0.00	9.60	24.40	36.60	45.10	23.40	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2002-2014
Number of observation	422
R-Square	0.8760
Remarks	Continued Sediment Station

$$QS = 2.7266\ QW^{1.13070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	1.10	0.90	461.90	1529.30	488.80	419.70	215.00	25.80	9.10	2.00	1.50		
2	1.70	1.80	0.80	409.80	1635.40	665.00	433.00	207.40	22.60	8.40	1.80	1.20		
3	1.50	2.00	0.60	264.70	1624.80	806.80	438.00	238.10	16.80	8.40	1.70	1.20		
4	1.40	4.60	0.60	180.60	1522.20	895.90	349.30	252.20	12.30	8.40	1.50	1.10		
5	1.40	12.70	0.40	146.00	1450.40	1032.90	282.00	184.60	12.70	8.00	1.40	1.10		
6	1.20	16.40	0.40	141.10	1393.20	1164.20	250.60	155.80	26.20	7.70	1.40	1.00		
7	1.50	12.00	0.30	185.60	1399.60	1139.30	267.80	139.20	25.40	7.00	1.50	1.10		
8	2.00	9.10	0.30	218.10	1399.60	1032.90	470.80	133.40	25.40	6.30	1.70	1.20		
9	4.00	11.60	0.40	288.30	1367.90	901.70	457.40	119.90	23.40	8.40	1.70	1.20		
10	3.40	13.80	2.30	288.30	1307.90	644.10	398.30	109.50	20.30	7.70	1.80	1.20		
11	3.40	10.20	4.60	202.80	1195.20	429.70	313.80	101.00	19.90	5.60	1.80	1.20		
12	4.00	7.00	5.30	165.70	988.90	365.50	245.90	107.60	19.90	5.60	1.80	1.20		
13	5.00	5.30	5.00	150.90	667.30	385.10	199.80	113.30	19.10	7.00	1.70	1.10		
14	10.90	3.40	7.30	152.90	399.90	426.30	170.70	97.30	18.40	6.00	1.50	1.00		
15	13.10	2.30	8.40	230.40	272.50	448.00	150.90	83.40	18.40	5.60	1.50	1.00		
16	14.20	1.80	9.40	448.00	227.30	547.60	129.50	77.90	18.00	5.30	1.40	1.00		
17	12.30	1.80	10.50	459.70	218.10	602.50	121.80	68.00	17.20	5.00	1.40	1.00		
18	6.60	2.10	8.70	468.60	210.40	595.60	113.30	60.00	16.10	4.60	1.40	0.90		
19	5.00	2.60	7.70	513.50	185.60	470.80	104.80	55.60	16.10	4.00	1.20	0.90		
20	3.40	2.60	11.60	568.10	161.70	360.60	105.70	50.40	14.60	3.00	1.20	1.00		
21	2.60	3.00	36.80	536.20	143.10	285.20	185.60	50.40	13.80	2.70	1.20	1.40		
22	2.30	2.40	59.10	570.40	136.30	239.70	188.70	47.80	13.80	2.60	1.20	1.70		
23	2.00	1.80	93.50	864.10	129.50	285.20	185.60	43.60	13.80	2.60	1.20	1.80		
24	1.80	1.80	244.40	1307.90	121.80	406.50	207.40	38.50	13.40	2.40	1.20	1.80		
25	1.50	1.50	333.10	1466.30	114.20	413.10	280.40	34.40	13.40	2.40	1.20	1.50		
26	1.40	1.50	296.30	1518.70	202.80	431.30	320.20	31.10	13.10	2.30	1.20	1.20		
27	1.20	1.50	277.30	1491.90	660.40	506.80	296.30	27.40	12.30	2.30	2.10	0.90		
28	1.20	1.50	180.60	1399.60	773.00	439.60	299.50	36.00	11.60	2.30	2.00	0.80		
29	1.20	1.20	177.60	1330.00	795.40	342.80	310.60	29.40	9.10	2.10		0.60		
30	1.10	1.20	385.10	1399.60	732.90	349.30	285.20	30.20	8.40	2.10		0.40		
31		1.00		1469.50	575.00		230.40		8.40	2.10		0.30		
Total	113.10	142.60	2169.30	19299.20	23541.60	17102.80	8213.00	2938.40	519.70	157.00	42.70	34.50	74273.90	**Ton**
Mean	3.80	4.60	72.30	622.60	759.40	570.10	264.90	97.90	16.80	5.10	1.50	1.10		
Max	14.20	16.40	385.10	1518.70	1635.40	1164.20	470.80	252.20	26.20	9.10	2.10	1.80	1635.40	
Min	0.80	1.00	0.30	141.10	114.20	239.70	104.80	27.40	8.40	2.10	1.20	0.30	0.30	

WATER YEAR : 2014

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.
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	2001-2014
Number of observation	388
R-Square	0.7585
Remarks	Continued Sediment Station

$$QS = 19.9360\ QW^{1.31660}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.60	155.10	9.50	12.70	11.30	945.50	155.10	63.10	12.70	7.60	6.20	6.20		
2	7.60	73.70	8.60	10.00	10.90	1380.90	63.10	113.60	12.50	7.60	6.20	6.20		
3	7.60	63.10	8.20	9.50	10.90	333.70	31.00	53.00	12.20	7.60	5.60	6.20		
4	7.60	144.40	8.20	9.10	11.50	94.10	19.40	176.90	13.40	7.80	5.60	6.20		
5	11.30	31.00	8.20	8.60	10.90	56.30	19.90	1036.20	15.80	8.20	5.00	6.20		
6	9.50	15.40	8.20	8.60	11.10	674.10	462.90	440.70	14.40	8.20	5.00	6.20		
7	9.30	25.30	7.80	8.60	14.10	1833.00	5559.10	84.70	12.90	8.20	5.00	6.20		
8	8.60	28.20	7.20	8.60	37.00	1380.90	1755.60	59.70	12.20	8.20	5.60	6.20		
9	8.60	28.20	6.60	8.60	103.70	554.40	2479.90	49.70	11.50	8.60	5.60	6.20		
10	8.40	22.60	6.60	8.60	34.00	243.90	1755.60	37.00	10.90	8.60	5.60	6.20		
11	8.20	17.90	6.40	8.60	16.30	1272.90	1603.10	19.90	10.90	9.70	5.60	5.60		
12	8.20	13.40	6.40	8.60	13.90	1344.70	1237.30	18.40	10.60	9.50	5.60	5.60		
13	25.30	11.50	6.60	12.90	12.90	723.40	397.00	17.90	10.40	8.60	5.60	6.20		
14	59.70	12.00	8.40	273.10	13.40	625.50	188.10	15.40	10.40	8.00	5.60	6.20		
15	37.00	10.00	12.00	155.10	13.70	1717.10	103.70	14.90	10.40	7.60	6.00	6.20		
16	49.70	9.30	13.20	28.20	13.20	856.90	73.70	14.40	10.20	7.40	6.40	6.40		
17	37.00	16.30	16.30	17.40	16.80	303.00	46.40	14.40	9.70	7.40	6.80	5.60		
18	16.30	333.70	15.40	18.90	18.40	165.90	43.20	14.10	9.70	7.40	7.00	5.60		
19	14.10	229.60	12.90	18.90	13.90	94.10	43.20	13.70	9.50	7.20	7.00	6.00		
20	31.00	176.90	11.80	17.40	19.40	70.10	188.10	13.20	9.30	7.00	9.10	7.40		
21	14.10	134.00	10.20	13.20	13.70	123.70	827.90	12.50	9.10	7.00	7.40	6.60		
22	12.50	73.70	8.60	14.90	13.20	66.60	229.60	12.00	8.90	7.00	7.40	6.60		
23	11.10	12.20	9.10	53.00	10.90	25.30	84.70	11.80	8.60	6.60	8.60	6.40		
24	10.40	10.90	10.00	15.40	14.40	37.00	56.30	10.90	8.40	6.60	8.60	6.60		
25	10.20	10.40	10.00	12.90	15.40	229.60	49.70	10.90	8.20	6.60	8.20	7.60		
26	11.30	10.60	8.60	11.50	81.00	113.60	70.10	10.90	8.20	6.60	6.60	6.60		
27	11.50	12.50	9.10	11.50	188.10	70.10	66.60	11.30	8.20	6.60	6.40	6.60		
28	14.90	15.40	8.60	12.70	601.60	66.60	49.70	12.20	8.20	6.60	6.40	7.40		
29	440.70	17.90	8.90	13.20	531.20	215.60	43.20	13.20	8.20	6.60		6.60		
30	318.20	12.00	9.30	12.70	134.00	288.00	53.00	13.90	8.20	6.40		7.40		
31		10.60		12.50	46.40		49.70		8.20	6.40		13.70		
Total	1227.50	1737.80	280.90	835.50	2057.20	15906.50	17805.90	2390.50	322.00	233.40	179.70	204.90	43181.80	**Ton**
Mean	40.90	56.10	9.40	27.00	66.40	530.20	574.40	79.70	10.40	7.50	6.40	6.60		
Max	440.70	333.70	16.30	273.10	601.60	1833.00	5559.10	1036.20	15.80	9.70	9.10	13.70	5559.10	
Min	7.60	9.30	6.40	8.60	10.90	25.30	19.40	10.90	8.20	6.40	5.00	5.60	5.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	47
R-Square	0.8202
Remarks	Continued Sediment Station

$$QS = 6.1301\ QW^{0.91510}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	1.00	0.20	64.30	943.20	201.70	632.00	526.40	73.10	45.10	50.60	15.00		
2	1.50	0.70	0.20	98.10	899.20	301.90	697.00	484.70	66.30	45.80	48.60	13.90		
3	3.30	1.30	0.20	105.20	885.40	415.00	750.30	460.30	57.50	46.50	45.10	13.70		
4	5.30	2.80	0.20	87.60	872.60	469.00	768.50	441.10	52.70	48.60	45.10	13.10		
5	5.60	5.80	0.30	81.70	864.70	499.10	712.90	417.30	51.30	52.00	43.00	12.60		
6	7.00	5.80	0.30	79.70	866.30	513.40	637.10	379.60	52.00	52.00	40.90	12.60		
7	8.30	5.60	0.20	105.20	856.70	647.70	585.90	350.80	50.60	51.30	38.70	12.10		
8	8.30	5.60	0.20	143.70	831.10	711.50	603.80	310.10	52.70	51.30	38.00	10.80		
9	6.70	5.30	0.20	122.60	827.90	730.20	585.90	259.40	52.00	45.10	35.90	10.20		
10	3.80	5.30	0.20	105.90	826.30	710.00	545.90	233.10	51.30	45.10	35.20	10.00		
11	2.80	5.00	0.20	92.20	808.70	646.20	487.30	208.80	52.70	49.30	38.70	9.20		
12	0.70	5.00	0.20	81.70	718.70	542.00	403.60	202.70	52.70	46.50	39.50	10.50		
13	0.60	5.00	0.20	83.70	512.10	475.50	347.30	182.30	51.30	45.80	33.00	10.20		
14	0.60	5.00	0.20	92.20	409.30	466.30	308.90	166.90	50.60	49.30	29.70	10.00		
15	0.70	6.70	0.20	92.90	343.80	492.50	272.50	155.30	48.60	47.20	26.70	9.70		
16	0.70	8.90	0.20	96.80	300.70	543.30	243.90	131.90	47.90	46.50	24.30	10.00		
17	0.60	6.70	0.20	105.90	261.80	630.70	229.50	126.00	48.60	48.60	21.80	9.40		
18	0.50	3.30	0.20	110.40	202.70	692.70	223.50	112.30	45.10	47.20	20.80	9.20		
19	0.50	2.50	0.20	113.20	167.80	727.30	216.90	103.90	43.70	46.50	18.50	8.90		
20	0.50	2.50	0.20	125.10	147.80	728.80	215.90	94.20	43.70	45.80	18.00	8.30		
21	0.60	2.30	0.70	161.10	133.60	678.20	223.50	85.70	44.40	43.70	17.80	7.50		
22	0.50	1.80	14.40	206.80	127.70	579.40	281.90	75.70	43.70	40.90	18.00	7.20		
23	0.60	0.70	29.70	1060.30	119.20	514.70	279.60	71.70	43.00	43.00	17.50	7.20		
24	0.60	0.70	19.30	1252.80	103.90	517.30	320.60	71.10	43.00	43.70	20.00	7.00		
25	0.70	0.50	18.80	1359.30	94.20	557.50	418.40	73.10	41.60	45.10	20.00	6.40		
26	2.80	0.40	20.50	1308.20	93.50	612.80	543.30	71.70	41.60	48.60	19.00	5.60		
27	2.30	0.30	21.00	1203.40	110.40	615.40	589.70	71.10	39.50	49.30	17.30	5.00		
28	1.50	0.20	20.30	1132.40	131.90	583.30	643.50	78.40	36.60	50.60	16.50	3.50		
29	1.30	0.20	19.80	1056.20	169.40	548.50	663.70	83.00	34.50	52.00		2.00		
30	1.00	0.20	19.30	993.70	180.30	542.00	647.70	74.40	34.50	51.30		1.50		
31		0.20		989.90	190.50		598.70		38.00	50.00		0.70		
Total	71.20	97.30	188.00	12712.20	14001.40	16893.90	14679.20	6103.00	1484.80	1473.70	838.20	273.00	68815.90	**Ton**
Mean	2.40	3.10	6.30	410.10	451.70	563.10	473.50	203.40	47.90	47.50	29.90	8.80		
Max	8.30	8.90	29.70	1359.30	943.20	730.20	768.50	526.40	73.10	52.00	50.60	15.00	1359.30	
Min	0.50	0.20	0.20	64.30	93.50	201.70	215.90	71.10	34.50	40.90	16.50	0.70	0.20	

WATER YEAR : 2014

MUN RIVER BASIN

Lam Sa Bai at Ban Pa Kor, Ubon Ratchathani (M.179A)

Lat 15 - 30 - 12 N Long 104 - 35 - 41 E

Location : on right bank at the bridge.

Ban Pa Kor **Amphoe** Khueang Nai **Changwat** Ubon Ratchathani

Drainge Area	3,546 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2013-Cont'd
Actual Measurement	2013-Cont'd
Using Rating Curve Water Year	2014
Number of observation	36
R-Square	0.9637
Remarks	Continued Sediment Station

$$QS = 2.8161\ QW^{1.01510}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	110.00	81.10	594.00	1364.60	352.80	328.30	225.40	175.50	168.20	142.70	124.50		
2	0.00	108.80	79.90	579.20	1404.80	401.70	300.10	221.80	175.50	168.20	141.50	124.50		
3	0.00	107.60	79.90	575.50	1419.80	415.60	275.60	218.10	175.50	168.20	140.30	123.30		
4	0.00	106.40	79.90	575.50	1477.50	446.40	251.10	212.00	175.50	167.00	139.10	123.30		
5	79.90	106.40	79.90	594.00	1573.00	453.10	227.90	208.40	176.70	167.00	137.90	122.10		
6	82.30	106.40	79.90	670.30	1677.60	464.20	204.70	204.70	176.70	165.80	136.60	122.10		
7	85.90	105.20	79.90	702.50	1748.30	468.00	184.00	199.80	176.70	165.80	135.40	120.90		
8	90.70	105.20	79.90	741.60	1776.70	471.70	154.80	195.00	176.70	164.50	134.20	120.90		
9	93.10	104.00	58.30	739.50	1782.30	477.20	135.40	190.10	176.70	164.50	133.00	119.70		
10	95.60	104.00	55.90	700.30	1779.50	449.40	186.40	185.20	176.70	163.30	131.80	119.70		
11	98.00	105.20	61.90	683.00	1762.50	426.30	191.30	184.00	175.50	163.30	130.60	118.50		
12	98.00	107.60	61.90	607.00	1739.90	403.20	191.30	184.00	175.50	162.10	130.60	118.50		
13	99.20	110.00	63.10	514.30	1705.90	360.20	188.90	184.00	174.30	160.90	129.40	117.30		
14	100.40	110.00	64.30	492.00	1660.60	346.70	186.40	184.00	174.30	160.90	129.40	117.30		
15	101.60	110.00	65.50	482.80	1573.00	340.50	182.80	185.20	173.10	159.70	128.20	116.10		
16	101.60	108.80	65.50	468.00	1480.00	340.50	182.80	185.20	171.80	159.70	128.20	116.10		
17	102.80	108.80	65.50	482.80	1379.70	346.70	181.60	185.20	170.60	158.50	128.20	113.70		
18	102.80	110.00	65.50	493.90	1224.30	338.10	181.60	184.00	170.60	157.30	128.20	111.20		
19	104.00	108.80	67.90	497.60	1076.80	323.40	181.60	184.00	170.60	156.00	128.20	108.80		
20	104.00	107.60	67.90	508.70	912.10	313.50	181.60	182.80	170.60	154.80	128.20	106.40		
21	105.20	108.80	67.90	542.10	754.70	303.70	181.60	181.60	170.60	153.60	127.00	104.00		
22	105.20	108.80	72.70	558.80	616.30	292.70	179.10	180.40	170.60	151.20	127.00	102.80		
23	106.40	108.80	110.00	592.20	486.50	282.90	177.90	179.10	169.40	150.00	127.00	101.60		
24	106.40	107.60	131.80	616.30	375.60	275.60	176.70	177.90	169.40	148.80	127.00	100.40		
25	107.60	107.60	142.70	698.20	298.80	253.50	175.50	177.90	169.40	147.60	125.70	99.20		
26	107.60	107.60	184.00	737.30	185.20	226.70	174.30	176.70	168.20	146.30	125.70	98.00		
27	107.60	107.60	338.10	812.50	193.70	264.50	173.10	176.70	168.20	146.30	125.70	96.80		
28	108.80	106.40	423.30	924.60	140.30	265.80	184.00	175.50	168.20	145.10	125.70	94.40		
29	108.80	100.40	495.70	1029.30	234.00	269.40	221.80	175.50	168.20	145.10		91.90		
30	108.80	90.70	551.30	1146.80	303.70	317.20	271.90	175.50	168.20	143.90		90.70		
31		82.30		1284.40	323.40		243.80		168.20	143.90		89.50		
Total	2612.30	3287.40	3921.10	20645.00	34431.10	10691.20	6257.90	5679.70	5347.70	4877.50	3672.50	3434.20	104857.60	**Ton**
Mean	87.10	106.00	130.70	666.00	1110.70	356.40	201.90	189.30	172.50	157.30	131.20	110.80		
Max	108.80	110.00	551.30	1284.40	1782.30	477.20	328.30	225.40	176.70	168.20	142.70	124.50	1782.30	
Min	0.00	82.30	55.90	468.00	140.30	226.70	135.40	175.50	168.20	143.90	125.70	89.50	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	37
R-Square	0.9379
Remarks	Continued Sediment Station

$$QS = 21.1270\ QW^{1.53510}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.50	4.60	0.20	0.20	4.60	91.60	0.40	0.20	0.20	0.20	0.10		
2	0.10	0.20	0.40	0.20	0.20	1240.80	31.60	0.40	0.20	0.20	0.20	0.10		
3	0.10	13.00	0.40	0.20	0.20	61.20	28.00	0.40	0.20	0.20	0.20	0.10		
4	0.10	3.00	0.40	0.20	0.20	35.40	8.40	0.20	0.20	0.20	0.20	0.10		
5	0.10	0.50	56.60	0.20	0.20	24.50	0.60	0.20	0.20	0.20	0.20	0.10		
6	0.10	0.40	15.60	0.20	0.20	6.40	18.30	8.40	0.20	0.20	0.20	0.10		
7	0.10	0.40	0.60	0.20	0.20	6.40	212.60	8.40	0.20	0.20	0.20	0.10		
8	0.10	0.40	0.50	0.20	0.20	3.00	70.90	0.60	0.20	0.20	0.20	0.20		
9	0.10	0.40	0.40	0.20	0.20	0.60	6701.10	0.60	0.20	0.20	0.20	0.20		
10	0.10	0.40	0.40	0.20	0.20	126.00	177.40	0.60	0.20	0.20	0.00	0.20		
11	0.10	0.40	0.30	0.20	0.20	428.20	428.20	0.60	0.20	0.20	0.00	0.20		
12	0.10	0.40	0.20	0.20	0.20	91.60	102.60	0.60	0.20	0.20	0.00	0.20		
13	0.10	0.40	0.20	0.20	0.20	28.00	52.10	0.60	0.20	0.20	0.00	0.20		
14	0.10	0.40	0.20	0.20	0.20	18.30	31.60	0.40	0.20	0.20	0.00	0.30		
15	0.10	0.40	0.20	0.40	0.20	8.40	28.00	0.40	0.20	0.20	0.00	0.30		
16	0.10	0.40	0.20	0.30	0.20	3.00	10.60	0.40	0.20	0.20	0.00	0.30		
17	0.10	0.40	0.20	0.30	0.20	0.60	8.40	0.40	0.20	0.20	0.00	0.20		
18	0.10	0.40	0.20	0.20	0.20	0.60	0.60	0.20	0.20	0.20	0.00	0.20		
19	8.40	0.40	0.40	0.20	0.20	0.50	0.60	0.20	0.20	0.20	0.00	0.20		
20	8.40	0.40	0.40	0.20	0.20	0.40	0.50	0.20	0.20	0.20	0.00	0.20		
21	0.60	0.40	0.40	0.20	0.20	0.40	0.50	0.20	0.20	0.20	0.00	0.20		
22	0.00	0.40	0.40	0.20	0.20	0.40	0.40	0.20	0.20	0.20	0.10	0.20		
23	0.40	0.40	0.30	0.20	0.40	0.30	0.40	0.20	0.20	0.20	0.10	0.20		
24	0.40	0.40	0.20	0.20	28.00	0.20	0.40	0.20	0.20	0.20	0.10	0.20		
25	0.40	0.30	0.20	0.20	39.40	0.30	0.40	0.20	0.20	0.20	0.10	0.20		
26	0.40	0.60	0.20	0.20	8.40	309.70	0.40	0.20	0.20	0.20	0.10	0.20		
27	0.40	3.00	0.20	0.20	43.50	605.70	0.40	0.20	0.20	0.20	0.10	0.20		
28	0.20	0.40	0.20	0.20	28.00	52.10	0.40	0.20	0.20	0.20	0.10	0.20		
29	0.20	0.50	0.20	0.20	177.40	18.30	0.40	0.20	0.20	0.20		0.20		
30	0.20	0.40	0.20	0.20	24.50	352.00	0.40	0.20	0.20	0.20		0.20		
31		21.10		0.20	4.60		0.40		0.20	0.20		0.20		
Total	21.80	51.10	84.90	6.60	358.60	3427.90	8008.20	26.20	6.20	6.20	2.50	5.80	12006.00	**Ton**
Mean	0.70	1.60	2.80	0.20	11.60	114.30	258.30	0.90	0.20	0.20	0.10	0.20		
Max	8.40	21.10	56.60	0.40	177.40	1240.80	6701.10	8.40	0.20	0.20	0.20	0.30	6701.10	
Min	0.00	0.20	0.20	0.20	0.20	0.20	0.40	0.20	0.20	0.20	0.00	0.10	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	21
R-Square	0.7222
Remarks	Continued Sediment Station

$$QS = 6.5389\ QW^{0.86270}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	49.30	65.70	54.20	0.00	94.10	148.10	120.90	190.40	46.00	0.00	0.00	0.00		
2	42.70	71.50	54.20	0.00	94.10	170.50	131.40	194.40	46.00	0.00	0.00	0.00		
3	41.00	75.30	50.90	0.00	86.70	196.30	143.90	200.30	44.40	1.60	0.00	0.00		
4	39.30	75.30	50.90	0.00	77.20	219.80	168.40	204.20	44.40	3.00	0.00	0.00		
5	41.00	82.90	52.60	0.00	71.50	237.10	184.50	210.10	39.30	3.00	0.00	0.00		
6	39.30	84.80	60.60	0.00	63.70	256.10	194.40	213.90	35.90	1.60	0.00	0.00		
7	41.00	86.70	60.60	0.00	55.80	269.20	196.30	213.90	35.90	0.00	0.00	0.00		
8	44.40	84.80	55.80	0.00	54.20	276.70	196.30	208.10	35.90	0.00	0.00	0.00		
9	46.00	92.30	50.90	0.00	55.80	284.10	188.40	206.10	30.70	0.00	0.00	0.00		
10	49.30	103.60	44.40	0.00	47.70	293.40	180.50	202.20	32.40	0.00	0.00	0.00		
11	50.90	112.30	41.00	0.00	42.70	304.50	172.50	194.40	32.40	0.00	0.00	0.00		
12	52.60	129.30	35.90	0.00	37.60	308.10	176.50	176.50	30.70	0.00	0.00	0.00		
13	57.40	148.10	30.70	0.00	35.90	313.60	184.50	146.00	28.90	0.00	0.00	0.00		
14	59.00	158.30	30.70	0.00	25.30	306.30	198.30	114.40	25.30	0.00	0.00	0.00		
15	63.70	160.30	28.90	0.00	13.90	291.60	212.00	97.80	23.50	0.00	0.00	0.00		
16	65.70	152.20	27.10	0.00	10.90	254.20	221.70	86.70	27.10	0.00	0.00	0.00		
17	65.70	129.30	21.60	0.00	8.70	213.90	231.30	79.10	23.50	0.00	0.00	0.00		
18	69.60	108.00	28.90	30.70	6.50	186.50	237.10	69.60	17.80	0.00	0.00	0.00		
19	71.50	97.80	37.60	54.20	3.00	164.40	244.70	69.60	17.80	0.00	0.00	0.00		
20	69.60	94.10	34.20	47.70	0.00	148.10	250.40	63.70	19.70	0.00	0.00	0.00		
21	69.60	95.90	34.20	41.00	0.00	139.80	254.20	60.60	15.90	0.00	0.00	0.00		
22	65.70	95.90	27.10	46.00	0.00	143.90	250.40	55.80	15.90	0.00	0.00	0.00		
23	62.10	97.80	13.90	54.20	0.00	150.10	242.80	54.20	13.90	0.00	0.00	0.00		
24	60.60	92.30	8.70	65.70	0.00	143.90	235.20	57.40	10.90	0.00	0.00	0.00		
25	59.00	75.30	5.40	86.70	0.00	129.30	221.70	54.20	8.70	0.00	0.00	0.00		
26	57.40	65.70	0.00	105.80	0.00	120.90	206.10	50.90	8.70	0.00	0.00	0.00		
27	54.20	62.10	0.00	114.40	27.10	112.30	196.30	49.30	7.70	0.00	0.00	0.00		
28	54.20	62.10	0.00	118.70	44.40	110.10	192.40	46.00	5.40	0.00	0.00	0.00		
29	55.80	60.60	0.00	112.30	60.60	103.60	192.40	46.00	0.00	0.00		0.00		
30	60.60	59.00	0.00	103.60	92.30	112.30	192.40	47.70	0.00	0.00		0.00		
31		59.00		95.90	118.70		190.40		0.00	0.00		0.00		
Total	1658.20	2938.30	941.00	1076.90	1228.40	6108.70	6208.30	3663.50	724.70	9.20	0.00	0.00	24557.20	**Ton**
Mean	55.30	94.80	31.40	34.70	39.60	203.60	200.30	122.10	23.40	0.30	0.00	0.00		
Max	71.50	160.30	60.60	118.70	118.70	313.60	254.20	213.90	46.00	3.00	0.00	0.00	313.60	
Min	39.30	59.00	0.00	0.00	0.00	103.60	120.90	46.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2010-2014
Number of observation	95
R-Square	0.7742
Remarks	Continued Sediment Station

$$QS = 4.1193\ QW^{0.92400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	99.80	60.90	21.60	114.20	222.00	275.80	116.80	0.00	0.00	0.00		
2	0.00	0.00	97.20	56.80	22.60	116.80	207.10	287.10	114.20	0.00	0.00	0.00		
3	0.00	0.00	95.90	53.10	22.60	119.40	197.20	291.90	0.00	0.00	0.00	0.00		
4	0.00	0.00	93.20	49.40	23.60	124.60	190.80	306.30	0.00	0.00	0.00	0.00		
5	0.00	0.00	91.90	45.60	23.60	128.50	183.90	311.10	0.00	0.00	0.00	0.00		
6	0.00	0.00	90.60	42.80	24.50	145.20	178.30	314.30	0.00	0.00	0.00	0.00		
7	0.00	0.00	91.90	40.00	26.50	174.10	175.50	311.10	0.00	0.00	0.00	0.00		
8	0.00	0.00	91.90	38.10	26.50	202.20	169.90	309.50	0.00	0.00	0.00	0.00		
9	0.00	0.00	90.60	37.10	26.50	212.10	172.70	304.70	0.00	0.00	0.00	0.00		
10	0.00	0.00	98.50	36.20	19.60	212.10	174.10	304.70	0.00	0.00	0.00	0.00		
11	0.00	0.00	94.50	35.20	16.50	217.00	175.50	283.80	0.00	0.00	0.00	0.00		
12	0.00	0.00	94.50	34.30	16.50	228.60	178.30	269.30	0.00	0.00	0.00	0.00		
13	0.00	0.00	91.90	33.30	15.50	235.10	178.30	246.50	0.00	0.00	0.00	0.00		
14	0.00	0.00	90.60	32.30	14.50	238.40	182.50	233.50	0.00	0.00	0.00	0.00		
15	0.00	0.00	89.20	31.40	13.50	241.70	185.20	217.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	90.60	25.50	8.20	244.90	193.90	213.70	0.00	0.00	0.00	0.00		
17	0.00	0.00	89.20	10.30	4.90	236.70	205.50	200.50	0.00	0.00	0.00	0.00		
18	0.00	11.40	86.60	4.90	0.00	226.90	215.40	192.20	0.00	0.00	0.00	0.00		
19	0.00	125.90	83.90	2.60	0.00	220.30	225.30	178.30	0.00	0.00	0.00	0.00		
20	0.00	125.90	82.60	2.60	0.00	226.90	243.30	171.30	0.00	0.00	0.00	0.00		
21	0.00	123.30	81.20	2.60	0.00	215.40	259.60	164.30	0.00	0.00	0.00	0.00		
22	0.00	122.00	79.90	4.90	0.00	222.00	266.10	157.90	0.00	0.00	0.00	0.00		
23	0.00	120.70	79.90	7.10	2.60	226.90	267.70	145.20	0.00	0.00	0.00	0.00		
24	0.00	119.40	78.50	14.50	16.50	233.50	269.30	138.80	0.00	0.00	0.00	0.00		
25	0.00	118.10	78.50	17.60	18.60	249.80	267.70	132.40	0.00	0.00	0.00	0.00		
26	0.00	116.80	75.90	17.60	22.60	259.60	262.80	125.90	0.00	0.00	0.00	0.00		
27	0.00	112.90	75.90	22.60	30.40	261.20	257.90	123.30	0.00	0.00	0.00	0.00		
28	0.00	110.30	73.20	21.60	40.90	253.10	257.90	122.00	0.00	0.00	0.00	0.00		
29	0.00	109.00	71.80	22.60	48.40	246.50	261.20	119.40	0.00	0.00		0.00		
30	0.00	106.40	65.00	21.60	81.20	240.00	264.40	118.10	0.00	0.00		0.00		
31		103.80		21.60	109.00		269.30		0.00	0.00		0.00		
Total	0.00	1525.90	2594.90	846.70	697.40	6273.70	6758.60	6569.90	231.00	0.00	0.00	0.00	25498.10	**Ton**
Mean	0.00	49.20	86.50	27.30	22.50	209.10	218.00	219.00	7.50	0.00	0.00	0.00		
Max	0.00	125.90	99.80	60.90	109.00	261.20	269.30	314.30	116.80	0.00	0.00	0.00	314.30	
Min	0.00	0.00	65.00	2.60	0.00	114.20	169.90	118.10	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

MUN RIVER BASIN

Lam Ta Khong at Ban Khok Kruad, Nakhon Ratchasima (M.191)

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

Location : on left bank at the bridge on road.

Ban Khok Kruad **Amphoe** Mueang **Changwat** Nakhon Ratchasima

Drainge Area	2,854 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2014
Number of observation	20
R-Square	0.7703
Remarks	Continued Sediment Station

$$QS = 1.0886\ QW^{2.33330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.90	2.70	4.00	0.60	9.80	7.10	4.90	0.50	1.50	0.20	0.00	0.30		
2	10.10	3.30	3.30	1.50	16.30	7.50	5.40	0.70	1.10	0.20	0.00	0.10		
3	12.30	6.50	0.50	2.10	11.00	7.80	4.70	0.50	1.10	0.10	0.10	0.00		
4	9.30	7.50	4.70	4.90	1.60	7.50	4.20	1.30	1.80	0.10	0.10	0.10		
5	6.20	3.70	6.80	7.80	2.40	5.20	4.00	1.20	1.10	0.00	0.00	0.10		
6	4.20	4.00	5.70	7.10	5.40	3.30	3.50	1.90	1.40	0.10	0.10	0.20		
7	4.70	5.40	4.70	6.80	9.30	1.10	1.10	2.00	1.30	0.00	0.00	0.20		
8	6.50	11.80	3.00	6.50	11.80	0.00	1.80	1.30	1.30	0.10	0.00	0.10		
9	7.80	6.50	0.30	6.80	11.30	0.00	3.00	0.90	1.10	0.10	0.10	0.10		
10	4.20	2.80	0.10	5.40	11.30	0.30	4.00	0.90	1.10	0.10	0.40	0.30		
11	0.50	1.30	0.80	5.40	9.30	5.70	7.10	2.40	0.90	0.00	0.20	0.90		
12	0.10	0.50	0.20	5.90	9.30	1.60	6.80	2.80	0.90	0.00	0.10	0.30		
13	0.30	0.70	0.20	8.90	8.60	0.80	6.20	1.90	0.90	0.00	0.20	0.20		
14	0.10	0.30	1.10	11.00	10.60	0.10	6.50	1.00	0.90	0.00	0.40	0.10		
15	0.10	0.10	3.70	10.60	13.30	0.10	4.20	1.10	1.10	0.10	0.30	0.10		
16	0.10	0.10	5.40	6.80	14.10	1.40	3.50	2.70	0.50	0.00	0.20	0.10		
17	0.20	0.30	5.40	3.10	14.70	1.80	6.50	2.00	0.40	0.00	0.30	0.10		
18	1.20	3.10	4.00	1.90	12.70	1.10	5.20	1.40	0.30	0.10	0.20	0.00		
19	1.00	1.90	4.00	3.50	3.90	0.90	3.90	1.80	0.40	0.10	0.30	0.20		
20	0.10	3.10	3.90	7.10	0.70	0.90	3.70	1.40	0.50	0.10	0.10	0.10		
21	0.60	2.80	4.00	12.70	2.80	2.40	3.50	1.50	0.50	0.10	0.20	0.10		
22	1.10	3.00	4.70	17.40	5.90	0.30	3.90	1.30	0.50	0.10	0.40	0.10		
23	2.10	2.50	5.90	16.30	6.50	0.00	5.90	0.90	0.40	0.40	0.80	0.30		
24	1.20	2.50	4.20	19.70	11.00	0.00	4.70	1.20	0.20	0.10	0.20	0.30		
25	1.10	2.10	3.10	19.10	8.60	0.10	4.00	0.70	0.10	0.00	0.10	0.50		
26	1.10	4.90	2.20	17.40	8.90	0.10	3.50	0.90	0.10	0.10	0.10	0.50		
27	1.80	8.60	0.60	20.90	9.80	1.90	3.10	1.10	0.40	0.10	0.10	0.10		
28	3.30	9.30	0.30	20.20	7.10	4.50	2.40	0.90	0.30	0.00	0.10	0.10		
29	1.60	4.70	0.20	17.90	7.10	4.70	1.80	1.10	0.20	0.00		0.20		
30	1.80	4.00	0.10	13.70	8.20	4.50	0.50	1.40	0.20	0.00		0.10		
31		2.80		13.70	7.80		0.40		0.20	0.00		0.10		
Total	93.60	112.80	87.10	302.70	271.10	72.70	123.90	40.70	22.70	2.30	5.10	6.00	1140.70	**Ton**
Mean	3.10	3.60	2.90	9.80	8.70	2.40	4.00	1.40	0.70	0.10	0.20	0.20		
Max	12.30	11.80	6.80	20.90	16.30	7.80	7.10	2.80	1.80	0.40	0.80	0.90	20.90	
Min	0.10	0.10	0.10	0.60	0.70	0.00	0.40	0.50	0.10	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	33
R-Square	0.8256
Remarks	Continued Sediment Station

$$QS = 1.4256\ QW^{1.40700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	64.40	69.90	157.30	36.50	288.40	1560.80	799.70	108.20	186.50	7.70	31.80	43.80		
2	100.60	43.80	132.10	48.70	148.70	1521.50	357.20	100.60	165.90	6.70	43.80	36.50		
3	87.10	124.00	87.10	53.80	186.50	3223.10	248.70	132.10	248.70	7.70	31.80	53.80		
4	31.80	357.20	29.50	20.90	357.20	2435.80	454.90	148.70	132.10	10.90	6.70	5.30		
5	23.00	320.10	20.90	25.10	338.50	1969.70	210.80	116.00	157.30	13.20	6.70	2.20		
6	75.50	157.30	25.10	23.00	415.00	1329.20	357.20	261.80	39.00	9.80	3.00	1.40		
7	87.10	93.10	23.00	27.30	799.70	887.40	223.20	288.40	69.90	5.30	15.70	15.70		
8	140.30	75.50	48.70	48.70	624.40	857.90	165.90	454.90	34.20	4.80	48.70	31.80		
9	59.00	64.40	48.70	108.20	495.80	580.60	140.30	198.60	29.50	81.30	81.30	69.90		
10	12.10	48.70	87.10	261.80	691.80	516.60	132.10	198.60	36.50	275.00	23.00	16.90		
11	15.70	69.90	93.10	288.40	537.70	338.50	132.10	288.40	53.80	93.10	3.40	6.70		
12	48.70	93.10	174.70	275.00	357.20	275.00	132.10	132.10	25.10	64.40	2.50	1.20		
13	132.10	81.30	165.90	320.10	248.70	261.80	116.00	100.60	27.30	39.00	2.50	1.40		
14	93.10	87.10	223.20	799.70	235.90	320.10	288.40	108.20	25.10	20.90	14.40	20.90		
15	48.70	59.00	132.10	516.60	415.00	338.50	140.30	124.00	23.00	14.40	34.20	23.00		
16	87.10	36.50	100.60	223.20	475.20	691.80	124.00	140.30	15.70	8.70	100.60	9.80		
17	198.60	108.20	124.00	165.90	338.50	624.40	93.10	124.00	10.90	6.70	18.90	10.90		
18	43.80	87.10	124.00	165.90	235.90	475.20	81.30	108.20	12.10	8.70	20.90	2.20		
19	39.00	75.50	108.20	140.30	198.60	415.00	81.30	100.60	16.90	10.90	16.90	1.80		
20	140.30	48.70	124.00	210.80	338.50	624.40	75.50	81.30	87.10	12.10	15.70	2.20		
21	132.10	34.20	87.10	198.60	771.10	395.50	64.40	59.00	53.80	18.90	43.80	14.40		
22	59.00	16.90	87.10	140.30	1039.20	261.80	69.90	186.50	34.20	100.60	34.20	23.00		
23	36.50	16.90	108.20	124.00	580.60	165.90	148.70	93.10	27.30	116.00	157.30	27.30		
24	20.90	15.70	75.50	132.10	454.90	157.30	357.20	165.90	14.40	75.50	39.00	12.10		
25	6.70	87.10	64.40	132.10	395.50	223.20	714.70	53.80	13.20	165.90	7.70	1.80		
26	15.70	132.10	59.00	140.30	261.80	669.10	248.70	148.70	10.90	165.90	5.80	0.90		
27	198.60	93.10	39.00	415.00	771.10	475.20	148.70	320.10	9.80	69.90	5.30	1.00		
28	116.00	108.20	39.00	887.40	516.60	691.80	108.20	140.30	6.70	27.30	8.70	6.70		
29	165.90	132.10	39.00	714.70	771.10	376.20	93.10	148.70	13.20	13.20		93.10		
30	43.80	140.30	39.00	415.00	714.70	977.70	210.80	64.40	10.90	13.20		75.50		
31		124.00		320.10	1680.60		174.70		6.70	29.50		18.90		
Total	2323.20	3001.00	2666.60	7379.50	15684.40	23641.00	6693.20	4696.10	1597.70	1497.20	824.30	632.10	70636.30	**Ton**
Mean	77.40	96.80	88.90	238.00	505.90	788.00	215.90	156.50	51.50	48.30	29.40	20.40		
Max	198.60	357.20	223.20	887.40	1680.60	3223.10	799.70	454.90	248.70	275.00	157.30	93.10	3223.10	
Min	6.70	15.70	20.90	20.90	148.70	157.30	64.40	53.80	6.70	4.80	2.50	0.90	0.90	

WATER YEAR : 2014

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.D-49
Period of Available Records	1992-Cont'd
Actual Measurement	1992-Cont'd
Using Rating Curve Water Year	2014
Number of observation	32
R-Square	0.8553
Remarks	Continued Sediment Station

$$QS = 1.6281\ QW^{1.90600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	0.90	1.10	6.40	9.70	412.70	240.60	27.70	1.30	0.10	0.00	0.00		
2	0.90	0.90	1.10	3.40	9.70	1550.00	69.00	27.70	1.10	0.10	0.00	0.00		
3	0.90	0.90	1.30	3.40	12.60	2750.60	40.20	31.60	0.80	0.10	0.00	0.00		
4	0.90	0.90	1.50	3.10	57.70	4024.30	29.60	60.40	0.50	0.10	0.00	0.00		
5	0.90	0.90	1.50	2.50	11.60	1957.40	17.20	44.90	0.50	0.00	0.00	0.00		
6	0.90	44.90	1.50	2.50	24.00	889.20	9.70	52.40	0.50	0.00	0.00	0.00		
7	0.90	44.90	1.50	2.50	225.20	607.30	8.80	75.60	0.40	0.00	0.00	0.00		
8	0.90	44.90	1.50	2.50	3.10	293.10	7.10	66.10	0.40	0.00	0.00	0.00		
9	0.90	17.20	3.10	2.20	3.40	138.00	5.00	49.80	0.40	0.00	0.00	0.00		
10	0.90	1.10	49.80	2.80	5.60	60.40	4.40	11.60	0.30	0.00	0.00	0.00		
11	0.90	1.10	381.00	2.80	42.50	33.70	3.10	42.50	0.20	0.00	0.00	0.00		
12	0.90	1.10	340.60	38.00	69.00	33.70	2.00	14.90	0.20	0.00	0.00	0.00		
13	0.90	1.10	143.60	889.20	35.80	14.90	0.80	0.80	0.20	0.00	0.00	0.00		
14	0.90	1.10	143.60	44.90	21.20	21.20	0.40	2.50	0.10	0.00	0.00	0.00		
15	0.90	1.10	75.60	86.90	75.60	19.80	0.30	3.80	0.10	0.00	0.00	0.00		
16	0.90	1.00	86.90	31.60	72.00	360.50	0.30	2.20	0.10	0.00	0.00	0.00		
17	0.90	1.00	52.40	7.10	52.40	412.70	0.20	0.90	0.10	0.00	0.00	0.00		
18	0.90	1.00	79.30	3.40	16.00	72.00	0.20	14.90	0.10	0.00	0.00	0.00		
19	0.90	1.00	69.00	11.60	31.60	72.00	0.20	16.00	0.10	0.00	0.00	0.00		
20	0.90	1.00	72.00	8.00	132.60	72.00	0.20	13.70	0.10	0.00	0.00	0.00		
21	0.90	1.00	72.00	5.60	1128.10	63.20	0.20	7.10	0.10	0.00	0.00	0.00		
22	0.90	1.10	47.30	5.00	498.50	25.80	0.20	7.10	0.10	0.00	0.00	0.00		
23	0.90	1.10	8.80	6.40	1004.30	10.60	0.30	5.00	0.10	0.00	0.00	0.00		
24	0.90	1.10	8.00	6.40	665.50	25.80	7.10	4.40	0.10	0.00	0.00	0.00		
25	0.90	1.10	7.10	6.40	798.40	38.00	17.20	3.40	0.10	0.00	0.00	0.00		
26	0.90	1.10	6.40	5.00	1004.30	5.60	17.20	2.80	0.10	0.00	0.00	0.00		
27	0.90	1.10	7.10	47.30	423.60	7.10	5.60	2.50	0.10	0.00	0.00	0.00		
28	0.90	1.10	7.10	3915.60	621.40	7.10	0.30	3.10	0.10	0.00	0.00	0.00		
29	0.90	1.30	6.40	537.80	712.30	17.20	0.80	3.80	0.10	0.00		0.00		
30	0.90	1.50	5.00	25.80	412.70	579.10	29.60	3.10	0.00	0.00		0.00		
31		1.50		10.60	511.70		27.70		0.00	0.00		0.00		
Total	27.00	181.00	1683.10	5726.70	8692.10	14575.00	545.50	602.30	8.40	0.40	0.00	0.00	32041.50	**Ton**
Mean	0.90	5.80	56.10	184.70	280.40	485.80	17.60	20.10	0.30	0.00	0.00	0.00		
Max	0.90	44.90	381.00	3915.60	1128.10	4024.30	240.60	75.60	1.30	0.10	0.00	0.00	4024.30	
Min	0.90	0.90	1.10	2.20	3.10	5.60	0.20	0.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2007 - 2014
Number of observation	239
R-Square	0.8708
Remarks	Continued Sediment Station

$$QS = 1.1017\ QW^{1.40320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	1.00	17.60	1.00	42.70	446.20	57.10	40.90	3.30	0.80	6.00	0.10		
2	1.40	2.90	95.20	2.10	35.90	395.00	47.90	37.60	8.00	0.70	4.40	0.10		
3	2.70	27.90	62.80	0.40	34.30	774.70	39.20	35.90	6.90	0.40	2.30	0.10		
4	3.60	23.30	47.90	0.30	37.60	761.50	35.90	31.50	16.70	0.40	1.60	0.30		
5	18.40	37.60	34.30	0.40	35.90	539.90	39.20	39.20	10.80	0.50	1.90	0.40		
6	19.30	57.10	32.70	0.50	24.40	281.10	57.10	51.50	5.60	0.70	1.30	0.40		
7	21.10	39.20	46.10	0.40	46.10	145.10	66.60	62.80	5.60	0.50	1.40	0.30		
8	19.30	35.90	39.20	0.50	47.90	84.30	64.70	84.30	5.60	0.40	2.10	0.20		
9	19.30	31.50	31.50	7.40	46.10	51.50	57.10	73.70	4.00	1.00	0.90	0.20		
10	19.30	17.60	29.10	19.30	44.40	42.70	39.20	62.80	2.90	57.10	0.70	0.10		
11	14.30	25.60	30.30	19.30	35.90	35.90	32.70	44.40	3.30	37.60	0.30	0.10		
12	6.90	23.30	27.90	25.60	37.60	31.50	35.90	32.70	3.60	29.10	0.20	0.10		
13	6.90	22.20	17.60	34.30	40.90	27.90	62.80	31.50	1.90	24.40	0.30	0.20		
14	5.60	19.30	27.90	68.60	87.00	31.50	51.50	29.10	1.10	18.40	0.30	0.10		
15	6.50	17.60	26.70	57.10	164.30	32.70	44.40	27.90	1.00	13.50	0.30	0.10		
16	10.80	9.10	20.20	51.50	92.50	60.80	37.60	23.30	1.40	19.30	0.20	0.20		
17	4.80	6.00	21.10	47.90	79.00	251.10	35.90	24.40	1.60	17.60	0.10	0.30		
18	1.60	2.10	24.40	40.90	71.20	148.90	29.10	22.20	1.30	17.60	0.10	0.40		
19	0.70	9.70	24.40	34.30	57.10	126.60	25.60	19.30	7.40	15.10	0.10	0.40		
20	0.40	30.30	17.60	21.10	73.70	84.30	26.70	16.70	15.90	13.50	0.10	0.40		
21	0.30	29.10	14.30	32.70	108.90	62.80	26.70	16.70	9.10	6.90	0.10	0.50		
22	0.40	25.60	4.00	29.10	105.40	53.30	31.50	19.30	2.30	8.00	0.10	1.40		
23	0.60	20.20	2.30	25.60	66.60	47.90	57.10	19.30	0.70	6.00	0.10	2.30		
24	0.50	17.60	2.50	30.30	57.10	37.60	73.70	20.20	0.70	6.00	0.20	9.10		
25	0.50	16.70	7.40	32.70	35.90	40.90	84.30	19.30	1.00	13.50	0.10	24.40		
26	0.30	10.80	4.80	44.40	37.60	57.10	71.20	16.70	6.00	15.90	0.30	25.60		
27	0.30	2.10	6.90	81.60	57.10	95.20	58.90	15.10	12.00	10.20	0.20	23.30		
28	0.20	0.90	4.40	168.20	87.00	79.00	55.20	10.80	5.60	12.70	0.10	21.10		
29	0.30	0.90	0.40	126.60	220.80	73.70	46.10	6.90	2.10	9.10		19.30		
30	0.40	0.40	1.40	47.90	266.70	60.80	44.40	2.10	1.10	10.20		16.70		
31		0.50		53.30	403.00		39.20		1.00	6.90		15.90		
Total	188.80	564.00	722.90	1105.30	2580.60	4961.50	1474.50	938.10	149.50	374.00	25.80	164.10	13249.10	**Ton**
Mean	6.30	18.20	24.10	35.70	83.20	165.40	47.60	31.30	4.80	12.10	0.90	5.30		
Max	21.10	57.10	95.20	168.20	403.00	774.70	84.30	84.30	16.70	57.10	6.00	25.60	774.70	
Min	0.20	0.40	0.40	0.30	24.40	27.90	25.60	2.10	0.70	0.40	0.10	0.10	0.10	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1954-Cont'd
Actual Measurement	1954-Cont'd
Using Rating Curve Water Year	2001-2014
Number of observation	229
R-Square	0.7820
Remarks	Continued Sediment Station

$$QS = 0.5122\ QW^{1.43700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	143.60	234.30	1388.90	468.40	486.10	1075.10	1135.90	234.30	108.30	215.50	179.50	522.00		
2	137.50	243.80	1292.20	504.00	383.20	1197.70	1902.70	253.50	102.70	234.30	206.30	540.30		
3	137.50	356.00	1075.10	602.40	329.40	1260.40	1500.20	265.70	108.30	197.30	197.30	522.00		
4	125.60	342.60	1228.90	716.00	197.30	1356.40	1166.60	290.70	131.50	197.30	253.50	540.30		
5	156.00	383.20	1135.90	580.40	156.00	2931.20	870.50	303.40	137.50	156.00	290.70	522.00		
6	215.50	504.00	1260.40	504.00	197.30	3242.70	669.90	278.10	137.50	149.70	303.40	504.00		
7	369.50	763.10	1425.70	356.00	206.30	3117.00	558.70	356.00	125.60	149.70	316.30	522.00		
8	316.30	1015.30	1500.20	342.60	206.30	3179.70	558.70	522.00	131.50	170.90	468.40	468.40		
9	265.70	1166.60	1691.30	303.40	356.00	3054.70	468.40	1075.10	162.30	179.50	383.20	486.10		
10	224.80	1292.20	1537.90	253.50	416.70	2280.80	383.20	1260.40	149.70	156.00	234.30	468.40		
11	206.30	1356.40	1537.90	206.30	383.20	1652.60	316.30	1166.60	156.00	206.30	290.70	399.80		
12	143.60	1260.40	1425.70	162.30	316.30	1462.80	278.10	1388.90	170.90	234.30	580.40	451.00		
13	179.50	1166.60	1324.20	102.70	253.50	1292.20	253.50	1197.70	197.30	234.30	602.40	416.70		
14	162.30	1197.70	1105.30	102.70	234.30	1045.00	265.70	898.90	188.30	243.80	602.40	468.40		
15	162.30	1075.10	1045.00	188.30	265.70	898.90	215.50	647.20	188.30	265.70	558.70	399.80		
16	224.80	1015.30	956.60	369.50	253.50	647.20	162.30	486.10	179.50	369.50	468.40	416.70		
17	253.50	985.80	927.60	522.00	234.30	504.00	102.70	369.50	170.90	451.00	433.70	416.70		
18	290.70	1105.30	1324.20	540.30	206.30	416.70	67.90	316.30	156.00	433.70	416.70	399.80		
19	303.40	1228.90	1197.70	399.80	197.30	278.10	58.40	253.50	137.50	316.30	416.70	399.80		
20	329.40	898.90	1197.70	316.30	206.30	224.80	43.50	188.30	137.50	290.70	468.40	369.50		
21	290.70	739.50	1045.00	170.90	206.30	162.30	55.30	149.70	137.50	303.40	468.40	383.20		
22	316.30	669.90	842.40	125.60	243.80	102.70	91.80	131.50	149.70	290.70	468.40	433.70		
23	316.30	647.20	842.40	108.30	329.40	52.30	114.00	125.60	179.50	224.80	540.30	399.80		
24	329.40	647.20	669.90	143.60	316.30	52.30	137.50	125.60	188.30	224.80	504.00	416.70		
25	316.30	716.00	814.50	91.80	265.70	71.20	265.70	131.50	197.30	206.30	486.10	468.40		
26	234.30	814.50	814.50	125.60	290.70	162.30	451.00	119.70	206.30	224.80	451.00	486.10		
27	170.90	1356.40	692.80	206.30	369.50	898.90	842.40	119.70	197.30	188.30	433.70	558.70		
28	179.50	1228.90	692.80	558.70	468.40	1045.00	814.50	131.50	215.50	170.90	468.40	624.70		
29	215.50	1425.70	647.20	1166.60	624.70	692.80	624.70	143.60	188.30	197.30		602.40		
30	197.30	1197.70	580.40	1015.30	814.50	602.40	383.20	131.50	179.50	179.50		580.40		
31		1260.40		739.50	1075.10		265.70		162.30	170.90		558.70		
Total	6914.30	28294.90	33220.30	11993.10	10489.70	34960.20	15024.50	13062.10	4978.60	7233.50	11491.70	14746.50	192409.40	**Ton**
Mean	230.50	912.70	1107.30	386.90	338.40	1165.30	484.70	435.40	160.60	233.30	410.40	475.70		
Max	369.50	1425.70	1691.30	1166.60	1075.10	3242.70	1902.70	1388.90	215.50	451.00	602.40	624.70	3242.70	
Min	125.60	234.30	580.40	91.80	156.00	52.30	43.50	119.70	102.70	149.70	179.50	369.50	43.50	

WATER YEAR : 2014

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	2014
Number of observation	32
R-Square	0.7403
Remarks	Continued Sediment Station

$$QS = 4.3535\ QW^{1.30250}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	9.20	24.40	2.50	42.40	187.20	51.20	22.90	4.90	2.20	1.50	0.40		
2	0.60	3.80	59.30	2.20	23.70	99.90	35.40	11.40	4.40	2.20	1.50	0.40		
3	0.70	9.20	20.00	4.10	45.60	432.60	22.90	13.20	3.50	2.10	1.20	0.40		
4	0.80	4.40	11.40	1.80	46.70	114.60	18.50	15.00	3.50	2.00	0.80	0.40		
5	0.80	8.30	8.70	3.30	52.30	173.70	17.80	66.60	3.80	2.10	0.80	0.20		
6	0.90	41.30	7.10	2.00	65.40	63.00	30.00	51.20	3.50	1.70	0.80	0.40		
7	1.00	12.60	7.50	2.00	182.60	42.40	23.70	101.30	3.00	1.70	0.90	0.40		
8	1.40	4.90	15.00	3.00	70.40	30.00	17.80	75.60	3.50	1.50	0.80	0.40		
9	2.00	4.60	26.00	4.40	45.60	24.40	15.70	52.30	3.80	11.40	0.70	0.40		
10	2.00	4.60	23.70	17.10	131.90	20.70	14.40	39.20	3.30	55.80	0.80	0.40		
11	1.30	4.40	13.80	22.20	58.20	18.50	13.20	15.70	2.70	12.60	1.40	0.40		
12	2.70	3.30	9.80	44.50	48.90	16.40	15.00	14.40	2.50	6.40	0.80	0.40		
13	3.50	4.40	25.20	34.50	21.40	17.10	10.90	13.20	2.10	4.60	0.80	0.40		
14	2.70	4.60	23.70	64.20	69.20	26.70	22.90	12.60	1.80	3.80	0.80	0.40		
15	2.50	4.60	15.00	48.90	66.60	30.90	15.70	12.00	1.70	3.50	0.80	0.40		
16	2.50	4.60	9.80	36.30	173.70	38.20	10.30	11.40	1.80	3.00	0.80	0.40		
17	2.10	7.90	8.70	34.50	74.20	51.20	10.30	11.40	2.20	2.50	0.80	0.40		
18	1.50	7.50	10.90	42.40	42.40	29.10	10.30	10.30	2.20	1.30	0.80	0.70		
19	2.00	6.70	28.30	67.90	32.70	48.90	11.40	10.30	2.70	1.30	0.80	1.30		
20	2.50	5.60	7.10	39.20	41.30	22.20	10.90	9.80	2.50	1.30	0.70	1.50		
21	4.90	4.40	9.20	25.20	65.40	15.70	10.90	9.20	2.20	1.20	0.70	0.40		
22	4.10	4.90	4.10	18.50	46.70	12.60	9.80	7.90	2.50	1.00	0.60	0.40		
23	6.70	4.60	3.50	22.90	91.00	16.40	12.60	7.50	2.70	0.90	0.60	0.40		
24	3.30	3.50	4.40	39.20	40.30	14.40	25.20	6.70	2.70	0.90	0.60	0.40		
25	1.30	2.20	3.30	29.10	31.80	15.00	46.70	6.70	3.80	1.40	4.40	0.50		
26	0.80	2.70	6.40	26.70	39.20	91.00	35.40	6.40	3.50	3.30	2.20	0.50		
27	0.90	3.50	6.70	74.20	114.60	64.20	38.20	5.60	3.80	2.70	0.80	0.50		
28	1.20	3.80	6.40	78.40	77.00	47.80	23.70	5.30	2.70	2.00	0.50	0.40		
29	2.70	6.40	3.00	59.30	101.30	46.70	16.40	5.30	3.00	1.70		0.60		
30	7.10	20.00	2.50	60.60	104.60	107.90	12.60	4.90	2.50	1.80		0.60		
31		17.10		58.20	346.50		44.50		2.70	2.00		0.60		
Total	67.30	229.60	404.90	969.30	2393.60	1919.40	654.30	635.30	91.50	141.90	28.70	15.40	7551.20	**Ton**
Mean	2.20	7.40	13.50	31.30	77.20	64.00	21.10	21.20	3.00	4.60	1.00	0.50		
Max	7.10	41.30	59.30	78.40	346.50	432.60	51.20	101.30	4.90	55.80	4.40	1.50	432.60	
Min	0.60	2.20	2.50	1.80	21.40	12.60	9.80	4.90	1.70	0.90	0.50	0.20	0.20	

WATER YEAR : 2014

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	2014
Number of observation	32
R-Square	0.8709
Remarks	Continued Sediment Station

$$QS = 3.5254\ QW^{1.42090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.60	3.10	4.20	41.50	21.70	89.80	12.80	100.40	8.40	2.20	1.10	1.10		
2	4.60	4.00	4.00	37.50	34.90	85.60	14.60	59.40	4.60	2.20	1.10	1.10		
3	4.60	4.00	3.30	17.40	44.40	1461.90	12.80	29.90	4.40	2.20	1.10	1.10		
4	4.60	4.00	3.30	11.10	29.90	1248.50	12.80	38.80	3.70	2.50	1.10	1.10		
5	4.40	5.50	3.10	6.90	66.50	473.30	11.90	75.60	3.70	3.10	1.10	1.10		
6	4.20	31.10	2.50	7.90	339.30	642.60	11.10	174.50	2.80	3.00	1.10	1.10		
7	4.00	13.70	3.00	7.40	177.50	421.40	10.30	151.10	1.90	3.00	1.10	1.10		
8	3.70	9.40	17.40	26.30	158.50	174.50	9.40	120.40	1.30	3.30	1.10	1.00		
9	3.70	9.40	14.60	141.40	104.80	47.70	8.40	64.70	1.30	27.50	1.10	0.80		
10	3.50	9.40	16.50	171.50	158.50	36.20	7.40	29.90	1.30	41.50	1.10	1.00		
11	3.10	9.40	16.50	186.70	61.20	31.10	6.40	23.90	1.60	31.10	1.20	1.10		
12	2.80	9.40	19.50	134.30	31.10	27.50	6.90	20.60	2.00	8.90	1.70	1.10		
13	2.80	7.90	32.40	180.60	23.90	28.70	16.50	19.50	1.90	6.40	1.70	1.10		
14	2.70	6.40	27.50	582.60	32.40	25.10	14.60	18.40	1.30	4.60	1.70	1.10		
15	1.90	3.30	37.50	215.00	148.70	38.80	12.80	16.50	1.30	4.60	1.60	1.00		
16	1.30	4.40	19.50	59.40	91.90	32.40	11.10	14.60	1.30	4.40	1.30	0.80		
17	1.30	4.60	46.00	26.30	62.90	34.90	10.30	14.60	1.30	4.20	1.30	0.80		
18	1.30	4.60	22.80	21.70	59.40	31.10	9.40	12.80	1.50	3.70	1.30	0.80		
19	1.00	4.00	12.80	59.40	389.10	33.60	9.40	12.80	3.00	2.80	1.10	0.80		
20	0.80	3.10	9.40	33.60	1472.40	29.90	8.40	12.80	1.90	2.80	1.10	0.50		
21	0.50	1.30	9.40	17.40	364.00	29.90	7.40	11.10	2.20	2.20	1.10	0.10		
22	0.40	1.10	8.90	17.40	106.90	28.70	8.40	10.30	3.30	3.10	1.00	0.10		
23	0.30	1.90	4.40	15.50	49.30	25.10	141.40	11.10	3.50	1.30	0.80	0.10		
24	0.40	1.10	3.00	17.40	28.70	23.90	234.90	10.30	3.30	1.20	0.80	0.10		
25	0.40	1.10	2.30	11.10	19.50	21.70	136.70	9.40	2.80	1.20	0.80	0.10		
26	0.40	1.10	1.30	12.80	62.90	18.40	56.00	9.40	2.80	1.20	0.80	0.10		
27	0.40	1.10	1.30	106.90	70.10	18.40	25.10	9.40	2.80	1.20	0.80	0.10		
28	0.40	1.50	1.30	215.00	44.40	18.40	14.60	9.40	2.50	1.20	0.90	0.10		
29	0.40	9.40	2.80	83.60	52.60	22.80	11.90	9.40	2.00	1.10		0.20		
30	0.70	8.40	26.30	56.00	129.60	21.70	125.00	9.40	2.20	1.10		0.20		
31		6.90		38.80	120.40		89.80		2.20	1.10		0.20		
Total	65.20	185.60	376.80	2560.40	4557.40	5223.60	1068.50	1110.40	80.10	179.90	32.00	21.00	15460.90	**Ton**
Mean	2.20	6.00	12.60	82.60	147.00	174.10	34.50	37.00	2.60	5.80	1.10	0.70		
Max	4.60	31.10	46.00	582.60	1472.40	1461.90	234.90	174.50	8.40	41.50	1.70	1.10	1472.40	
Min	0.30	1.10	1.30	6.90	19.50	18.40	6.40	9.40	1.30	1.10	0.80	0.10	0.10	

WATER YEAR : 2014

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	2014
Number of observation	33
R-Square	0.8680
Remarks	Continued Sediment Station

$$QS = 1.4543\ QW^{1.54310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.30	21.60	52.50	43.90	176.30	1665.30	697.10	73.80	33.90	2.90	31.60	12.60		
2	59.30	27.10	73.80	49.20	141.20	1746.30	255.90	59.30	46.50	2.60	20.00	10.10		
3	49.20	255.90	43.90	23.20	273.30	5186.60	161.90	109.00	43.90	5.00	3.90	7.80		
4	9.30	371.00	20.00	27.10	371.00	3341.40	148.00	73.80	38.80	5.70	15.40	3.30		
5	49.20	465.70	14.00	27.10	320.20	2722.10	113.90	141.20	33.90	7.00	2.00	2.90		
6	99.30	119.00	10.10	24.90	392.00	1507.50	206.30	129.30	31.60	7.80	7.80	9.30		
7	104.10	85.40	14.00	23.20	1147.20	1084.40	124.10	255.90	29.30	2.90	59.30	41.30		
8	62.80	55.90	33.90	31.60	761.20	982.60	81.40	148.00	27.10	5.00	36.30	23.20		
9	12.60	46.50	49.20	161.90	697.10	517.30	66.40	89.90	31.60	9.30	27.10	21.60		
10	7.00	62.80	94.60	416.10	745.00	428.30	49.20	109.00	31.60	81.40	4.40	3.90		
11	16.90	134.50	85.40	222.40	589.90	350.40	46.50	183.60	33.90	36.30	2.60	3.30		
12	169.10	134.50	85.40	206.30	371.00	255.90	38.80	77.60	16.90	16.90	2.00	2.90		
13	148.00	141.20	109.00	169.10	238.90	238.90	73.80	59.30	29.30	14.00	6.40	4.40		
14	129.30	109.00	183.60	191.10	183.60	264.60	148.00	55.90	27.10	8.50	49.20	38.80		
15	141.20	49.20	176.30	560.50	453.10	273.30	59.30	52.50	27.10	6.40	36.30	31.60		
16	24.90	104.10	148.00	214.30	404.00	392.00	49.20	62.80	23.20	4.40	29.30	24.90		
17	14.00	104.10	124.10	161.90	282.10	865.10	36.30	77.60	16.90	3.90	5.70	2.60		
18	27.10	33.90	129.30	148.00	183.60	350.40	41.30	94.60	21.60	7.80	8.50	2.00		
19	113.90	46.50	141.20	206.30	134.50	381.50	41.30	89.90	18.40	6.40	7.80	1.20		
20	104.10	43.90	141.20	291.10	381.50	604.90	55.90	70.10	52.50	3.90	10.10	3.90		
21	109.00	29.30	119.00	191.10	1665.30	404.00	134.50	33.90	41.30	7.00	46.50	38.80		
22	55.90	29.30	99.30	129.30	1256.90	310.40	33.90	38.80	11.30	52.50	41.30	33.90		
23	16.90	18.40	99.30	124.10	761.20	77.60	81.40	59.30	7.80	43.90	27.10	20.00		
24	11.30	55.90	89.90	148.00	340.20	89.90	183.60	52.50	7.00	38.80	8.50	1.20		
25	24.90	89.90	59.30	129.30	161.90	183.60	169.10	46.50	7.00	41.30	6.40	0.70		
26	99.30	99.30	41.30	124.10	392.00	416.10	161.90	43.90	8.50	24.90	4.40	0.50		
27	104.10	141.20	52.50	340.20	982.60	371.00	89.90	29.30	7.80	7.00	4.40	2.90		
28	113.90	148.00	52.50	575.10	531.50	453.10	66.40	43.90	6.40	6.40	11.30	36.30		
29	70.10	161.90	52.50	1043.20	665.90	320.20	81.40	36.30	4.40	4.40		24.90		
30	27.10	141.20	49.20	619.90	650.40	777.50	230.60	31.60	3.90	7.80		20.00		
31		119.00		264.60	2224.10		104.10		3.30	41.30		2.60		
Total	2033.10	3445.20	2444.30	6888.10	17878.70	26562.20	3831.40	2429.10	723.80	513.40	515.60	433.40	67698.30	**Ton**
Mean	67.80	111.10	81.50	222.20	576.70	885.40	123.60	81.00	23.30	16.60	18.40	14.00		
Max	169.10	465.70	183.60	1043.20	2224.10	5186.60	697.10	255.90	52.50	81.40	59.30	41.30	5186.60	
Min	7.00	18.40	10.10	23.20	134.50	77.60	33.90	29.30	3.30	2.60	2.00	0.50	0.50	

WATER YEAR : 2014

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.
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	2014
Number of observation	31
R-Square	0.9498
Remarks	Continued Sediment Station

$$QS = 1.4598\ QW^{1.24050}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	87.10	183.80	65.30	452.90	3166.70	824.90	224.80	8.90	1.60	73.30	1.10		
2	0.80	84.30	438.60	44.80	396.30	2529.80	691.60	207.60	3.80	1.60	67.90	1.10		
3	0.60	67.90	499.60	27.90	314.40	3243.90	507.40	179.60	1.60	1.60	60.00	1.10		
4	0.60	87.10	507.40	18.40	277.90	5380.30	460.60	131.30	1.60	1.60	60.00	1.10		
5	0.50	424.40	283.90	19.60	289.90	4010.30	424.40	155.10	1.60	1.60	60.00	1.10		
6	16.20	375.50	334.50	14.00	361.70	3115.30	396.30	314.40	0.90	1.60	55.60	1.10		
7	98.40	314.40	230.60	12.50	368.60	2128.90	403.30	937.60	0.20	1.60	49.10	1.10		
8	187.90	341.30	207.60	7.60	579.30	1469.20	403.30	926.20	0.20	3.00	49.10	1.10		
9	224.80	327.80	375.50	6.90	547.10	1018.20	389.30	802.70	3.00	2.70	44.80	0.90		
10	175.50	314.40	308.20	20.70	507.40	629.40	368.60	647.10	40.60	15.10	37.20	0.90		
11	92.70	277.90	265.90	183.80	483.90	647.10	321.10	445.70	37.20	620.60	37.20	4.50		
12	76.00	224.80	236.40	230.60	476.10	571.20	271.90	348.10	34.50	483.90	29.20	4.90		
13	60.00	207.60	236.40	277.90	460.60	460.60	242.30	196.30	31.80	403.30	19.60	4.90		
14	46.90	175.50	302.10	389.30	389.30	368.60	224.80	171.40	31.80	213.30	11.80	4.90		
15	127.40	175.50	341.30	438.60	424.40	271.90	213.30	171.40	33.20	219.10	2.50	4.50		
16	230.60	171.40	289.90	579.30	515.30	424.40	202.00	155.10	31.80	196.30	8.90	4.10		
17	236.40	151.10	289.90	445.70	523.30	1079.80	187.90	167.30	29.20	167.30	1.60	4.10		
18	151.10	131.30	438.60	308.20	476.10	949.10	175.50	175.50	24.20	163.20	1.60	4.10		
19	81.50	167.30	396.30	523.30	452.90	745.80	171.40	167.30	13.30	155.10	1.60	4.50		
20	53.40	179.60	314.40	341.30	452.90	791.60	171.40	155.10	10.40	147.10	1.40	4.90		
21	37.20	213.30	224.80	410.30	476.10	587.40	187.90	131.30	10.40	135.20	1.10	4.10		
22	31.80	192.10	213.30	403.30	700.60	579.30	196.30	123.60	10.40	135.20	1.10	3.00		
23	38.60	175.50	202.00	334.50	629.40	410.30	159.10	115.90	9.60	131.30	1.10	3.00		
24	92.70	163.20	175.50	283.90	523.30	389.30	611.80	110.00	8.90	119.70	1.10	4.10		
25	46.90	155.10	159.10	302.10	483.90	354.90	1512.90	104.20	8.90	101.30	1.40	7.60		
26	53.40	147.10	127.40	348.10	438.60	718.60	926.20	112.90	8.30	101.30	1.10	0.40		
27	27.90	115.90	73.30	354.90	431.50	1167.10	603.70	78.80	6.90	101.30	1.10	3.40		
28	19.60	104.20	92.70	531.20	736.70	813.80	431.50	31.80	6.90	95.60	1.10	2.20		
29	19.60	127.40	87.10	603.70	1092.20	824.90	321.10	26.70	6.10	87.10		8.90		
30	29.20	167.30	73.30	638.20	1572.20	1129.50	296.00	18.40	4.10	87.10		30.50		
31		213.30		523.30	1982.70		265.90		1.60	81.50		49.10		
Total	2259.30	6060.60	7909.40	8689.20	17817.50	39977.20	12563.70	7533.20	421.90	3977.80	681.50	172.30	108063.60	**Ton**
Mean	75.30	195.50	263.60	280.30	574.80	1332.60	405.30	251.10	13.60	128.30	24.30	5.60		
Max	236.40	424.40	507.40	638.20	1982.70	5380.30	1512.90	937.60	40.60	620.60	73.30	49.10	5380.30	
Min	0.50	67.90	73.30	6.90	277.90	271.90	159.10	18.40	0.20	1.60	1.10	0.40	0.20	

WATER YEAR : 2014

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	2014
Number of observation	32
R-Square	0.8348
Remarks	Continued Sediment Station

$$QS = 0.5177\ QW^{1.98060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	130.80	30.60	77.30	30.60	150.00	2124.20	354.00	77.30	32.70	11.60	49.50	72.90		
2	143.40	68.70	96.30	28.50	124.70	1106.50	248.90	77.30	34.90	11.60	34.90	44.40		
3	44.40	450.70	34.90	20.30	248.90	6643.10	196.40	77.30	34.90	13.70	8.90	4.10		
4	20.30	1079.30	23.30	21.80	222.00	3746.20	164.80	124.70	30.60	13.70	8.90	3.20		
5	204.60	3474.00	17.50	23.30	180.20	2465.30	150.00	118.70	28.50	12.50	7.30	3.20		
6	196.40	1169.00	17.50	20.30	526.80	1579.50	157.20	277.60	28.50	11.60	11.60	60.70		
7	150.00	112.90	60.70	34.90	1169.00	1137.70	124.70	287.30	26.50	10.60	72.90	118.70		
8	81.70	81.70	28.50	465.40	465.40	1616.80	112.90	180.20	23.30	12.50	46.90	68.70		
9	14.90	118.70	56.80	49.50	407.90	646.70	101.70	143.40	21.80	56.80	26.50	49.50		
10	9.70	60.70	64.60	188.10	526.80	542.70	91.00	112.90	21.80	91.00	5.20	16.20		
11	46.90	130.80	46.90	86.30	318.10	407.90	86.30	91.00	23.30	44.40	3.60	5.80		
12	287.30	72.90	46.90	91.00	188.10	318.10	77.30	81.70	23.30	30.60	4.10	23.30		
13	258.10	81.70	39.50	180.20	150.00	328.50	112.90	72.90	23.30	26.50	12.50	49.50		
14	204.60	86.30	34.90	258.10	164.80	318.10	230.70	68.70	21.80	23.30	77.30	101.70		
15	112.90	17.50	49.50	188.10	328.50	341.20	118.70	56.80	21.80	17.50	44.40	68.70		
16	11.60	20.30	28.50	101.70	213.20	542.70	96.30	49.50	20.30	12.50	37.10	32.70		
17	10.60	91.00	32.70	101.70	157.20	689.40	81.70	49.50	18.90	11.60	23.30	5.20		
18	20.30	91.00	44.40	96.30	143.40	341.20	77.30	46.90	28.50	10.60	17.50	21.80		
19	222.00	86.30	56.80	118.70	150.00	258.10	72.90	46.90	130.80	10.60	17.50	14.90		
20	150.00	56.80	53.10	407.90	465.40	222.00	60.70	46.90	53.10	10.60	24.90	17.50		
21	130.80	39.50	44.40	118.70	2414.70	188.10	53.10	46.90	64.60	28.50	68.70	112.90		
22	107.20	41.90	37.10	86.30	923.00	164.80	77.30	44.40	16.20	118.70	41.90	72.90		
23	8.90	46.90	26.50	86.30	407.90	157.20	297.30	41.90	13.70	91.00	28.50	28.50		
24	9.70	101.70	21.80	101.70	277.60	137.00	948.20	41.90	14.90	49.50	17.50	4.10		
25	23.30	96.30	17.50	72.90	213.20	180.20	558.90	41.90	14.90	49.50	14.90	12.50		
26	248.90	96.30	16.20	96.30	542.70	1200.60	204.60	39.50	12.50	32.70	17.50	17.50		
27	164.80	118.70	17.50	526.80	495.70	450.70	130.80	32.70	11.60	9.70	46.90	28.50		
28	118.70	101.70	17.50	1079.30	287.30	465.40	112.90	32.70	10.60	8.90	72.90	124.70		
29	96.30	124.70	17.50	526.80	307.60	328.50	118.70	34.90	10.60	8.10		91.00		
30	21.80	91.00	17.50	287.30	625.90	591.90	124.70	34.90	10.60	14.90		49.50		
31		86.30		204.60	2267.10		101.70		10.60	77.30		5.80		
Total	3250.90	8325.90	1144.10	5699.70	15063.10	29240.30	5444.60	2479.20	839.40	932.60	843.60	1330.60	74594.00	**Ton**
Mean	108.40	268.60	38.10	183.90	485.90	974.70	175.60	82.60	27.10	30.10	30.10	42.90		
Max	287.30	3474.00	96.30	1079.30	2414.70	6643.10	948.20	287.30	130.80	118.70	77.30	124.70	6643.10	
Min	8.90	17.50	16.20	20.30	124.70	137.00	53.10	32.70	10.60	8.10	3.60	3.20	3.20	

WATER YEAR : 2014

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.
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	2014
Number of observation	31
R-Square	0.9530
Remarks	Continued Sediment Station

$$QS = 6.6050\ QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.50	80.70	2.40	1.60	162.10	61.60	36.90	15.20	4.80	4.10	0.60		
2	0.50	0.40	46.30	1.90	1.80	138.70	52.70	38.60	15.20	4.50	3.40	0.50		
3	0.50	0.50	38.60	1.60	1.60	196.00	47.10	37.70	14.60	4.50	2.80	0.50		
4	0.40	0.50	29.40	1.30	1.60	483.30	44.60	34.40	14.00	4.10	2.40	0.50		
5	0.40	0.50	20.40	1.40	1.60	284.00	42.00	58.60	14.00	4.50	2.30	0.50		
6	0.40	0.50	19.60	1.30	1.80	297.60	36.10	680.10	14.00	4.50	2.10	0.50		
7	0.40	0.50	15.80	1.30	1.80	89.40	32.70	712.90	14.00	4.10	2.30	0.50		
8	0.40	0.50	14.60	1.10	1.80	73.50	31.00	444.00	12.10	4.80	2.10	0.50		
9	0.40	3.40	14.60	1.30	1.60	55.60	28.60	311.40	12.10	5.50	1.90	0.50		
10	0.40	11.50	13.40	1.30	1.90	48.00	23.70	172.20	10.90	10.30	1.90	0.50		
11	0.50	9.00	13.40	1.30	9.00	42.80	21.20	117.00	9.90	10.90	1.80	0.50		
12	0.50	6.30	11.50	0.90	4.10	35.20	19.60	91.60	9.00	42.00	1.80	0.50		
13	0.50	3.80	9.40	0.70	4.80	23.70	20.40	78.90	8.50	25.30	1.90	0.50		
14	0.50	3.10	7.20	0.60	1.60	25.30	19.60	71.70	8.10	15.80	1.60	0.60		
15	0.50	2.10	9.40	0.70	5.20	33.50	18.80	61.60	7.20	15.20	1.80	0.60		
16	0.50	1.40	68.20	0.80	4.10	37.70	16.50	51.20	6.30	13.40	1.60	0.50		
17	0.50	1.30	36.10	0.60	5.90	68.20	15.80	36.90	5.50	12.10	1.60	0.60		
18	0.50	1.30	25.30	0.70	22.80	60.10	13.40	32.70	5.50	12.10	1.60	0.50		
19	0.50	10.30	27.70	0.70	15.20	43.70	9.90	33.50	5.20	10.90	1.40	0.50		
20	0.50	172.20	23.70	0.80	8.50	40.30	10.30	31.90	5.90	11.50	1.40	0.50		
21	0.50	47.10	14.60	0.80	57.10	33.50	10.30	30.20	5.20	10.90	1.10	0.60		
22	0.50	37.70	7.60	0.80	78.90	24.50	9.90	27.70	4.80	9.90	0.80	0.60		
23	0.50	18.80	7.60	0.80	148.70	42.00	42.80	25.30	4.50	8.10	0.80	0.60		
24	0.50	6.30	6.30	0.70	58.60	31.90	1206.60	23.70	4.10	7.20	0.80	0.60		
25	0.50	5.90	5.90	0.80	28.60	68.20	306.80	22.80	3.80	7.60	0.80	0.60		
26	0.50	5.20	5.90	1.10	107.70	288.50	119.40	20.40	3.40	6.30	0.80	0.60		
27	0.50	3.80	4.80	1.30	117.00	132.10	71.70	18.80	3.10	5.90	0.70	0.60		
28	0.40	3.40	4.10	1.60	343.60	87.10	58.60	18.00	4.10	6.30	0.60	0.60		
29	0.50	3.40	4.10	1.80	627.90	100.80	45.40	16.50	4.80	5.50		0.60		
30	0.50	7.60	3.10	1.80	266.70	100.80	38.60	15.80	4.80	4.80		0.60		
31		110.10		1.60	142.00		36.10		4.80	4.50		0.60		
Total	14.10	478.90	589.30	35.80	2075.10	3148.10	2511.80	3353.00	254.60	297.80	48.20	17.00	12823.70	**Ton**
Mean	0.50	15.40	19.60	1.20	66.90	104.90	81.00	111.80	8.20	9.60	1.70	0.50		
Max	0.50	172.20	80.70	2.40	627.90	483.30	1206.60	712.90	15.20	42.00	4.10	0.60	1206.60	
Min	0.40	0.40	3.10	0.60	1.60	23.70	9.90	15.80	3.10	4.10	0.60	0.50	0.40	

WATER YEAR : 2014

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	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2014
Number of observation	28
R-Square	0.7246
Remarks	Continued Sediment Station

$$QS = 1.4773\ QW^{1.42020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.10	6.70	0.10	26.30	68.40	3.70	3.10	1.30	0.30	0.80	0.00		
2	0.10	0.10	13.20	0.10	5.70	68.40	3.70	2.90	1.30	0.30	0.70	0.00		
3	0.10	0.10	2.60	0.10	4.00	526.60	3.10	2.40	1.30	0.30	0.50	0.00		
4	0.10	0.10	0.70	0.10	4.20	332.90	3.10	2.90	1.10	0.30	0.40	0.00		
5	0.10	0.70	0.10	0.10	4.80	218.60	3.40	3.70	1.10	0.30	0.40	0.00		
6	0.10	120.70	0.10	0.10	10.20	77.00	26.30	4.80	0.80	0.30	0.40	0.00		
7	0.10	70.10	1.50	0.10	15.30	48.30	7.50	25.30	0.50	0.30	0.40	0.00		
8	0.10	4.20	0.50	0.10	65.00	35.30	4.00	11.30	0.30	0.30	0.30	0.00		
9	0.10	2.10	0.30	0.10	80.50	26.30	4.00	8.10	0.30	0.50	0.40	0.00		
10	0.10	1.10	0.80	5.40	21.50	16.70	3.70	7.00	0.30	11.30	0.40	0.00		
11	0.10	0.70	2.90	2.40	8.60	13.20	2.90	6.40	0.30	5.70	0.40	0.00		
12	0.10	0.50	0.80	19.70	5.10	10.80	2.90	5.10	0.30	4.00	0.00	0.00		
13	0.10	0.40	0.10	4.50	4.00	8.10	3.40	4.20	0.30	3.10	0.00	0.00		
14	0.10	0.20	0.10	4.20	3.70	6.10	3.10	3.70	0.30	2.60	0.00	0.00		
15	0.10	0.10	0.10	4.20	4.50	5.10	3.10	3.10	0.30	2.10	0.00	0.00		
16	0.10	0.10	1.90	40.40	4.80	5.70	2.40	3.40	0.30	2.10	0.00	0.00		
17	0.10	0.10	1.30	13.20	4.00	17.50	2.10	3.10	0.30	2.10	0.00	0.00		
18	0.10	0.10	0.50	4.00	3.70	8.10	2.10	3.10	0.30	1.90	0.00	0.00		
19	0.10	0.70	0.20	2.60	3.40	6.10	2.10	3.10	0.30	1.10	0.00	0.00		
20	0.10	0.10	0.10	2.10	1.90	4.20	2.10	3.10	0.30	1.70	0.00	0.00		
21	0.10	0.10	0.20	1.90	32.90	4.00	2.10	2.90	0.30	1.50	0.00	0.00		
22	0.10	0.10	0.20	1.70	12.50	4.00	2.60	2.60	0.30	1.30	0.00	0.00		
23	0.10	0.10	0.10	2.10	20.60	4.00	4.20	2.60	0.30	1.70	0.00	0.00		
24	0.10	0.10	0.10	2.10	4.00	4.00	5.40	2.40	0.30	1.30	0.00	0.00		
25	0.10	0.10	0.10	2.60	4.00	4.50	5.40	2.10	0.30	1.10	0.00	0.00		
26	0.10	0.10	0.10	2.60	18.20	15.30	4.20	1.90	0.30	1.00	0.00	0.00		
27	0.10	0.10	0.10	3.40	7.00	12.50	3.70	1.70	0.30	1.00	0.00	0.00		
28	0.10	0.10	0.10	19.70	11.30	6.10	3.40	1.70	0.30	0.80	0.00	0.00		
29	0.10	0.10	0.10	7.50	55.20	4.50	3.10	1.50	0.30	0.80		0.00		
30	0.10	0.10	0.10	4.00	25.30	4.20	3.10	1.10	0.30	1.00		0.00		
31		5.10		3.70	127.70		3.40		0.30	0.80		0.00		
Total	3.00	208.40	35.70	154.90	599.90	1566.50	129.30	130.30	14.60	52.90	5.10	0.00	2900.60	**Ton**
Mean	0.10	6.70	1.20	5.00	19.40	52.20	4.20	4.30	0.50	1.70	0.20	0.00		
Max	0.10	120.70	13.20	40.40	127.70	526.60	26.30	25.30	1.30	11.30	0.80	0.00	526.60	
Min	0.10	0.10	0.10	0.10	1.90	4.00	2.10	1.10	0.30	0.30	0.00	0.00	0.00	

WATER YEAR : 2014

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 - 2014
Number of observation	108
R-Square	0.9597
Remarks	Continued Sediment Station

$$QS = 12.1190\ QW^{1.09850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	1.00	308.60	0.00	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	318.80	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	174.40	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	151.20	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	193.90	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	255.00	0.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	228.50	0.00	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	193.90	0.00	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	102.40	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	171.70	0.00	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	132.50	0.00	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	182.70	0.00	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	188.50	0.00	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	141.40	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	104.50	0.00	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	113.00	0.00	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	113.00	0.00	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	68.50	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	30.80	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	10.10	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	16.70	92.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	55.60	134.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	77.60	193.90	0.00	0.00	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	40.50	113.00	0.00	0.00	0.00	0.00	0.00		0.00		
31		0.00		19.20	43.50		0.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	209.60	578.80	3185.10	0.00	0.00	0.00	0.00	0.00	0.00	3973.50	**Ton**
Mean	0.00	0.00	0.00	6.80	18.70	106.20	0.00	0.00	0.00	0.00	0.00	0.00		
Max	0.00	0.00	0.00	77.60	193.90	318.80	0.00	0.00	0.00	0.00	0.00	0.00	318.80	
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	

WATER YEAR : 2014

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.
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	2006 - 2014
Number of observation	264
R-Square	0.7238
Remarks	Continued Sediment Station

$$QS = 1.8599\ QW^{1.48440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.40	0.80	0.20	0.90	3.70	2.40	2.70	0.90	0.70	0.50	0.30		
2	0.20	0.30	1.00	0.20	0.90	12.90	2.10	2.40	0.90	0.70	0.50	0.10		
3	0.20	0.40	0.70	0.20	0.90	34.60	1.90	2.40	0.90	0.60	0.50	0.10		
4	0.20	0.40	0.30	0.10	1.00	11.10	1.90	3.10	0.80	0.60	0.50	0.10		
5	0.20	0.40	0.50	0.20	4.10	15.60	1.90	4.10	0.80	0.60	0.50	0.10		
6	0.20	0.40	0.60	0.20	6.10	7.70	1.90	3.40	0.60	0.60	0.50	0.10		
7	0.20	0.50	0.60	0.20	3.40	7.70	1.60	4.10	0.80	0.60	0.50	0.10		
8	0.40	0.60	0.60	0.80	2.40	7.20	1.60	4.10	0.80	0.60	0.50	0.10		
9	0.40	0.60	0.60	2.40	1.90	6.10	2.10	4.10	0.80	0.60	0.50	0.00		
10	0.40	0.60	0.40	1.10	1.90	4.10	2.10	3.70	0.70	0.60	0.50	0.00		
11	0.40	0.60	0.40	1.00	1.90	3.40	1.90	3.40	0.70	0.60	0.50	0.10		
12	0.40	0.60	0.40	0.70	2.40	3.40	1.60	3.40	0.70	0.60	0.30	0.20		
13	0.40	0.80	0.40	1.30	3.70	3.40	1.60	3.10	0.70	0.90	0.30	0.20		
14	0.40	0.80	0.60	2.10	11.10	3.40	1.60	3.10	0.70	1.00	0.30	0.20		
15	0.40	1.00	0.90	1.60	6.10	3.70	1.60	2.70	0.80	0.90	0.30	0.20		
16	0.40	0.60	1.00	0.80	3.40	6.60	1.10	2.40	0.70	0.80	0.30	0.20		
17	0.40	0.60	0.80	0.90	2.10	3.10	1.10	2.40	0.90	0.80	0.20	0.20		
18	0.40	0.60	0.90	0.90	1.60	2.40	1.10	2.40	0.90	0.70	0.20	0.20		
19	0.40	0.60	1.10	0.80	6.60	2.70	1.10	2.40	0.90	0.70	0.20	0.20		
20	0.40	0.60	1.10	0.60	60.10	2.40	1.00	2.40	0.90	0.60	0.20	0.20		
21	0.40	0.60	1.10	0.60	8.30	2.40	1.00	1.90	0.80	0.60	0.20	0.20		
22	0.20	0.60	1.00	0.60	5.60	2.40	1.00	2.40	0.70	0.60	0.20	0.20		
23	0.40	0.60	0.60	0.60	4.60	2.40	1.10	2.10	0.60	0.60	0.20	0.20		
24	0.40	0.60	0.60	0.50	3.40	2.40	6.10	2.10	0.70	0.60	0.20	0.20		
25	0.40	0.60	0.50	0.60	1.30	2.10	5.10	1.90	0.70	0.60	0.20	0.20		
26	0.40	0.60	0.60	0.60	1.10	1.60	4.10	1.00	0.70	0.60	0.20	0.50		
27	0.40	0.60	0.60	0.80	1.60	1.10	4.10	1.00	0.70	0.50	0.20	0.60		
28	0.40	0.60	0.60	2.40	5.60	1.10	3.70	1.00	0.70	0.50	0.30	0.60		
29	0.40	0.60	0.60	1.60	3.40	1.60	2.70	1.00	0.70	0.50		0.50		
30	0.40	0.60	0.60	1.30	2.70	2.40	2.70	0.90	0.70	0.50		0.20		
31		0.60		1.10	2.70		2.70		0.70	0.50		0.20		
Total	10.40	18.00	20.50	27.00	162.80	164.70	67.50	77.10	23.60	19.90	9.50	6.50	607.50	**Ton**
Mean	0.30	0.60	0.70	0.90	5.30	5.50	2.20	2.60	0.80	0.60	0.30	0.20		
Max	0.40	1.00	1.10	2.40	60.10	34.60	6.10	4.10	0.90	1.00	0.50	0.60	60.10	
Min	0.20	0.30	0.30	0.10	0.90	1.10	1.00	0.90	0.60	0.50	0.20	0.00	0.00	

WATER YEAR : 2014

PING RIVER BASIN

Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Mueang Kud.

Ban Mueang Kud **Amphoe** Mae Taeng **Changwat** Chiang Mai

Drainge Area	1,653 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2014
Number of observation	31
R-Square	0.8242
Remarks	Continued Sediment Station

$$QS = 0.4361\ QW^{2.13220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	14.40	113.90	17.80	232.40	3375.10	907.70	232.40	59.10	26.40	8.70	6.60		
2	3.00	39.20	100.10	23.60	219.50	3105.80	641.90	219.50	54.80	26.40	10.00	5.80		
3	3.60	39.20	29.30	19.60	365.60	7512.40	696.70	259.20	54.80	26.40	10.00	5.80		
4	2.50	35.80	23.60	14.40	589.40	2683.10	491.50	365.60	54.80	23.60	8.70	5.80		
5	2.00	50.70	19.60	14.40	349.20	4103.90	468.50	424.30	54.80	21.60	8.70	5.80		
6	2.00	259.20	16.00	14.40	333.20	1342.30	382.40	564.00	50.70	21.60	8.70	5.80		
7	2.00	121.20	46.70	17.80	1935.50	783.50	349.20	515.10	59.10	23.60	8.70	5.80		
8	2.00	207.10	349.20	46.70	641.90	813.60	317.60	491.50	50.70	23.60	8.70	5.00		
9	2.00	207.10	287.60	1593.20	1700.90	641.90	302.40	403.00	54.80	87.20	7.50	3.00		
10	2.50	207.10	446.10	987.40	907.70	564.00	287.60	287.60	50.70	161.10	8.70	2.00		
11	3.60	207.10	219.50	1440.00	403.00	382.40	287.60	232.40	54.80	106.90	8.70	1.60		
12	4.30	207.10	113.90	1935.50	287.60	365.60	259.20	195.00	50.70	69.70	7.50	1.60		
13	5.00	130.60	121.20	1593.20	232.40	349.20	259.20	195.00	50.70	46.70	7.50	1.60		
14	5.00	12.80	121.20	783.50	219.50	302.40	302.40	172.00	50.70	35.80	7.50	1.60		
15	5.00	23.60	121.20	615.30	1248.10	403.00	207.10	172.00	50.70	26.40	7.50	1.60		
16	5.00	121.20	106.90	491.50	669.00	1593.20	172.00	183.30	50.70	23.60	7.50	2.00		
17	5.00	21.60	130.60	245.60	446.10	641.90	172.00	183.30	54.80	26.40	7.50	2.00		
18	5.00	19.60	349.20	183.30	349.20	491.50	172.00	172.00	50.70	21.60	7.50	2.00		
19	5.00	19.60	172.00	195.00	725.10	696.70	172.00	150.50	50.70	14.40	7.50	1.60		
20	5.00	39.20	100.10	183.30	2368.60	589.40	150.50	140.40	50.70	14.40	7.50	1.60		
21	5.00	69.70	75.30	195.00	2683.10	424.30	183.30	140.40	46.70	14.40	7.50	1.60		
22	5.80	50.70	64.30	172.00	987.40	333.20	302.40	130.60	46.70	14.40	6.60	1.60		
23	5.80	39.20	54.80	183.30	1700.90	302.40	1294.40	113.90	42.90	14.40	5.80	1.60		
24	5.80	26.40	23.60	183.30	844.40	273.20	564.00	87.20	39.20	14.40	5.80	2.50		
25	6.60	14.40	23.60	183.30	754.00	365.60	349.20	87.20	39.20	12.80	5.80	4.30		
26	6.60	14.40	29.30	1248.10	2146.20	754.00	333.20	87.20	39.20	11.30	5.00	3.00		
27	6.60	17.80	32.50	1342.30	1202.70	491.50	245.60	87.20	39.20	11.30	5.00	3.00		
28	7.50	64.30	26.40	907.70	2074.70	2004.50	232.40	75.30	42.90	10.00	6.60	3.60		
29	7.50	29.30	23.60	424.30	1157.60	669.00	1294.40	69.70	39.20	8.70		4.30		
30	7.50	29.30	21.60	365.60	1114.00	4216.10	382.40	69.70	29.30	8.70		4.30		
31		32.50		446.10	2683.10		232.40		26.40	8.70		4.30		
Total	136.70	2371.40	3362.90	16066.50	31572.00	40574.70	12413.20	6506.50	1490.40	956.50	212.70	102.70	115766.20	**Ton**
Mean	4.60	76.50	112.10	518.30	1018.50	1352.50	400.40	216.90	48.10	30.90	7.60	3.30		
Max	7.50	259.20	446.10	1935.50	2683.10	7512.40	1294.40	564.00	59.10	161.10	10.00	6.60	7512.40	
Min	2.00	12.80	16.00	14.40	219.50	273.20	150.50	69.70	26.40	8.70	5.00	1.60	1.60	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.8325
Remarks	Continued Sediment Station

$$QS = 0.9586\ QW^{1.60930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	613.00	39.90	70.90	50.10	35.80	1028.30	29.30	142.80	3.50	13.10	8.90	2.90		
2	33.10	45.60	86.40	47.10	38.50	2002.40	28.10	119.00	2.90	11.30	8.90	5.30		
3	25.70	54.70	64.00	48.50	45.60	1028.30	29.30	107.70	2.70	13.10	13.10	3.50		
4	22.30	89.90	41.30	47.10	44.10	1230.10	30.60	107.70	2.70	16.00	11.30	5.90		
5	26.90	134.60	26.90	45.60	44.10	723.30	34.50	122.80	2.50	11.30	5.30	7.30		
6	33.10	279.40	22.30	48.50	53.10	901.40	59.50	234.60	2.30	9.70	2.50	8.10		
7	29.30	689.50	45.60	51.60	50.10	1328.90	54.70	320.10	1.60	10.50	2.50	9.70		
8	25.70	362.90	34.50	59.50	42.70	1300.40	47.10	240.80	1.60	23.40	2.50	12.20		
9	21.20	181.40	33.10	216.30	38.50	1328.90	47.10	155.30	1.80	37.10	2.50	15.00		
10	19.00	100.40	30.60	86.40	37.10	1054.40	59.50	50.10	1.80	119.00	5.90	15.00		
11	29.30	64.00	24.50	45.60	38.50	623.70	31.90	24.50	1.80	44.10	5.90	15.00		
12	35.80	73.30	18.00	48.50	26.90	348.40	138.70	18.00	1.60	20.10	4.60	11.30		
13	39.90	83.10	20.10	45.60	21.20	138.70	164.90	13.10	1.80	15.00	6.60	7.30		
14	47.10	78.10	28.10	78.10	21.20	64.00	57.90	9.70	2.30	19.00	9.70	5.30		
15	54.70	83.10	25.70	39.90	24.50	50.10	41.30	6.60	2.50	15.00	13.10	3.50		
16	57.90	93.30	22.30	26.90	24.50	41.30	41.30	5.30	1.80	13.10	15.00	2.90		
17	50.10	93.30	20.10	26.90	21.20	41.30	39.90	3.50	2.00	12.20	16.00	1.80		
18	44.10	96.80	20.10	29.30	21.20	35.80	38.50	5.90	8.90	12.20	19.00	2.00		
19	48.50	100.40	16.00	53.10	24.50	33.10	39.90	4.00	4.00	2.50	20.10	1.80		
20	66.20	104.00	14.00	83.10	45.60	31.90	47.10	2.50	2.90	1.80	17.00	1.30		
21	68.60	83.10	13.10	64.00	159.50	39.90	93.30	2.70	2.90	2.70	8.10	2.30		
22	70.90	57.90	12.20	57.90	89.90	34.50	78.10	3.50	1.50	7.30	2.90	2.30		
23	48.50	25.70	13.10	61.70	57.90	26.90	126.70	2.50	1.30	8.90	2.30	3.50		
24	48.50	21.20	15.00	50.10	66.20	29.30	86.40	2.90	1.50	10.50	2.00	4.60		
25	57.90	19.00	19.00	44.10	210.30	45.60	89.90	2.90	1.50	15.00	2.30	8.10		
26	44.10	18.00	24.50	45.60	222.30	59.50	68.60	3.50	1.80	28.10	2.90	15.00		
27	22.30	13.10	30.60	126.70	138.70	51.60	73.30	4.00	2.00	23.40	2.90	22.30		
28	22.30	12.20	38.50	216.30	279.40	33.10	104.00	3.50	2.30	17.00	2.70	21.20		
29	26.90	14.00	38.50	80.60	138.70	29.30	80.60	3.50	3.50	17.00		17.00		
30	35.80	14.00	39.90	51.60	327.10	47.10	80.60	3.50	6.60	16.00		12.20		
31		23.40		38.50	1161.30		100.40		13.10	12.20		8.90		
Total	1768.70	3149.30	908.90	2014.80	3550.20	13731.50	2043.00	1726.50	91.00	577.60	216.50	254.50	30032.50	**Ton**
Mean	59.00	101.60	30.30	65.00	114.50	457.70	65.90	57.60	2.90	18.60	7.70	8.20		
Max	613.00	689.50	86.40	216.30	1161.30	2002.40	164.90	320.10	13.10	119.00	20.10	22.30	2002.40	
Min	19.00	12.20	12.20	26.90	21.20	26.90	28.10	2.50	1.30	1.80	2.00	1.30	1.30	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.7402
Remarks	Continued Sediment Station

$$QS = 0.6380\ QW^{2.17850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	332.20	189.50	499.70	189.50	1384.00	42502.50	3419.70	1324.40	113.10	15.20	123.20	9.90		
2	3283.80	291.00	499.70	236.90	946.70	75987.50	3283.80	1154.10	103.50	20.10	94.40	8.50		
3	628.20	311.30	3558.70	291.00	772.80	244674.30	2103.20	946.70	85.70	35.40	62.30	7.20		
4	332.20	311.30	2015.20	311.30	851.20	205297.90	1384.00	811.50	69.60	42.90	48.90	4.90		
5	291.00	353.90	946.70	311.30	898.20	92245.10	1100.20	4944.90	69.60	42.90	42.90	4.90		
6	189.50	1100.20	448.10	311.30	996.40	86124.70	1100.20	10450.20	55.40	77.40	55.40	7.20		
7	204.70	7389.20	332.20	376.30	1384.00	70672.00	2015.20	7599.20	48.90	85.70	42.90	6.00		
8	220.40	19421.10	311.30	423.40	5286.70	45380.70	3558.70	10716.80	42.90	42.90	32.00	7.20		
9	189.50	59843.80	332.20	376.30	3150.80	42502.50	2648.60	21086.80	42.90	55.40	22.80	20.10		
10	161.10	41101.60	271.60	628.20	1763.50	26226.40	1763.50	9420.30	39.10	189.50	13.10	25.60		
11	147.90	30944.10	253.90	1763.50	1324.40	20244.70	1529.90	3283.80	32.00	2103.20	7.20	35.40		
12	147.90	21514.90	376.30	996.40	996.40	13280.00	1154.10	1605.80	28.70	3283.80	4.90	48.90		
13	147.90	19016.30	353.90	851.20	772.80	7182.30	811.50	1047.60	28.70	851.20	6.00	42.90		
14	236.90	20663.50	499.70	1683.60	628.20	3993.40	851.20	662.80	28.70	423.40	8.50	35.40		
15	271.60	3283.80	628.20	2769.70	562.00	2015.20	1845.40	473.50	25.60	220.40	15.20	22.80		
16	423.40	499.70	1047.60	1605.80	562.00	2530.40	1047.60	423.40	25.60	253.90	25.60	17.60		
17	772.80	448.10	772.80	735.10	594.60	4298.40	811.50	353.90	20.10	204.70	32.00	15.20		
18	662.80	423.40	473.50	473.50	772.80	3020.90	735.10	332.20	17.60	175.00	48.90	13.10		
19	562.00	530.30	423.40	530.30	473.50	2530.40	562.00	311.30	17.60	135.20	55.40	13.10		
20	376.30	898.20	423.40	851.20	473.50	2193.20	530.30	253.90	17.60	147.90	55.40	9.90		
21	353.90	772.80	332.20	1683.60	946.70	2769.70	628.20	236.90	17.60	62.30	69.60	6.00		
22	332.20	562.00	271.60	1324.40	9928.00	4144.40	2893.80	236.90	15.20	39.10	48.90	6.00		
23	332.20	473.50	291.00	1154.10	7812.50	1929.30	40410.70	175.00	15.20	35.40	42.90	3.10		
24	423.40	353.90	204.70	1529.90	5462.10	1605.80	26729.80	147.90	15.20	48.90	28.70	7.20		
25	376.30	236.90	189.50	1763.50	1605.80	4778.70	12104.10	135.20	13.10	62.30	15.20	35.40		
26	332.20	220.40	175.00	1929.30	1529.90	5822.50	6007.30	147.90	13.10	69.60	11.40	25.60		
27	311.30	175.00	113.10	996.40	3283.80	10716.80	3419.70	135.20	13.10	147.90	11.40	39.10		
28	291.00	161.10	77.40	1456.00	3283.80	8697.60	1683.60	147.90	11.40	189.50	8.50	39.10		
29	253.90	291.00	103.50	8697.60	9928.00	4944.90	1209.50	147.90	15.20	189.50		94.40		
30	175.00	175.00	147.90	4944.90	23787.00	3419.70	996.40	123.20	15.20	147.90		135.20		
31		353.90		1929.30	41798.90		1266.30		15.20	135.20		103.50		
Total	12763.50	232310.70	16374.00	43124.80	133961.01	41731.80	129605.10	78837.10	1072.40	9533.70	1033.60	850.40	1701198.30	**Ton**
Mean	425.50	7493.90	545.80	1391.10	4321.30	34724.40	4180.80	2627.90	34.60	307.50	36.90	27.40		
Max	3283.80	59843.80	3558.70	8697.60	41798.90	244674.30	40410.70	21086.80	113.10	3283.80	123.20	135.20	244674.30	
Min	147.90	161.10	77.40	189.50	473.50	1605.80	530.30	123.20	11.40	15.20	4.90	3.10	3.10	

WATER YEAR : 2014

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	2014
Number of observation	20
R-Square	0.9020
Remarks	Continued Sediment Station

$$QS = 0.4950\ QW^{1.71300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.90	17.10	37.00	10.70	257.30	2284.90	411.70	262.50	40.10	4.00	18.20	3.30		
2	5.80	17.10	29.60	14.90	176.10	2927.70	443.50	257.30	35.40	3.60	14.90	1.60		
3	25.60	14.90	37.00	19.40	140.10	3553.20	456.50	242.10	31.00	3.30	13.90	0.30		
4	130.90	13.90	37.00	45.80	122.00	8861.80	374.80	212.70	20.50	2.70	12.50	0.20		
5	53.90	13.90	232.10	21.70	113.30	10364.60	262.50	200.70	12.50	2.50	11.90	0.50		
6	40.10	18.20	134.00	26.90	113.30	9413.20	208.00	1086.40	32.50	7.80	11.30	0.40		
7	18.20	18.20	86.30	24.30	119.10	6676.60	183.00	5287.30	16.00	8.90	10.70	0.30		
8	13.90	29.60	62.50	24.30	140.10	4753.20	262.50	1425.80	11.90	9.50	10.10	0.20		
9	12.50	551.80	49.70	31.00	278.30	3813.10	368.80	1384.00	11.30	10.10	7.80	0.20		
10	13.90	752.00	56.00	38.50	283.60	3093.50	345.20	2359.30	11.30	17.10	5.80	0.30		
11	14.90	368.80	38.50	60.30	197.10	2266.50	267.70	1288.60	11.30	29.60	4.40	2.00		
12	14.90	217.50	31.00	183.00	159.30	1778.40	237.10	806.50	10.70	56.00	4.00	3.00		
13	13.90	127.90	33.90	200.70	140.10	1583.40	200.70	393.10	9.50	351.00	3.60	4.40		
14	11.90	94.10	58.10	124.90	119.10	996.30	193.50	267.70	8.90	159.30	3.00	5.80		
15	9.50	71.60	94.10	146.40	99.40	606.40	374.80	186.50	8.30	102.20	2.50	6.30		
16	10.70	64.70	116.20	172.70	83.80	386.90	267.70	169.30	7.80	83.80	2.00	5.30		
17	24.30	86.30	119.10	190.00	91.50	516.90	186.50	143.30	7.30	64.70	1.80	4.90		
18	43.80	96.80	149.60	104.90	86.30	483.00	159.30	122.00	6.80	49.70	1.80	3.60		
19	53.90	127.90	119.10	88.90	83.80	386.90	149.60	113.30	6.30	43.80	1.80	2.00		
20	56.00	107.70	81.30	71.60	76.40	374.80	134.00	102.20	5.80	37.00	4.90	1.40		
21	35.40	113.30	69.30	49.70	69.30	327.90	130.90	91.50	5.30	32.50	4.90	1.00		
22	32.50	122.00	58.10	43.80	104.90	322.20	156.00	81.30	5.30	26.90	7.30	1.40		
23	40.10	124.90	45.80	152.80	96.80	418.00	614.60	74.00	4.90	16.00	8.90	1.80		
24	40.10	81.30	47.70	143.30	582.10	345.20	2745.90	67.00	5.30	13.20	7.80	1.80		
25	49.70	43.80	31.00	149.60	405.40	232.10	2588.30	58.10	5.30	10.10	7.80	2.50		
26	47.70	40.10	25.60	162.60	200.70	496.40	1052.20	51.80	5.30	7.80	7.30	2.70		
27	29.60	37.00	19.40	179.50	186.50	450.00	920.10	40.10	4.90	6.80	6.80	3.00		
28	23.00	17.10	13.20	137.00	193.50	974.30	510.10	33.90	4.90	6.80	3.30	10.10		
29	19.40	8.90	11.90	146.40	734.20	930.80	374.80	41.90	4.90	20.50		11.90		
30	20.50	5.80	11.30	222.30	165.90	656.30	294.40	40.10	4.40	20.50		14.90		
31		3.60		430.60	788.10		267.70		4.40	21.70		17.10		
Total	911.50	3407.80	1935.40	3418.50	6407.40	70274.50	15142.40	16890.30	360.10	1229.40	201.00	114.20	120292.50	**Ton**
Mean	30.40	109.90	64.50	110.30	206.70	2342.50	488.50	563.00	11.60	39.70	7.20	3.70		
Max	130.90	752.00	232.10	430.60	788.10	10364.60	2745.90	5287.30	40.10	351.00	18.20	17.10	10364.60	
Min	4.90	3.60	11.30	10.70	69.30	232.10	130.90	33.90	4.40	2.50	1.80	0.20	0.20	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.7903
Remarks	Continued Sediment Station

$$QS = 1.4500\ QW^{1.60560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	11.60	31.40	3.40	38.50	82.10	70.80	10.00	4.20	1.70	0.80	1.40		
2	3.40	34.90	17.00	3.80	12.50	133.20	28.10	10.00	3.40	2.00	0.70	1.70		
3	3.40	9.20	11.60	3.80	20.80	778.40	18.20	10.00	3.80	1.70	0.50	2.00		
4	3.80	6.90	8.40	4.20	10.80	860.70	15.80	10.00	5.10	1.40	0.70	1.70		
5	3.80	15.80	8.40	2.70	23.60	291.50	18.20	12.50	3.80	0.90	0.50	1.70		
6	3.80	33.10	9.20	1.70	76.40	125.60	29.70	15.80	1.70	1.50	0.40	1.70		
7	5.10	34.90	10.80	2.00	68.10	73.60	22.20	19.50	1.70	1.40	0.30	1.50		
8	5.50	29.70	8.40	3.80	48.70	53.30	11.60	28.10	1.50	1.40	0.30	1.40		
9	5.10	18.20	12.50	7.60	31.40	58.10	8.40	23.60	1.70	1.40	0.30	1.40		
10	4.60	13.40	9.20	5.10	17.00	40.40	7.60	17.00	1.50	5.10	0.30	1.40		
11	4.20	6.90	6.90	3.40	13.40	82.10	6.90	11.60	1.40	28.10	0.30	1.20		
12	3.80	6.20	6.20	3.40	10.00	133.20	6.90	10.80	1.70	11.60	0.30	1.10		
13	4.20	38.50	6.90	6.20	8.40	778.40	6.90	10.00	1.70	9.20	0.30	1.10		
14	3.80	25.00	33.10	82.10	14.60	860.70	7.60	9.20	1.70	17.00	0.30	0.90		
15	7.60	17.00	93.90	19.50	34.90	291.50	6.20	8.40	1.40	4.60	0.30	0.80		
16	17.00	15.80	38.50	11.60	38.50	125.60	6.90	8.40	1.40	3.00	0.30	1.10		
17	5.50	13.40	20.80	15.80	28.10	73.60	6.90	7.60	1.40	2.30	0.30	1.50		
18	4.60	25.00	13.40	15.80	14.60	53.30	6.90	8.40	1.40	2.30	0.30	1.20		
19	4.60	17.00	9.20	25.00	23.60	58.10	6.90	6.20	1.40	2.00	0.30	0.80		
20	5.10	12.50	9.20	33.10	526.00	40.40	6.90	3.80	1.40	1.70	0.30	0.80		
21	6.20	10.00	6.90	7.60	164.00	26.40	6.90	5.50	1.40	1.70	0.30	0.80		
22	5.50	7.60	4.60	5.50	73.60	22.20	8.40	5.50	1.40	1.70	0.90	0.80		
23	4.60	6.20	3.00	5.50	28.10	13.40	11.60	5.50	1.40	1.50	4.60	1.10		
24	4.60	5.10	3.40	7.60	18.20	13.40	17.00	5.10	1.50	1.20	5.10	1.20		
25	4.60	5.10	3.00	8.40	13.40	20.80	13.40	5.50	1.40	1.10	3.80	1.10		
26	4.20	5.50	3.00	4.20	10.00	51.00	9.20	5.10	1.50	1.10	1.70	1.20		
27	4.60	2.70	3.80	29.70	60.60	53.30	6.90	3.80	2.00	1.10	1.50	1.50		
28	4.60	15.80	3.80	100.40	261.20	26.40	8.40	3.80	1.70	0.90	1.40	1.20		
29	5.50	53.30	3.40	28.10	93.90	48.70	11.60	4.60	1.50	0.80		0.80		
30	6.90	15.80	3.80	10.80	150.50	133.20	15.80	4.60	1.40	0.70		1.10		
31		14.60		22.20	173.30		13.40		1.70	0.50		1.40		
Total	153.60	526.70	403.70	484.00	2106.70	5402.60	422.20	289.90	60.20	112.60	27.10	38.60	10027.90	**Ton**
Mean	5.10	17.00	13.50	15.60	68.00	180.10	13.60	9.70	1.90	3.60	1.00	1.20		
Max	17.00	53.30	93.90	100.40	526.00	860.70	70.80	28.10	5.10	28.10	5.10	2.00	860.70	
Min	3.40	2.70	3.00	1.70	8.40	13.40	6.20	3.80	1.40	0.50	0.30	0.80	0.30	

WATER YEAR : 2014

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	2014
Number of observation	20
R-Square	0.8970
Remarks	Continued Sediment Station

$$QS = 0.3610\ QW^{1.75500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.20	8.60	31.20	23.90	105.40	1579.40	228.30	114.30	13.60	0.60	10.20	0.10		
2	11.80	9.00	68.10	21.60	80.60	1946.00	293.30	114.30	11.80	0.60	8.30	0.10		
3	120.40	5.90	137.50	47.90	63.30	2908.10	211.80	105.40	4.70	0.30	7.50	0.20		
4	65.70	15.40	195.90	19.50	58.70	8833.70	151.30	96.90	4.40	2.60	6.20	0.20		
5	20.50	13.60	195.90	19.50	61.00	8326.20	137.50	105.40	8.30	4.40	4.40	0.10		
6	14.50	19.50	68.10	19.50	58.70	5547.40	117.40	2003.90	8.60	5.30	4.40	0.10		
7	10.60	54.30	47.90	19.50	61.00	4050.80	137.50	937.10	7.50	5.30	5.00	0.10		
8	10.60	211.80	39.90	26.20	133.10	2193.80	239.60	860.20	6.90	5.30	4.40	0.10		
9	10.60	612.20	39.90	31.20	195.90	2193.80	268.90	1425.20	6.50	5.00	3.60	0.40		
10	10.20	268.90	39.90	30.00	123.50	1685.90	211.80	990.00	6.20	8.60	1.80	1.30		
11	9.80	137.50	34.30	96.90	88.60	1246.10	156.00	433.60	5.30	23.90	0.80	2.40		
12	8.60	85.90	31.20	99.70	78.10	924.10	133.10	239.60	5.00	211.80	0.40	2.90		
13	6.90	50.00	39.90	56.50	61.00	487.10	111.30	129.80	3.80	120.40	0.30	4.40		
14	6.90	28.70	54.30	83.20	47.90	366.40	222.80	94.10	3.80	61.00	0.30	4.10		
15	11.00	52.10	85.90	85.90	36.10	228.30	211.80	61.00	3.80	38.00	0.30	3.60		
16	12.70	34.30	61.00	123.50	39.90	170.50	129.80	54.30	3.80	25.10	0.30	2.40		
17	28.70	21.60	99.70	73.00	39.90	318.60	99.70	45.80	3.30	23.90	1.80	1.10		
18	32.50	12.70	70.50	47.90	34.30	228.30	88.60	39.90	2.90	19.50	2.90	0.30		
19	34.30	18.40	58.70	39.90	34.30	201.10	78.10	34.30	2.60	18.40	4.10	0.30		
20	38.00	36.10	50.00	38.00	31.20	180.50	75.50	31.20	2.60	13.60	5.00	0.10		
21	23.90	54.30	47.90	58.70	45.80	156.00	80.60	27.50	2.60	11.00	5.60	0.10		
22	26.20	50.00	38.00	108.40	146.60	156.00	111.30	26.20	2.60	7.20	6.90	0.30		
23	26.20	32.50	38.00	73.00	382.70	206.50	1168.20	23.90	2.60	5.30	5.90	0.20		
24	32.50	21.60	32.50	75.50	268.90	133.10	2150.90	22.70	2.60	5.30	4.70	0.20		
25	23.90	18.40	25.10	88.60	137.50	117.40	1107.40	18.40	2.40	5.60	9.00	0.70		
26	31.20	11.00	20.50	94.10	94.10	374.50	582.20	15.40	2.00	6.90	1.00	1.10		
27	15.40	7.90	19.50	85.90	228.30	382.70	358.30	15.40	1.60	8.60	0.10	5.60		
28	14.50	8.60	19.50	61.00	312.20	478.00	233.90	14.50	1.30	9.80	0.10	5.00		
29	14.50	22.70	18.40	133.10	433.60	416.30	137.50	30.00	1.00	8.60		6.20		
30	10.20	43.80	15.40	305.90	727.50	262.90	114.30	22.70	0.80	10.60		8.60		
31		41.80		170.50	924.10		114.30		0.70	10.20		8.60		
Total	693.00	2009.10	1724.60	2258.00	5133.80	46299.50	9463.00	8133.00	135.60	682.70	105.30	60.90	76698.50	**Ton**
Mean	23.10	64.80	57.50	72.80	165.60	1543.30	305.30	271.10	4.40	22.00	3.80	2.00		
Max	120.40	612.20	195.90	305.90	924.10	8833.70	2150.90	2003.90	13.60	211.80	10.20	8.60	8833.70	
Min	6.90	5.90	15.40	19.50	31.20	117.40	75.50	14.50	0.70	0.30	0.10	0.10	0.10	

WATER YEAR : 2014

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Huai Kod.

Ban Huai Kod **Amphoe** Wang Nua **Changwat** Lampang

Drainge Area	762 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2009-Cont'd
Actual Measurement	2009-Cont'd
Using Rating Curve Water Year	2014
Number of observation	32
R-Square	0.8978
Remarks	Continued Sediment Station

$$QS = 105.3400\ QW^{1.44050}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.20	10.40	69.60	8.90	1003.00	18457.90	2404.30	211.10	120.80	13.50	7.50	2.80		
2	6.20	11.90	33.30	8.90	1003.00	23587.80	1425.20	224.30	153.70	33.30	7.50	2.80		
3	5.00	27.10	33.30	8.90	583.10	44019.60	1003.00	583.10	321.60	30.20	7.50	2.30		
4	7.50	235.90	24.20	8.90	1082.50	33798.90	709.80	964.00	198.00	24.20	6.20	2.30		
5	7.50	198.00	24.20	10.40	3031.00	22265.70	709.80	1948.80	130.50	24.20	6.20	1.80		
6	7.50	105.30	27.10	10.40	2539.70	13210.70	1371.60	3673.20	164.00	18.60	6.20	1.80		
7	8.90	153.70	24.20	43.40	2747.00	10734.90	1003.00	4351.80	113.00	15.10	6.20	1.80		
8	7.50	176.30	30.20	2271.20	1589.50	5319.40	614.00	3210.60	83.40	13.50	6.20	1.80		
9	8.90	130.50	13.50	2140.40	1163.90	4451.60	614.00	2404.30	36.60	69.60	6.20	1.80		
10	7.50	56.60	10.40	1479.30	1123.00	3120.40	493.10	1948.80	30.20	1702.00	5.00	1.80		
11	7.50	33.30	10.40	120.80	1082.50	1948.80	392.00	1702.00	33.30	2337.40	3.80	2.30		
12	7.50	18.60	18.60	33.30	583.10	1702.00	677.40	1589.50	33.30	1003.00	3.80	2.30		
13	7.50	15.10	56.60	18.60	235.90	1534.10	1318.70	1371.60	30.20	742.70	3.80	1.80		
14	7.50	18.60	120.80	69.60	464.20	2205.50	742.70	1214.80	15.10	522.60	3.80	1.80		
15	7.50	27.10	1702.00	1123.00	2404.30	3485.90	552.60	1082.50	3.80	277.70	3.80	1.80		
16	7.50	16.80	345.30	298.30	2887.90	1948.80	277.70	1003.00	5.00	224.30	3.30	1.80		
17	7.50	13.50	69.60	120.80	742.70	1886.10	120.80	1214.80	8.90	141.90	3.80	2.30		
18	7.50	13.50	43.40	120.80	614.00	1479.30	120.80	1214.80	18.60	141.90	5.00	2.30		
19	7.50	16.80	18.60	298.30	2140.40	1042.50	105.30	1042.50	27.10	50.50	5.00	2.80		
20	7.50	13.50	15.10	1123.00	31797.00	1425.20	113.00	964.00	21.30	16.80	3.30	2.80		
21	5.00	13.50	15.10	176.30	8679.00	4056.70	105.30	925.40	13.50	10.40	1.80	2.30		
22	5.00	16.80	13.50	69.60	1645.40	2012.00	176.30	849.70	13.50	8.90	2.30	2.30		
23	6.20	16.80	11.90	321.60	742.70	1479.30	583.10	776.00	18.60	7.50	2.30	2.30		
24	6.20	15.10	10.40	1589.50	414.90	1645.40	849.70	776.00	13.50	7.50	2.80	3.30		
25	5.00	13.50	10.40	709.80	164.00	1762.70	964.00	709.80	10.40	7.50	2.30	2.80		
26	5.00	13.50	10.40	83.40	224.30	2075.90	614.00	709.80	8.90	7.50	2.30	7.50		
27	5.00	15.10	10.40	414.90	887.30	2539.70	392.00	677.40	7.50	6.20	2.80	18.60		
28	7.50	10.40	10.40	4755.10	2608.20	1425.20	224.30	583.10	6.20	7.50	2.80	11.90		
29	6.20	11.90	10.40	1824.10	2959.20	1886.10	345.30	552.60	6.20	7.50		18.60		
30	8.90	30.20	10.40	709.80	9605.70	3393.40	298.30	493.10	6.20	7.50		13.50		
31		56.60		583.10	16466.90		235.90		6.20	7.50		3.80		
Total	207.70	1505.90	2803.70	20554.40	103215.30	219901.50	19557.00	38972.40	1659.10	7488.50	123.50	129.90	416118.90	**Ton**
Mean	6.90	48.60	93.50	663.00	3329.50	7330.10	630.90	1299.10	53.50	241.60	4.40	4.20		
Max	8.90	235.90	1702.00	4755.10	31797.00	44019.60	2404.30	4351.80	321.60	2337.40	7.50	18.60	44019.60	
Min	5.00	10.40	10.40	8.90	164.00	1042.50	105.30	211.10	3.80	6.20	1.80	1.80	1.80	

WATER YEAR : 2014

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.
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	2014
Number of observation	36
R-Square	0.9175
Remarks	Continued Sediment Station

$$QS = 1.2068\ QW^{1.51790}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	16.20	81.90	367.80	2337.30	13164.70	3853.10	265.10	116.50	27.10	21.40	5.10		
2	2.10	25.10	81.90	401.20	1517.20	20520.30	1878.70	238.00	116.50	29.00	19.60	3.70		
3	1.90	104.50	71.40	256.00	890.00	34233.60	1368.20	229.10	110.40	27.10	19.60	4.20		
4	2.40	136.20	58.50	150.20	905.20	39142.60	936.30	519.40	110.40	25.10	19.60	4.40		
5	2.90	1195.50	44.10	116.50	874.90	29482.00	687.90	920.70	93.00	25.10	17.90	4.60		
6	4.20	435.60	47.60	93.00	1962.30	16211.10	800.10	531.80	93.00	25.10	19.60	4.40		
7	4.20	346.10	54.80	81.90	2504.80	24049.20	1575.50	660.90	98.70	23.20	19.60	4.40		
8	3.50	2177.60	40.70	93.00	2026.10	15429.30	998.90	1368.20	93.00	23.20	29.00	4.20		
9	3.50	2456.30	31.10	424.00	1246.40	6916.70	634.30	1031.00	93.00	25.10	21.40	3.90		
10	3.20	660.90	31.10	5604.20	1263.60	3791.40	507.10	608.10	76.60	40.70	19.60	3.50		
11	2.90	390.00	37.40	4951.00	1654.50	2337.30	435.60	459.00	76.60	93.00	19.60	3.70		
12	3.50	238.00	44.10	1246.40	983.10	1734.90	1079.40	401.20	76.60	265.10	17.90	3.70		
13	3.50	172.10	37.40	470.90	715.20	1440.50	1229.20	346.10	66.30	211.80	16.20	3.70		
14	5.00	129.30	58.50	335.50	519.40	1246.40	715.20	314.50	62.40	129.30	16.20	3.70		
15	16.20	104.50	556.80	335.50	785.40	1459.50	507.10	293.90	58.50	87.40	16.20	3.50		
16	8.70	104.50	324.90	283.80	1046.90	2090.40	390.00	265.10	51.10	71.40	16.20	3.70		
17	5.00	104.50	195.00	324.90	701.50	1634.50	378.90	238.00	37.40	54.80	14.60	3.70		
18	5.00	93.00	104.50	621.20	424.00	1112.10	324.90	238.00	34.20	51.10	13.10	3.70		
19	3.20	104.50	76.60	1497.80	1403.70	829.70	265.10	220.40	29.00	47.60	16.20	3.90		
20	3.20	87.40	66.30	1517.20	5222.70	756.80	246.90	211.80	29.00	34.20	16.20	4.60		
21	3.20	136.20	54.80	1161.90	19461.90	674.30	246.90	211.80	27.10	29.00	14.60	4.40		
22	3.20	116.50	44.10	544.20	9267.30	859.70	256.00	195.00	25.10	27.10	16.20	4.60		
23	3.20	93.00	31.10	1674.60	2408.40	1063.20	756.80	187.20	25.10	27.10	17.90	4.80		
24	3.20	66.30	25.10	6052.00	1195.50	936.30	2047.60	187.20	27.10	23.20	21.40	5.10		
25	9.70	47.60	21.40	2675.90	687.90	5674.60	1755.30	172.10	25.10	27.10	23.20	5.40		
26	25.10	40.70	25.10	1421.40	556.80	7385.10	998.90	164.70	27.10	19.60	23.20	5.40		
27	29.00	31.10	37.40	687.90	890.00	3399.40	621.20	150.20	31.10	21.40	3.10	5.70		
28	21.40	29.00	31.10	3428.90	983.10	2480.50	435.60	136.20	27.10	25.10	6.80	5.70		
29	17.90	47.60	29.00	5018.50	1046.90	1595.20	356.90	129.30	29.00	31.10		5.40		
30	11.90	62.40	157.40	2651.40	2090.40	2047.60	293.90	122.60	27.10	25.10		6.80		
31		62.40		1517.20	9823.40		293.90		29.00	17.90		6.20		
Total	214.00	9814.60	2501.10	46005.90	77395.80	243698.90	26875.40	11016.60	1822.10	1590.10	496.10	139.80	421570.40	**Ton**
Mean	7.10	316.60	83.40	1484.10	2496.60	8123.30	866.90	367.20	58.80	51.30	17.70	4.50		
Max	29.00	2456.30	556.80	6052.00	19461.90	39142.60	3853.10	1368.20	116.50	265.10	29.00	6.80	39142.60	
Min	1.90	16.20	21.40	81.90	424.00	674.30	246.90	122.60	25.10	17.90	3.10	3.50	1.90	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1963 - 1987,1997-Cont'd
Actual Measurement	1963 - 1987,1997-Cont'd
Using Rating Curve Water Year	2014
Number of observation	19
R-Square	0.8900
Remarks	Continued Sediment Station

$$QS = 1.1290\ QW^{1.51200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	54.60	193.20	2843.50	7289.10	2675.80	1728.90	142.70	45.30	85.50	23.30		
2	0.00	0.00	49.00	259.90	2394.10	14397.30	3844.30	2265.10	160.20	49.00	90.00	21.40		
3	0.00	0.00	101.90	501.90	2394.10	23080.30	3732.20	1941.70	168.50	53.30	94.60	19.10		
4	0.00	17.00	233.50	559.50	2062.10	45975.30	2423.80	1591.70	181.70	58.40	93.40	18.70		
5	0.00	45.30	160.20	420.90	1684.10	50829.20	2305.60	1017.40	189.40	63.00	99.20	16.50		
6	0.00	52.70	131.00	315.60	2334.90	46573.00	1472.00	970.00	193.20	66.40	102.70	14.90		
7	0.00	1266.00	120.90	198.10	2167.20	22434.00	1346.00	1114.70	185.50	70.50	105.10	14.90		
8	0.00	1540.30	137.90	117.60	3475.20	18206.50	1782.40	1524.60	174.10	75.80	111.10	14.10		
9	0.00	980.10	124.20	104.70	3402.90	16491.80	2276.30	2433.00	157.50	74.70	117.20	8.50		
10	0.00	1408.50	78.30	96.50	2483.70	9020.40	1540.30	2518.50	127.20	70.50	111.10	5.60		
11	0.00	1882.50	63.70	309.90	2036.10	5219.50	1587.70	523.60	120.90	85.50	106.30	4.60		
12	0.00	756.80	54.60	5267.20	1933.20	3695.10	1429.60	213.00	114.70	117.20	98.00	3.60		
13	0.00	387.10	56.80	4286.80	2193.80	2776.00	1304.90	298.50	111.10	149.40	80.10	1.90		
14	0.00	276.30	85.90	1882.50	2062.10	2423.80	666.00	276.30	107.50	636.60	68.40	0.70		
15	0.00	259.90	569.30	1010.60	2010.20	2088.20	1728.90	298.50	102.70	5030.40	67.80	0.20		
16	0.00	281.80	1684.10	707.90	2945.80	2544.10	1114.70	265.30	94.60	5387.00	67.10	0.10		
17	0.00	249.30	2062.10	590.50	2843.50	3049.30	1266.00	197.20	83.30	551.10	65.70	0.10		
18	0.00	178.80	2276.30	511.40	2609.60	3119.00	877.30	154.70	72.60	209.00	65.00	0.00		
19	0.00	151.10	2513.80	569.30	2088.20	2609.60	923.30	134.90	65.70	162.90	64.40	0.00		
20	0.00	281.80	1832.20	870.80	1587.70	2010.20	636.60	119.70	59.70	133.60	62.40	0.00		
21	0.00	238.70	1010.60	1587.70	2980.10	1587.70	388.40	137.50	55.20	111.10	58.40	0.00		
22	0.00	198.10	549.70	2220.40	11753.40	1540.30	923.30	160.20	48.40	87.80	54.60	0.00		
23	0.00	160.20	362.70	1708.50	14493.80	1284.50	1114.70	185.50	41.20	67.80	50.20	0.00		
24	0.00	160.20	265.30	1139.40	5653.60	1635.70	459.50	189.40	34.00	55.80	43.60	0.00		
25	0.00	164.80	208.00	1882.50	2911.50	2453.70	1869.90	177.90	26.20	47.70	36.70	0.00		
26	0.00	91.10	198.10	5077.50	2036.10	4203.60	5207.60	165.70	19.10	46.50	31.30	0.00		
27	0.00	73.30	356.70	3014.60	2193.80	10903.00	3881.90	171.30	15.70	50.20	29.70	0.30		
28	0.00	59.10	374.90	2167.20	2709.00	6646.50	4342.60	177.90	23.30	58.40	25.70	0.40		
29	0.00	50.80	259.90	2220.40	6174.70	4203.60	2692.40	171.30	30.30	65.00		0.90		
30	0.00	66.10	249.30	4245.20	3511.50	3295.40	1798.90	154.70	36.10	71.20		1.40		
31		66.10		4710.90	4539.70		1458.40		41.20	76.80		1.50		
Total	0.00	11343.80	16225.50	48749.10	106509.20	321585.70	59071.30	21278.70	2983.50	13827.90	2085.30	172.70	603832.60	**Ton**
Mean	0.00	365.90	540.90	1572.60	3435.80	10719.50	1905.50	709.30	96.20	446.10	74.50	5.60		
Max	0.00	1882.50	2513.80	5267.20	14493.80	50829.20	5207.60	2518.50	193.20	5387.00	117.20	23.30	50829.20	
Min	0.00	0.00	49.00	96.50	1587.70	1284.50	388.40	119.70	15.70	45.30	25.70	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	24
R-Square	0.9440
Remarks	Continued Sediment Station

$$QS = 2.1740\ QW^{1.36000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.0	49.8	239.2	255.7	2411.9	6736.2	2088.9	531.2	268.3	166.6	163.3	134.8		
2	0.0	169.9	356.3	367.8	1962.4	11460.2	2145.5	508.5	259.9	166.6	163.3	134.8		
3	0.0	214.9	391.0	702.4	2329.1	20452.8	2329.1	471.3	259.9	166.6	156.9	134.8		
4	0.0	264.1	314.3	585.1	1596.1	31702.3	1926.7	463.9	251.6	176.5	156.9	128.7		
5	0.0	226.9	247.4	396.8	1596.1	34349.3	1429.0	501.0	247.4	176.5	156.9	125.7		
6	0.0	281.1	235.1	299.5	1855.7	28838.7	1156.5	770.1	247.4	176.5	156.9	125.7		
7	0.0	1511.9	206.9	264.1	1980.4	14707.1	1094.6	1156.5	243.3	166.6	163.3	125.7		
8	0.0	868.2	206.9	243.3	3016.6	14899.8	1270.0	1094.6	235.1	166.6	153.7	125.7		
9	0.0	396.8	214.9	218.9	2665.0	11189.6	1579.2	1311.7	226.9	166.6	150.5	119.7		
10	0.0	1962.4	203.5	235.1	2125.4	6256.7	1106.9	1445.5	218.9	176.5	150.5	119.7		
11	0.0	1445.5	189.9	938.2	1768.1	3995.0	868.2	1058.0	218.9	251.6	147.3	119.7		
12	0.0	673.9	186.5	4560.7	1820.5	2992.5	750.6	740.9	214.9	299.5	153.7	110.8		
13	0.0	402.7	196.6	3186.4	1855.7	2247.0	961.8	627.1	206.9	329.3	166.6	108.3		
14	0.0	334.3	255.7	1596.1	1681.5	2034.4	1370.0	546.5	203.5	444.5	153.7	108.3		
15	0.0	289.7	950.0	1021.6	1803.0	1785.5	1244.5	501.0	196.6	420.5	141.1	103.3		
16	0.0	264.1	1511.9	673.9	2349.7	2165.7	879.7	471.3	193.2	350.7	137.9	100.9		
17	0.0	239.2	1579.2	585.1	2411.9	2537.6	702.4	438.5	189.9	299.5	137.9	100.9		
18	0.0	218.9	1664.3	561.8	2165.7	2432.8	617.9	420.5	179.8	268.3	131.8	100.9		
19	0.0	206.9	1908.9	664.5	1630.1	2125.4	600.8	396.8	176.5	255.7	131.8	98.4		
20	0.0	206.9	1414.2	1070.2	1429.0	1664.3	554.1	379.3	173.2	247.4	131.8	98.4		
21	0.0	210.9	845.2	1647.2	3186.4	1445.5	478.7	362.1	173.2	226.9	131.8	96.0		
22	0.0	243.3	523.6	1768.1	10813.6	1340.8	523.6	350.7	186.5	214.9	131.8	96.0		
23	0.0	276.8	408.6	1370.0	9824.2	1194.0	516.0	339.3	186.5	214.9	131.8	93.6		
24	0.0	264.1	324.2	1094.6	4051.4	1445.5	645.7	329.3	179.8	200.1	131.8	91.2		
25	0.0	243.3	285.4	1596.1	2247.0	1891.1	1562.3	329.3	179.8	189.9	134.8	88.8		
26	0.0	222.9	299.5	2034.4	1838.1	3210.9	2308.5	314.3	176.5	183.1	141.1	105.8		
27	0.0	222.9	554.1	2125.4	2052.5	7898.1	1545.5	304.4	176.5	183.1	137.9	110.8		
28	0.0	222.9	750.6	2125.4	2453.7	4592.1	1094.6	299.5	176.5	176.5	134.8	122.7		
29	0.0	218.9	391.0	2411.9	4718.2	3210.9	789.8	285.4	176.5	169.9		131.8		
30	0.0	203.5	272.6	3838.0	2924.6	2558.8	645.7	268.3	176.5	169.9		137.9		
31		206.9		3358.7	3659.5		592.9		169.9	163.3		153.7		
Total	0.0	12764.5	17127.5	41797.0	88223.1	233360.6	35379.7	17016.8	6370.3	6965.1	4081.6	3553.5	466639.7	**Ton**
Mean	0.0	411.8	570.9	1348.3	2845.9	7778.7	1141.3	567.2	205.5	224.7	145.8	114.6		
Max	0.0	1962.4	1908.9	4560.7	10813.6	34349.3	2329.1	1445.5	268.3	444.5	166.6	153.7	34349.3	
Min	0.0	49.8	186.5	218.9	1429.0	1194.0	478.7	268.3	169.9	163.3	131.8	88.8	0.0	

WATER YEAR : 2014

Yom RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

Ban Kong **Amphoe** Kong Krailat **Changwat** Sukhothai

Drainge Area	19,936 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2009-Cont'd
Actual Measurement	2009-Cont'd
Using Rating Curve Water Year	2009-2014
Number of observation	80
R-Square	0.8710
Remarks	Continued Sediment Station

$$QS = 6.9980\ QW^{1.04600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	19.40	95.20	1188.00	1661.40	1794.80	715.10	77.80	0.00	0.00	0.00		
2	0.00	0.00	21.70	95.20	1204.50	1712.60	1789.60	654.50	71.70	0.00	0.00	0.00		
3	0.00	0.00	16.70	90.00	1208.60	1758.80	1779.30	607.60	59.60	0.00	0.00	0.00		
4	0.00	0.00	14.40	82.90	1208.60	1820.40	1769.10	638.80	42.40	0.00	0.00	0.00		
5	0.00	0.00	13.70	90.00	1216.90	1887.30	1748.50	620.10	27.50	0.00	0.00	0.00		
6	0.00	0.00	14.40	95.20	1212.80	1949.20	1717.80	708.30	16.00	0.00	0.00	0.00		
7	0.00	0.00	44.00	103.20	1225.20	2079.20	1692.10	870.30	10.00	0.00	0.00	0.00		
8	0.00	0.00	155.20	118.10	1266.50	2138.80	1625.60	950.10	6.60	0.00	0.00	0.00		
9	0.00	0.00	223.70	135.50	1326.40	2225.50	1562.40	972.00	8.10	0.00	0.00	0.00		
10	0.00	0.00	162.70	139.30	1386.40	2279.90	1488.20	924.70	10.70	0.00	0.00	0.00		
11	0.00	0.00	133.90	150.60	1423.40	2313.90	1404.90	921.10	10.70	0.00	0.00	0.00		
12	0.00	0.00	133.90	150.60	1441.90	2325.30	1335.60	982.90	8.80	0.00	0.00	0.00		
13	0.00	0.00	143.90	439.10	1432.60	2330.90	1275.70	1009.90	7.40	0.00	0.00	0.00		
14	0.00	47.60	137.20	755.60	1414.10	2308.20	1188.00	972.00	5.50	0.00	0.00	0.00		
15	0.00	17.50	113.90	708.30	1400.20	2268.80	1085.00	953.80	3.70	0.00	0.00	0.00		
16	0.00	11.40	120.60	613.80	1386.40	2225.50	950.10	928.30	1.60	0.00	0.00	0.00		
17	0.00	18.20	140.50	483.90	1372.50	2187.50	819.70	902.90	0.00	0.00	0.00	0.00		
18	0.00	21.70	143.90	460.20	1363.30	2149.50	529.50	928.30	0.00	0.00	0.00	0.00		
19	0.00	33.00	174.10	449.60	1344.90	2106.20	375.20	982.90	0.00	0.00	0.00	0.00		
20	0.00	45.60	245.10	439.10	1331.00	2073.80	317.20	1002.20	0.00	0.00	0.00	0.00		
21	0.00	98.30	1040.90	481.30	1312.60	2026.60	392.60	935.60	0.00	0.00	0.00	0.00		
22	0.00	177.90	1122.00	584.20	1326.40	1995.60	721.90	794.50	0.00	0.00	0.00	0.00		
23	0.00	103.20	1072.70	660.70	1391.00	1964.70	924.70	645.10	0.00	0.00	0.00	0.00		
24	0.00	47.60	718.50	735.30	1465.00	1923.40	1040.90	14.40	0.00	0.00	0.00	0.00		
25	0.00	36.10	366.50	762.30	1529.90	1871.90	942.90	40.80	0.00	0.00	0.00	0.00		
26	0.00	49.60	214.80	794.50	1567.00	1835.90	859.50	137.20	0.00	0.00	0.00	0.00		
27	0.00	65.60	161.90	932.00	1580.90	1810.20	738.70	140.50	0.00	0.00	0.00	0.00		
28	0.00	63.60	138.00	1037.10	1585.60	1794.80	705.00	100.70	0.00	0.00	0.00	0.00		
29	0.00	67.70	113.10	1093.20	1580.90	1799.90	657.60	98.30	0.00	0.00		0.00		
30	0.00	51.60	92.10	1130.30	1585.60	1805.00	617.00	95.80	0.00	0.00		0.00		
31		44.00		1150.90	1625.60		567.00		0.00	0.00		0.00		
Total	0.00	1000.20	7213.40	15057.20	42904.70	60630.70	34416.10	20248.70	368.10	0.00	0.00	0.00	181839.10	**Ton**
Mean	0.00	32.30	240.40	485.70	1384.00	2021.00	1110.20	675.00	11.90	0.00	0.00	0.00		
Max	0.00	177.90	1122.00	1150.90	1625.60	2330.90	1794.80	1009.90	77.80	0.00	0.00	0.00	2330.90	
Min	0.00	0.00	13.70	82.90	1188.00	1661.40	317.20	14.40	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	34
R-Square	0.8073
Remarks	Continued Sediment Station

$$QS = 1.3395\ QW^{1.52970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	75.10	49.00	370.90	2008.40	14443.50	1843.00	204.90	78.00	23.50	14.50	3.10		
2	1.40	101.20	42.10	136.00	1232.90	30353.90	1384.40	184.20	72.20	23.50	14.50	3.10		
3	1.00	78.00	34.70	78.00	1139.60	31490.10	973.40	174.20	69.40	22.10	13.40	2.70		
4	0.90	1370.40	26.50	61.30	816.40	20804.20	713.50	479.60	63.80	20.80	12.30	2.70		
5	0.70	479.60	19.50	51.40	1287.30	9200.90	589.10	455.50	63.80	16.90	11.20	3.40		
6	0.70	174.20	14.50	39.90	2198.60	22299.30	1484.00	335.60	61.30	18.20	10.50	3.10		
7	0.90	1426.80	22.10	34.70	1905.50	12437.70	1260.00	839.90	61.30	19.50	10.50	3.40		
8	0.90	3719.90	26.50	321.80	1398.50	6430.20	691.20	948.60	56.20	18.20	10.50	3.80		
9	1.00	702.30	26.50	5638.10	998.40	3478.50	529.20	529.20	53.80	19.50	9.90	3.40		
10	1.00	328.70	33.00	6314.90	1705.20	2217.80	447.70	349.60	53.80	69.40	9.90	3.10		
11	0.90	154.70	33.00	1705.20	1036.20	1630.30	401.00	301.50	53.80	288.30	8.70	2.70		
12	1.00	90.00	25.00	563.20	691.20	1384.40	504.20	262.40	51.40	237.30	8.10	1.60		
13	1.60	72.20	31.30	301.50	496.10	1287.30	606.50	231.80	49.00	118.20	8.10	1.60		
14	2.40	61.30	512.50	256.00	408.60	1139.60	463.60	210.20	46.70	83.90	8.10	1.80		
15	5.90	53.80	899.70	321.80	597.90	1384.40	363.70	189.30	38.10	63.80	8.10	1.60		
16	4.60	36.40	447.70	401.00	597.90	1126.50	328.70	174.20	34.70	56.20	7.60	1.60		
17	4.20	46.70	199.70	268.80	447.70	973.40	275.20	164.30	33.00	49.00	7.00	1.60		
18	3.40	46.70	199.70	899.70	416.30	735.90	231.80	149.90	33.00	42.10	7.60	1.60		
19	2.70	66.60	179.20	626.10	851.80	680.20	237.30	145.20	31.30	38.10	7.00	1.40		
20	3.10	136.00	113.80	1675.10	14525.20	724.70	226.30	140.60	33.00	33.00	5.90	1.60		
21	4.60	78.00	69.40	804.70	6314.90	816.40	215.50	131.50	33.00	29.70	6.50	1.60		
22	5.90	58.70	51.40	998.40	1889.80	1219.40	301.50	118.20	33.00	26.50	6.50	1.40		
23	10.50	38.10	44.40	6764.90	1113.50	793.10	1287.30	113.80	29.70	25.00	6.50	1.40		
24	20.80	29.70	49.00	3038.20	606.50	3114.40	1812.10	109.60	28.10	22.10	6.50	1.60		
25	12.30	26.50	86.90	1989.90	447.70	8583.80	924.10	101.20	26.50	19.50	5.40	2.10		
26	8.70	19.50	75.10	828.10	770.10	3294.70	563.20	97.10	23.50	18.20	4.60	2.40		
27	8.10	16.90	78.00	2636.80	758.60	2474.30	378.40	90.00	22.10	16.90	4.20	6.50		
28	16.90	28.10	63.80	5935.60	863.70	1660.10	308.30	83.90	22.10	15.70	3.10	11.20		
29	9.90	44.40	61.30	3038.20	1100.50	1356.40	262.40	83.90	22.10	15.70		10.50		
30	22.10	42.10	393.40	1781.30	6162.20	4468.30	231.80	83.90	22.10	14.50		9.90		
31		49.00		2678.00	11321.50		215.50		23.50	14.50		7.60		
Total	159.70	9651.60	3908.70	50559.50	66108.70	192003.70	20053.90	7483.80	1323.30	1479.80	236.70	105.10	353074.60	**Ton**
Mean	5.30	311.30	130.30	1631.00	2132.50	6400.10	646.90	249.50	42.70	47.70	8.50	3.40		
Max	22.10	3719.90	899.70	6764.90	14525.20	31490.10	1843.00	948.60	78.00	288.30	14.50	11.20	31490.10	
Min	0.70	16.90	14.50	34.70	408.60	680.20	215.50	83.90	22.10	14.50	3.10	1.40	0.70	

WATER YEAR : 2014

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.
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	2014
Number of observation	27
R-Square	0.7913
Remarks	Continued Sediment Station

$$QS = 0.8739\ QW^{1.59980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	81.30	158.80	2590.90	16103.00	2795.40	394.80	152.40	1.90	0.00	0.00		
2	0.00	0.00	146.00	478.20	2590.90	24189.60	4757.80	352.00	122.40	1.90	0.00	0.00		
3	0.00	0.00	152.40	642.40	2016.80	47768.70	2524.00	352.00	111.50	1.30	0.00	0.00		
4	0.00	50.30	116.90	303.70	1357.30	66291.70	1910.80	362.00	101.10	1.30	0.00	0.00		
5	0.00	206.70	61.30	165.30	1884.60	72438.20	1337.60	362.00	86.10	1.90	0.00	0.00		
6	0.00	966.40	35.60	116.90	2152.30	44472.00	1109.40	687.80	73.00	0.00	0.00	0.00		
7	0.00	750.20	53.90	91.00	2795.40	27900.40	1279.00	734.40	73.00	0.00	0.00	0.00		
8	0.00	303.70	81.30	73.00	3594.10	32194.40	1687.40	880.80	69.00	0.00	0.00	0.00		
9	0.00	1708.90	53.90	86.10	2795.40	19839.30	1357.30	1884.60	65.10	0.00	0.00	0.00		
10	0.00	2864.90	50.30	897.70	2207.40	9481.30	1001.50	1377.10	57.50	0.00	0.00	0.00		
11	0.00	914.70	38.20	7296.10	1884.60	5462.00	718.70	847.40	53.90	0.00	0.00	0.00		
12	0.00	406.40	38.20	6559.30	2263.10	3670.40	642.40	599.10	46.90	0.00	0.00	0.00		
13	0.00	285.10	43.50	2043.60	1806.90	2557.30	1357.30	530.30	38.20	0.00	0.00	0.00		
14	0.00	199.50	267.90	814.50	1602.30	1858.60	1477.90	441.70	35.60	0.00	0.00	0.00		
15	0.00	146.00	1221.50	557.50	2070.60	1687.40	1001.50	352.00	35.60	0.00	0.00	0.00		
16	0.00	106.20	750.20	465.90	2692.40	1806.90	718.70	352.00	33.10	0.00	0.00	0.00		
17	0.00	91.00	983.90	453.80	2263.10	2935.00	571.20	322.70	28.30	0.00	0.00	0.00		
18	0.00	96.00	1377.10	453.80	1498.40	2392.20	465.90	285.10	23.80	0.00	0.00	0.00		
19	0.00	133.70	1073.00	880.80	949.00	1781.30	453.80	259.90	16.40	0.00	0.00	0.00		
20	0.00	172.00	672.50	1644.60	2524.00	1357.30	441.70	259.90	16.40	0.00	0.00	0.00		
21	0.00	172.00	429.80	1910.80	9866.80	1054.90	418.00	244.20	16.40	0.00	0.00	0.00		
22	0.00	158.80	199.50	1498.40	26681.70	1054.90	406.40	229.00	16.40	0.00	0.00	0.00		
23	0.00	158.80	152.40	1109.40	12687.30	1165.00	453.80	221.40	13.30	0.00	0.00	0.00		
24	0.00	116.90	116.90	1990.10	4060.80	1755.80	1037.00	221.40	9.10	0.00	0.00	0.00		
25	0.00	91.00	111.50	7524.50	2016.80	2760.90	2830.10	229.00	3.90	0.00	0.00	0.00		
26	0.00	61.30	192.50	3670.40	1806.90	10522.00	2359.70	206.70	3.20	0.00	0.00	0.00		
27	0.00	38.20	236.60	2097.70	1832.70	12308.40	1477.90	185.50	3.20	0.00	0.00	0.00		
28	0.00	38.20	165.30	1963.50	5056.70	5462.00	897.70	172.00	3.20	0.00	0.00	0.00		
29	0.00	33.10	116.90	3368.90	4590.10	3708.80	599.10	172.00	2.50	0.00		0.00		
30	0.00	38.20	101.10	5852.30	3443.40	2692.40	557.50	165.30	2.50	0.00		0.00		
31		38.20		3406.10	6662.80		465.90		2.50	0.00		0.00		
Total	0.00	10346.40	9121.40	58575.10	122245.50	428672.30	39112.40	13684.10	1315.50	8.30	0.00	0.00	683081.00	**Ton**
Mean	0.00	333.80	304.00	1889.50	3943.40	14289.10	1261.70	456.10	42.40	0.30	0.00	0.00		
Max	0.00	2864.90	1377.10	7524.50	26681.70	72438.20	4757.80	1884.60	152.40	1.90	0.00	0.00	72438.20	
Min	0.00	0.00	35.60	73.00	949.00	1054.90	406.40	165.30	2.50	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.9760
Remarks	Continued Sediment Station

$$QS = 0.12700\ QW^{1.19080}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	4.00	3.00	5.20	45.70	192.00	59.00	16.00	8.90	5.10	3.60	2.00		
2	1.20	3.60	2.40	5.10	43.60	205.30	52.50	15.40	8.30	4.90	3.40	2.00		
3	1.10	3.00	2.20	4.70	85.70	219.50	47.00	20.40	8.30	4.70	3.30	1.90		
4	1.10	4.50	2.00	3.60	74.00	189.50	41.90	33.40	8.30	4.70	3.30	1.90		
5	1.30	4.90	2.00	3.10	114.70	183.70	39.10	21.40	8.30	4.70	3.30	1.90		
6	1.60	4.50	1.60	3.30	105.60	259.50	41.00	22.10	8.10	4.70	3.30	1.70		
7	2.00	8.60	2.20	7.60	174.60	257.50	36.40	33.00	7.80	4.70	3.30	1.60		
8	2.20	13.20	2.90	49.60	90.00	158.60	32.60	43.60	7.60	4.70	3.10	1.60		
9	2.10	14.40	2.60	50.50	65.70	125.90	30.70	30.70	7.40	5.80	3.10	1.50		
10	1.70	7.80	3.00	33.40	57.50	94.40	29.30	24.90	7.40	12.60	3.00	1.50		
11	1.60	4.70	3.40	20.40	49.60	79.80	27.40	21.70	7.00	27.80	3.00	1.50		
12	2.00	3.60	3.10	14.70	42.70	70.80	28.20	19.80	7.00	16.00	3.00	1.50		
13	1.90	2.70	2.70	19.10	36.40	66.20	31.10	18.20	6.80	9.70	3.10	1.50		
14	1.60	2.30	4.00	58.00	58.50	57.00	26.30	16.90	6.60	7.60	3.10	1.90		
15	1.50	2.10	13.20	41.00	71.40	52.50	23.80	16.00	6.60	7.00	3.10	1.60		
16	1.50	2.30	11.30	26.00	51.50	59.00	22.40	15.40	6.20	6.60	2.90	1.40		
17	1.40	2.70	7.60	20.40	61.60	73.50	21.40	14.70	6.20	6.20	2.90	1.40		
18	1.30	2.30	6.60	28.50	55.00	56.50	20.80	14.40	6.00	5.80	2.40	1.60		
19	1.20	3.60	6.60	60.00	160.10	56.50	20.10	13.50	6.00	5.60	2.30	1.40		
20	1.20	5.80	6.20	87.30	90.00	61.60	20.10	13.20	6.00	5.20	2.40	1.40		
21	1.10	3.70	5.40	68.80	208.70	50.00	19.50	12.60	6.00	5.10	2.70	1.40		
22	1.10	3.00	4.70	57.00	130.90	66.70	19.10	12.40	5.80	5.10	2.60	1.40		
23	1.50	2.40	4.70	48.70	85.10	57.50	24.20	11.80	5.80	4.90	2.60	1.40		
24	1.40	2.00	7.40	49.60	68.80	75.60	28.90	11.30	5.60	4.70	2.40	1.60		
25	1.30	1.70	9.10	52.50	83.00	108.90	28.20	11.00	5.60	4.50	2.30	1.70		
26	1.30	1.40	8.90	70.30	63.10	87.30	24.20	10.50	5.40	4.40	2.20	2.70		
27	2.40	1.40	7.00	94.40	69.80	66.20	20.40	10.20	5.40	4.20	2.30	3.40		
28	2.30	1.40	4.50	166.20	63.60	57.00	18.50	9.70	5.40	4.00	2.10	3.30		
29	2.40	2.40	4.20	87.30	119.60	62.60	17.60	9.40	5.20	3.70		2.90		
30	3.30	4.90	3.40	58.50	492.00	88.90	17.20	9.40	5.10	3.60		2.40		
31		4.70		68.20	308.20		16.90		5.10	3.60		2.20		
Total	48.80	129.60	147.90	1363.00	3226.70	3240.00	885.80	533.00	205.20	201.90	80.10	57.20	10119.20	**Ton**
Mean	1.60	4.20	4.90	44.00	104.10	108.00	28.60	17.80	6.60	6.50	2.90	1.80		
Max	3.30	14.40	13.20	166.20	492.00	259.50	59.00	43.60	8.90	27.80	3.60	3.40	492.00	
Min	1.10	1.40	1.60	3.10	36.40	50.00	16.90	9.40	5.10	3.60	2.10	1.40	1.10	

WATER YEAR : 2014

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.
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 - 2014
Number of observation	330
R-Square	0.7030
Remarks	Continued Sediment Station

$$QS = 1.3550\ QW^{1.31800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1350.50	822.30	1260.50	979.00	2941.70	4179.50	2607.90	695.70	464.30	718.40	787.30	923.50		
2	1388.40	1114.00	1268.00	1238.30	2849.70	4803.10	2449.60	758.40	455.50	729.70	882.30	909.70		
3	1245.70	1449.60	1312.80	1411.30	2420.20	5598.10	2216.80	684.50	438.20	729.70	923.50	834.90		
4	1056.70	1668.70	1358.10	1388.40	2047.00	6950.20	1985.10	634.40	412.40	729.70	951.10	841.60		
5	1028.30	1949.90	1312.80	1230.90	1784.90	7528.80	1629.00	735.40	421.00	667.70	958.10	868.70		
6	1121.30	1958.70	1260.50	1282.90	1668.70	7649.20	1449.60	662.10	468.70	707.00	882.30	902.80		
7	1114.00	1923.60	1290.40	1268.00	1810.80	7408.90	1403.70	634.40	455.50	690.10	769.90	1049.60		
8	1063.80	1810.80	1350.50	1092.40	2313.10	7161.30	1335.40	585.30	459.90	673.30	746.90	1106.80		
9	1014.10	1621.10	1449.60	1245.70	3096.60	6615.50	1208.80	695.70	521.30	690.10	718.40	868.70		
10	986.00	1581.70	1566.00	1245.70	3454.50	5686.80	972.00	810.60	526.60	590.70	707.00	889.10		
11	944.20	1527.00	1828.00	1253.10	3411.90	4949.90	707.00	1114.00	617.90	628.90	639.90	896.00		
12	902.80	1472.70	2064.80	1411.30	3327.10	4476.70	718.40	1150.30	505.60	972.00	623.40	868.70		
13	979.00	1527.00	1810.80	1465.00	2982.80	4108.90	729.70	1099.60	639.90	1085.30	752.60	861.90		
14	1071.00	1581.70	1660.70	1534.80	2578.00	3957.00	746.90	1035.40	662.10	923.50	848.40	834.90		
15	1099.60	1597.40	1644.80	1636.90	2322.80	3795.00	651.00	775.70	558.40	793.10	972.00	816.40		
16	1014.10	1373.20	1597.40	1854.00	2245.60	3933.80	579.90	667.70	612.50	775.70	889.10	828.20		
17	1056.70	1216.10	1519.20	2150.00	2381.20	3991.90	596.10	639.90	617.90	781.50	937.30	828.20		
18	1164.80	1042.50	1573.90	2508.70	2758.40	3864.20	634.40	617.90	547.70	793.10	868.70	848.40		
19	1275.40	1049.60	1871.30	2538.40	2982.80	3852.60	617.90	617.90	563.80	741.20	951.10	828.20		
20	1194.10	1253.10	2255.20	2150.00	3253.30	3864.20	656.50	623.40	569.10	746.90	909.70	834.90		
21	1114.00	1668.70	2207.20	1985.10	3316.50	3634.60	651.00	596.10	558.40	752.60	909.70	828.20		
22	1049.60	1725.10	1967.50	1888.70	3003.40	3390.70	645.50	645.50	537.10	712.70	1021.20	810.60		
23	882.30	1692.60	1589.60	1742.10	3044.70	3274.30	764.10	542.40	468.70	724.00	944.20	787.30		
24	804.70	1668.70	1290.40	1573.90	3179.90	2839.50	882.30	490.70	563.80	701.40	889.10	798.90		
25	787.30	1684.60	1135.70	1327.90	2952.00	2597.90	1099.60	486.30	612.50	810.60	882.30	848.40		
26	729.70	1573.90	1092.40	1056.70	2607.90	2788.80	1312.80	486.30	612.50	667.70	902.80	804.70		
27	690.10	1418.90	1035.40	1305.30	2140.50	3024.00	1426.60	468.70	623.40	787.30	916.60	707.00		
28	656.50	1114.00	944.20	1573.90	1897.40	2982.80	1186.70	473.10	752.60	769.90	909.70	695.70		
29	639.90	902.80	916.60	1810.80	2169.00	3075.80	1573.90	459.90	861.90	746.90		729.70		
30	690.10	1121.30	828.20	2390.90	2738.20	2728.20	1099.60	459.90	787.30	724.00		684.50		
31		1194.10		2778.60	3284.90		775.70		752.60	656.50		662.10		
Total	30114.70	45305.40	44262.50	50318.70	82965.50	134712.20	35313.50	20347.20	17649.10	23221.20	24094.60	25998.30	534302.90	**Ton**
Mean	1003.80	1461.50	1475.40	1623.20	2676.30	4490.40	1139.10	678.20	569.30	749.10	860.50	838.70		
Max	1388.40	1958.70	2255.20	2778.60	3454.50	7649.20	2607.90	1150.30	861.90	1085.30	1021.20	1106.80	7649.20	
Min	639.90	822.30	828.20	979.00	1668.70	2597.90	579.90	459.90	412.40	590.70	623.40	662.10	412.40	

WATER YEAR : 2014

NAN RIVER BASIN

Nan River at Ban Hor Krai , Phichit (N.8A)

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

Ban Hor Krai **Amphoe** Bang Mun Nak **Changwat** Phichit

Drainge Area	31,472 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997-Cont'd
Actual Measurement	1997-Cont'd
Using Rating Curve Water Year	2014
Number of observation	30
R-Square	0.8060
Remarks	Continued Sediment Station

$$QS = 1.1210\ QW^{1.38500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1029.60	660.10	1117.00	884.70	3141.40	4555.60	3741.60	1573.10	610.30	753.20	646.40	868.40		
2	1075.40	724.90	1226.40	1029.60	3380.90	5636.00	3477.00	1535.40	597.00	701.60	734.30	868.40		
3	1226.40	995.70	1252.50	1200.40	3177.50	7320.40	3339.90	1565.50	564.30	646.40	841.40	841.40		
4	1098.50	1438.60	1331.90	1331.90	2668.90	10853.30	3057.80	1542.90	544.70	687.70	852.20	798.70		
5	956.40	1695.40	1338.50	1285.40	2326.20	11686.20	2799.20	1550.40	533.10	660.10	884.70	793.40		
6	967.60	1915.40	1246.00	1219.90	2191.10	12598.10	2472.80	1603.40	548.60	628.30	863.00	788.10		
7	1012.60	1891.50	1246.00	1193.90	2119.90	12637.50	2280.90	1372.60	548.60	646.40	798.70	846.80		
8	995.70	1851.80	1246.00	1142.50	2308.10	12244.60	2226.90	1168.10	521.50	632.80	729.60	945.30		
9	962.00	1710.90	1351.90	1098.50	2810.80	11430.90	2084.60	1181.00	517.60	632.80	692.30	973.20		
10	928.70	1558.00	1453.30	1200.40	3657.40	10039.80	1939.40	1259.10	556.50	632.80	655.50	836.00		
11	906.60	1490.50	1558.00	1193.90	4193.80	8335.60	1703.10	1626.30	533.10	552.60	637.30	830.60		
12	901.10	1423.80	1851.80	1174.60	4301.20	6887.80	1453.30	1979.70	556.50	637.30	588.10	846.80		
13	906.60	1351.90	1923.40	1272.20	4087.20	6124.60	1292.00	2200.00	540.80	912.10	601.40	819.90		
14	934.20	1394.50	1812.30	1345.20	3685.40	5655.90	1387.20	2308.10	614.80	956.40	720.30	798.70		
15	1012.60	1475.60	1734.10	1641.60	3141.40	5616.10	1252.50	2244.90	628.30	825.30	793.40	767.50		
16	984.40	1372.60	1633.90	1749.70	2915.90	5202.70	1123.40	2014.50	548.60	724.90	873.80	748.50		
17	962.00	1298.60	1558.00	1988.30	3022.20	5636.00	1035.30	1812.30	588.10	710.90	830.60	758.00		
18	1075.40	1161.70	1490.50	2244.90	3285.50	5202.70	956.40	1618.60	576.20	701.60	798.70	767.50		
19	1001.30	984.40	1618.60	2509.80	3954.20	5457.60	917.60	1512.90	548.60	753.20	825.30	772.30		
20	1087.00	984.40	1907.40	2593.70	4132.80	5596.20	901.10	1331.90	548.60	692.30	863.00	772.30		
21	1052.50	1206.90	2173.20	2290.00	4452.70	5144.40	868.40	1331.90	548.60	673.80	830.60	772.30		
22	1006.90	1520.40	2075.80	2111.10	4521.30	4590.10	836.00	1311.90	533.10	692.30	798.70	825.30		
23	912.10	1580.60	1899.50	1947.50	4193.80	5457.60	836.00	1292.00	521.50	673.80	868.40	830.60		
24	814.60	1550.40	1588.20	1812.30	4418.60	4728.60	928.70	1213.40	510.00	651.00	814.60	772.30		
25	767.50	1558.00	1292.00	1710.90	4285.80	3897.20	1087.00	1087.00	544.70	619.30	841.40	814.60		
26	734.30	1542.90	1206.90	1497.90	3897.20	3477.00	1278.80	825.30	584.10	580.10	846.80	836.00		
27	669.30	1409.10	1174.60	1394.50	3285.50	3685.40	1565.50	720.30	580.10	628.30	868.40	788.10		
28	628.30	1278.80	1087.00	1626.30	2718.20	3783.80	1749.70	651.00	548.60	739.10	879.30	758.00		
29	605.90	995.70	1024.00	1939.40	2556.30	4850.70	1734.10	592.50	588.10	710.90		724.90		
30	601.40	945.30	945.30	2164.30	2951.20	4209.10	1963.50	556.50	632.80	696.90		683.10		
31		1052.50		2799.20	3657.40		1718.60		623.80	669.30		646.40		
Total	27816.90	42020.90	44364.00	50594.50	105439.80	202541.50	54008.30	42582.50	17441.20	21423.50	21978.2 2	4893.40	655104.60	**Ton**
Mean	927.20	1355.50	1478.80	1632.10	3401.30	6751.40	1742.20	1419.40	562.60	691.10	784.90	803.00		
Max	1226.40	1915.40	2173.20	2799.20	4521.30	12637.50	3741.60	2308.10	632.80	956.40	884.70	973.20	12637.50	
Min	601.40	660.10	945.30	884.70	2119.90	3477.00	836.00	556.50	510.00	552.60	588.10	646.40	510.00	

WATER YEAR : 2014

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	2014
Number of observation	30
R-Square	0.8920
Remarks	Continued Sediment Station

$$QS = 1.2030\ QW^{1.67900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	2.20	24.40	117.80	141.40	4425.80	874.00	152.30	25.70	5.60	1.70	1.50		
2	1.00	4.50	23.70	60.40	97.50	4775.50	868.80	108.10	23.70	5.20	1.70	1.40		
3	1.00	3.20	29.30	32.30	425.30	5331.40	1080.10	92.70	23.00	4.90	1.70	1.30		
4	0.90	6.80	27.20	23.70	281.30	3330.10	767.20	84.70	22.40	4.50	1.60	1.20		
5	1.30	6.40	13.40	17.30	231.90	1982.80	530.90	91.60	21.70	4.20	1.60	1.10		
6	2.00	3.20	6.80	13.40	190.80	1485.60	482.50	105.30	20.40	4.20	1.60	1.10		
7	2.80	3.50	4.90	11.80	354.10	1365.50	351.30	167.30	19.80	3.90	1.50	1.00		
8	2.40	2.20	12.90	6.80	1262.90	1784.30	307.50	167.30	19.20	3.50	1.50	1.00		
9	2.20	2.00	16.80	6.40	1407.40	1485.60	215.50	211.00	18.50	3.20	1.50	0.90		
10	2.00	2.10	25.10	17.30	1595.00	1303.50	186.40	193.00	17.30	3.10	1.50	0.90		
11	1.90	2.00	19.80	27.20	2173.00	1324.00	222.50	117.80	16.80	4.50	1.50	0.90		
12	1.50	1.90	21.10	21.70	921.50	868.80	566.40	92.70	15.60	4.50	1.50	0.80		
13	1.40	1.70	16.20	24.40	664.80	959.20	340.10	83.60	15.00	4.50	1.40	1.40		
14	2.80	1.50	11.30	15.60	1572.90	937.60	190.80	75.80	13.90	4.50	1.40	1.30		
15	2.10	1.30	16.20	167.30	1609.80	900.30	149.10	65.40	13.40	4.90	1.60	1.50		
16	1.90	1.20	25.70	175.70	2377.90	807.30	129.40	59.40	12.30	4.90	1.60	1.50		
17	6.40	1.10	23.70	354.10	4425.80	1862.40	117.80	53.60	11.30	4.20	1.60	1.40		
18	2.90	1.50	60.40	508.30	1730.40	975.50	108.10	50.90	10.80	3.50	1.50	1.30		
19	2.40	2.40	58.40	302.20	802.20	1662.20	102.60	45.50	9.90	3.20	1.70	1.30		
20	1.90	2.10	35.40	889.80	512.10	822.50	95.10	42.90	9.40	3.10	1.70	1.20		
21	4.90	2.90	24.40	634.20	595.70	534.70	130.90	39.50	8.90	2.90	1.70	1.10		
22	3.20	27.20	17.90	331.80	986.40	409.20	204.10	37.90	8.50	2.60	1.60	1.10		
23	2.40	17.30	15.00	182.10	953.80	348.40	359.70	35.40	8.00	2.50	1.50	1.00		
24	2.00	8.00	16.20	138.40	530.90	458.40	271.20	33.90	7.60	2.40	1.40	1.40		
25	2.10	3.90	15.00	74.80	342.90	817.40	186.40	33.10	7.20	2.40	1.40	13.40		
26	1.90	2.80	15.60	201.90	400.30	550.00	310.20	31.60	7.20	2.20	1.60	36.20		
27	1.70	2.60	10.30	180.00	515.80	1324.00	229.60	29.30	6.80	2.10	1.50	15.00		
28	2.10	6.00	6.80	340.10	997.40	981.00	141.40	28.60	6.80	2.10	1.50	6.00		
29	2.10	12.30	5.60	201.90	1176.60	953.80	125.00	27.20	6.40	2.00		2.80		
30	2.00	60.40	13.90	236.70	2233.70	1170.10	184.30	26.40	6.40	1.90		2.20		
31		23.70		268.60	11826.70		136.90		6.00	1.90		1.90		
Total	66.10	219.90	613.40	5584.00	43338.20	45936.90	9965.80	2383.80	419.90	109.10	43.60	106.10	108786.80	**Ton**
Mean	2.20	7.10	20.40	180.10	1398.00	1531.20	321.50	79.50	13.50	3.50	1.60	3.40		
Max	6.40	60.40	60.40	889.80	11826.70	5331.40	1080.10	211.00	25.70	5.60	1.70	36.20	11826.70	

WATER YEAR : 2014

NAN RIVER BASIN

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

Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

Ban Nong Krathao **Amphoe** Nakhon Thai **Changwat** Phitsanulok

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	2000-2014
Number of observation	208
R-Square	0.7465
Remarks	Continued Sediment Station

$$QS = 5.0642\ QW^{1.36150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	66.00	121.20	98.30	1052.90	690.70	3953.90	2049.30	482.20	55.30	209.60	114.40	86.60		
2	69.10	118.80	90.50	227.90	640.90	4090.30	1772.20	374.30	52.40	209.60	100.20	86.60		
3	77.30	121.20	79.10	206.60	810.80	4557.00	1324.10	255.60	50.80	203.70	100.20	84.70		
4	75.60	126.00	59.90	183.30	1744.80	4877.20	1547.60	203.70	49.40	197.80	98.30	86.60		
5	177.60	148.40	19.80	67.60	1192.30	5257.90	1060.00	143.30	46.50	194.90	90.50	88.60		
6	351.20	158.60	19.80	39.60	1324.10	5093.80	1067.10	245.10	43.70	192.00	84.70	88.60		
7	135.80	153.50	72.50	27.80	1672.40	4267.50	951.50	863.80	42.30	192.00	81.00	92.40		
8	128.50	153.50	100.20	17.40	2840.30	3621.10	269.80	713.20	39.60	194.90	79.10	90.50		
9	118.80	138.30	150.90	29.10	2911.60	3147.70	552.80	753.00	35.50	200.70	77.30	86.60		
10	110.30	135.80	1154.20	52.40	2692.20	2874.80	459.20	718.80	32.90	203.70	72.50	86.60		
11	108.30	130.90	510.10	156.00	2806.00	2059.50	1411.20	370.40	29.10	209.60	88.60	112.30		
12	108.30	121.20	505.40	273.40	1998.60	1672.40	1316.20	437.90	29.10	215.50	86.60	123.60		
13	116.40	116.40	668.40	135.80	1169.40	2446.40	938.80	231.30	26.60	221.50	84.70	128.50		
14	123.60	118.80	197.80	463.80	932.50	3312.00	646.30	169.20	31.50	221.50	84.70	128.50		
15	116.40	121.20	153.50	572.10	1253.80	3608.10	442.00	143.30	38.20	203.70	88.60	130.90		
16	116.40	116.40	133.40	231.30	2523.90	4031.70	390.00	133.40	45.10	186.20	92.40	123.60		
17	118.80	114.40	477.60	241.70	6179.40	4557.00	339.70	123.60	45.10	177.60	102.20	102.20		
18	116.40	114.40	621.00	646.30	5312.90	3793.10	284.20	116.40	48.00	172.00	130.90	106.20		
19	114.40	158.60	429.80	591.50	4168.80	3337.50	295.10	106.20	43.70	166.40	126.00	102.20		
20	116.40	156.00	126.00	685.10	3388.60	3452.80	231.30	98.30	43.70	133.40	123.60	98.30		
21	116.40	143.30	92.40	576.90	3210.60	2557.40	358.80	88.60	38.20	128.50	128.50	102.20		
22	116.40	135.80	70.80	707.60	3905.50	1556.40	358.80	84.70	29.10	138.30	126.00	133.40		
23	118.80	138.30	49.40	562.40	3375.80	1261.60	374.30	81.00	19.80	118.80	126.00	169.20		
24	112.30	130.90	46.50	351.20	2100.40	1468.70	433.80	77.30	15.20	118.80	123.60	194.90		
25	110.30	121.20	81.00	339.70	1161.80	3261.20	378.20	74.00	13.70	116.40	116.40	209.60		
26	110.30	20.60	66.00	317.20	957.90	3160.30	446.00	67.60	15.90	112.30	112.30	186.20		
27	110.30	19.00	46.50	1316.20	1486.20	3047.70	351.20	66.00	17.40	108.30	110.30	166.40		
28	114.40	19.80	45.10	1591.80	1324.10	2840.30	277.00	62.90	18.20	98.30	110.30	135.80		
29	118.80	29.10	43.70	1918.10	1918.10	2501.70	221.50	59.90	18.20	96.30		123.60		
30	121.20	306.10	336.00	1468.70	2624.50	1988.50	284.20	56.80	17.40	104.20		135.80		
31		224.50		970.70	2806.00		473.00		18.20	100.20		143.30		
Total	3614.80	3932.20	6545.60	16022.10	71124.90	97655.50	21305.20	7401.80	1049.80	5146.70	2859.90	3734.50	240393.00	**Ton**
Mean	120.50	126.80	218.20	516.80	2294.40	3255.20	687.30	246.70	33.90	166.00	102.10	120.50		
Max	351.20	306.10	1154.20	1918.10	6179.40	5257.90	2049.30	863.80	55.30	221.50	130.90	209.60	6179.40	
Min	66.00	19.00	19.80	17.40	640.90	1261.60	221.50	56.80	13.70	96.30	72.50	84.70	13.70	

WATER YEAR : 2014

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	1994-Cont'd
Actual Measurement	1994-Cont'd
Using Rating Curve Water Year	2001-2014
Number of observation	255
R-Square	0.7210
Remarks	Continued Sediment Station

$$QS = 2.5930\ QW^{1.40500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	8.50	17.40	19.80	70.00	570.60	226.30	101.50	19.80	10.40	7.40	7.40		
2	3.60	8.10	18.80	35.80	49.00	527.10	191.40	101.50	18.80	9.90	7.80	7.10		
3	4.20	10.70	17.40	36.40	43.70	752.70	264.10	77.30	18.30	9.60	8.10	7.10		
4	5.70	27.00	11.60	27.00	36.40	843.70	233.60	68.30	17.90	9.90	8.10	6.70		
5	8.50	19.80	11.60	16.50	30.40	859.20	136.30	65.00	17.40	9.60	8.10	6.40		
6	9.60	14.60	12.90	12.00	35.80	957.80	116.70	104.60	17.40	8.80	7.80	6.10		
7	8.50	13.30	12.00	10.70	56.80	929.80	113.20	93.20	16.90	9.20	7.40	5.70		
8	7.80	10.70	14.60	11.10	75.30	839.80	90.10	79.20	16.50	9.20	7.10	5.40		
9	8.50	10.70	14.60	12.90	99.40	591.20	88.10	86.10	15.60	9.20	7.40	6.10		
10	7.80	10.70	12.90	20.30	112.10	376.10	74.40	77.30	15.60	9.90	7.40	6.10		
11	7.10	9.90	11.60	49.00	91.20	330.00	70.80	64.10	15.10	12.90	7.80	6.10		
12	6.40	7.80	12.40	43.70	61.70	260.20	88.10	57.60	14.60	14.20	7.40	5.70		
13	5.70	7.10	13.80	36.40	65.80	196.10	39.60	52.90	14.20	13.80	7.40	5.70		
14	6.70	7.40	15.60	31.50	63.30	163.40	49.00	48.20	13.30	11.10	7.40	6.10		
15	7.40	7.10	15.10	41.50	64.10	209.40	43.00	46.70	12.90	10.70	8.50	6.10		
16	7.40	6.70	71.70	83.10	246.80	344.50	53.70	44.50	12.90	9.90	8.80	5.70		
17	7.10	6.40	65.80	76.30	906.10	487.40	45.20	40.20	12.90	9.20	9.20	4.80		
18	6.40	6.10	62.50	43.00	1059.40	217.80	39.60	33.40	11.60	9.20	8.50	3.90		
19	5.70	9.20	47.50	30.40	949.80	315.70	47.50	29.80	11.60	8.80	9.20	3.90		
20	5.40	9.20	45.20	27.60	561.80	250.60	34.00	31.50	11.10	8.50	8.80	3.90		
21	8.50	14.20	40.20	30.40	336.20	179.40	59.20	29.20	11.60	8.50	8.50	3.60		
22	8.80	10.70	19.30	29.80	325.90	141.40	60.00	27.60	11.10	8.10	8.10	4.80		
23	8.10	8.80	12.90	28.10	185.40	112.10	113.20	26.40	11.10	8.10	8.10	7.80		
24	6.70	7.10	10.70	40.20	127.60	351.10	113.20	21.80	11.10	8.50	7.80	9.60		
25	6.10	6.40	8.80	49.00	103.60	267.90	124.00	20.30	11.10	8.50	7.40	9.90		
26	6.10	7.10	8.80	83.10	126.40	170.60	119.10	20.80	11.10	8.50	7.40	8.80		
27	6.10	7.40	9.60	91.20	138.90	125.20	84.10	22.80	11.60	8.10	7.40	7.80		
28	5.70	5.70	9.60	101.50	211.00	175.00	70.80	20.80	11.10	7.80	7.10	7.10		
29	5.70	23.40	14.60	84.10	219.50	269.90	74.40	19.30	10.70	7.40		6.70		
30	5.70	53.70	9.60	60.90	351.10	264.10	147.80	18.80	10.40	7.40		6.40		
31		38.30		79.20	668.90		122.70		10.40	7.40		6.40		
Total	200.60	393.80	649.10	1342.50	7473.40	12079.80	3133.20	1530.70	425.70	292.30	221.40	194.90	27937.40	**Ton**
Mean	6.70	12.70	21.60	43.30	241.10	402.70	101.10	51.00	13.70	9.40	7.90	6.30		
Max	9.60	53.70	71.70	101.50	1059.40	957.80	264.10	104.60	19.80	14.20	9.20	9.90	1059.40	
Min	3.60	5.70	8.80	10.70	30.40	112.10	34.00	18.80	10.40	7.40	7.10	3.60	3.60	

WATER YEAR : 2014

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	2014
Number of observation	28
R-Square	0.7935
Remarks	Continued Sediment Station

$$QS = 9.6653\ QW^{1.43280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	0.90	1.60	166.80	78.70	1561.80	175.00	242.50	19.60	7.50	3.00	7.50		
2	1.00	0.80	222.60	50.00	165.20	400.80	285.00	59.90	19.00	7.30	3.00	7.30		
3	0.80	0.80	62.80	21.70	446.30	1561.80	246.60	50.70	18.60	7.30	0.00	7.00		
4	0.70	0.80	4.20	37.00	300.10	1866.70	190.20	46.00	18.30	7.00	2.60	6.80		
5	22.10	0.80	2.20	21.40	408.90	1446.10	372.50	45.30	18.30	6.80	2.40	6.50		
6	27.60	1.20	1.30	10.50	257.70	441.90	253.20	72.50	17.90	6.50	2.20	6.30		
7	2.40	5.60	11.40	8.00	228.40	158.70	136.90	421.00	17.60	6.30	2.10	6.00		
8	1.50	2.80	9.10	6.80	270.10	267.90	94.80	188.50	17.30	6.30	1.90	5.80		
9	1.40	2.80	1040.80	16.30	197.00	198.80	66.40	200.50	16.90	6.00	1.70	5.60		
10	1.30	1.30	188.50	14.10	388.90	310.00	384.70	170.10	16.60	5.80	12.90	5.30		
11	1.30	1.20	14.40	153.90	163.50	270.10	400.80	149.10	16.00	9.10	12.00	5.10		
12	1.20	1.00	17.60	52.80	93.70	200.50	450.30	114.10	14.70	8.80	11.70	4.90		
13	1.30	1.00	12.00	35.70	70.20	1845.70	193.60	102.60	12.60	8.60	11.40	4.60		
14	1.30	1.00	9.70	26.70	55.60	1163.50	106.00	70.20	10.50	8.30	11.10	4.20		
15	1.40	1.20	11.10	50.70	48.70	1255.20	89.30	38.80	9.90	8.00	0.60	4.00		
16	1.60	1.10	11.40	23.20	2334.30	2282.20	73.20	23.20	9.70	7.80	10.80	3.60		
17	1.50	0.80	210.90	40.80	1887.80	753.90	74.00	19.60	9.40	7.50	16.90	3.20		
18	1.30	9.70	38.80	70.20	238.50	257.70	67.90	17.90	9.10	7.30	17.90	2.60		
19	1.30	4.20	17.60	128.30	280.00	667.70	55.60	26.70	8.80	7.00	14.70	2.40		
20	1.30	5.80	14.70	198.80	193.60	295.10	65.70	23.90	8.60	6.50	14.10	2.20		
21	1.20	2.80	12.00	74.00	465.40	242.50	59.90	22.40	8.30	6.00	12.00	8.80		
22	1.10	2.20	11.40	70.20	470.80	188.50	50.00	21.40	8.00	5.80	10.20	16.30		
23	1.00	2.40	7.00	57.00	209.20	165.20	198.80	21.00	7.80	5.60	9.90	11.70		
24	1.00	1.40	6.80	78.70	143.10	262.60	94.80	19.60	7.80	5.30	9.70	165.20		
25	0.50	1.10	10.50	62.00	94.80	330.30	70.20	22.40	7.50	5.30	9.10	36.30		
26	7.30	8.00	7.00	55.60	157.10	246.60	62.80	22.10	7.50	5.10	7.80	65.00		
27	3.40	1.60	4.20	222.60	433.60	753.90	54.90	21.70	7.30	4.90	7.30	9.70		
28	1.40	1.50	3.80	78.70	236.70	340.80	46.60	21.40	7.00	4.60	7.30	6.50		
29	1.30	2.60	3.80	226.60	228.40	224.80	37.60	21.00	6.80	4.40		3.40		
30	1.30	0.50	470.80	207.40	214.80	191.90	32.50	21.00	6.80	4.20		1.60		
31		1.60		139.40	244.70		21.70		6.50	4.20		0.50		
Total	92.80	70.50	2440.00	2405.90	11005.80	20153.20	4511.50	2297.10	370.70	201.10	226.30	425.90	44200.80	**Ton**
Mean	3.10	2.30	81.30	77.60	355.00	671.80	145.50	76.60	12.00	6.50	8.10	13.70		
Max	27.60	9.70	1040.80	226.60	2334.30	2282.20	450.30	421.00	19.60	9.10	17.90	165.20	2334.30	
Min	0.50	0.50	1.30	6.80	48.70	158.70	21.70	17.90	6.50	4.20	0.00	0.50	0.00	

WATER YEAR : 2014

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	2014
Number of observation	35
R-Square	0.7415
Remarks	Continued Sediment Station

$$QS = 0.3503\ QW^{1.32700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	10.50	7.70	15.00	156.00	940.90	274.00	51.40	33.10	11.60	7.10	4.40		
2	2.20	8.30	7.70	16.20	161.10	983.40	214.00	51.40	33.10	11.60	6.60	3.90		
3	2.20	7.10	6.00	11.60	493.50	962.10	181.60	79.10	31.50	11.60	6.60	3.90		
4	2.20	8.90	3.90	12.70	517.40	962.10	173.80	119.90	31.50	11.60	6.00	3.90		
5	2.70	12.70	5.00	10.50	580.30	869.70	156.00	77.20	31.50	11.60	6.00	3.90		
6	3.30	12.70	7.10	9.50	548.60	1423.60	161.10	91.00	30.00	11.60	6.00	3.90		
7	3.30	34.70	7.70	41.20	594.40	966.40	138.70	117.60	27.00	11.60	5.50	3.90		
8	5.00	47.90	4.40	219.60	368.70	723.60	124.60	143.60	21.20	11.60	5.50	3.90		
9	3.90	81.10	6.60	148.60	300.80	545.10	113.10	95.30	21.20	15.00	5.50	3.30		
10	3.60	49.60	9.50	141.20	214.00	400.70	101.90	79.10	21.20	73.30	5.50	3.00		
11	3.60	15.00	11.60	117.60	184.20	319.00	97.50	60.30	21.20	83.00	5.00	3.00		
12	4.40	9.50	8.30	49.60	166.10	303.80	93.20	60.30	19.90	44.50	5.00	3.00		
13	3.90	8.30	9.50	113.10	106.30	276.90	91.00	64.00	18.70	36.30	5.00	2.70		
14	3.60	6.00	33.10	391.00	181.60	250.70	77.20	58.50	16.20	27.00	4.40	2.70		
15	3.30	5.00	46.20	117.60	214.00	222.40	75.20	56.70	16.20	24.00	4.40	2.70		
16	3.30	4.40	34.70	75.20	168.70	236.40	71.40	54.90	16.20	18.70	4.40	2.70		
17	3.30	5.50	28.50	51.40	230.80	192.20	69.50	53.10	16.20	17.40	5.00	2.70		
18	3.60	7.10	31.50	117.60	306.80	179.00	67.70	47.90	15.00	15.00	5.00	2.70		
19	3.00	31.50	25.50	268.10	945.10	315.90	67.70	44.50	15.00	15.00	5.00	2.70		
20	3.00	12.70	19.90	312.90	783.70	225.20	62.10	42.80	15.00	15.00	5.00	2.70		
21	2.70	10.50	13.90	291.80	1181.00	166.10	58.50	42.80	13.90	15.00	5.00	2.70		
22	3.00	7.70	8.30	208.50	649.30	300.80	62.10	41.20	13.90	13.90	5.00	2.70		
23	2.50	6.60	13.90	179.00	397.40	268.10	89.00	41.20	13.90	12.70	5.00	2.70		
24	2.50	4.40	33.10	274.00	365.60	346.70	104.10	39.50	13.90	9.50	5.00	3.30		
25	2.50	4.40	25.50	151.00	297.80	598.00	91.00	39.50	13.90	9.50	5.00	6.00		
26	2.50	3.60	17.40	184.20	378.20	407.10	77.20	37.90	13.90	8.90	4.40	6.60		
27	2.70	3.30	12.70	420.20	312.90	300.80	64.00	37.90	12.70	8.90	4.40	6.60		
28	3.60	3.90	11.60	601.60	279.90	247.90	58.50	36.30	12.70	8.90	4.40	6.60		
29	5.50	8.30	12.70	303.80	1232.40	242.10	56.70	36.30	12.70	8.90		6.00		
30	25.50	24.00	11.60	208.50	2817.30	322.00	53.10	36.30	12.70	8.30		4.40		
31		18.70		197.60	1418.70		53.10		12.70	8.30		3.90		
Total	118.90	473.90	475.10	5260.40	16552.60	14498.70	3178.60	1837.50	597.80	589.80	146.70	117.10	43847.10	**Ton**
Mean	4.00	15.30	15.80	169.70	534.00	483.30	102.50	61.30	19.30	19.00	5.20	3.80		
Max	25.50	81.10	46.20	601.60	2817.30	1423.60	274.00	143.60	33.10	83.00	7.10	6.60	2817.30	
Min	2.20	3.30	3.90	9.50	106.30	166.10	53.10	36.30	12.70	8.30	4.40	2.70	2.20	

WATER YEAR : 2014

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	2007 - 2014
Number of observation	229
R-Square	0.7404
Remarks	Continued Sediment Station

$$QS = 0.6226\ QW^{1.31500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	3.40	2.40	3.10	16.30	97.90	82.80	9.10	6.90	4.60	4.10	2.90		
2	1.20	6.00	2.00	3.10	49.60	103.40	49.60	9.10	6.90	4.60	4.10	2.60		
3	1.20	2.60	2.00	2.90	56.90	99.00	36.90	19.30	6.90	4.60	4.10	2.60		
4	1.30	2.00	1.30	2.90	112.40	99.00	28.10	23.90	6.90	4.60	3.90	2.60		
5	1.30	3.40	1.20	2.40	87.00	121.60	36.90	20.00	6.40	4.60	3.90	2.40		
6	1.80	7.30	0.00	2.40	44.70	469.40	33.90	20.00	6.40	4.60	3.90	2.40		
7	1.80	9.10	2.00	12.90	36.90	141.60	26.60	25.20	6.40	4.60	3.60	2.20		
8	1.50	8.70	2.00	49.60	29.50	100.10	25.20	14.90	6.40	4.60	3.60	2.20		
9	1.50	6.40	1.80	18.50	26.60	81.70	23.10	12.90	6.40	6.40	3.60	2.20		
10	1.80	3.60	1.80	15.60	29.50	74.40	21.50	11.50	6.00	10.90	3.60	2.00		
11	1.50	2.90	3.10	9.10	25.20	44.70	21.50	11.50	6.00	7.70	3.60	2.00		
12	0.00	2.20	2.40	9.10	17.10	40.00	20.00	10.90	6.00	7.30	3.60	2.00		
13	2.00	1.50	2.00	9.10	18.50	36.90	20.00	10.20	6.00	6.00	3.60	2.00		
14	1.30	1.00	2.40	46.30	146.50	32.40	15.60	9.60	6.00	5.20	3.60	1.80		
15	1.30	1.00	9.60	12.90	41.60	32.40	14.20	9.10	6.00	4.90	3.60	1.80		
16	1.30	0.80	6.90	10.90	29.50	29.50	14.20	9.10	5.60	4.90	3.60	1.80		
17	1.20	0.00	6.40	9.10	29.50	29.50	13.50	8.70	5.60	4.90	3.40	1.80		
18	1.20	0.00	6.00	13.50	389.50	32.40	12.90	8.70	5.60	4.90	3.40	1.80		
19	1.00	4.60	4.90	44.70	146.50	61.80	14.20	8.70	5.60	4.90	3.40	1.80		
20	1.00	3.60	4.40	28.10	100.10	33.90	12.90	8.70	5.20	4.60	3.40	1.50		
21	1.20	2.90	4.10	22.30	89.20	46.30	11.50	8.20	5.20	4.60	3.40	1.50		
22	1.00	2.00	0.60	16.30	54.50	9.60	11.50	8.20	5.20	4.60	3.10	1.50		
23	1.00	1.30	7.70	14.90	36.90	33.90	12.90	8.20	4.90	4.40	3.10	1.80		
24	0.80	1.30	19.30	19.30	26.60	322.10	14.20	8.20	4.90	4.40	3.10	2.60		
25	0.80	1.80	10.90	15.60	23.90	38.40	13.50	7.70	4.90	4.40	3.10	3.10		
26	2.60	1.80	7.30	15.60	44.70	90.20	12.90	7.30	4.90	4.40	3.10	3.10		
27	1.30	1.50	4.90	47.90	40.00	66.80	12.20	6.90	4.90	4.40	2.90	3.10		
28	1.80	1.20	4.40	47.90	112.40	56.90	10.20	6.90	4.90	4.40	2.90	2.90		
29	1.50	1.20	3.60	25.20	286.70	47.90	10.20	6.90	4.90	4.10		2.90		
30	1.50	1.50	3.40	17.10	221.10	74.40	10.20	6.90	4.90	4.10		2.40		
31		2.40		15.60	35.40		9.60		4.90	4.10		2.00		
Total	39.90	89.00	130.80	563.90	2404.80	2548.10	652.50	336.50	177.70	157.30	98.30	69.30	7268.10	**Ton**
Mean	1.30	2.90	4.40	18.20	77.60	84.90	21.00	11.20	5.70	5.10	3.50	2.20		
Max	2.60	9.10	19.30	49.60	389.50	469.40	82.80	25.20	6.90	10.90	4.10	3.10	469.40	
Min	0.00	0.00	0.00	2.40	16.30	9.60	9.60	6.90	4.90	4.10	2.90	1.50	0.00	

WATER YEAR : 2014

NAN RIVER BASIN

Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Noen Phoem.

Ban Noen Phoem **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge Area	152 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2001-Cont'd
Actual Measurement	2001-Cont'd
Using Rating Curve Water Year	2001-2014
Number of observation	186
R-Square	0.7431
Remarks	Continued Sediment Station

$$QS = 12.5382\ QW^{1.45210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.30	4.20	9.40	9.10	146.70	54.20	9.40	1.80	0.30	0.10	0.20		
2	0.30	0.30	7.20	6.90	219.90	400.30	104.60	8.40	1.80	0.20	0.10	0.20		
3	0.30	0.30	1.70	5.10	269.50	205.00	120.10	7.50	1.70	0.20	0.10	0.20		
4	0.30	0.60	0.70	4.70	40.20	787.00	46.90	6.90	1.70	0.20	0.00	0.20		
5	0.30	2.50	0.30	1.30	23.90	224.80	43.40	6.30	1.60	0.20	0.00	0.20		
6	0.30	10.80	1.90	0.60	21.70	148.70	44.20	10.80	1.60	0.10	0.00	0.10		
7	0.30	1.60	1.80	0.60	842.50	103.20	34.10	13.10	1.40	0.10	0.00	0.10		
8	0.30	0.60	15.40	0.40	303.70	89.10	29.00	11.50	1.40	0.10	0.00	0.10		
9	0.30	1.20	141.60	1.30	78.60	62.70	25.70	25.30	1.20	0.10	0.00	0.10		
10	0.30	1.00	26.90	9.10	200.20	58.80	22.80	10.40	1.20	0.20	0.00	0.10		
11	0.30	0.60	18.80	1.30	78.60	62.70	21.30	79.60	1.10	0.30	0.00	0.10		
12	0.30	0.30	317.10	0.60	44.20	42.60	52.20	12.50	1.10	0.60	0.00	0.10		
13	0.30	3.30	16.70	4.20	31.80	37.10	22.40	8.10	1.00	1.00	0.00	0.10		
14	0.30	0.70	7.20	60.60	29.00	297.40	18.80	6.60	0.90	0.70	0.00	0.10		
15	0.30	0.20	6.30	8.70	56.80	103.20	15.70	5.40	0.90	0.60	0.00	0.20		
16	0.30	0.10	2.60	17.10	681.10	219.90	14.40	4.50	0.80	0.40	0.00	0.20		
17	0.30	0.00	30.40	5.10	215.10	78.60	14.00	4.50	0.80	0.40	0.00	0.20		
18	0.30	0.00	81.80	2.50	99.00	59.70	12.50	3.90	0.70	0.20	0.10	0.20		
19	0.30	0.00	10.40	4.70	50.50	326.60	11.50	3.60	0.60	0.20	0.10	0.80		
20	0.30	1.70	5.00	6.90	29.00	66.00	10.10	3.60	0.60	0.10	0.10	4.70		
21	0.30	2.10	3.30	80.90	86.80	45.20	7.80	3.20	0.60	0.10	0.10	12.20		
22	0.30	1.30	1.90	92.80	154.20	37.10	21.30	2.80	0.60	0.10	0.20	15.40		
23	0.30	0.50	1.30	14.00	41.00	33.30	13.10	2.60	0.60	0.10	0.30	13.10		
24	0.30	0.10	1.90	10.40	23.90	1109.10	12.20	2.50	0.60	0.10	0.30	1.20		
25	0.30	0.00	3.90	5.70	17.10	195.90	16.30	2.40	0.40	0.10	0.20	0.60		
26	0.30	0.00	1.80	191.20	76.00	91.50	12.50	2.40	0.40	0.10	0.20	0.50		
27	0.30	0.40	7.80	34.80	47.70	169.90	10.40	2.20	0.40	0.10	0.20	0.40		
28	0.30	0.20	1.40	249.40	57.70	79.60	9.40	2.20	0.40	0.10	0.20	0.20		
29	0.30	138.20	0.80	24.60	80.90	63.90	8.40	2.10	0.30	0.10		0.20		
30	0.30	86.80	44.20	44.20	120.10	63.90	15.70	1.90	0.30	0.10		0.20		
31		75.10		19.60	117.20		7.20		0.30	0.10		0.20		
Total	9.00	330.80	766.30	918.70	4147.00	5409.50	852.20	266.20	28.80	7.30	2.30	52.40	12790.50	**Ton**
Mean	0.30	10.70	25.50	29.60	133.80	180.30	27.50	8.90	0.90	0.20	0.10	1.70		
Max	0.30	138.20	317.10	249.40	842.50	1109.10	120.10	79.60	1.80	1.00	0.30	15.40	1109.10	
Min	0.30	0.00	0.30	0.40	9.10	33.30	7.20	1.90	0.30	0.10	0.00	0.10	0.00	

WATER YEAR : 2014

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.
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	2005-2014
Number of observation	156
R-Square	0.8894
Remarks	Continued Sediment Station

$$QS = 4.7776\ QW^{1.41640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	47.20	5.90	5.90	45.60	124.60	142.60	110.70	63.90	38.70	27.00	26.70	13.50		
2	29.20	3.80	2.60	43.20	76.40	734.90	117.60	57.10	38.70	28.60	26.70	12.70		
3	23.10	2.30	2.30	42.30	60.40	2114.10	124.60	50.40	38.70	26.70	26.70	12.30		
4	17.70	3.50	2.30	38.70	53.70	363.70	81.40	47.20	38.70	26.00	26.70	11.80		
5	238.20	2.90	2.30	34.40	78.30	271.30	65.60	47.20	38.70	24.00	26.70	11.50		
6	225.50	2.30	2.30	34.40	67.40	256.40	185.50	50.40	38.70	22.40	26.70	11.20		
7	37.10	2.90	10.30	32.70	178.80	206.00	97.40	63.90	37.80	24.00	26.70	11.10		
8	203.80	2.30	9.00	37.00	114.20	107.30	76.40	50.40	37.80	25.70	26.70	10.60		
9	1.80	2.00	3.80	31.90	97.40	76.40	71.00	50.40	37.00	27.80	26.70	10.50		
10	3.50	1.80	2.30	37.00	503.50	58.70	71.00	50.40	37.00	31.90	26.70	9.80		
11	2.90	1.80	2.30	63.90	117.60	76.40	62.20	53.70	33.60	38.70	25.70	9.20		
12	2.90	4.40	2.30	58.70	69.20	71.00	72.80	50.40	31.90	37.80	25.70	8.60		
13	3.50	1.80	2.30	58.70	50.40	53.70	124.60	47.20	31.10	38.70	25.70	8.40		
14	2.90	1.80	2.30	81.40	44.10	50.40	84.50	58.70	30.20	36.10	25.70	8.00		
15	8.30	1.80	2.30	110.70	50.40	47.20	67.40	40.50	33.60	35.20	25.70	7.60		
16	13.80	1.80	2.30	76.40	62.20	139.00	67.40	38.70	32.70	33.60	25.70	7.00		
17	9.00	1.80	222.40	63.90	192.20	128.20	63.90	37.00	31.90	33.60	25.70	6.90		
18	7.70	1.80	38.50	84.50	518.20	107.30	60.40	37.80	31.90	31.90	25.00	6.70		
19	2.30	1.80	11.70	63.90	548.00	90.90	53.70	40.50	27.80	31.10	25.00	6.40		
20	3.20	1.80	5.90	63.90	256.40	90.90	57.10	38.70	26.00	30.20	25.00	6.10		
21	3.20	1.80	2.30	69.20	159.10	76.40	60.40	40.50	26.00	31.90	25.00	5.90		
22	3.20	1.80	2.30	60.40	114.20	67.40	63.90	40.50	26.40	29.40	25.00	5.40		
23	3.20	1.80	2.30	58.70	67.40	67.40	165.60	37.80	26.70	27.00	25.00	5.40		
24	6.50	1.80	2.30	50.40	58.70	67.40	460.20	36.10	26.00	26.00	25.00	5.40		
25	8.30	1.80	3.50	42.30	53.70	67.40	2306.50	35.20	25.00	25.40	25.00	5.40		
26	2.90	1.80	1.00	44.10	53.70	63.90	256.40	35.20	26.70	24.70	25.00	5.40		
27	3.20	1.80	10.80	58.70	50.40	63.90	146.30	35.20	29.40	24.00	25.00	5.40		
28	3.20	1.80	19.30	58.70	142.60	63.90	142.60	35.20	30.20	22.80	25.00	5.50		
29	7.70	117.30	26.70	58.70	142.60	58.70	142.60	34.40	30.20	21.80		5.50		
30	4.40	98.30	26.70	58.70	142.60	58.70	142.60	34.40	29.40	21.80		5.50		
31		87.00		58.70	142.60		131.70		27.80	25.00		5.50		
Total	929.40	367.30	432.60	1721.80	4391.00	5841.50	5734.00	1339.00	996.30	890.80	721.90	250.20	23615.80	**Ton**
Mean	31.00	11.80	14.40	55.50	141.60	194.70	185.00	44.60	32.10	28.70	25.80	8.10		
Max	238.20	117.30	222.40	110.70	548.00	2114.10	2306.50	63.90	38.70	38.70	26.70	13.50	2306.50	
Min	1.80	1.80	1.00	31.90	44.10	47.20	53.70	34.40	25.00	21.80	25.00	5.40	1.00	

WATER YEAR : 2014

NAN RIVER BASIN

Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

Ban Kaeng Bua Kham **Amphoe** Chat Trakan **Changwat** Phitsanulok

Drainge Area	3,120 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2012-Cont'd
Actual Measurement	2012-Cont'd
Using Rating Curve Water Year	2014
Number of observation	28
R-Square	0.8720
Remarks	Continued Sediment Station

$$QS = 2.1930\ QW^{1.54200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	4.50	158.80	274.50	672.90	6977.20	2940.80	790.10	104.50	26.20	6.60	9.00		
2	1.30	3.90	98.90	504.20	504.20	7772.60	2518.70	655.30	98.90	24.20	5.90	5.20		
3	1.00	3.90	165.30	353.30	491.00	8195.20	2438.70	520.30	98.90	24.20	5.90	3.30		
4	0.90	3.30	139.80	202.70	586.40	8280.60	2359.60	389.30	93.50	22.30	5.90	3.90		
5	10.40	3.90	54.20	133.60	711.20	8538.90	1839.20	365.10	88.10	22.30	5.20	2.70		
6	13.50	3.90	45.00	83.00	620.50	9241.00	1380.90	520.30	83.00	20.40	5.20	2.20		
7	110.20	4.50	39.30	45.00	916.60	8625.60	1201.10	637.80	77.80	18.60	4.50	2.00		
8	45.00	4.50	104.50	36.60	1737.50	8975.40	851.20	830.60	68.00	15.10	4.50	2.00		
9	18.60	5.20	121.60	28.70	2165.80	7940.70	672.90	672.90	58.60	16.80	3.90	1.40		
10	10.40	5.90	183.80	33.90	2281.30	5532.50	536.50	620.50	58.60	22.30	3.90	1.30		
11	7.40	6.60	377.20	98.90	2242.60	4068.60	692.00	536.50	54.20	28.70	5.20	1.30		
12	5.90	7.40	202.70	274.50	1942.90	3212.80	939.30	426.40	51.10	39.30	4.50	3.30		
13	3.90	7.40	158.80	253.20	1151.90	1942.90	1127.50	401.50	48.00	48.00	5.20	2.70		
14	8.20	8.20	253.20	212.60	770.10	1873.60	894.10	307.40	45.00	48.00	5.20	2.70		
15	9.00	8.20	127.60	353.30	750.30	2438.70	553.00	253.20	42.10	39.30	8.20	3.30		
16	22.30	9.00	193.20	491.00	9241.00	2518.70	439.00	232.50	42.10	33.90	11.90	2.20		
17	20.40	9.00	232.50	439.00	7608.70	4699.10	377.20	202.70	39.30	28.70	10.40	1.70		
18	18.60	8.20	401.50	296.20	7055.10	4460.80	341.70	183.80	39.30	24.20	11.90	1.60		
19	15.10	7.40	491.00	307.40	7369.60	4699.10	296.20	165.30	39.30	20.40	10.40	1.40		
20	13.50	7.40	274.50	193.20	7290.60	4121.10	285.20	158.80	36.60	18.60	31.20	1.40		
21	51.10	7.40	98.90	353.30	5466.30	3309.80	263.60	152.40	33.90	15.10	22.30	1.40		
22	26.20	8.20	83.00	365.10	4226.80	2478.60	285.20	139.80	33.90	11.90	24.20	1.70		
23	18.60	9.00	63.30	377.20	3407.70	1550.50	871.90	133.60	31.20	11.90	22.30	6.60		
24	13.50	10.40	48.00	318.70	2852.00	2399.00	894.10	133.60	31.20	11.90	20.40	10.40		
25	8.20	11.90	54.20	464.70	2015.00	2808.00	1464.80	127.60	31.20	11.90	15.10	31.20		
26	5.90	13.50	54.20	377.20	1493.20	3030.50	1579.40	121.60	28.70	10.40	13.50	88.10		
27	3.90	15.10	54.20	401.50	1176.40	2808.00	1301.80	115.80	28.70	9.00	13.50	51.10		
28	5.20	16.80	58.60	1031.90	1942.90	2896.30	711.20	110.20	28.70	9.00	9.00	36.60		
29	7.40	18.60	88.10	1008.40	2896.30	3030.50	491.00	110.20	26.20	8.20		24.20		
30	5.20	16.80	318.70	962.10	6977.20	3309.80	553.00	110.20	26.20	7.40		15.10		
31		15.10		830.60	6977.20		620.50		24.20	7.40		15.10		
Total	482.40	265.10	4744.60	11105.50	95541.20	141736.10	31721.30	10125.30	1591.00	655.60	295.90	336.10	298600.10	**Ton**
Mean	16.10	8.60	158.20	358.20	3082.00	4724.50	1023.30	337.50	51.30	21.10	10.60	10.80		
Max	110.20	18.60	491.00	1031.90	9241.00	9241.00	2940.80	830.60	104.50	48.00	31.20	88.10	9241.00	
Min	0.90	3.30	39.30	28.70	491.00	1550.50	263.60	110.20	24.20	7.40	3.90	1.30	0.90	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1950-Cont'd
Actual Measurement	1950-Cont'd
Using Rating Curve Water Year	1965-2014
Number of observation	93
R-Square	0.8300
Remarks	Continued Sediment Station

$$QS = 2.0433\ QW^{1.14400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	295.00	279.70	212.70	193.90	181.50	2774.80	3603.10	1476.30	353.30	228.70	219.00	212.70		
2	282.80	285.80	200.10	171.30	219.00	3302.90	3774.90	1380.40	382.10	238.90	221.10	214.80		
3	264.60	276.70	185.60	151.00	244.00	3642.70	4206.90	1142.70	356.90	231.20	219.00	216.90		
4	267.60	264.60	163.10	143.00	273.60	4618.50	4192.20	991.60	346.20	228.70	214.80	221.10		
5	241.40	267.60	145.00	141.00	264.60	5210.10	3748.40	906.10	233.80	236.30	221.10	214.80		
6	238.90	246.50	133.10	139.00	285.80	5918.60	3228.30	850.40	221.10	233.80	223.60	221.10		
7	231.20	270.60	127.20	135.10	288.90	5936.50	2796.80	868.40	223.60	236.30	223.60	210.60		
8	233.80	246.50	129.10	137.00	276.70	6171.70	2774.80	1011.50	233.80	241.40	223.60	214.80		
9	236.30	252.50	127.20	147.00	264.60	6414.00	2840.90	1078.10	231.20	223.60	219.00	221.10		
10	267.60	246.50	133.10	147.00	258.50	6547.50	2686.80	1200.90	231.20	221.10	216.90	221.10		
11	276.70	252.50	155.00	151.00	298.00	6208.90	2730.80	1727.80	223.60	226.10	214.80	221.10		
12	267.60	261.60	151.00	151.00	645.10	5811.60	2512.10	2144.20	216.90	233.80	212.70	219.00		
13	273.60	273.60	165.20	147.00	991.60	5333.30	2215.10	2468.60	219.00	221.10	214.80	219.00		
14	285.80	276.70	161.10	157.10	1051.40	4851.00	1971.20	2643.00	208.50	221.10	214.80	221.10		
15	249.50	285.80	177.40	159.10	1011.50	4495.10	1867.70	2577.50	216.90	255.50	208.50	219.00		
16	276.70	285.80	185.60	159.10	1099.30	4148.30	1681.50	2490.40	223.60	258.50	204.30	219.00		
17	285.80	291.90	198.00	171.30	1215.50	3868.40	1618.00	2235.40	214.80	246.50	204.30	219.00		
18	282.80	241.40	187.70	161.10	1340.70	3629.50	1524.60	1999.50	214.80	252.50	202.20	219.00		
19	249.50	252.50	179.50	141.00	1452.30	3203.50	1340.70	1849.00	223.60	249.50	204.30	216.90		
20	233.80	276.70	169.20	155.00	1420.30	2829.90	1092.00	1524.60	214.80	249.50	206.40	208.50		
21	231.20	241.40	167.20	196.00	1516.60	2643.00	598.50	1277.40	214.80	261.60	210.60	206.40		
22	231.20	241.40	169.20	200.10	1709.30	2403.60	273.60	1024.80	221.10	264.60	212.70	212.70		
23	273.60	231.20	171.30	173.30	2065.90	2164.40	249.50	978.40	221.10	264.60	206.40	210.60		
24	255.50	233.80	187.70	179.50	2265.80	2018.50	252.50	767.00	219.00	270.60	202.20	202.20		
25	236.30	198.00	191.80	181.50	2501.20	2103.90	249.50	649.90	221.10	267.60	204.30	191.80		
26	264.60	191.80	206.40	189.80	2479.50	2094.40	270.60	514.70	216.90	255.50	208.50	200.10		
27	270.60	212.70	191.80	185.60	2425.30	2084.90	346.20	411.10	221.10	238.90	204.30	208.50		
28	276.70	185.60	198.00	173.30	2371.20	2436.10	702.30	403.80	221.10	228.70	216.90	208.50		
29	258.50	198.00	204.30	165.20	2225.20	2929.50	1208.20	382.10	221.10	221.10		208.50		
30	288.90	219.00	198.00	175.40	2184.70	3340.80	1404.30	393.00	231.20	221.10		196.00		
31		214.80		181.50	2425.30		1420.30		226.10	221.10		204.30		
Total	7828.10	7703.20	5171.60	5059.20	37252.90	119135.90	59382.30	39368.60	7424.30	7449.50	5954.70	6600.20	308330.50	**Ton**
Mean	260.90	248.50	172.40	163.20	1201.70	3971.20	1915.60	1312.30	239.50	240.30	212.70	212.90		
Max	295.00	291.90	212.70	200.10	2501.20	6547.50	4206.90	2643.00	382.10	270.60	223.60	221.10	6547.50	
Min	231.20	185.60	127.20	135.10	181.50	2018.50	249.50	382.10	208.50	221.10	202.20	191.80	127.20	

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

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

at 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaco.

Ban Bang Keao **Amphoe** Mueang **Changwat** Ang Thong

Drainge Area	Flood Plain
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2006-Cont'd
Actual Measurement	2006-Cont'd
Using Rating Curve Water Year	2011-2014
Number of observation	107
R-Square	0.8730
Remarks	Continued Sediment Station

$$QS = 0.7180\ QW^{1.34700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	616.10	562.70	488.70	459.80	376.10	3443.30	4820.60	1686.10	503.30	732.20	741.50	467.00		
2	608.40	608.40	467.00	382.90	445.60	4346.50	5139.60	1657.60	525.40	632.70	600.70	467.00		
3	695.60	677.50	410.50	382.90	481.40	4869.30	5691.40	1478.20	608.40	723.00	632.70	496.00		
4	704.70	695.60	445.60	355.90	518.00	6283.30	5972.60	1319.00	659.50	632.70	585.40	438.50		
5	686.50	641.60	355.90	355.90	570.30	7266.10	5564.70	1235.20	632.70	562.70	668.50	431.40		
6	686.50	723.00	291.50	313.50	616.10	8340.50	4651.00	1152.90	608.40	616.10	650.50	496.00		
7	600.70	585.40	308.00	349.20	641.60	8622.00	3888.10	1141.20	695.60	668.50	585.40	525.40		
8	555.20	532.80	349.20	342.50	686.50	8934.50	3780.90	1294.90	695.60	488.70	616.10	525.40		
9	481.40	445.60	410.50	355.90	668.50	9451.90	3866.60	1404.10	732.20	593.10	585.40	532.80		
10	510.60	577.80	330.30	355.90	641.60	9771.70	3653.30	1428.70	668.50	668.50	593.10	503.30		
11	474.20	488.70	330.30	445.60	659.50	9365.10	3717.00	1845.10	650.50	641.60	677.50	570.30		
12	376.10	382.90	342.50	417.40	769.40	8593.80	3443.30	2421.30	547.70	600.70	650.50	547.70		
13	382.90	445.60	335.90	431.40	1060.60	8005.90	2992.70	2736.80	518.00	650.50	641.60	532.80		
14	403.50	410.50	540.20	488.70	1235.20	7320.30	2648.10	3093.60	562.70	695.60	741.50	577.80		
15	532.80	510.60	608.40	547.70	1223.40	6677.30	2369.70	3134.30	577.80	713.90	641.60	540.20		
16	510.60	510.60	677.50	518.00	1235.20	6049.90	2166.20	2992.70	532.80	616.10	623.80	547.70		
17	570.30	496.00	623.80	452.70	1331.10	5413.70	1729.10	2683.50	600.70	704.70	641.60	481.40		
18	650.50	510.60	616.10	445.60	1478.20	4796.20	1416.40	2386.80	593.10	677.50	623.80	403.50		
19	600.70	445.60	525.40	417.40	1603.80	4280.20	1319.00	2066.20	547.70	723.00	577.80	410.50		
20	713.90	532.80	510.60	417.40	1591.10	3888.10	1247.10	1729.10	585.40	704.70	555.20	410.50		
21	686.50	496.00	417.40	547.70	1743.50	3505.90	981.50	1428.70	474.20	608.40	600.70	459.80		
22	616.10	445.60	342.50	467.00	1951.20	3154.60	659.50	1188.00	431.40	616.10	623.80	525.40		
23	532.80	438.50	319.10	410.50	2352.50	2736.80	593.10	1095.00	713.90	704.70	600.70	525.40		
24	488.70	376.10	313.50	369.30	2754.60	2542.80	632.70	1118.00	577.80	641.60	496.00	540.20		
25	488.70	330.30	459.80	389.80	3073.30	2542.80	632.70	1026.50	570.30	623.80	488.70	518.00		
26	324.70	369.30	396.60	389.80	3215.90	2612.90	659.50	882.20	510.60	659.50	518.00	585.40		
27	335.90	369.30	382.90	376.10	3154.60	2612.90	650.50	839.00	668.50	593.10	503.30	570.30		
28	496.00	376.10	396.60	330.30	3154.60	2880.10	904.10	741.50	608.40	510.60	510.60	600.70		
29	518.00	396.60	410.50	369.30	3012.80	3590.00	1294.90	659.50	547.70	623.80		623.80		
30	547.70	396.60	410.50	445.60	2934.40	4324.30	1591.10	608.40	562.70	585.40		600.70		
31		452.70		431.40	3032.90		1616.50		570.30	650.50		525.40		
Total	16396.30	15231.40	12817.30	12763.10	48213.50	166222.70	80293.50	48474.10	18281.80	19864.00	16976.00	15980.30	471514.00	**Ton**
Mean	546.50	491.30	427.20	411.70	1555.30	5540.80	2590.10	1615.80	589.70	640.80	606.30	515.50		
Max	713.90	723.00	677.50	547.70	3215.90	9771.70	5972.60	3134.30	732.20	732.20	741.50	623.80	9771.70	
Min	324.70	330.30	291.50	313.50	376.10	2542.80	593.10	608.40	431.40	488.70	488.70	403.50	291.50	

WATER YEAR : 2014

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

Ban Bang Luang **Amphoe** Sanphaya **Changwat** Chai Nat

Drainge Area	117,187 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1953-Cont'd
Actual Measurement	1953-Cont'd
Using Rating Curve Water Year	1965-2014
Number of observation	92
R-Square	0.8210
Remarks	Continued Sediment Station

$$QS = 1.9880\ QW^{1.15400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	339.50	303.30	132.30	151.70	151.70	2828.80	3555.90	1360.70	376.20	253.60	232.70	232.70		
2	339.50	303.30	132.30	132.30	174.90	3349.80	3766.20	1227.80	376.20	253.60	232.70	232.70		
3	339.50	303.30	132.30	132.30	229.30	3993.20	4160.70	940.70	260.70	253.60	232.70	232.70		
4	303.30	303.30	113.20	132.30	239.70	4771.00	3887.00	781.90	232.70	253.60	232.70	232.70		
5	303.30	303.30	100.70	132.30	239.70	5688.20	3146.60	757.50	232.70	253.60	232.70	232.70		
6	303.30	303.30	100.70	132.30	212.10	6268.00	2720.20	684.50	232.70	253.60	232.70	232.70		
7	303.30	303.30	100.70	132.30	174.90	6268.00	2648.20	826.40	232.70	253.60	232.70	232.70		
8	303.30	303.30	100.70	132.30	164.90	6510.60	2588.40	913.60	232.70	253.60	232.70	232.70		
9	325.00	303.30	100.70	132.30	164.90	6612.10	2576.40	984.70	232.70	253.60	232.70	232.70		
10	339.50	303.30	113.20	132.30	208.60	6612.10	2564.50	1360.70	232.70	253.60	232.70	232.70		
11	339.50	303.30	132.30	132.30	372.50	6127.00	2528.70	1980.00	232.70	253.60	232.70	232.70		
12	339.50	303.30	145.20	132.30	866.50	5806.50	2157.40	2315.60	232.70	253.60	232.70	232.70		
13	339.50	303.30	164.90	132.30	984.70	5097.90	1907.50	2540.60	232.70	253.60	232.70	232.70		
14	339.50	303.30	164.90	132.30	948.00	4653.30	1673.30	2588.40	232.70	271.20	218.90	232.70		
15	339.50	281.90	164.90	132.30	886.70	4237.20	1673.30	2453.80	232.70	274.80	232.70	232.70		
16	339.50	267.70	164.90	132.30	1021.50	3947.60	1387.10	2283.80	232.70	274.80	212.10	232.70		
17	339.50	267.70	164.90	132.30	1133.10	3690.90	1028.90	2011.10	232.70	274.80	212.10	232.70		
18	303.30	267.70	164.90	132.30	1187.40	3431.60	1058.60	1702.60	232.70	274.80	212.10	232.70		
19	303.30	267.70	164.90	132.30	1343.20	2913.60	1051.20	1511.50	232.70	274.80	212.10	215.50		
20	303.30	246.60	164.90	158.30	1309.30	2648.20	800.20	1171.20	232.70	274.80	212.10	212.10		
21	303.30	232.70	164.90	201.80	1493.10	2443.20	285.40	999.40	232.70	274.80	212.10	212.10		
22	339.50	232.70	164.90	135.50	1596.80	2146.90	232.70	955.40	232.70	274.80	212.10	212.10		
23	339.50	232.70	164.90	132.30	2021.50	1959.30	232.70	757.50	232.70	274.80	212.10	212.10		
24	339.50	212.10	164.90	132.30	2178.40	1886.90	232.70	657.00	232.70	274.80	212.10	212.10		
25	339.50	198.40	164.90	132.30	2443.20	2000.80	232.70	498.20	232.70	274.80	212.10	212.10		
26	339.50	198.40	164.90	132.30	2358.00	1907.50	243.10	428.40	246.60	274.80	212.10	212.10		
27	339.50	178.20	164.90	132.30	2305.00	1907.50	502.50	372.50	232.70	274.80	229.30	212.10		
28	303.30	164.90	164.90	132.30	2199.40	2540.60	1006.80	376.20	246.60	246.60	232.70	212.10		
29	303.30	164.90	164.90	132.30	2063.20	2937.90	1395.90	376.20	253.60	232.70		212.10		
30	303.30	145.20	164.90	132.30	2063.20	3363.40	1309.30	376.20	253.60	232.70		212.10		
31		132.30		132.30	2347.40		1422.30		253.60	232.70		212.10		
Total	9736.10	7938.00	4372.50	4219.40	35082.80	118549.60	53976.40	36194.10	7619.20	8085.10	6271.80	6949.30	298994.30	**Ton**
Mean	324.50	256.10	145.70	136.10	1131.70	3951.70	1741.20	1206.50	245.80	260.80	224.00	224.20		
Max	339.50	303.30	164.90	201.80	2443.20	6612.10	4160.70	2588.40	376.20	274.80	232.70	232.70	6612.10	
Min	303.30	132.30	100.70	132.30	151.70	1886.90	232.70	372.50	232.70	232.70	212.10	212.10	100.70	

WATER YEAR : 2014

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
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2008-Cont'd
Actual Measurement	2008-Cont'd
Using Rating Curve Water Year	2011-2014
Number of observation	66
R-Square	0.7480
Remarks	Continued Sediment Station

$$QS = 0.9362\ QW^{1.25200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	375.40	342.80	1348.30	810.10	3688.70	2188.00	4865.10	3064.80	685.00	421.00	464.30	478.70		
2	384.80	315.30	1405.30	649.00	3992.60	2093.50	5159.40	2996.20	612.60	421.00	464.30	475.80		
3	399.10	329.00	1405.30	578.90	4280.80	2725.10	5271.10	2928.00	594.50	421.00	464.30	463.50		
4	452.90	481.50	1291.80	599.50	4447.70	3133.70	3531.80	2860.00	429.00	421.00	399.10	459.40		
5	531.40	800.00	1252.80	634.10	4182.60	5796.20	3448.90	2860.00	423.00	421.00	413.40	455.30		
6	551.70	1573.80	1226.90	649.00	3718.50	6934.80	3782.60	2860.00	423.00	421.00	447.20	455.30		
7	565.30	2952.90	1226.90	592.60	3458.10	7790.30	4195.40	2860.00	423.00	421.00	470.00	463.50		
8	620.20	3571.20	1278.80	493.10	3458.10	7844.40	4036.80	2860.00	423.00	421.00	504.70	461.40		
9	672.70	4087.40	1419.60	413.40	3571.20	7790.30	4195.40	2792.40	423.00	421.00	490.20	453.30		
10	672.70	3808.20	1558.10	356.70	3992.60	7413.50	4678.20	3284.50	423.00	421.00	484.40	443.10		
11	634.10	3514.60	1639.90	329.00	4759.10	7306.60	4036.80	3531.80	423.00	421.00	478.70	439.10		
12	578.90	3291.20	1777.00	324.40	4937.30	6518.20	3698.60	3867.00	423.00	421.00	493.10	445.20		
13	518.00	2928.00	1886.90	324.40	3202.90	5714.70	3531.80	4355.10	423.00	421.00	452.90	459.40		
14	452.90	2537.90	1960.90	356.70	3284.50	5048.10	3615.00	4355.10	421.00	421.00	384.80	467.60		
15	464.30	2235.60	1942.40	437.50	3284.50	4723.80	3366.50	4355.10	421.00	421.00	324.40	478.70		
16	464.30	1905.40	1813.50	565.30	3284.50	4380.80	3202.90	3951.70	421.00	421.00	310.80	487.30		
17	504.70	1707.70	1724.70	820.10	3284.50	4119.10	3064.80	3698.60	421.00	421.00	315.30	498.90		
18	524.70	1449.40	1639.90	1226.90	3366.50	3961.10	2379.50	3448.90	421.00	421.00	347.40	475.80		
19	565.30	1252.80	1656.80	1673.70	3366.50	3838.20	1552.90	3133.70	421.00	421.00	380.10	442.30		
20	620.20	1214.00	1707.70	1979.50	3366.50	3838.20	1152.80	2928.00	421.00	419.00	399.10	418.20		
21	740.30	1162.60	1850.10	2091.80	3448.90	3992.60	1377.80	2725.10	421.00	419.00	403.80	399.10		
22	830.20	1073.80	2091.80	1998.20	3366.50	3961.10	1482.90	2725.10	421.00	419.00	432.60	389.60		
23	840.30	1048.70	2193.00	1690.70	2792.40	4182.60	1506.10	2591.50	421.00	419.00	464.30	389.60		
24	840.30	1048.70	2171.80	1434.00	2427.90	4314.10	1482.90	2525.20	421.00	419.00	498.90	423.00		
25	830.20	1111.70	1998.20	1558.10	2235.60	4119.10	1623.60	2427.90	421.00	419.00	481.50	458.60		
26	750.20	1099.00	1813.50	1449.40	2188.00	4055.80	2046.50	2283.40	421.00	419.00	471.70	475.80		
27	641.10	1086.40	1656.80	1320.00	2046.50	4247.60	2725.10	2046.50	421.00	419.00	465.50	493.10		
28	518.00	1334.20	1511.30	1305.90	1939.70	4723.80	3531.80	1576.40	421.00	419.00	471.70	501.80		
29	442.30	1434.00	1348.30	1639.90	1904.30	4900.50	3366.50	1187.20	421.00	419.00		498.90		
30	375.40	1449.40	1175.40	2450.70	1939.70	4974.20	3202.90	894.10	421.00	419.00		443.10		
31		1376.80		3211.30	2010.80		3202.90		421.00	419.00		445.20		
Total	17361.90	53524.00	48973.70	33963.90	101228.00	146630.00	98315.30	87973.30	13706.10	13027.00	12178.50	14139.60	641021.40	**Ton**
Mean	578.70	1726.60	1632.50	1095.60	3265.40	4887.70	3171.50	2932.40	442.10	420.20	434.90	456.10		
Max	840.30	4087.40	2193.00	3211.30	4937.30	7844.40	5271.10	4355.10	685.00	421.00	504.70	501.80	7844.40	
Min	375.40	315.30	1175.40	324.40	1904.30	2093.50	1152.80	894.10	421.00	419.00	310.80	389.60	310.80	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1969-Cont'd
Actual Measurement	1969-Cont'd
Using Rating Curve Water Year	1983-2014
Number of observation	417
R-Square	0.7540
Remarks	Continued Sediment Station

$$QS = 4.0553\ QW^{1.32800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	12.00	38.30	8.70	20.60	283.70	208.10	117.30	10.30	5.30	0.50	0.80		
2	0.00	11.10	22.10	8.70	19.20	245.20	252.80	97.00	12.00	5.30	0.50	0.80		
3	0.00	12.80	25.10	9.50	16.40	237.60	156.30	88.10	12.00	4.80	1.00	0.80		
4	0.00	12.00	22.10	8.70	16.40	222.70	107.00	80.40	11.10	4.80	3.50	0.60		
5	0.00	12.00	19.20	7.90	16.40	144.00	88.10	76.60	11.10	4.40	3.10	0.60		
6	0.00	15.00	20.60	7.90	16.40	117.30	162.60	84.20	12.00	4.40	2.70	0.50		
7	0.00	76.60	19.20	7.20	16.40	275.90	181.70	84.20	10.30	4.40	2.30	0.30		
8	0.00	40.90	23.50	5.30	17.80	181.70	162.60	92.10	11.10	3.90	2.30	0.30		
9	0.60	22.10	35.70	4.40	17.80	144.00	133.10	201.40	11.10	4.80	2.00	0.20		
10	5.70	13.70	38.30	3.50	17.80	117.30	188.20	630.40	11.10	6.50	2.00	0.50		
11	4.40	10.30	25.10	3.50	17.80	138.50	162.60	237.60	10.30	12.80	2.00	1.60		
12	26.60	8.70	16.40	3.10	17.80	275.90	188.20	156.30	10.30	16.40	2.00	1.40		
13	22.10	8.70	15.00	3.90	17.80	390.70	156.30	122.50	10.30	13.70	2.00	1.40		
14	22.10	8.70	13.70	25.10	17.80	175.30	122.50	102.00	9.50	11.10	2.00	1.00		
15	20.60	7.90	12.80	23.50	17.80	400.60	102.00	88.10	9.50	9.50	1.60	0.80		
16	20.60	7.90	12.80	25.10	40.90	188.20	88.10	80.40	8.70	8.70	1.40	0.60		
17	20.60	7.90	12.00	30.60	23.50	122.50	80.40	72.80	8.70	8.70	1.00	0.50		
18	19.20	8.70	12.00	33.10	25.10	92.10	72.80	69.10	8.70	7.90	1.00	0.30		
19	19.20	22.10	10.30	28.10	84.20	80.40	69.10	65.50	7.90	7.20	1.00	0.20		
20	17.80	38.30	9.50	22.10	43.60	76.60	65.50	61.80	7.90	6.50	1.20	0.00		
21	16.40	25.10	9.50	25.10	201.40	76.60	222.70	58.30	7.20	5.70	7.20	0.00		
22	15.00	16.40	8.70	26.60	252.80	61.80	175.30	58.30	7.20	4.80	3.50	0.00		
23	13.70	15.00	8.70	26.60	127.80	58.30	460.90	58.30	7.20	3.10	2.30	0.00		
24	12.80	15.00	8.70	22.10	222.70	69.10	300.70	54.80	6.50	2.00	2.00	17.80		
25	12.80	15.00	8.70	19.20	188.20	76.60	318.00	51.90	6.50	1.00	1.40	12.00		
26	12.00	26.60	8.70	25.10	260.40	594.20	215.40	51.90	6.50	1.00	1.20	4.80		
27	12.00	35.70	8.70	150.10	122.50	127.80	230.10	49.10	6.50	1.00	1.00	3.10		
28	12.00	38.30	8.70	51.90	260.40	88.10	150.10	40.90	5.70	1.00	0.80	2.00		
29	12.00	23.50	8.70	26.60	268.10	127.80	122.50	40.90	5.70	0.80		1.60		
30	12.80	16.40	8.70	26.60	144.00	168.90	144.00	38.30	5.70	0.80		1.40		
31		12.00		26.60	292.20		144.00		5.70	0.60		1.20		
Total	331.00	596.40	491.50	696.40	2822.00	5359.40	5231.70	3110.50	274.30	172.90	54.50	57.10	19197.70	**Ton**
Mean	11.00	19.20	16.40	22.50	91.00	178.60	168.80	103.70	8.80	5.60	1.90	1.80		
Max	26.60	76.60	38.30	150.10	292.20	594.20	460.90	630.40	12.00	16.40	7.20	17.80	630.40	
Min	0.00	7.90	8.70	3.10	16.40	58.30	65.50	38.30	5.70	0.60	0.50	0.00	0.00	

WATER YEAR : 2014

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

Ban Mai Khlong Charoen **Amphoe** Mae Poen **Changwat** Nakhon Sawan

Drainge Area	453 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2014
Number of observation	17
R-Square	0.8700
Remarks	Continued Sediment Station

$$QS = 2.9300\ QW^{1.12000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.20	2.30	21.00	2.40	0.60	0.70	0.40	55.20	0.10	0.70	0.10		
2	0.20	0.20	0.80	19.70	2.10	2.30	0.80	0.30	55.20	0.10	0.30	0.10		
3	0.20	0.20	0.60	19.70	1.60	3.00	0.60	0.20	47.20	0.10	0.20	0.10		
4	0.20	0.20	1.10	19.70	1.40	1.70	0.50	0.10	37.80	0.10	0.10	0.10		
5	0.20	0.20	16.60	19.70	1.10	0.90	0.40	0.10	33.30	0.10	0.10	0.10		
6	0.20	0.20	17.90	19.70	0.80	0.80	0.40	0.10	1.70	0.10	0.10	0.10		
7	0.20	0.20	17.90	19.70	0.60	0.90	0.40	0.20	0.60	0.10	0.10	0.10		
8	0.20	0.20	17.90	20.40	0.60	0.70	0.40	0.20	0.40	0.10	0.10	0.10		
9	0.20	0.20	17.90	24.90	0.60	0.90	0.50	0.20	0.30	0.10	0.10	0.10		
10	0.10	0.20	17.90	24.90	0.60	1.90	6.30	0.50	0.20	0.10	0.10	0.10		
11	0.10	0.20	16.00	24.90	0.50	1.10	44.30	0.30	0.20	0.10	0.10	0.10		
12	0.10	0.20	1.90	22.50	0.40	0.70	37.80	0.20	0.20	0.10	0.10	0.10		
13	0.10	0.20	1.60	22.50	0.40	1.60	23.30	0.10	0.20	0.10	0.10	0.10		
14	0.20	0.20	0.80	22.50	0.30	1.70	24.10	0.10	0.20	0.10	0.10	0.10		
15	3.30	4.90	0.60	22.50	0.30	16.00	33.30	0.10	0.20	0.10	0.10	0.10		
16	0.60	45.30	0.50	17.90	0.60	3.90	40.50	0.10	0.20	0.10	0.10	0.10		
17	0.40	45.30	0.50	12.10	0.90	1.40	62.60	0.10	0.10	0.10	0.10	0.10		
18	0.30	45.30	0.40	8.70	1.60	0.60	80.40	0.10	0.10	0.10	0.10	0.10		
19	0.20	45.30	17.30	5.50	2.30	0.50	80.40	0.10	0.10	0.10	0.10	0.10		
20	0.20	45.30	37.80	5.50	3.30	0.50	54.20	0.10	0.10	0.10	0.10	0.10		
21	0.20	39.60	37.80	5.20	4.50	0.40	16.00	0.10	0.10	0.10	0.10	0.10		
22	0.20	40.50	37.80	3.90	0.90	0.40	7.00	0.10	0.10	0.10	0.10	0.10		
23	0.20	47.20	37.80	2.40	1.40	0.40	6.70	0.10	0.10	0.10	0.10	0.10		
24	0.20	47.20	37.80	2.40	1.60	0.30	0.80	0.10	0.10	0.10	0.10	0.10		
25	0.20	47.20	40.50	2.10	0.90	0.30	0.50	0.10	0.10	0.10	0.10	0.10		
26	0.20	47.20	78.00	2.30	0.60	0.30	0.30	0.10	0.10	0.10	0.10	0.10		
27	0.20	47.20	75.50	4.20	0.70	0.30	0.30	0.10	0.10	0.10	0.10	0.10		
28	0.20	47.20	27.20	6.70	2.30	0.30	0.30	0.10	0.10	0.10	0.10	0.10		
29	0.20	47.20	21.00	5.90	2.10	0.30	0.40	11.00	0.10	0.10		0.10		
30	0.20	35.10	21.00	4.90	1.10	0.40	1.90	54.20	0.10	0.10		0.10		
31		12.60		3.60	0.80		0.60		0.10	0.50		0.10		
Total	9.40	692.40	602.70	417.60	39.30	45.10	526.70	69.60	234.60	3.50	3.70	3.10	2647.70	**Ton**
Mean	0.30	22.30	20.10	13.50	1.30	1.50	17.00	2.30	7.60	0.10	0.10	0.10		
Max	3.30	47.20	78.00	24.90	4.50	16.00	80.40	54.20	55.20	0.50	0.70	0.10	80.40	
Min	0.10	0.20	0.40	2.10	0.30	0.30	0.30	0.10	0.10	0.10	0.10	0.10	0.10	

WATER YEAR : 2014

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on right bank at Ban Don Yai.

	Ban Don Yai	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,454 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1999-2014		
Number of observation	135		
R-Square	0.8580		
Remarks	Continued Sediment Station		

$$QS = 7.1417\ QW^{1.14900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

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	294.80	6.50	245.80	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	224.50	19.90	170.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	268.10	100.10	110.50	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	356.30	138.20	51.70	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	376.80	151.80	24.40	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	330.20	43.10	24.40	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	221.90	7.00	39.70	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	130.50	6.50	12.10	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	107.00	3.20	5.10	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	134.40	35.20	12.80	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	51.70	60.90	9.30	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	101.80	50.40	4.60	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	185.10	22.50	27.60	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	182.70	30.80	2.50	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	279.70	2.10	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	404.40	0.20	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	407.90	0.20	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	262.30	0.00	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	43.10	0.00	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	6.50	3.20	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	7.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	6.50	2.10	88.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	6.00	1.80	317.20	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	6.00	1.80	282.60	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	4.60	1.50	182.70	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	2.10	1.10	110.50	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	122.90	0.80	58.10	0.00	0.00	0.00		0.00		
30	0.00	0.00	0.00	0.00	474.00	10.70	81.70	0.00	0.00	0.00		0.00		
31		0.00		0.00	387.10		248.50		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	1022.70	4472.10	2047.90	740.50	0.00	0.00	0.00	0.00	8283.20	**Ton**
Mean	0.00	0.00	0.00	0.00	33.00	149.10	66.10	24.70	0.00	0.00	0.00	0.00		
Max	0.00	0.00	0.00	0.00	474.00	407.90	317.20	245.80	0.00	0.00	0.00	0.00	474.00	
Min	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Pa , Saraburi (S.9)

Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

Ban Pa **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	14,233 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1978-Cont'd
Actual Measurement	1978-Cont'd
Using Rating Curve Water Year	2014
Number of observation	29
R-Square	0.8570
Remarks	Continued Sediment Station

$$QS = 1.7808\ QW^{1.36900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	254.40	196.00	204.70	162.60	50.40	86.10	144.40	70.30	231.40	417.50	381.30	375.30		
2	231.40	218.00	196.00	133.80	52.50	100.30	148.00	68.00	276.90	363.60	381.30	387.30		
3	218.00	213.50	187.40	109.10	50.40	106.10	124.10	65.70	249.70	357.70	411.40	387.30		
4	213.50	213.50	187.40	100.30	50.40	88.90	106.10	65.70	240.50	351.80	429.70	387.30		
5	231.40	209.10	178.90	88.90	48.60	91.70	97.40	72.60	254.40	340.30	381.30	381.30		
6	200.40	204.70	170.50	56.80	52.50	121.00	94.50	70.30	249.70	249.70	346.00	311.70		
7	170.50	204.70	170.50	54.70	61.20	340.30	88.90	70.30	249.70	240.50	340.30	300.00		
8	178.90	209.10	170.50	54.70	75.20	720.80	91.70	70.30	249.70	245.10	340.30	294.20		
9	144.40	170.50	159.00	56.80	80.60	788.60	103.20	72.60	245.10	282.60	334.50	294.20		
10	133.80	148.00	170.50	52.50	83.40	946.60	97.40	75.20	254.40	294.20	334.50	294.20		
11	130.30	130.30	209.10	48.60	88.90	1057.30	97.40	94.50	254.40	288.40	294.20	294.20		
12	140.80	124.10	204.70	52.50	100.30	1759.30	106.10	70.30	294.20	323.00	276.90	300.00		
13	148.00	124.10	213.50	50.40	77.90	2843.20	88.90	63.40	288.40	340.30	276.90	300.00		
14	162.60	130.30	178.90	52.50	65.70	3767.60	68.00	59.00	305.80	334.50	340.30	294.20		
15	196.00	151.60	148.00	52.50	100.30	4249.80	59.00	52.50	311.70	334.50	381.30	294.20		
16	187.40	209.10	159.00	50.40	80.60	3742.60	61.20	48.60	254.40	334.50	387.30	294.20		
17	148.00	249.70	159.00	52.50	86.10	3128.50	56.80	46.90	231.40	334.50	387.30	311.70		
18	240.50	271.20	170.50	52.50	72.60	2629.00	45.10	43.40	254.40	334.50	387.30	334.50		
19	240.50	294.20	196.00	54.70	86.10	1001.60	26.80	39.90	311.70	334.50	387.30	328.70		
20	148.00	300.00	144.40	68.00	94.50	196.00	30.70	36.60	328.70	334.50	387.30	328.70		
21	159.00	305.80	133.80	83.40	97.40	91.70	72.60	33.30	340.30	328.70	381.30	363.60		
22	174.70	231.40	118.00	75.20	61.20	56.80	80.60	30.70	334.50	328.70	381.30	399.20		
23	155.30	218.00	59.00	52.50	48.60	52.50	52.50	32.00	334.50	328.70	375.30	393.20		
24	151.60	218.00	46.90	50.40	54.70	48.60	56.80	30.70	363.60	328.70	375.30	393.20		
25	155.30	218.00	50.40	61.20	68.00	56.80	41.70	30.70	393.20	328.70	375.30	393.20		
26	200.40	265.60	43.40	50.40	75.20	61.20	45.10	29.40	357.70	317.40	381.30	393.20		
27	196.00	260.00	33.30	52.50	77.90	61.20	43.40	115.00	381.30	387.30	381.30	357.70		
28	196.00	323.00	70.30	50.40	83.40	68.00	50.40	200.40	387.30	340.30	375.30	334.50		
29	231.40	351.80	155.30	75.20	94.50	94.50	54.70	222.40	393.20	375.30		334.50		
30	200.40	236.00	148.00	56.80	86.10	127.20	83.40	222.40	399.20	387.30		334.50		
31		209.10		46.90	80.60		65.70		387.30	387.30		340.30		
Total	5538.90	6808.40	4436.90	2059.70	2285.80	28483.80	2382.60	2203.10	9408.70	10274.60	10213.10	10530.30	94625.90	**Ton**
Mean	184.60	219.60	147.90	66.40	73.70	949.50	76.90	73.40	303.50	331.40	364.80	339.70		
Max	254.40	351.80	213.50	162.60	100.30	4249.80	148.00	222.40	399.20	417.50	429.70	399.20	4249.80	
Min	130.30	124.10	33.30	46.90	48.60	48.60	26.80	29.40	231.40	240.50	276.90	294.20	26.80	

WATER YEAR : 2014

PASAK RIVER BASIN

Pasak River at Ban Nong Bua , Lop Buri (S.28)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Nong Bua.

Ban Nong Bua **Amphoe** Phatthana Nikhom **Changwat** Lop Buri

Drainge Area	8,778 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2014
Number of observation	29
R-Square	0.7940
Remarks	Continued Sediment Station

$$QS = 1.4420\ QW^{1.26300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	127.20	88.80	69.90	79.80	24.40	21.80	32.60	12.10	90.00	175.80	174.10	172.40		
2	125.60	86.20	68.70	71.10	24.40	20.60	31.90	12.10	111.20	158.70	177.60	175.80		
3	125.60	83.60	67.40	57.90	24.40	18.70	31.90	12.10	109.60	157.00	195.60	175.80		
4	123.90	86.20	73.60	46.30	25.10	19.30	31.20	12.10	111.20	157.00	182.80	175.80		
5	117.50	86.20	74.80	28.40	25.80	23.10	31.20	12.10	112.80	130.40	157.00	155.30		
6	98.70	87.50	72.30	29.10	25.80	77.30	31.20	12.10	112.80	109.60	151.90	137.00		
7	86.20	86.20	72.30	29.80	25.80	234.90	31.20	12.10	112.80	109.60	151.90	137.00		
8	84.90	69.90	69.90	28.40	26.40	317.50	23.10	11.60	112.80	120.70	151.90	137.00		
9	84.90	48.60	72.30	27.10	27.10	349.20	12.70	11.60	115.90	132.10	150.30	133.70		
10	84.90	47.50	81.10	25.80	29.80	428.00	12.70	19.30	108.10	132.10	143.60	127.20		
11	82.40	46.30	94.20	26.40	31.90	535.10	12.10	13.90	108.10	137.00	125.60	128.80		
12	82.40	46.30	95.70	25.80	31.90	904.30	12.10	12.10	115.90	151.90	125.60	130.40		
13	81.10	46.30	83.60	25.10	29.80	1161.90	12.10	11.60	133.70	146.90	135.30	130.40		
14	81.10	45.20	67.40	24.40	27.10	1461.60	12.10	11.00	137.00	146.90	163.80	132.10		
15	81.10	65.00	66.20	25.10	30.50	1457.40	12.70	9.40	127.20	150.30	177.60	130.40		
16	79.80	94.20	68.70	25.10	32.60	1273.80	12.10	8.30	106.50	150.30	175.80	132.10		
17	78.60	127.20	78.60	25.10	30.50	1129.00	12.10	7.80	108.10	148.60	174.10	148.60		
18	78.60	128.80	67.40	25.80	32.60	797.70	12.10	7.30	117.50	148.60	174.10	148.60		
19	77.30	125.60	79.80	26.40	33.30	199.70	12.10	6.80	143.60	148.60	174.10	148.60		
20	79.80	123.90	48.60	24.40	32.60	66.20	12.10	6.30	146.90	143.60	168.90	148.60		
21	81.10	98.70	40.80	22.50	22.50	33.30	15.00	6.30	151.90	141.90	165.50	168.90		
22	81.10	83.60	15.00	24.40	19.30	31.90	13.30	6.00	158.70	141.90	165.50	168.90		
23	81.10	84.90	11.60	24.40	23.10	30.50	12.70	6.00	160.40	141.90	167.20	170.70		
24	79.80	83.60	16.80	25.10	23.80	30.50	12.70	5.80	182.80	140.30	168.90	172.40		
25	78.60	94.20	24.40	25.80	23.80	29.80	12.70	5.80	167.20	140.30	170.70	175.80		
26	78.60	100.30	20.60	25.80	23.80	29.80	12.70	20.60	162.10	146.90	168.90	170.70		
27	77.30	101.80	25.10	26.40	24.40	29.80	12.10	74.80	174.10	167.20	165.50	155.30		
28	108.10	130.40	74.80	29.10	24.40	29.80	12.70	98.70	175.80	157.00	165.50	151.90		
29	128.80	109.60	83.60	38.60	22.50	30.50	12.10	97.20	184.60	175.80		145.20		
30	108.10	76.10	103.40	23.10	20.60	32.60	12.10	100.30	175.80	174.10		143.60		
31		72.30		23.80	21.20		12.10		170.70	174.10		143.60		
Total	2764.20	2655.00	1888.60	966.30	821.20	10805.60	531.50	643.20	4205.80	4557.10	4569.30	4672.60	39080.40	**Ton**
Mean	92.10	85.60	63.00	31.20	26.50	360.20	17.10	21.40	135.70	147.00	163.20	150.70		
Max	128.80	130.40	103.40	79.80	33.30	1461.60	32.60	100.30	184.60	175.80	195.60	175.80	1461.60	
Min	77.30	45.20	11.60	22.50	19.30	18.70	12.10	5.80	90.00	109.60	125.60	127.20	5.80	

WATER YEAR : 2014

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	2001-2014
Number of observation	440
R-Square	0.7029
Remarks	Continued Sediment Station

$$QS = 4.3074\ QW^{1.80910}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	9.50	13.10	62.10	59.00	873.70	274.00	47.10	26.90	17.20	10.70	9.50		
2	3.20	6.40	9.50	41.50	50.10	590.50	357.40	47.10	26.90	17.20	10.70	8.40		
3	3.20	26.90	23.40	68.90	130.90	718.60	257.80	44.40	26.90	17.20	10.70	8.40		
4	3.20	10.70	9.50	50.10	59.00	439.90	147.50	44.40	26.90	17.20	10.70	8.40		
5	8.40	8.40	9.50	26.90	75.80	310.00	141.80	44.40	26.90	17.20	10.70	7.40		
6	9.50	59.00	10.70	23.40	95.70	10780.80	130.90	65.50	25.10	17.20	9.50	7.40		
7	5.50	10.70	25.10	20.20	274.00	1747.40	115.20	91.00	25.10	17.20	9.50	7.40		
8	3.90	25.10	44.40	18.70	2899.20	888.00	100.40	75.80	25.10	15.80	9.50	6.40		
9	3.20	9.50	1461.50	21.80	418.60	1257.30	91.00	59.00	25.10	15.80	9.50	6.40		
10	2.60	9.50	95.70	68.90	3682.50	495.70	91.00	95.70	25.10	15.80	9.50	6.40		
11	2.60	6.40	44.40	75.80	461.80	397.70	110.10	55.80	23.40	21.80	9.50	6.40		
12	2.60	5.50	328.70	36.30	229.40	300.50	100.40	50.10	23.40	21.80	9.50	6.40		
13	72.20	52.90	41.50	25.10	164.90	291.20	82.70	47.10	23.40	20.20	8.40	6.40		
14	10.70	15.80	100.40	530.10	530.10	429.50	75.80	47.10	21.80	17.20	8.40	6.40		
15	120.30	9.50	257.80	170.90	215.70	439.90	72.20	41.50	21.80	17.20	8.40	6.40		
16	20.20	8.40	41.50	62.10	13914.00	963.80	68.90	39.00	21.80	15.80	8.40	6.40		
17	9.50	10.70	3974.70	418.60	1198.70	265.10	65.50	39.00	21.80	15.80	9.50	6.40		
18	7.40	13.10	141.80	310.00	461.80	222.50	62.10	36.30	21.80	15.80	10.70	5.50		
19	6.40	17.20	55.80	291.20	265.10	418.60	59.00	36.30	20.20	15.80	14.40	5.50		
20	5.50	15.80	44.40	95.70	189.60	177.10	55.80	33.70	20.20	15.80	50.10	4.70		
21	23.40	10.70	33.70	95.70	759.90	153.20	59.00	33.70	20.20	14.40	14.40	4.70		
22	8.40	6.40	23.40	95.70	1816.60	759.90	62.10	33.70	20.20	14.40	11.90	5.50		
23	5.50	5.50	20.20	72.20	257.80	153.20	72.20	31.40	20.20	14.40	25.10	7.40		
24	4.70	9.50	26.90	120.30	170.90	3296.30	62.10	31.40	20.20	14.40	14.40	6.40		
25	3.90	4.70	82.70	44.40	147.50	801.30	59.00	31.40	20.20	13.10	10.70	6.40		
26	3.90	9.50	59.00	4302.50	243.40	787.70	55.80	29.20	20.20	13.10	10.70	5.50		
27	3.20	18.70	100.40	222.50	418.60	357.40	52.90	29.20	20.20	13.10	9.50	5.50		
28	183.30	8.40	39.00	830.60	319.00	429.50	50.10	29.20	18.70	11.90	9.50	11.90		
29	23.40	2646.30	26.90	170.90	8390.90	310.00	47.10	29.20	18.70	11.90		20.20		
30	14.40	47.10	2059.60	100.40	948.90	282.60	72.20	29.20	18.70	11.90		8.40		
31		18.70		68.90	1461.50		62.10		18.70	10.70		7.40		
Total	577.40	3116.50	9205.20	8542.40	40310.90	29338.90	3114.10	1347.90	695.80	488.30	344.50	225.90	97307.80	**Ton**
Mean	19.20	100.50	306.80	275.60	1300.40	978.00	100.50	44.90	22.40	15.80	12.30	7.30		
Max	183.30	2646.30	3974.70	4302.50	13914.00	10780.80	357.40	95.70	26.90	21.80	50.10	20.20	13914.00	
Min	2.60	4.70	9.50	18.70	50.10	153.20	47.10	29.20	18.70	10.70	8.40	4.70	2.60	

WATER YEAR : 2014

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.
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	2014
Number of observation	16
R-Square	0.7633
Remarks	Continued Sediment Station

$$QS = 0.1807\ QW^{2.07340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.50	0.60	4.90	508.70	6862.70	4223.70	289.90	76.60	23.70	19.70	60.40		
2	0.00	1.60	0.80	4.60	369.90	8632.50	3892.00	244.10	74.50	23.70	21.40	60.40		
3	0.00	1.60	0.90	3.90	249.60	11054.40	3892.00	213.80	72.40	22.30	24.60	60.40		
4	0.00	1.60	0.90	3.50	186.30	12583.30	3583.60	200.90	70.70	21.00	27.60	59.70		
5	0.00	1.60	0.90	3.20	138.90	13178.20	3163.50	234.00	70.70	19.70	32.30	55.20		
6	0.00	1.60	1.00	3.00	266.50	14545.40	2972.10	260.80	69.90	18.50	36.90	52.40		
7	0.00	1.60	1.00	3.20	513.30	14545.40	2904.00	499.60	69.10	18.20	41.70	51.70		
8	0.00	1.60	1.10	6.00	1236.50	14081.90	1842.20	1887.00	68.30	17.60	46.20	49.60		
9	0.00	1.60	1.40	7.90	2071.80	13326.70	1616.00	4245.70	67.50	17.60	51.70	49.60		
10	0.00	1.50	1.40	9.60	2020.10	12902.20	1493.60	4966.70	65.90	17.00	56.70	48.20		
11	0.00	1.50	1.30	11.60	1820.00	12180.80	1453.90	4775.10	64.30	16.70	56.70	48.20		
12	0.00	1.40	1.60	12.90	1754.20	11828.20	1366.70	3852.70	64.30	16.10	60.40	48.20		
13	0.10	1.40	1.50	13.90	2032.70	8492.40	1123.30	2497.10	60.40	15.50	60.40	46.90		
14	0.20	1.50	1.50	17.90	2340.70	7984.60	923.80	1424.50	36.90	15.30	60.40	46.20		
15	0.40	1.50	1.70	19.40	2497.10	7269.20	973.70	692.70	31.80	15.30	60.40	46.20		
16	0.40	1.50	1.80	19.70	2688.40	3813.60	828.30	522.50	31.20	15.30	60.40	46.20		
17	0.40	1.50	1.70	782.80	2721.00	2382.70	640.10	383.40	30.20	15.30	59.70	46.20		
18	0.40	1.50	1.40	2058.60	2560.10	1776.00	517.90	327.00	25.10	13.90	59.70	44.30		
19	0.40	1.20	1.20	1414.80	2972.10	1453.90	380.00	311.40	28.60	13.90	59.70	44.30		
20	0.40	1.20	1.10	1062.10	3234.60	1123.30	222.70	289.90	28.10	13.90	59.70	43.00		
21	0.40	1.20	1.20	682.00	3434.40	923.80	176.30	266.50	27.60	13.90	59.70	43.00		
22	0.40	0.90	1.20	508.70	3716.90	719.80	120.30	266.50	27.10	13.60	59.70	43.00		
23	0.40	0.90	1.20	486.10	3288.50	536.60	76.60	252.30	26.60	13.60	59.70	43.00		
24	0.50	0.80	1.00	504.20	3234.60	744.60	75.50	238.60	26.10	13.60	59.70	41.70		
25	0.80	0.80	0.40	504.20	3110.60	1493.60	99.60	220.50	26.10	13.60	60.40	46.20		
26	0.80	0.80	0.50	504.20	2481.50	1776.00	531.90	112.30	26.10	13.60	60.40	44.90		
27	0.80	0.80	3.50	570.00	2560.10	2071.80	862.00	97.20	26.10	13.10	60.40	44.90		
28	0.80	0.80	7.10	614.60	2972.10	2560.10	988.20	108.40	27.60	12.60	60.40	44.30		
29	0.90	1.10	6.20	589.60	3252.50	3075.70	1182.70	107.20	27.10	12.60		44.30		
30	1.50	1.10	5.20	446.70	3911.70	3527.30	1218.40	71.60	24.10	12.60		43.60		
31		1.00		531.90	5137.90		411.80		23.70	16.70		43.60		
Total	10.00	40.20	52.30	11405.70	69283.30	197446.70	43756.40	29859.90	1394.70	500.00	1436.70	1489.80	356675.70	**Ton**
Mean	0.30	1.30	1.70	367.90	2234.90	6581.60	1411.50	995.30	45.00	16.10	51.30	48.10		
Max	1.50	1.60	7.10	2058.60	5137.90	14545.40	4223.70	4966.70	76.60	23.70	60.40	60.40	14545.40	
Min	0.00	0.80	0.40	3.00	138.90	536.60	75.50	71.60	23.70	12.60	19.70	41.70	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	21
R-Square	0.8110
Remarks	Continued Sediment Station

$$QS = 16.6260\ QW^{1.37600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.80	1.80	15.30	4.70	5.40	687.80	417.10	213.80	117.80	7.50	10.60	4.10		
2	9.80	1.80	29.00	6.80	4.70	718.40	267.00	374.70	72.00	7.50	4.70	228.70		
3	9.80	1.80	164.10	2.90	4.10	428.20	177.90	365.00	46.10	7.50	0.50	561.00		
4	9.80	1.80	107.80	1.80	3.50	228.70	112.80	327.30	40.20	7.50	0.20	547.90		
5	9.80	1.80	49.20	2.30	2.30	143.90	78.90	509.00	34.50	7.50	0.20	534.80		
6	9.80	1.80	20.20	2.30	1.80	107.80	384.30	509.00	34.50	7.50	0.20	450.60		
7	9.80	1.80	20.20	1.80	1.30	221.20	308.80	450.60	49.20	8.20	0.20	2.90		
8	9.80	1.80	20.20	2.30	1.30	327.30	177.90	282.70	29.00	8.20	0.20	0.50		
9	9.80	1.80	20.20	2.30	1.30	395.20	267.00	318.00	27.20	6.80	0.20	0.00		
10	9.80	1.80	20.20	2.30	0.90	221.20	484.70	1404.30	25.40	6.80	0.20	0.00		
11	9.80	1.80	15.30	2.30	1.30	614.30	509.00	1036.30	25.40	6.10	0.20	0.00		
12	9.80	1.80	12.20	2.90	5.40	780.60	521.90	561.00	23.60	6.10	0.20	0.00		
13	9.80	1.80	11.40	2.30	2.90	450.60	374.70	365.00	21.90	6.10	0.20	0.00		
14	9.80	29.00	11.40	2.30	2.30	206.50	243.80	267.00	21.90	6.80	0.20	0.00		
15	9.80	29.00	11.40	4.70	5.40	236.20	177.90	213.80	20.20	6.80	0.20	0.00		
16	9.80	29.00	10.60	16.90	16.90	1356.80	128.10	164.10	20.20	7.50	0.20	0.00		
17	9.80	29.00	10.60	10.60	16.90	308.80	102.90	143.90	20.20	7.50	0.20	0.00		
18	9.80	29.00	10.60	9.00	122.90	164.10	82.40	138.60	20.20	8.20	0.20	0.00		
19	9.80	89.60	9.80	8.20	521.90	112.80	72.00	138.60	20.20	9.00	0.20	0.00		
20	9.80	290.70	9.80	6.80	318.00	75.40	102.90	133.30	16.90	9.00	0.20	0.00		
21	9.80	12.20	10.60	6.10	221.20	58.70	290.70	133.30	16.90	9.00	0.20	0.00		
22	9.80	4.70	10.60	5.40	496.20	23.60	177.90	128.10	16.90	9.00	0.50	20.20		
23	9.80	4.10	10.60	4.10	1212.00	0.00	318.00	128.10	12.20	9.00	2.90	25.40		
24	9.80	3.50	9.80	3.50	574.20	31.70	199.30	128.10	12.20	9.00	6.80	10.60		
25	9.80	2.30	9.80	2.90	1500.50	365.00	251.50	128.10	12.20	9.00	2.90	7.50		
26	9.80	1.80	9.80	6.10	374.70	157.30	177.90	128.10	12.20	9.80	1.30	6.80		
27	9.80	12.20	9.80	8.20	998.20	133.30	206.50	122.90	11.40	9.80	8.20	3.50		
28	9.80	8.20	9.00	9.80	1036.30	450.60	117.80	122.90	6.80	10.60	7.50	3.50		
29	0.00	8.20	9.00	7.50	812.20	157.30	133.30	122.90	7.50	10.60		8.20		
30	9.80	10.60	9.00	6.80	417.10	1404.30	1055.40	122.90	7.50	10.60		1.80		
31		4.70		6.10	439.30		318.00		7.50	11.40		61.90		
Total	284.20	621.20	677.50	162.00	9122.40	10567.60	8238.30	9181.40	809.90	255.90	49.50	2479.90	42449.80	**Ton**
Mean	9.50	20.00	22.60	5.20	294.30	352.30	265.80	306.00	26.10	8.30	1.80	80.00		
Max	9.80	290.70	164.10	16.90	1500.50	1404.30	1055.40	1404.30	117.80	11.40	10.60	561.00	1500.50	
Min	0.00	1.80	9.00	1.80	0.90	0.00	72.00	122.90	6.80	6.10	0.20	0.00	0.00	

WATER YEAR : 2014

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	1997-2014
Number of observation	516
R-Square	0.8780
Remarks	Continued Sediment Station

$$QS = 4.5940\ QW^{1.34100}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	1.40	7.50	4.30	0.80	6.50	1.00	117.00	27.50	4.70	3.90	9.50		
2	2.30	1.40	7.50	4.70	0.80	6.10	1.20	108.00	25.70	5.20	3.90	11.10		
3	1.60	1.40	7.50	4.70	0.80	6.50	56.50	82.00	24.80	3.90	2.30	12.90		
4	1.60	1.40	7.00	4.70	0.80	6.50	122.50	64.10	21.50	3.90	2.20	11.60		
5	1.90	1.20	7.00	3.90	0.80	6.50	69.50	65.40	21.50	3.90	2.20	12.30		
6	3.50	1.30	7.50	3.10	0.80	6.50	50.80	65.40	21.50	3.10	2.70	12.30		
7	3.10	1.40	7.50	3.10	1.00	6.10	32.50	70.80	20.70	3.10	2.70	11.10		
8	6.10	1.40	7.50	2.70	1.20	6.10	32.50	438.80	20.70	2.70	2.30	12.30		
9	11.10	2.20	7.50	2.30	1.00	6.10	40.80	570.70	20.70	4.70	2.20	12.30		
10	14.20	9.00	7.50	1.70	1.00	2.20	39.80	387.70	20.70	5.60	1.90	11.60		
11	10.00	17.60	7.50	2.70	0.90	1.70	30.50	272.50	15.50	6.10	1.90	11.10		
12	8.50	21.50	7.00	2.00	1.00	1.70	48.50	249.10	9.50	6.10	1.90	9.50		
13	7.50	17.60	7.00	2.00	5.60	1.30	100.90	236.90	9.50	6.10	2.00	11.10		
14	7.50	19.10	7.00	1.60	2.70	1.30	128.60	191.70	9.50	6.50	2.00	11.10		
15	8.50	21.50	8.00	1.70	2.70	11.10	106.20	144.00	9.50	7.50	1.90	12.30		
16	8.50	21.50	8.00	1.70	1.60	11.10	68.10	113.40	9.00	7.50	1.70	12.30		
17	8.00	21.50	8.50	1.90	1.60	8.50	48.50	99.10	8.50	8.50	1.70	11.10		
18	7.50	19.90	8.50	2.20	1.30	8.50	35.60	93.90	9.50	8.50	1.70	10.60		
19	7.50	11.10	8.50	2.20	1.40	6.10	25.70	90.50	8.50	8.00	1.40	10.60		
20	7.50	6.10	9.50	2.20	5.60	7.50	24.00	73.80	8.50	7.50	1.40	9.50		
21	4.70	6.10	7.00	2.20	4.30	3.10	24.00	50.80	7.50	7.50	1.40	9.00		
22	3.90	6.10	6.10	2.20	3.90	2.20	24.00	44.10	7.00	7.00	20.70	9.00		
23	3.10	7.50	6.10	1.90	3.90	1.70	32.50	39.80	7.00	7.50	11.10	8.50		
24	3.10	8.50	5.60	1.60	8.50	1.40	55.40	37.60	6.50	6.50	4.30	8.50		
25	3.90	8.50	5.60	1.60	10.60	0.50	57.70	34.50	6.10	6.50	6.10	30.50		
26	2.30	7.50	5.60	1.20	9.00	0.50	61.50	32.50	5.20	6.10	8.50	25.70		
27	2.30	7.50	6.10	1.00	7.00	0.50	113.40	30.50	3.90	5.20	11.60	12.90		
28	2.20	9.50	6.10	1.00	7.50	0.70	139.50	30.50	3.90	3.10	11.10	11.10		
29	1.60	9.00	6.10	0.80	7.50	0.90	141.70	30.50	6.50	3.10		11.10		
30	1.30	9.00	4.70	0.80	7.00	0.90	118.80	30.50	4.70	2.30		8.50		
31		8.00		0.80	6.50		102.60		6.10	3.90		3.90		
Total	157.50	286.70	212.50	70.50	109.10	130.30	1934.80	3896.10	387.20	171.80	118.70	364.90	7840.10	**Ton**
Mean	5.30	9.20	7.10	2.30	3.50	4.30	62.40	129.90	12.50	5.50	4.20	11.80		
Max	14.20	21.50	9.50	4.70	10.60	11.10	141.70	570.70	27.50	8.50	20.70	30.50	570.70	
Min	1.30	1.20	4.70	0.80	0.80	0.50	1.00	30.50	3.90	2.30	1.40	3.90	0.50	

WATER YEAR : 2014

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	2014
Number of observation	22
R-Square	0.8410
Remarks	Continued Sediment Station

$$QS = 0.5450\ QW^{1.65200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	1.30	1.30	2.00	2.20	3.50	8.30	14.90	11.10	3.80	2.50	2.00		
2	1.00	1.00	1.60	1.90	1.90	3.00	14.90	14.20	9.90	3.80	2.50	3.50		
3	1.00	1.00	1.70	1.90	1.90	3.00	14.90	14.20	9.90	3.80	2.50	3.50		
4	1.40	0.90	1.60	1.70	1.90	3.00	14.90	14.20	9.90	3.80	2.50	3.80		
5	1.40	0.90	1.30	1.30	2.20	2.50	12.30	390.50	8.30	3.30	2.70	4.40		
6	1.10	1.00	1.10	1.30	2.50	2.20	10.50	166.60	8.30	3.30	2.50	3.80		
7	1.10	3.00	1.10	1.30	2.70	2.30	20.50	127.00	8.30	3.30	2.30	3.50		
8	1.00	1.70	1.10	1.40	3.30	2.50	650.30	106.00	7.80	3.00	2.30	3.30		
9	0.80	1.20	1.20	1.60	2.70	3.00	593.80	81.40	6.80	4.40	2.20	3.30		
10	0.80	1.00	1.60	3.00	2.30	2.20	186.50	59.90	6.80	4.10	2.20	3.00		
11	0.70	1.00	2.50	9.40	2.20	2.30	85.90	47.80	6.80	4.70	2.20	3.00		
12	0.70	0.90	2.50	6.30	2.20	2.20	54.30	54.30	6.80	5.10	2.00	2.70		
13	0.80	0.90	2.50	4.10	2.00	1.70	83.60	43.10	6.80	4.70	1.90	2.70		
14	0.80	0.90	2.50	3.00	1.90	1.60	81.40	35.80	6.30	4.10	1.90	2.30		
15	0.80	0.90	3.30	2.30	1.90	1.60	52.60	29.10	5.80	3.80	1.90	2.00		
16	0.90	1.00	4.40	2.20	1.40	1.40	31.70	25.50	5.10	3.50	1.90	1.30		
17	0.90	0.90	4.70	2.00	1.30	1.40	20.50	21.50	4.70	3.50	1.70	1.10		
18	0.90	0.90	6.30	1.90	1.30	2.00	15.50	18.70	4.70	3.30	1.70	0.90		
19	0.90	0.90	6.30	1.90	1.20	5.80	14.20	17.80	4.40	3.30	1.70	0.80		
20	0.90	0.90	4.40	2.20	1.70	4.10	15.50	16.20	4.40	3.30	1.70	0.80		
21	0.90	0.80	3.50	3.30	2.00	2.50	30.40	14.90	4.10	3.00	1.70	0.70		
22	0.90	0.80	3.30	3.00	11.10	1.90	16.90	13.60	4.10	3.00	2.30	0.70		
23	0.90	0.80	2.70	2.30	4.70	1.90	22.50	12.90	3.80	3.00	3.30	0.80		
24	1.00	0.80	2.50	2.20	7.30	1.90	20.50	11.70	4.40	3.00	3.00	0.90		
25	1.00	0.80	2.30	1.90	7.30	4.10	38.70	11.10	3.80	2.70	2.70	1.70		
26	1.10	0.90	3.00	1.60	5.10	5.10	27.80	10.50	3.30	2.70	2.50	2.20		
27	1.00	0.90	4.70	2.00	4.70	3.50	17.80	9.40	2.70	2.70	2.30	1.10		
28	1.00	1.10	4.10	2.20	12.90	4.40	17.80	8.80	7.80	2.70	2.20	1.10		
29	1.10	1.10	3.00	3.00	6.80	16.20	31.70	8.80	7.30	2.50		1.30		
30	1.20	1.10	2.50	3.50	5.10	14.20	16.90	8.30	4.70	2.50		1.40		
31		1.20		2.70	4.70		14.20		4.10	2.50		1.70		
Total	28.90	32.50	84.60	80.40	112.40	107.00	2237.30	1408.70	193.00	106.20	62.80	65.30	4519.10	**Ton**
Mean	1.00	1.00	2.80	2.60	3.60	3.60	72.20	47.00	6.20	3.40	2.20	2.10		
Max	1.40	3.00	6.30	9.40	12.90	16.20	650.30	390.50	11.10	5.10	3.30	4.40	650.30	
Min	0.70	0.80	1.10	1.30	1.20	1.40	8.30	8.30	2.70	2.50	1.70	0.70	0.70	

WATER YEAR : 2014

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	2014
Number of observation	19
R-Square	0.8140
Remarks	Continued Sediment Station

$$QS = 0.1500\ QW^{1.96200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.60	0.80	3.30	61.70	64.30	61.70	14.60	6.40	1.10	1.90	0.40		
2	0.60	0.60	1.90	3.00	131.40	47.40	202.50	14.60	6.10	1.10	1.00	0.40		
3	0.60	0.50	1.10	3.30	86.60	131.40	89.60	13.70	6.10	1.10	1.00	0.40		
4	0.70	0.50	0.80	9.30	413.60	96.50	54.30	14.60	5.70	1.10	1.00	0.40		
5	0.90	0.50	0.80	6.40	808.80	69.50	61.70	59.20	6.10	1.10	0.90	0.40		
6	0.80	0.60	0.70	4.40	355.70	61.70	61.70	35.40	6.10	1.10	0.90	0.40		
7	0.80	4.10	0.60	3.50	240.40	103.60	47.40	32.10	6.10	1.10	0.90	0.40		
8	0.80	2.10	0.80	4.40	346.40	80.70	35.40	32.10	5.70	1.10	0.90	0.30		
9	0.60	1.10	1.50	28.90	519.80	61.70	61.70	22.00	5.40	1.10	0.90	0.40		
10	0.60	0.80	4.70	384.10	374.50	47.40	69.50	19.00	5.40	1.10	0.90	0.40		
11	0.60	0.80	4.10	475.90	233.90	47.40	49.70	15.40	5.00	1.10	0.90	0.30		
12	0.60	0.70	3.30	131.40	184.80	45.20	43.10	13.70	5.00	1.00	1.00	0.40		
13	1.10	0.90	5.70	93.00	131.40	52.00	45.20	12.90	4.70	1.10	1.00	0.30		
14	1.90	0.90	4.70	49.70	107.30	52.00	32.10	11.40	4.70	1.10	0.90	0.30		
15	6.40	0.70	6.80	28.90	89.60	54.30	25.90	10.70	4.70	1.10	0.80	0.30		
16	2.10	0.60	9.30	24.40	72.30	45.20	21.00	10.00	4.70	1.00	0.80	0.30		
17	1.70	0.60	19.00	16.30	59.20	69.50	18.10	9.30	4.70	1.00	1.00	0.30		
18	1.30	0.60	19.00	15.40	52.00	122.50	16.30	8.70	4.40	1.10	1.00	0.30		
19	1.00	0.60	24.40	56.70	41.00	114.80	14.60	8.00	4.40	1.10	0.90	0.30		
20	1.30	0.70	13.70	754.00	52.00	75.00	13.70	7.40	4.70	1.00	1.00	0.30		
21	1.20	0.60	6.80	822.70	49.70	54.30	27.30	6.80	4.40	1.00	0.80	0.30		
22	1.10	0.60	5.70	553.90	43.10	45.20	14.60	6.80	4.40	1.00	0.90	0.30		
23	0.80	0.60	4.70	233.90	41.00	35.40	35.40	7.40	4.40	1.00	0.90	0.30		
24	0.80	0.60	4.70	122.50	33.70	32.10	27.30	6.80	4.40	1.10	0.90	0.30		
25	0.70	0.60	5.00	100.00	43.10	28.90	35.40	6.80	4.70	1.00	0.90	0.30		
26	0.80	0.80	10.00	64.30	35.40	38.90	24.40	6.80	4.70	1.00	0.80	0.30		
27	0.80	0.60	12.20	72.30	30.40	28.90	24.40	6.80	4.70	1.00	0.80	0.30		
28	0.90	0.80	6.40	131.40	32.10	30.40	18.10	6.80	4.70	1.00	0.80	0.30		
29	0.80	1.10	4.70	136.30	54.30	64.30	15.40	8.70	4.70	1.00		0.30		
30	0.70	1.10	3.50	89.60	59.20	45.20	18.10	6.80	4.40	1.00		0.30		
31		0.80		75.00	52.00		14.60		4.10	1.10		0.30		
Total	33.60	26.70	187.40	4498.20	4836.40	1845.70	1280.20	435.30	155.70	32.80	26.40	10.30	13368.70	**Ton**
Mean	1.10	0.90	6.20	145.10	156.00	61.50	41.30	14.50	5.00	1.10	0.90	0.30		
Max	6.40	4.10	24.40	822.70	808.80	131.40	202.50	59.20	6.40	1.10	1.90	0.40	822.70	
Min	0.60	0.50	0.60	3.00	30.40	28.90	13.70	6.80	4.10	1.00	0.80	0.30	0.30	

WATER YEAR : 2014

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	2014
Number of observation	25
R-Square	0.8140
Remarks	Continued Sediment Station

$$QS = 1.5000\ QW^{1.78300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.20	0.20	0.40	0.40	3.20	3.20	5.20	0.50	0.10	0.00	0.00		
2	0.10	0.20	0.50	0.40	0.50	3.60	25.90	6.90	0.60	0.10	0.00	0.00		
3	0.10	0.10	0.80	0.40	0.50	2.70	14.10	9.90	0.50	0.10	0.00	0.00		
4	0.20	0.10	0.40	0.30	0.80	2.30	4.90	80.40	0.50	0.10	0.00	0.00		
5	2.30	0.10	0.40	0.20	2.50	1.80	2.90	170.10	0.50	0.10	0.00	0.00		
6	1.00	0.10	0.40	0.20	2.20	1.50	8.00	127.70	0.50	0.10	0.00	0.00		
7	0.70	0.20	0.20	0.20	1.80	1.30	9.90	98.40	0.40	0.10	0.00	0.00		
8	0.50	0.70	0.20	0.20	2.50	1.10	14.70	54.20	0.30	0.10	0.00	0.00		
9	0.40	0.80	0.20	0.20	3.60	1.00	734.60	40.60	0.30	0.40	0.00	0.00		
10	0.30	0.50	0.20	0.40	2.60	0.90	439.30	27.20	0.30	0.40	0.00	0.00		
11	0.20	0.40	0.20	0.50	2.00	0.80	164.80	17.40	0.30	0.20	0.00	0.00		
12	0.20	0.30	0.20	0.60	1.60	2.00	83.10	9.90	0.30	0.20	0.00	0.00		
13	0.20	0.20	0.30	0.50	1.30	1.50	52.20	7.60	0.20	0.20	0.00	0.00		
14	0.20	0.20	0.40	0.50	1.00	1.50	29.90	5.50	0.20	0.10	0.00	0.00		
15	0.80	0.20	0.40	0.60	1.20	1.00	18.40	4.10	0.20	0.10	0.00	0.00		
16	0.60	0.20	0.40	0.60	2.50	0.70	10.40	3.40	0.20	0.10	0.00	0.00		
17	0.60	0.10	0.40	0.50	6.50	0.60	7.30	2.70	0.20	0.10	0.00	0.00		
18	0.60	0.10	0.90	0.50	2.30	0.60	4.90	2.30	0.20	0.10	0.00	0.00		
19	0.40	0.20	1.80	0.50	2.10	0.50	3.90	1.80	0.20	0.10	0.00	0.00		
20	0.30	0.10	1.20	0.60	1.60	0.40	2.70	1.60	0.10	0.10	0.00	0.00		
21	0.40	0.10	0.80	0.60	1.80	0.30	2.20	1.60	0.10	0.10	0.00	0.00		
22	0.40	0.10	0.60	0.60	2.10	0.20	2.60	1.40	0.10	0.10	0.00	0.00		
23	0.30	0.20	0.60	0.80	1.60	0.20	28.60	1.20	0.10	0.10	0.00	0.00		
24	0.20	0.30	0.50	0.70	1.80	0.20	48.20	1.10	0.10	0.10	0.00	0.00		
25	0.20	0.20	0.50	0.60	1.80	0.20	34.20	0.80	0.10	0.00	0.00	0.00		
26	0.60	0.20	0.50	0.50	1.50	0.30	32.80	0.80	0.10	0.00	0.00	0.00		
27	0.40	0.50	0.80	0.50	1.70	0.50	28.60	0.70	0.10	0.00	0.00	0.00		
28	0.80	0.90	0.60	0.60	11.00	0.50	15.60	0.80	0.10	0.00	0.00	0.00		
29	0.40	0.50	0.50	0.60	3.90	3.40	10.40	0.80	0.10	0.00		0.70		
30	0.30	0.40	0.50	0.50	2.50	3.40	8.00	0.60	0.10	0.00		0.20		
31		0.30		0.40	2.20		6.90		0.10	0.00		0.30		
Total	13.80	8.70	15.60	14.70	71.40	38.20	1853.20	686.70	7.60	3.30	0.00	1.20	2714.40	**Ton**
Mean	0.50	0.30	0.50	0.50	2.30	1.30	59.80	22.90	0.20	0.10	0.00	0.00		
Max	2.30	0.90	1.80	0.80	11.00	3.60	734.60	170.10	0.60	0.40	0.00	0.70	734.60	
Min	0.10	0.10	0.20	0.20	0.40	0.20	2.20	0.60	0.10	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2000-2014
Number of observation	325
R-Square	0.8410
Remarks	Continued Sediment Station

$$QS = 2.8590\ QW^{1.88900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.10	0.00	0.20	1.90	1.50	53.80	0.80	0.10	0.10	0.00	0.00		
2	0.30	0.10	0.00	0.20	1.90	1.50	51.10	0.80	0.10	0.10	0.00	0.00		
3	0.30	0.10	0.00	0.20	2.90	7.80	43.80	0.80	0.10	0.10	0.00	0.00		
4	0.30	0.10	0.10	0.20	16.40	5.40	32.80	0.80	0.10	0.10	0.00	0.00		
5	0.30	0.10	0.10	0.20	16.40	2.90	20.70	17.80	0.10	0.10	0.00	0.00		
6	0.30	0.10	0.10	0.20	5.40	1.50	16.40	6.10	0.10	0.10	0.00	0.00		
7	0.20	0.10	0.10	0.20	2.30	1.50	16.40	2.90	0.10	0.10	0.00	0.00		
8	0.20	0.10	0.10	0.20	2.30	1.50	10.60	2.30	0.10	0.10	0.00	0.00		
9	0.20	0.10	0.20	0.20	2.30	1.50	8.70	1.90	0.10	0.10	0.00	0.00		
10	0.20	0.10	0.20	0.20	2.30	1.50	6.10	1.50	0.10	0.10	0.00	0.00		
11	0.20	0.10	0.20	0.20	2.90	7.80	4.70	1.50	0.10	0.10	0.00	0.00		
12	0.20	0.10	0.20	0.20	2.90	5.40	4.00	1.50	0.10	0.10	0.00	0.00		
13	0.20	0.10	0.20	0.20	2.90	4.70	3.40	1.50	0.10	0.10	0.00	0.00		
14	0.20	0.10	0.00	0.20	4.70	4.70	2.90	1.10	0.10	0.10	0.00	0.00		
15	0.20	0.10	0.10	0.20	2.90	5.40	2.30	0.80	0.10	0.10	0.00	0.00		
16	0.20	0.10	0.10	1.90	2.90	4.70	1.90	0.80	0.10	0.10	0.00	0.00		
17	0.20	0.10	0.10	1.50	1.90	3.40	1.90	0.80	0.10	0.00	0.00	0.00		
18	0.10	0.10	0.10	1.50	1.50	4.00	1.90	0.80	0.10	0.00	0.00	0.00		
19	0.10	0.10	0.20	1.10	1.50	4.70	1.90	0.30	0.10	0.00	0.00	0.00		
20	0.10	0.10	0.20	1.10	1.50	4.00	1.90	0.30	0.10	0.00	0.00	0.00		
21	0.10	0.10	0.20	0.80	1.50	2.90	1.50	0.30	0.10	0.00	0.00	0.00		
22	0.10	0.10	0.20	0.80	1.10	2.30	1.50	0.20	0.10	0.00	0.00	0.00		
23	0.10	0.10	0.20	0.80	0.80	1.90	1.50	0.20	0.10	0.00	0.00	0.00		
24	0.10	0.10	0.20	0.80	0.80	1.90	1.50	0.20	0.10	0.00	0.00	0.00		
25	0.10	0.10	0.20	0.80	0.50	1.90	1.50	0.20	0.10	0.00	0.00	0.00		
26	0.10	0.10	0.30	0.80	0.30	1.90	1.10	0.20	0.10	0.00	0.00	0.00		
27	0.10	0.10	0.30	1.50	0.30	2.30	1.10	0.10	0.10	0.00	0.00	0.00		
28	0.10	0.10	0.20	2.30	1.50	4.70	1.10	0.10	0.10	0.00	0.00	0.00		
29	0.10	0.10	0.20	2.30	1.50	17.80	1.10	0.10	0.10	0.00		0.00		
30	0.10	0.00	0.20	1.90	1.50	28.90	1.10	0.10	0.10	0.00		0.00		
31		0.00		1.90	1.50		1.10		0.10	0.00		0.00		
Total	5.30	2.90	4.50	24.80	91.00	141.90	301.30	46.80	3.10	1.60	0.00	0.00	623.20	**Ton**
Mean	0.20	0.10	0.20	0.80	2.90	4.70	9.70	1.60	0.10	0.10	0.00	0.00		
Max	0.30	0.10	0.30	2.30	16.40	28.90	53.80	17.80	0.10	0.10	0.00	0.00	53.80	
Min	0.10	0.00	0.00	0.20	0.30	1.50	1.10	0.10	0.10	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	1998-2014
Number of observation	408
R-Square	0.7650
Remarks	Continued Sediment Station

$$QS = 3.7800\ QW^{1.31400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	0.90	0.90	1.10	1.90	2.10	8.90	1.90	1.20	1.00	1.10	1.00		
2	1.00	0.90	1.00	1.20	1.70	1.90	8.20	1.70	1.20	1.00	1.10	1.00		
3	1.00	0.90	1.00	1.20	1.70	1.90	6.60	1.60	1.20	1.00	1.10	1.00		
4	1.00	0.90	1.00	1.20	3.20	1.90	4.60	1.60	1.20	1.00	1.10	1.00		
5	1.00	0.90	1.00	1.20	2.80	1.90	6.60	3.20	1.20	1.00	1.10	1.00		
6	1.20	0.90	1.00	1.20	2.70	1.90	4.10	2.40	1.20	1.00	1.10	1.00		
7	1.10	1.00	1.00	1.20	2.80	2.20	2.80	2.10	1.20	1.00	1.00	1.00		
8	1.10	1.00	1.10	1.20	2.50	2.10	2.50	2.40	1.20	1.00	1.00	1.00		
9	1.10	1.00	1.10	1.50	3.70	2.10	2.70	3.70	1.20	1.30	1.00	1.10		
10	1.10	1.00	1.10	1.70	2.70	1.90	2.80	2.50	1.20	1.50	1.00	1.10		
11	1.10	1.00	1.10	1.70	2.40	2.10	2.70	2.20	1.20	1.50	1.00	1.10		
12	1.10	1.00	1.20	1.70	2.20	1.90	2.50	2.10	1.10	1.30	1.00	1.00		
13	1.10	1.00	1.20	1.70	2.20	2.10	2.70	1.90	1.10	1.10	1.00	1.00		
14	1.10	0.90	1.20	10.30	2.10	2.10	2.20	1.70	1.10	1.10	1.00	1.00		
15	2.20	0.90	1.30	2.40	2.10	1.70	2.10	1.70	1.10	1.10	1.00	1.00		
16	1.50	0.90	1.30	2.20	1.90	1.60	1.90	1.60	1.10	1.10	1.00	0.90		
17	1.10	0.90	2.10	2.40	1.70	1.70	1.90	1.60	1.10	1.10	1.00	0.90		
18	1.10	0.80	1.90	2.10	1.70	2.10	1.90	1.60	1.10	1.10	1.00	0.90		
19	1.10	0.80	1.70	2.80	1.60	1.90	1.60	1.50	1.10	1.10	1.00	0.70		
20	1.10	0.80	1.60	4.10	1.50	1.70	1.60	1.50	1.10	1.10	1.00	0.60		
21	1.10	0.80	1.30	3.20	1.60	1.60	1.60	1.50	1.10	1.10	1.00	0.70		
22	1.10	0.80	1.30	2.70	3.70	1.60	1.60	1.50	1.10	1.10	1.00	0.80		
23	1.10	0.90	1.50	2.20	1.90	1.50	1.60	1.50	1.10	1.10	1.10	0.90		
24	1.10	0.90	1.30	1.90	1.60	1.50	1.90	1.50	1.10	1.10	1.10	1.10		
25	1.10	0.90	1.30	2.10	1.90	1.60	2.10	1.50	1.10	1.10	1.10	0.80		
26	1.10	2.10	1.50	1.90	1.60	1.50	1.90	1.50	1.10	1.10	1.10	0.90		
27	1.00	0.90	1.50	1.90	1.70	1.50	1.90	1.30	1.10	1.10	1.10	0.90		
28	1.00	1.00	1.50	1.70	1.70	1.50	1.90	1.30	1.10	1.10	1.10	0.80		
29	1.00	1.00	1.30	1.90	1.70	1.50	2.70	1.30	1.10	1.10		1.50		
30	1.00	1.00	1.20	1.70	1.90	1.70	2.20	1.20	1.10	1.10		1.10		
31		1.00		2.40	1.90		1.70		1.10	1.10		1.10		
Total	33.80	29.70	38.50	67.70	66.30	54.30	92.00	54.60	35.20	34.50	29.20	29.90	565.70	**Ton**
Mean	1.10	1.00	1.30	2.20	2.10	1.80	3.00	1.80	1.10	1.10	1.00	1.00		
Max	2.20	2.10	2.10	10.30	3.70	2.20	8.90	3.70	1.20	1.50	1.10	1.50	10.30	
Min	1.00	0.80	0.90	1.10	1.50	1.50	1.60	1.20	1.10	1.00	1.00	0.60	0.60	

WATER YEAR : 2014

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	1998-2014
Number of observation	350
R-Square	0.8310
Remarks	Continued Sediment Station

$$QS = 4.0050\ QW^{1.41800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	0.40	6.80	0.50	3.40	4.90	4.60	3.70	3.40	0.90	2.90	0.00		
2	0.80	0.30	4.00	0.60	3.20	4.60	4.00	3.40	3.40	0.90	0.80	0.00		
3	0.80	0.30	1.30	0.80	3.70	10.50	3.40	3.20	3.40	0.80	0.20	0.00		
4	0.80	0.30	0.80	0.80	12.00	6.10	3.40	3.20	3.40	0.80	0.10	0.00		
5	0.80	0.30	0.50	0.80	10.90	5.20	18.40	8.10	3.40	0.80	0.10	0.00		
6	1.00	0.50	0.50	0.80	10.90	4.90	15.80	4.00	3.40	0.80	0.10	0.00		
7	1.00	1.10	0.50	0.80	10.00	4.60	10.50	4.00	3.40	0.80	0.10	0.00		
8	0.80	2.70	0.50	0.80	10.50	13.20	9.10	3.70	3.40	0.80	0.10	0.00		
9	0.80	0.50	0.50	1.10	10.00	10.50	6.80	3.70	3.20	1.50	0.10	0.90		
10	0.50	0.50	0.50	1.90	31.60	6.80	6.10	3.40	2.90	1.70	0.10	0.10		
11	0.50	0.50	0.50	2.40	12.00	6.10	5.50	3.20	2.70	2.20	0.10	0.00		
12	0.50	0.50	0.80	2.90	9.50	5.20	5.20	3.20	2.70	1.90	0.10	0.00		
13	0.50	0.50	1.00	4.00	6.50	5.50	4.90	2.70	2.70	1.70	0.10	0.00		
14	0.50	0.50	1.10	5.50	4.90	4.90	4.90	2.40	2.70	1.10	0.10	0.00		
15	0.50	0.50	1.30	7.30	4.90	4.00	4.30	2.40	2.40	1.00	0.00	0.00		
16	0.50	0.40	1.30	10.00	4.00	3.70	3.40	2.20	2.40	0.90	0.00	0.00		
17	0.50	0.40	3.20	9.50	3.40	3.40	2.90	2.20	2.40	0.80	0.00	0.00		
18	0.50	0.40	3.40	12.60	2.90	4.30	3.20	1.90	2.40	0.60	0.00	0.00		
19	0.50	0.40	2.40	16.40	2.40	4.00	3.40	1.70	2.40	0.50	0.00	0.00		
20	0.50	0.40	1.70	13.90	2.40	4.00	4.00	1.50	2.20	0.50	0.00	0.00		
21	0.50	1.10	1.50	6.50	2.40	3.70	6.10	1.50	2.20	0.40	0.50	0.00		
22	0.50	1.00	1.00	6.50	16.40	3.40	5.50	1.30	2.20	0.30	0.40	0.00		
23	0.50	0.80	0.90	5.20	10.90	3.40	5.80	1.30	1.90	0.20	0.20	0.00		
24	0.50	0.60	0.80	4.60	5.20	2.70	10.90	1.10	1.90	0.20	0.10	0.00		
25	0.50	0.60	0.80	3.40	3.40	3.20	9.50	1.10	1.70	0.20	0.10	0.00		
26	0.50	0.50	0.80	4.00	3.20	3.20	7.30	1.10	1.50	0.10	0.10	0.00		
27	0.50	1.00	0.60	3.40	2.70	3.40	5.20	1.10	1.30	0.10	0.10	0.10		
28	0.50	0.60	0.60	3.20	2.70	3.40	4.00	1.00	1.30	0.10	0.10	0.10		
29	0.50	0.60	0.60	3.20	2.90	3.70	3.40	1.00	1.10	0.10		0.10		
30	0.40	0.60	0.60	3.40	3.20	3.70	4.90	1.00	1.10	0.10		0.10		
31		0.60		4.00	3.40		3.40		1.10	0.10		0.10		
Total	18.00	19.40	40.80	140.80	215.50	150.20	189.80	75.30	75.60	22.90	6.60	1.50	956.40	**Ton**
Mean	0.60	0.60	1.40	4.50	7.00	5.00	6.10	2.50	2.40	0.70	0.20	0.00		
Max	1.00	2.70	6.80	16.40	31.60	13.20	18.40	8.10	3.40	2.20	2.90	0.90	31.60	
Min	0.40	0.30	0.50	0.50	2.40	2.70	2.90	1.00	1.10	0.10	0.00	0.00	0.00	

WATER YEAR : 2014

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	1998-2014
Number of observation	238
R-Square	0.8830
Remarks	Continued Sediment Station

$$QS = 7.1670\ QW^{1.55600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.30	1.20	0.70	0.70	1.00	9.50	31.70	2.20	1.00	0.20	0.10		
2	0.30	0.30	1.20	0.70	0.70	1.00	41.70	28.00	2.80	1.00	0.20	0.10		
3	1.60	0.30	1.00	0.70	0.70	2.20	13.50	214.30	2.40	0.90	0.20	0.10		
4	1.00	0.30	1.20	0.70	0.70	2.00	7.20	885.50	2.20	0.70	0.20	0.10		
5	0.60	0.30	7.70	0.70	0.70	1.60	5.10	377.70	2.20	0.70	0.20	0.10		
6	0.60	8.30	6.60	0.70	0.70	1.40	9.50	214.30	2.20	0.70	0.20	0.10		
7	0.60	299.90	2.40	0.70	0.90	1.20	62.00	152.00	2.00	0.60	0.20	0.10		
8	0.50	19.50	1.80	0.70	0.70	1.60	306.70	143.40	2.20	0.50	0.10	0.10		
9	0.60	9.50	1.40	0.70	0.70	1.60	764.00	86.60	2.20	1.20	0.20	0.10		
10	0.60	6.60	1.40	0.70	0.70	1.80	293.10	72.10	2.00	1.40	0.10	0.10		
11	1.20	4.60	1.20	0.70	0.70	2.40	147.70	48.10	2.00	1.00	0.10	0.10		
12	10.10	3.70	1.20	0.70	0.70	2.80	69.30	35.60	2.00	1.00	0.10	0.10		
13	2.80	2.80	1.20	0.70	0.70	1.60	39.60	28.00	1.80	1.00	0.10	0.10		
14	1.20	2.40	1.20	0.70	0.70	1.40	29.80	22.10	1.80	0.90	0.10	0.10		
15	0.90	2.00	1.20	0.70	4.10	2.00	23.40	17.00	1.60	0.70	0.10	0.10		
16	0.70	2.00	1.00	0.70	2.80	2.20	15.80	13.50	1.60	0.60	0.10	0.10		
17	0.60	2.00	1.00	0.70	1.00	1.40	12.80	11.40	1.60	0.60	0.10	0.10		
18	0.60	1.80	1.00	0.70	0.90	1.00	10.80	9.50	1.40	0.50	0.10	0.10		
19	0.50	1.80	1.00	0.70	5.60	0.90	8.90	8.90	1.40	0.50	0.10	0.10		
20	0.40	1.60	1.00	0.70	8.90	0.90	7.70	7.70	1.40	0.50	0.10	0.10		
21	0.40	1.60	1.00	0.70	9.50	0.90	8.90	6.60	1.20	0.40	0.10	0.10		
22	0.40	1.40	1.00	0.70	2.80	0.90	11.40	6.10	1.20	0.40	0.10	0.10		
23	0.40	1.60	0.90	0.70	1.40	0.70	274.90	5.60	1.20	0.40	0.10	0.10		
24	0.40	1.40	0.90	0.70	2.20	0.60	160.70	5.10	1.00	0.40	0.10	0.10		
25	0.40	2.20	0.90	0.70	1.60	4.60	165.10	4.10	1.00	0.40	0.10	0.10		
26	0.40	12.80	0.90	0.70	1.20	17.00	174.10	3.70	1.00	0.30	0.10	0.10		
27	0.40	2.80	0.90	0.70	1.80	15.80	147.70	2.80	1.00	0.30	0.10	0.10		
28	0.30	2.00	0.70	0.70	8.30	17.00	74.90	2.80	1.40	0.30	0.10	0.10		
29	0.30	2.00	0.70	0.70	3.70	72.10	112.80	2.80	1.20	0.30		0.10		
30	0.30	1.80	0.70	0.70	1.60	24.80	109.30	2.20	1.20	0.20		0.10		
31		1.60		0.70	1.20		48.10		1.00	0.20		0.10		
Total	29.40	401.20	45.50	21.70	68.60	186.40	3166.00	2449.20	51.40	19.60	3.60	3.10	6445.70	**Ton**
Mean	1.00	12.90	1.50	0.70	2.20	6.20	102.10	81.60	1.70	0.60	0.10	0.10		
Max	10.10	299.90	7.70	0.70	9.50	72.10	764.00	885.50	2.80	1.40	0.20	0.10	885.50	
Min	0.30	0.30	0.70	0.70	0.70	0.60	5.10	2.20	1.00	0.20	0.10	0.10	0.10	

WATER YEAR : 2014

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	2002-2014
Number of observation	349
R-Square	0.8130
Remarks	Continued Sediment Station

$$QS = 3.9880\ QW^{1.38100}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	0.80	2.40	1.00	5.40	3.80	8.70	3.80	1.50	0.60	0.20	0.00		
2	1.10	0.80	2.20	1.00	4.60	3.80	19.20	3.80	1.30	0.60	0.20	0.00		
3	1.10	0.80	1.50	0.90	14.10	14.80	25.20	4.60	1.30	0.60	0.20	0.00		
4	1.10	0.80	1.10	0.90	31.00	8.20	14.80	4.20	1.30	0.60	0.10	0.00		
5	1.50	0.80	1.10	0.90	11.60	7.60	9.80	4.20	1.10	0.60	0.10	0.00		
6	1.70	0.80	1.10	0.90	7.60	5.40	6.30	3.80	1.10	0.60	0.10	0.00		
7	1.70	1.10	1.00	0.90	9.30	5.00	6.30	3.40	1.10	0.60	0.10	0.00		
8	1.50	1.00	1.00	1.10	15.50	4.60	5.90	3.40	1.10	0.60	0.10	0.00		
9	1.50	0.90	1.00	2.70	21.60	4.60	5.90	3.20	1.10	0.60	0.10	0.10		
10	1.30	0.80	1.00	3.80	13.40	8.70	5.40	3.20	1.00	0.80	0.10	0.10		
11	1.30	0.80	1.10	6.70	7.20	14.80	5.40	2.90	1.00	0.80	0.00	0.00		
12	1.30	0.80	1.10	4.60	16.90	11.60	5.00	2.90	1.00	0.80	0.00	0.00		
13	2.40	0.60	1.10	3.80	9.80	10.40	5.00	2.90	1.00	0.80	0.00	0.00		
14	2.20	0.60	1.10	3.20	6.70	8.20	4.60	2.70	0.90	0.80	0.00	0.00		
15	6.70	0.50	1.10	2.90	7.60	7.60	4.60	2.70	0.90	0.80	0.00	0.00		
16	3.20	0.50	1.10	5.00	7.60	7.20	4.20	2.40	0.90	0.60	0.00	0.00		
17	1.70	0.50	3.20	4.20	7.20	6.70	3.80	2.40	0.90	0.60	0.00	0.00		
18	1.50	0.50	2.90	3.40	6.30	6.70	4.60	2.40	0.90	0.60	0.00	0.00		
19	1.50	0.50	2.40	3.40	5.00	5.90	4.20	2.40	0.90	0.50	0.00	0.00		
20	1.30	0.50	1.70	5.00	4.60	5.40	4.20	2.40	0.90	0.50	0.00	0.00		
21	1.30	0.40	1.50	4.20	5.40	5.40	5.40	2.20	0.90	0.50	0.00	0.00		
22	1.10	0.40	1.10	3.80	7.20	5.00	5.00	2.20	0.90	0.40	0.00	0.10		
23	1.10	0.40	1.10	3.80	4.60	5.40	4.60	2.20	0.90	0.40	0.00	0.10		
24	1.10	0.40	1.10	3.80	4.20	5.90	4.60	2.20	0.80	0.40	0.00	0.00		
25	1.30	0.40	1.10	5.00	3.80	6.30	4.20	2.20	0.80	0.30	0.00	0.00		
26	1.00	0.40	1.10	3.40	3.40	6.30	4.20	2.00	0.80	0.30	0.00	0.00		
27	0.90	0.30	2.00	8.20	3.40	5.90	3.80	2.00	0.80	0.30	0.00	0.00		
28	0.90	0.30	1.70	9.30	3.40	5.40	3.40	2.00	0.80	0.20	0.00	0.00		
29	0.90	0.30	1.50	7.20	3.40	5.00	3.40	1.70	0.80	0.20		0.00		
30	0.90	0.30	1.50	5.00	3.40	5.00	4.20	1.70	0.80	0.20		0.00		
31		0.30		5.90	3.40		4.60		0.80	0.20		0.00		
Total	47.20	18.30	43.90	115.90	258.60	206.60	200.50	84.10	30.30	16.40	1.30	0.40	1023.50	**Ton**
Mean	1.60	0.60	1.50	3.70	8.30	6.90	6.50	2.80	1.00	0.50	0.00	0.00		
Max	6.70	1.10	3.20	9.30	31.00	14.80	25.20	4.60	1.50	0.80	0.20	0.10	31.00	
Min	0.90	0.30	1.00	0.90	3.40	3.80	3.40	1.70	0.80	0.20	0.00	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	33
R-Square	0.9250
Remarks	Continued Sediment Station

$$QS = 0.6280\ QW^{1.69800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.60	13.20	0.00	3.50	4.10	13.20	42.10	98.20	13.20	3.00	0.70	0.10		
2	4.60	15.10	0.60	3.00	4.60	8.10	50.20	114.00	14.10	2.00	0.60	0.30		
3	5.90	20.30	6.60	1.50	2.00	7.30	50.20	90.70	11.40	1.70	0.50	0.90		
4	5.30	13.20	13.20	0.90	1.50	6.60	40.30	298.30	9.70	1.40	1.00	1.90		
5	4.60	5.30	9.70	1.30	1.50	5.30	43.90	1086.00	8.90	1.50	0.20	1.10		
6	4.10	4.60	5.30	0.60	1.90	9.70	43.90	431.30	8.90	1.70	0.10	1.00		
7	4.10	20.30	3.00	1.00	4.60	4.10	87.00	283.60	8.90	1.40	0.10	0.90		
8	4.10	43.90	2.00	0.90	4.60	5.30	1049.70	221.60	8.10	1.50	0.10	0.70		
9	4.10	23.80	2.00	0.70	6.60	3.00	2679.10	163.90	5.90	2.00	0.10	0.60		
10	3.50	12.20	3.00	0.70	5.30	1.70	533.50	126.50	4.10	5.30	0.10	0.50		
11	3.50	7.30	4.10	5.90	3.50	1.90	228.20	110.00	3.00	5.30	0.10	0.30		
12	4.10	5.30	5.90	20.30	1.90	1.90	153.60	180.00	3.00	6.60	0.00	0.20		
13	4.10	4.10	7.30	13.20	2.50	1.90	139.50	118.10	4.10	5.30	0.00	0.10		
14	4.60	3.50	7.30	7.30	1.90	1.90	153.60	94.40	7.30	4.10	0.10	0.00		
15	4.60	3.00	6.60	4.60	2.50	1.50	122.30	76.40	6.60	3.00	0.00	0.00		
16	4.60	3.00	8.90	3.50	1.40	1.10	102.10	67.00	5.30	2.00	0.00	0.10		
17	4.60	5.90	8.90	3.00	0.70	1.00	76.40	59.60	4.10	1.70	0.00	0.00		
18	4.60	2.50	9.70	2.50	1.30	0.90	64.50	52.50	4.10	1.40	0.00	0.00		
19	4.60	3.00	17.10	2.00	0.70	0.90	59.60	43.90	4.10	1.40	0.00	0.00		
20	4.60	3.50	14.10	1.30	0.70	3.50	67.00	40.30	3.50	1.30	0.10	0.00		
21	4.10	3.00	10.50	2.50	0.60	4.10	87.00	35.10	2.50	1.40	0.00	0.00		
22	2.50	1.90	8.90	4.10	7.30	1.90	67.00	28.70	2.00	1.30	0.10	0.00		
23	2.00	1.50	6.60	4.60	27.40	1.50	79.90	26.20	1.90	1.30	0.90	0.00		
24	3.00	1.10	4.10	3.50	13.20	1.40	102.10	22.60	2.00	1.50	0.70	0.00		
25	8.10	0.70	3.50	3.50	35.10	3.50	191.00	19.20	1.90	0.60	0.50	0.00		
26	12.20	0.40	3.50	1.70	26.20	28.70	144.00	17.10	1.90	0.70	1.40	0.00		
27	10.50	0.30	5.30	1.70	18.10	14.10	98.20	15.10	1.40	0.70	0.50	0.00		
28	7.30	19.20	10.50	1.90	27.40	8.90	87.00	12.20	3.50	0.70	0.20	0.00		
29	7.30	19.20	7.30	1.90	35.10	17.10	234.80	11.40	18.10	0.70		0.00		
30	6.60	0.20	4.60	2.00	21.40	98.20	153.60	11.40	7.30	0.70		0.00		
31		0.10		5.30	15.10		87.00		4.10	0.70		0.00		
Total	152.40	260.60	200.10	110.40	280.70	260.20	7118.30	3955.30	184.90	63.90	8.10	8.70	12603.60	**Ton**
Mean	5.10	8.40	6.70	3.60	9.10	8.70	229.60	131.80	6.00	2.10	0.30	0.30		
Max	12.20	43.90	17.10	20.30	35.10	98.20	2679.10	1086.00	18.10	6.60	1.40	1.90	2679.10	
Min	2.00	0.10	0.00	0.60	0.60	0.90	40.30	11.40	1.40	0.60	0.00	0.00	0.00	

WATER YEAR : 2014

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	1998-2014
Number of observation	218
R-Square	0.8540
Remarks	Continued Sediment Station

$$QS = 6.5398\ QW^{1.27590}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.60	31.20	43.30	104.90	138.80	1603.20	6268.50	621.60	415.30	111.00	98.80	38.30		
2	26.60	31.20	43.30	92.90	240.80	1939.30	6327.50	559.70	146.60	98.80	92.90	33.50		
3	24.30	33.50	45.80	75.50	559.70	4915.00	2884.10	544.50	146.60	123.40	92.90	33.50		
4	24.30	35.90	48.40	87.00	653.00	4414.20	815.10	443.30	154.40	111.00	92.90	33.50		
5	24.30	35.90	51.00	146.60	203.60	1876.70	700.80	559.70	178.60	111.00	81.20	33.50		
6	24.30	35.90	53.60	131.10	1081.60	865.10	621.60	637.30	178.60	111.00	81.20	33.50		
7	26.60	33.50	51.00	69.90	1059.00	1059.00	500.60	471.80	178.60	111.00	81.20	33.50		
8	26.60	33.50	45.80	58.90	370.00	1196.20	559.70	349.40	170.50	111.00	81.20	33.50		
9	31.20	35.90	40.80	69.90	279.20	575.10	3595.70	308.90	162.40	111.00	81.20	33.50		
10	31.20	35.90	35.90	69.90	203.60	380.40	2129.80	269.50	154.40	111.00	81.20	33.50		
11	31.20	35.90	31.20	48.40	98.80	575.10	1480.90	259.80	146.60	111.00	81.20	33.50		
12	31.20	38.30	28.80	40.80	69.90	782.00	3892.10	240.80	146.60	104.90	81.20	33.50		
13	31.20	51.00	33.50	61.60	61.60	898.90	2422.60	240.80	138.80	104.90	81.20	33.50		
14	28.80	43.30	45.80	146.60	64.30	1242.70	898.90	231.30	138.80	104.90	87.00	33.50		
15	28.80	43.30	75.50	222.00	61.60	4149.70	606.00	222.00	138.80	104.90	92.90	28.80		
16	28.80	43.30	61.60	146.60	48.40	4200.30	486.10	212.70	138.80	98.80	92.90	28.80		
17	28.80	43.30	43.30	111.00	98.80	1702.60	390.90	212.70	138.80	92.90	92.90	28.80		
18	28.80	40.80	43.30	111.00	61.60	1019.10	349.40	186.90	138.80	104.90	92.90	28.80		
19	26.60	40.80	56.20	87.00	43.30	782.00	329.00	178.60	138.80	98.80	92.90	28.80		
20	26.60	38.30	98.80	131.10	40.80	637.30	590.50	131.10	131.10	104.90	92.90	28.80		
21	26.60	38.30	81.20	415.30	56.20	471.80	544.50	131.10	138.80	92.90	92.90	28.80		
22	28.80	38.30	64.30	279.20	92.90	500.60	401.40	131.10	131.10	98.80	92.90	26.60		
23	28.80	38.30	56.20	250.30	170.50	515.10	415.30	138.80	131.10	117.20	92.90	26.60		
24	28.80	43.30	56.20	162.40	231.30	733.10	429.30	146.60	131.10	104.90	92.90	26.60		
25	31.20	38.30	98.80	117.20	162.40	1627.90	359.60	138.80	131.10	98.80	92.90	28.80		
26	31.20	31.20	401.40	117.20	329.00	1432.50	765.60	146.60	123.40	98.80	92.90	28.80		
27	31.20	38.30	329.00	98.80	1480.90	967.10	898.90	154.40	117.20	98.80	92.90	28.80		
28	31.20	48.40	250.30	81.20	2161.90	815.10	1059.00	154.40	111.00	98.80	98.80	28.80		
29	31.20	43.30	154.40	69.90	1907.90	2002.40	1360.70	178.60	131.10	98.80		28.80		
30	31.20	38.30	138.80	178.60	6327.50	2803.40	1783.50	222.00	117.20	111.00		26.60		
31		38.30		329.00	4813.90		815.10		92.90	138.80		28.80		
Total	857.00	1195.00	2607.50	4111.80	23172.80	46682.90	44682.70	8424.80	4637.90	3298.70	2501.80	954.60	143127.50	**Ton**
Mean	28.60	38.50	86.90	132.60	747.50	1556.10	1441.40	280.80	149.60	106.40	89.30	30.80		
Max	31.20	51.00	401.40	415.30	6327.50	4915.00	6327.50	637.30	415.30	138.80	98.80	38.30	6327.50	
Min	24.30	31.20	28.80	40.80	40.80	380.40	329.00	131.10	92.90	92.90	81.20	26.60	24.30	

WATER YEAR : 2014

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	1998-2014
Number of observation	266
R-Square	0.8211
Remarks	Continued Sediment Station

$$QS = 6.9911\ QW^{1.13420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.70	16.70	5.00	146.60	413.80	3364.20	1356.00	636.10	118.20	52.70	58.40	80.30		
2	20.70	16.40	5.00	149.10	473.60	3597.70	1822.90	496.70	208.40	48.50	59.40	72.90		
3	20.30	16.40	5.00	150.40	566.30	3571.80	2326.60	450.70	217.30	41.40	63.50	72.90		
4	20.30	16.00	5.00	196.00	824.60	3901.20	2440.50	408.10	142.90	40.80	63.50	72.90		
5	20.30	16.00	5.00	189.00	1024.70	4084.70	1038.50	639.70	95.20	37.90	64.60	71.80		
6	19.90	15.70	5.20	155.40	844.20	3979.80	650.20	549.00	84.50	32.20	65.60	71.80		
7	19.90	15.30	5.20	166.80	1577.20	3348.40	601.10	413.80	84.50	31.00	65.60	70.80		
8	19.60	14.30	5.40	106.10	2524.30	2824.30	531.80	355.20	84.50	29.90	64.60	70.80		
9	19.20	14.00	5.40	106.10	2319.10	2349.40	538.60	332.60	86.60	28.80	62.50	69.80		
10	19.20	13.60	5.40	106.10	2020.80	1474.60	879.50	247.90	93.10	28.80	62.50	69.80		
11	19.20	13.60	5.40	105.00	1628.80	1038.50	1582.90	224.50	88.80	27.60	62.50	69.80		
12	18.90	13.30	5.40	103.90	1226.10	1006.40	1406.70	212.00	84.50	27.60	61.50	69.80		
13	18.90	13.30	5.40	103.90	911.10	1285.80	2034.40	196.00	84.50	27.10	61.50	68.70		
14	18.90	13.30	5.40	119.40	832.50	1290.80	2034.40	178.50	83.40	25.40	61.50	68.70		
15	18.90	13.30	5.80	272.40	793.50	1412.30	1211.20	156.70	83.40	23.60	61.50	68.70		
16	18.90	13.30	11.90	337.10	754.70	2341.80	716.20	139.10	84.50	21.70	61.50	68.70		
17	18.50	13.30	18.20	312.30	580.20	3332.60	511.20	131.70	84.50	19.90	61.50	67.70		
18	18.50	13.30	27.60	281.20	482.30	3293.20	425.10	129.20	83.40	18.90	64.60	67.70		
19	18.50	12.30	42.00	303.40	411.00	2455.70	346.10	119.40	83.40	18.20	69.80	67.70		
20	18.20	10.90	43.80	332.60	323.60	1774.00	307.90	117.00	83.40	15.30	73.90	66.60		
21	18.20	10.60	50.30	253.40	301.20	1056.80	357.50	107.30	83.40	15.00	73.90	66.60		
22	18.20	9.90	68.70	490.90	294.50	1241.00	411.00	96.30	83.40	14.00	73.90	65.60		
23	17.80	9.30	68.70	521.40	419.40	1196.30	314.60	94.10	81.30	12.90	73.90	65.60		
24	17.80	8.90	102.80	528.30	566.30	1132.10	283.40	80.30	77.10	13.30	75.00	65.60		
25	17.50	8.60	208.40	499.60	597.60	762.50	314.60	79.20	73.90	15.70	79.20	65.60		
26	17.50	7.60	263.60	518.00	562.80	1084.40	290.10	79.20	73.90	17.10	82.40	65.60		
27	17.10	6.80	411.00	549.00	555.90	1112.40	430.80	79.20	73.90	17.10	83.40	65.60		
28	17.10	6.60	396.90	549.00	1372.90	902.00	590.60	79.20	73.90	18.20	83.40	65.60		
29	16.70	6.20	334.80	502.50	1915.10	789.60	639.70	80.30	72.90	23.60		68.70		
30	16.70	5.60	263.60	385.60	2254.30	1132.10	805.20	83.40	67.70	35.60		68.70		
31		5.00		357.50	2777.90		992.70		63.50	63.50		69.80		
Total	562.10	369.40	2391.30	8898.00	32150.30	62136.40	28192.00	6992.40	2883.90	843.30	1895.10	2140.90	149455.10	**Ton**
Mean	18.70	11.90	79.70	287.00	1037.10	2071.20	909.40	233.10	93.00	27.20	67.70	69.10		
Max	20.70	16.70	411.00	549.00	2777.90	4084.70	2440.50	639.70	217.30	63.50	83.40	80.30	4084.70	
Min	16.70	5.00	5.00	103.90	294.50	762.50	283.40	79.20	63.50	12.90	58.40	65.60	5.00	

WATER YEAR : 2014

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.
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	2008-2014
Number of observation	153
R-Square	0.7472
Remarks	Continued Sediment Station

$$QS = 14.5460\ QW^{1.11400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.50	4.70	28.30	124.10	66.30	34.70	3.80	0.40	0.00	0.00		
2	0.00	0.00	0.10	3.50	29.40	189.10	47.60	56.90	3.80	0.30	0.00	0.00		
3	0.00	0.00	0.00	2.60	45.80	184.90	42.20	30.40	3.80	0.30	0.00	0.00		
4	0.10	0.00	0.00	1.90	33.60	127.10	68.10	18.70	3.70	0.40	0.00	0.00		
5	0.80	0.00	0.00	1.50	223.10	124.10	38.60	15.40	4.20	0.30	0.00	0.00		
6	1.80	0.50	0.00	1.10	425.30	121.10	73.90	22.00	3.90	0.40	0.00	0.00		
7	1.20	0.90	0.00	1.00	352.80	536.60	223.10	19.50	3.70	0.30	0.00	0.00		
8	0.60	2.80	0.00	0.80	1085.50	210.30	189.10	17.00	3.20	0.30	0.00	0.00		
9	0.40	3.40	0.00	1.10	330.40	109.00	308.20	17.00	2.80	0.20	0.00	0.00		
10	0.30	2.20	0.00	1.40	159.90	78.50	168.20	17.80	2.40	0.40	0.00	0.00		
11	0.20	1.00	0.00	1.60	106.10	90.10	275.10	12.10	2.20	1.10	0.00	0.00		
12	0.00	0.30	0.00	3.40	78.50	508.50	155.70	7.90	2.20	1.00	0.00	0.00		
13	0.00	0.10	0.60	3.40	66.30	391.10	83.10	6.60	2.00	0.80	0.00	0.00		
14	0.00	0.00	1.20	8.80	76.20	176.50	58.70	5.80	2.20	0.50	0.00	0.00		
15	0.00	0.00	17.00	16.20	58.70	127.10	44.00	5.70	2.40	0.20	0.00	0.00		
16	0.00	0.00	23.70	9.20	55.00	97.20	31.50	5.50	2.60	0.00	0.00	0.00		
17	0.00	0.00	92.50	31.50	36.80	80.80	27.30	5.40	2.30	0.00	0.00	0.00		
18	0.00	4.70	324.80	16.20	68.10	66.30	22.90	5.10	2.00	0.00	0.00	0.00		
19	0.00	10.60	131.20	13.70	38.60	62.50	21.20	4.80	1.80	0.00	0.00	0.00		
20	0.00	4.40	53.10	155.70	27.30	80.80	45.80	4.50	1.50	0.00	0.00	0.00		
21	0.00	2.30	22.90	62.50	26.30	49.50	38.60	4.40	1.20	0.00	0.00	0.00		
22	0.00	1.20	12.10	94.80	22.90	36.80	64.40	4.20	1.10	0.00	0.00	0.00		
23	0.00	0.50	31.50	55.00	26.30	31.50	45.80	4.20	1.00	0.00	0.00	0.00		
24	0.00	0.10	8.50	45.80	33.60	27.30	55.00	4.10	1.00	0.00	0.00	0.00		
25	0.00	0.00	6.10	62.50	25.40	32.50	34.70	4.10	0.90	0.00	0.00	0.00		
26	0.00	0.00	10.60	90.10	20.30	26.30	30.40	3.90	0.90	0.00	0.00	0.00		
27	0.00	0.00	5.80	741.70	23.70	21.20	35.70	3.80	0.80	0.00	0.00	0.00		
28	0.00	0.00	4.20	352.80	28.30	21.20	29.40	3.40	0.80	0.00	0.00	0.00		
29	0.00	0.20	3.40	106.10	42.20	83.10	17.80	3.80	0.60	0.00		0.00		
30	0.00	1.10	3.20	62.50	302.60	44.00	73.90	3.80	0.50	0.00		0.00		
31		0.90		40.40	189.10		55.00		0.50	0.00		0.00		
Total	5.40	37.20	753.00	1993.50	4066.40	3859.10	2471.30	352.50	65.80	6.90	0.00	0.00	13611.10	**Ton**
Mean	0.20	1.20	25.10	64.30	131.20	128.60	79.70	11.70	2.10	0.20	0.00	0.00		
Max	1.80	10.60	324.80	741.70	1085.50	536.60	308.20	56.90	4.20	1.10	0.00	0.00	1085.50	
Min	0.00	0.00	0.00	0.80	20.30	21.20	17.80	3.40	0.50	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2005-2014
Number of observation	154
R-Square	0.7517
Remarks	Continued Sediment Station

$$QS = 11.1780\ QW^{1.16200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	50.30	232.80	4757.00	2641.40	690.40	152.40	7.40	0.00	0.00		
2	0.00	0.00	0.00	40.10	372.70	3676.30	3699.60	519.20	219.80	7.40	0.00	0.00		
3	0.00	0.00	0.00	30.90	627.80	2918.90	4441.30	387.80	28.70	6.80	0.00	0.00		
4	0.00	0.00	0.00	26.50	963.60	4217.70	3020.70	427.30	22.10	6.80	0.00	0.00		
5	0.00	0.00	0.00	26.50	1316.80	3317.50	1834.50	440.90	26.50	6.20	0.00	0.00		
6	0.00	0.00	0.00	27.20	1794.90	2277.80	953.40	366.80	30.20	6.20	0.00	0.00		
7	0.00	0.00	0.00	27.90	2188.10	1590.90	496.00	296.00	33.90	5.60	0.00	0.00		
8	0.00	0.00	0.30	28.70	1771.20	1614.30	360.70	232.80	34.70	5.60	0.00	0.00		
9	0.00	0.00	5.60	28.70	1242.80	1253.40	788.20	175.60	30.90	5.00	0.00	0.00		
10	0.00	0.00	4.40	27.90	877.80	744.00	2450.40	132.90	25.70	4.40	0.00	0.00		
11	0.00	0.00	3.30	27.20	421.20	390.80	1723.90	105.50	19.30	4.40	0.00	0.00		
12	0.00	0.00	1.70	25.00	281.50	642.20	1739.70	79.00	13.80	4.40	0.00	0.00		
13	0.00	0.00	0.80	19.30	190.20	887.80	2392.70	64.20	12.50	3.90	0.00	0.00		
14	0.00	0.00	0.00	21.40	157.60	1138.30	1359.30	77.30	11.80	3.90	0.00	0.00		
15	0.00	0.00	0.00	107.20	139.90	1763.30	803.10	100.50	11.20	3.90	0.00	0.00		
16	0.00	0.00	2.20	232.80	95.40	3375.00	561.40	88.80	11.20	3.30	0.00	0.00		
17	0.00	0.00	9.90	61.70	100.50	4471.30	357.70	75.80	11.80	2.20	0.00	0.00		
18	0.00	0.00	17.20	55.20	177.50	2483.50	242.40	67.50	12.50	1.70	0.00	0.00		
19	0.00	0.00	30.90	51.10	67.50	1237.60	210.60	60.90	12.50	1.20	0.00	0.00		
20	0.00	0.00	46.30	45.50	48.70	918.00	182.90	54.30	12.50	0.80	0.00	0.00		
21	0.00	0.00	51.10	152.40	69.20	623.00	152.40	47.90	11.80	0.30	0.00	0.00		
22	0.00	0.00	37.00	482.10	129.40	427.30	114.00	41.60	11.20	0.30	0.00	0.00		
23	0.00	0.00	33.90	275.80	231.00	496.00	141.60	36.20	11.20	0.30	0.00	0.00		
24	0.00	0.00	23.60	203.10	418.00	675.90	193.80	29.40	10.50	0.30	0.00	0.00		
25	0.00	0.00	34.70	145.30	509.90	1153.90	186.50	23.60	10.50	0.00	0.00	0.00		
26	0.00	0.00	366.80	98.70	354.80	1575.40	322.20	19.30	9.90	0.00	0.00	0.00		
27	0.00	0.00	345.80	77.30	1216.60	1274.50	877.80	17.90	9.90	0.00	0.00	0.00		
28	0.00	0.00	384.80	64.20	2599.70	978.80	902.90	17.90	9.30	0.00	0.00	0.00		
29	0.00	0.00	177.50	53.50	3105.90	913.00	1164.30	18.60	8.60	0.00		0.00		
30	0.00	0.00	75.80	45.50	3283.10	2123.20	1451.80	25.70	8.00	0.00		0.00		
31		0.00		177.50	4307.00		1274.50		7.40	0.00		0.00		
Total	0.00	0.00	1653.60	2736.50	29293.10	53916.60	37041.70	4721.60	842.30	92.30	0.00	0.00	130297.70	**Ton**
Mean	0.00	0.00	55.10	88.30	944.90	1797.20	1194.90	157.40	27.20	3.00	0.00	0.00		
Max	0.00	0.00	384.80	482.10	4307.00	4757.00	4441.30	690.40	219.80	7.40	0.00	0.00	4757.00	
Min	0.00	0.00	0.00	19.30	48.70	390.80	114.00	17.90	7.40	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2005-2014
Number of observation	244
R-Square	0.7122
Remarks	Continued Sediment Station

$$QS = 9.1915\ QW^{0.88770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	13.20	78.50	45.20	51.30	8.60	4.60	6.60	4.60		
2	0.00	0.00	0.00	0.00	12.30	80.30	57.20	50.20	7.60	4.60	6.60	4.60		
3	0.00	0.00	0.00	0.00	11.50	83.40	63.40	47.20	6.60	4.60	6.60	3.50		
4	0.00	0.00	0.00	0.00	10.60	88.40	63.40	36.90	6.60	4.60	6.60	1.40		
5	0.00	0.00	0.00	0.00	10.90	59.30	63.40	31.50	6.60	4.60	6.60	0.80		
6	0.00	0.00	0.00	0.00	11.50	42.60	63.40	31.00	6.60	4.60	6.60	0.80		
7	0.00	0.00	0.00	0.00	11.80	46.20	58.70	31.50	6.60	4.60	6.40	0.00		
8	0.00	0.00	0.00	0.00	13.20	74.70	50.20	47.70	6.10	4.60	4.80	0.00		
9	0.00	0.00	0.00	0.00	24.20	57.20	50.70	66.50	6.10	4.40	4.60	0.00		
10	0.00	0.00	0.00	0.00	29.80	39.30	50.70	64.00	6.10	4.40	4.60	0.00		
11	0.00	0.00	0.00	0.00	27.70	30.60	50.70	62.30	6.10	4.10	4.60	0.00		
12	0.00	0.00	0.00	0.00	23.40	27.70	50.70	48.70	6.10	3.20	5.50	0.00		
13	0.00	0.00	0.00	0.00	26.00	25.10	50.70	36.90	5.80	3.00	5.50	0.00		
14	0.00	0.00	0.00	0.00	31.00	26.00	49.70	31.90	5.50	2.80	5.50	0.00		
15	0.00	0.00	0.00	0.00	39.30	48.70	40.30	28.10	5.30	2.80	5.50	0.00		
16	0.00	0.00	0.00	0.00	37.90	145.50	32.70	24.20	4.60	2.80	5.50	0.00		
17	0.00	0.00	0.00	0.00	34.50	150.00	28.50	23.40	4.60	2.80	5.50	0.00		
18	0.00	0.00	0.00	17.00	31.90	87.70	25.10	20.00	4.60	4.30	5.50	0.00		
19	0.00	0.00	0.00	19.30	24.70	51.30	22.50	17.00	4.60	6.60	5.50	0.00		
20	0.00	0.00	0.00	17.40	20.70	37.90	28.10	15.50	4.60	6.60	5.50	0.00		
21	0.00	0.00	0.00	16.70	19.30	32.70	59.80	14.90	4.60	6.60	5.50	0.00		
22	0.00	0.00	0.00	16.10	18.90	31.90	63.40	14.60	4.60	6.60	5.50	0.00		
23	0.00	0.00	0.00	19.60	16.70	36.90	63.40	13.70	4.60	6.60	4.60	0.00		
24	0.00	0.00	0.00	20.70	16.40	39.80	58.20	12.10	4.60	6.60	4.60	0.00		
25	0.00	0.00	0.00	19.60	21.20	41.20	46.20	11.80	4.60	6.60	4.60	0.00		
26	0.00	0.00	0.00	17.40	36.00	34.50	53.20	11.50	4.60	6.60	4.60	0.00		
27	0.00	0.00	0.00	16.40	33.10	28.90	57.70	10.60	4.60	6.60	4.60	0.00		
28	0.00	0.00	0.00	16.40	35.00	26.00	50.70	10.60	4.60	6.60	4.60	0.00		
29	0.00	0.00	0.00	16.40	72.20	26.40	43.10	10.60	4.60	6.60		0.00		
30	0.00	0.00	0.00	16.40	89.60	27.20	44.10	10.60	4.60	6.60		0.00		
31		0.00		14.60	61.30		46.70		4.60	6.60		0.00		
Total	0.00	0.00	0.00	244.00	865.80	1605.90	1531.80	886.80	169.90	157.20	152.70	15.70	5629.80	**Ton**
Mean	0.00	0.00	0.00	7.90	27.90	53.50	49.40	29.60	5.50	5.10	5.50	0.50		
Max	0.00	0.00	0.00	20.70	89.60	150.00	63.40	66.50	8.60	6.60	6.60	4.60	150.00	
Min	0.00	0.00	0.00	0.00	10.60	25.10	22.50	10.60	4.60	2.80	4.60	0.00	0.00	

WATER YEAR : 2014

BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

Ban Noen Hom **Amphoe** Mueang **Changwat** Prachin Buri

Drainge Area	128 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1986-Cont'd
Actual Measurement	1986-Cont'd
Using Rating Curve Water Year	1999-2014
Number of observation	378
R-Square	0.7528
Remarks	Continued Sediment Station

$$QS = 1.6240\ QW^{1.37850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	14.40	51.40	99.00	71.00	29.00	9.50	0.00	0.00	0.00		
2	0.00	0.00	0.00	9.50	79.40	262.40	67.00	28.20	8.80	0.00	0.00	0.00		
3	0.00	0.00	0.00	6.40	51.40	401.00	65.00	27.30	8.20	0.00	0.00	0.00		
4	0.00	0.00	0.00	4.70	88.00	234.40	63.00	26.40	7.60	0.00	0.00	0.00		
5	0.00	0.00	0.20	4.70	115.10	83.60	63.00	25.50	7.00	0.00	0.00	0.00		
6	0.00	0.00	0.20	15.10	729.80	69.00	59.00	24.70	6.40	0.00	0.00	0.00		
7	0.00	0.00	0.20	49.50	780.60	501.70	59.00	23.80	5.80	0.00	0.00	0.00		
8	0.00	0.00	0.00	407.10	626.50	105.80	59.00	23.80	5.20	0.00	0.00	0.00		
9	0.00	0.00	0.00	364.90	284.40	81.50	57.10	23.00	4.70	0.00	0.00	0.00		
10	0.00	0.00	0.20	267.90	145.30	71.00	55.10	23.00	4.20	0.00	0.00	0.00		
11	0.00	0.00	0.70	115.10	115.10	60.90	115.10	22.20	3.70	0.00	0.00	0.00		
12	0.00	0.00	1.40	59.00	99.00	59.00	413.20	22.20	3.20	0.00	0.00	0.00		
13	0.00	0.00	1.40	45.80	152.30	51.40	110.40	21.30	2.70	0.00	0.00	0.00		
14	0.00	0.00	2.20	75.20	267.90	51.40	103.60	20.50	2.20	0.00	0.00	0.00		
15	0.00	0.00	4.20	105.80	463.20	51.40	92.30	20.50	1.80	0.00	0.00	0.00		
16	0.00	0.00	12.20	341.30	234.40	51.40	79.40	19.70	1.40	0.00	0.00	0.00		
17	0.00	0.00	19.70	141.90	103.60	135.00	69.00	19.70	1.00	0.00	0.00	0.00		
18	0.00	0.00	25.50	71.00	83.60	88.00	60.90	18.90	0.70	0.00	0.00	0.00		
19	0.00	0.00	27.30	99.00	51.40	67.00	57.10	18.90	0.40	0.00	0.00	0.00		
20	0.00	0.00	28.20	222.60	44.00	51.40	51.40	18.10	0.40	0.00	0.00	0.00		
21	0.00	0.00	29.00	145.30	40.40	51.40	47.60	17.40	0.20	0.00	0.00	0.00		
22	0.00	0.00	29.00	207.20	38.70	51.40	44.00	16.60	0.20	0.00	0.00	0.00		
23	0.00	0.00	29.90	571.00	38.70	51.40	40.40	15.80	0.20	0.00	0.00	0.00		
24	0.00	0.00	35.30	341.30	37.00	49.50	40.40	15.10	0.00	0.00	0.00	0.00		
25	0.00	0.00	45.80	242.30	71.00	47.60	38.70	14.40	0.00	0.00	0.00	0.00		
26	0.00	0.00	42.20	148.80	60.90	47.60	37.00	13.60	0.00	0.00	0.00	0.00		
27	0.00	0.00	40.40	138.40	69.00	45.80	37.00	12.90	0.00	0.00	0.00	0.00		
28	0.00	0.00	29.90	125.00	51.40	45.80	33.60	12.20	0.00	0.00	0.00	0.00		
29	0.00	0.00	17.40	67.00	69.00	51.40	30.80	11.50	0.00	0.00		0.00		
30	0.00	0.00	13.60	73.10	51.40	71.00	29.90	10.80	0.00	0.00		0.00		
31		0.00		51.40	53.20		29.00		0.00	0.00		0.00		
Total	0.00	0.00	436.10	4531.70	5147.10	3089.20	2179.00	597.00	85.50	0.00	0.00	0.00	16065.60	**Ton**
Mean	0.00	0.00	14.50	146.20	166.00	103.00	70.30	19.90	2.80	0.00	0.00	0.00		
Max	0.00	0.00	45.80	571.00	780.60	501.70	413.20	29.00	9.50	0.00	0.00	0.00	780.60	
Min	0.00	0.00	0.00	4.70	37.00	45.80	29.00	10.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

BANG PAKONG RIVER BASIN

Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

Ban Cha Om **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	126 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1986-Cont'd
Actual Measurement	1986-Cont'd
Using Rating Curve Water Year	1986-2014
Number of observation	237
R-Square	0.8180
Remarks	Continued Sediment Station

$$QS = 2.6260\ QW^{1.17620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.10	0.80	21.00	6.50	4.60	0.50	0.20	0.50	0.00		
2	0.00	0.00	0.00	0.10	0.80	17.00	15.80	3.80	0.50	0.20	0.50	0.00		
3	0.00	0.00	0.00	0.10	0.80	23.20	22.50	2.50	0.50	0.20	0.50	0.00		
4	0.00	0.00	0.00	0.80	0.80	10.50	22.50	5.10	0.50	0.20	0.50	0.00		
5	0.00	0.00	0.00	0.80	0.80	6.50	11.90	3.60	0.50	0.20	0.50	0.00		
6	0.00	0.00	0.00	0.50	2.50	3.80	8.60	3.10	0.50	0.20	0.50	0.00		
7	0.00	0.00	0.00	0.50	2.90	30.50	7.20	4.60	0.50	0.20	0.50	0.00		
8	0.00	0.00	0.00	0.50	12.40	12.40	4.60	6.50	0.50	0.20	0.50	0.00		
9	0.00	0.00	0.00	0.50	6.80	5.80	24.00	4.80	0.50	0.20	0.50	0.00		
10	0.00	0.00	0.00	0.50	4.80	5.80	10.50	4.10	0.50	0.20	0.20	0.00		
11	0.00	0.00	0.00	0.50	3.80	2.60	24.00	3.10	0.20	0.20	0.10	0.00		
12	0.00	0.00	0.00	0.90	2.60	2.00	13.40	2.60	0.20	0.20	0.00	0.00		
13	0.00	0.00	0.00	1.20	5.80	1.70	7.50	2.60	0.20	0.20	0.00	0.00		
14	0.00	0.00	0.00	5.10	3.10	1.70	5.10	2.30	0.20	0.20	0.00	0.00		
15	0.00	0.00	0.00	6.50	15.20	18.30	3.60	2.00	0.20	0.20	0.00	0.00		
16	0.00	0.00	0.00	4.60	5.80	68.10	2.50	2.00	0.20	0.20	0.00	0.00		
17	0.00	0.00	0.00	4.10	3.60	17.60	2.00	2.00	0.20	0.50	0.00	0.00		
18	0.00	0.00	0.00	4.10	2.50	7.90	2.00	1.70	0.20	0.50	0.00	0.00		
19	0.00	0.00	0.00	2.60	1.30	4.60	1.70	1.70	0.20	0.50	0.00	0.00		
20	0.00	0.00	0.00	2.00	0.80	2.50	2.90	1.70	0.20	0.50	0.00	0.00		
21	0.00	0.00	0.10	1.70	0.90	2.00	5.40	1.70	0.20	0.50	0.00	0.00		
22	0.00	0.00	0.10	5.10	1.00	2.50	12.40	1.20	0.20	0.50	0.00	0.00		
23	0.00	0.00	0.10	3.30	1.00	2.00	7.90	1.20	0.20	0.50	0.00	0.00		
24	0.00	0.00	0.10	1.70	0.90	2.00	5.10	0.90	0.20	0.50	0.00	0.00		
25	0.00	0.00	0.10	1.70	4.10	2.00	3.30	0.90	0.20	0.50	0.00	0.00		
26	0.00	0.00	0.10	1.70	2.00	2.00	2.60	0.60	0.20	0.50	0.00	0.00		
27	0.00	0.00	0.10	1.70	0.90	2.00	6.80	0.60	0.20	0.50	0.00	0.00		
28	0.00	0.00	0.10	1.20	12.40	2.00	7.20	0.50	0.20	0.50	0.00	0.00		
29	0.00	0.00	0.10	1.20	28.80	2.00	4.80	0.50	0.20	0.50		0.00		
30	0.00	0.00	0.10	1.00	9.60	4.30	3.80	0.50	0.20	0.50		0.00		
31		0.00		1.00	13.40		6.50		0.20	0.50		0.00		
Total	0.00	0.00	1.00	57.30	152.90	286.30	264.60	73.00	9.20	10.70	4.80	0.00	859.80	**Ton**
Mean	0.00	0.00	0.00	1.80	4.90	9.50	8.50	2.40	0.30	0.30	0.20	0.00		
Max	0.00	0.00	0.10	6.50	28.80	68.10	24.00	6.50	0.50	0.50	0.50	0.00	68.10	
Min	0.00	0.00	0.00	0.10	0.80	1.70	1.70	0.50	0.20	0.20	0.00	0.00	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	18
R-Square	0.7312
Remarks	Continued Sediment Station

$$QS = 0.6056\ QW^{1.62440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	971.30	4160.90	1545.20	2304.40	175.60	67.80	6.20	4.00	0.00		
2	0.00	0.00	0.00	736.80	1491.30	3002.30	639.10	147.80	48.20	6.70	3.80	0.00		
3	0.00	0.00	0.00	669.40	1080.90	2434.50	447.00	118.50	28.90	7.00	3.80	0.00		
4	0.00	0.00	167.90	859.70	1067.00	1250.10	455.80	103.90	42.00	6.20	3.40	0.00		
5	0.00	0.00	178.20	1258.40	2665.50	918.10	451.40	93.50	35.20	6.20	3.60	0.00		
6	0.00	0.00	191.50	726.30	11222.20	1473.60	404.30	96.90	35.20	6.00	3.00	0.00		
7	0.00	0.00	219.20	486.90	14054.30	2959.70	885.50	81.80	35.20	6.20	3.00	0.00		
8	0.00	0.00	387.60	778.00	11709.90	1334.40	964.60	72.30	20.00	8.30	3.20	0.00		
9	0.00	0.00	317.20	879.00	6603.30	2840.80	585.00	61.50	19.20	8.50	3.20	0.00		
10	0.00	0.00	364.30	619.20	2398.70	4196.20	486.90	58.10	17.70	8.00	3.00	0.00		
11	0.00	0.00	317.20	434.00	1275.10	3336.70	911.60	52.50	16.30	7.50	3.00	0.00		
12	0.00	0.00	2470.40	337.10	944.50	1748.60	634.10	51.40	16.30	7.00	3.00	0.00		
13	0.00	0.00	1865.80	944.50	742.10	2188.60	357.40	50.30	15.00	6.20	3.00	0.00		
14	0.00	0.00	3638.50	5541.30	1599.70	6925.30	278.80	46.10	17.70	6.00	3.00	0.00		
15	0.00	0.00	6184.30	6578.80	1102.00	6776.00	225.00	41.00	17.00	5.50	3.00	0.00		
16	0.00	0.00	5620.20	2959.70	604.50	5249.30	188.90	45.10	15.00	5.30	3.00	0.00		
17	0.00	0.00	3456.20	2030.30	546.80	5134.20	152.70	40.00	11.10	5.10	3.00	0.00		
18	0.00	0.00	2269.40	1308.90	421.20	4374.40	143.00	36.20	10.80	5.10	3.00	0.00		
19	0.00	0.00	2188.60	998.30	509.60	2579.40	170.40	33.40	9.90	5.10	5.30	0.00		
20	0.00	0.00	827.90	1102.00	834.30	1608.80	210.80	32.50	9.90	5.10	0.00	0.00		
21	0.00	0.00	998.30	4213.90	505.10	1080.90	233.60	30.70	9.40	4.60	0.00	0.00		
22	0.00	0.00	700.20	2041.40	509.60	859.70	188.90	30.70	7.50	4.60	0.00	0.00		
23	0.00	0.00	5799.20	1563.20	482.40	991.50	183.50	30.70	9.40	4.60	0.00	0.00		
24	0.00	0.00	2690.30	924.70	609.40	1482.40	178.20	30.70	9.90	4.60	0.00	0.00		
25	0.00	0.00	2257.80	700.20	589.90	575.40	230.70	30.70	8.50	4.40	0.00	0.00		
26	0.00	0.00	8378.90	594.70	705.40	473.50	350.60	30.70	6.70	4.60	0.00	0.00		
27	0.00	0.00	4757.70	551.50	2086.30	395.90	391.80	30.70	5.30	4.40	0.00	0.00		
28	0.00	0.00	1317.30	438.30	3131.50	412.70	337.10	38.10	4.90	4.40	0.00	0.00		
29	0.00	0.00	1739.20	585.00	1710.90	429.70	629.10	30.70	4.00	4.20		0.00		
30	0.00	0.00	1250.10	705.40	1654.90	1123.20	333.70	32.50	2.70	4.40		0.00		
31		0.00		4683.80	1300.40		197.00		5.50	4.20		0.00		
Total	0.00	0.00	60553.40	47222.00	78319.60	69701.10	14150.90	1754.60	562.20	176.20	63.30	0.00	272503.30	**Ton**
Mean	0.00	0.00	2018.40	1523.30	2526.40	2323.40	456.50	58.50	18.10	5.70	2.30	0.00		
Max	0.00	0.00	8378.90	6578.80	14054.30	6925.30	2304.40	175.60	67.80	8.50	5.30	0.00	14054.30	
Min	0.00	0.00	0.00	337.10	421.20	395.90	143.00	30.70	2.70	4.20	0.00	0.00	0.00	

WATER YEAR : 2014

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	1996-2014
Number of observation	341
R-Square	0.7520
Remarks	Continued Sediment Station

$$QS = 4.3912\ QW^{1.25090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	39.20	44.30	43.00	267.90	94.20	277.40	385.10	170.10	119.20	41.70	43.00	40.40		
2	39.20	52.30	43.00	183.90	76.30	143.10	436.30	249.30	163.20	40.40	41.70	40.40		
3	39.20	48.30	43.00	109.70	62.00	145.30	355.00	422.50	97.30	41.70	45.70	37.90		
4	39.20	52.30	41.70	60.60	56.40	149.70	190.90	328.70	85.20	41.70	47.00	37.90		
5	39.20	45.70	44.30	51.00	52.30	101.90	271.10	188.60	91.20	40.40	48.30	37.90		
6	40.40	47.00	56.40	49.60	49.60	82.20	398.60	129.90	94.20	40.40	48.30	37.90		
7	40.40	53.70	55.10	48.30	47.00	82.20	348.40	114.40	77.80	41.70	44.30	36.60		
8	40.40	48.30	56.40	48.30	43.00	89.70	45.70	100.30	69.10	43.00	41.70	36.60		
9	40.40	43.00	56.40	67.60	41.70	98.80	32.90	89.70	66.20	41.70	40.40	36.60		
10	43.00	43.00	62.00	63.40	44.30	74.80	77.80	82.20	62.00	41.70	41.70	36.60		
11	43.00	43.00	66.20	55.10	53.70	63.40	143.10	73.40	60.60	40.40	47.00	36.60		
12	45.70	43.00	59.20	47.00	62.00	83.70	165.50	66.20	57.80	40.40	44.30	36.60		
13	45.70	43.00	52.30	41.70	63.40	82.20	186.20	62.00	56.40	41.70	41.70	36.60		
14	44.30	43.00	49.60	45.70	60.60	127.80	114.40	57.80	56.40	41.70	41.70	36.60		
15	40.40	43.00	52.30	49.60	55.10	863.90	89.70	55.10	56.40	41.70	43.00	37.90		
16	40.40	48.30	55.10	67.60	51.00	1365.70	79.20	53.70	55.10	43.00	44.30	36.60		
17	40.40	47.00	77.80	80.70	47.00	1185.80	67.60	48.30	53.70	44.30	44.30	35.40		
18	40.40	45.70	436.30	63.40	49.60	604.30	63.40	48.30	48.30	44.30	44.30	37.90		
19	41.70	47.00	422.50	48.30	47.00	499.30	56.40	45.70	47.00	41.70	49.60	39.20		
20	41.70	45.70	267.90	47.00	45.70	283.70	56.40	43.00	45.70	41.70	45.70	40.40		
21	41.70	45.70	264.80	41.70	43.00	215.80	79.20	43.00	45.70	43.00	44.30	41.70		
22	41.70	44.30	293.20	51.00	36.60	195.60	255.50	41.70	44.30	43.00	45.70	39.20		
23	41.70	43.00	296.40	79.20	39.20	197.90	156.50	41.70	43.00	45.70	47.00	39.20		
24	41.70	43.00	290.00	64.80	40.40	186.20	134.30	41.70	43.00	44.30	47.00	43.00		
25	41.70	45.70	299.60	55.10	43.00	147.50	188.60	47.00	43.00	43.00	44.30	44.30		
26	40.40	45.70	492.20	48.30	47.00	312.50	165.50	51.00	43.00	43.00	44.30	41.70		
27	40.40	45.70	478.10	45.70	88.20	405.40	147.50	207.40	41.70	45.70	44.30	37.90		
28	40.40	45.70	365.00	45.70	71.90	136.50	312.50	556.70	41.70	45.70	43.00	39.20		
29	40.40	44.30	306.00	69.10	70.50	224.80	358.30	315.70	43.00	43.00		41.70		
30	41.70	44.30	293.20	60.60	69.10	405.40	714.60	123.50	41.70	41.70		41.70		
31		44.30		47.00	55.10		439.70		41.70	44.30		40.40		
Total	1236.10	1418.30	5419.00	2104.60	1705.90	8832.50	6515.90	3898.60	1934.60	1317.70	1247.90	1202.60	36833.70	**Ton**
Mean	41.20	45.80	180.60	67.90	55.00	294.40	210.20	130.00	62.40	42.50	44.60	38.80		
Max	45.70	53.70	492.20	267.90	94.20	1365.70	714.60	556.70	163.20	45.70	49.60	44.30	1365.70	
Min	39.20	43.00	41.70	41.70	36.60	63.40	32.90	41.70	41.70	40.40	40.40	35.40	32.90	

WATER YEAR : 2014

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	1994-2014
Number of observation	347
R-Square	0.7577
Remarks	Continued Sediment Station

$$QS = 1.0392\ QW^{1.46160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.80	10.70	8.10	86.80	211.70	69.60	119.90	39.30	32.60	11.10	5.80	21.90		
2	13.40	9.90	6.80	62.40	154.30	123.20	77.10	35.90	21.90	11.10	6.80	24.80		
3	18.20	18.20	7.40	73.30	116.70	478.40	72.40	34.80	20.50	10.30	6.10	24.30		
4	21.40	14.30	8.50	109.20	135.50	166.20	66.00	33.70	22.30	9.50	5.80	23.30		
5	19.10	13.40	8.80	76.20	322.70	121.00	59.80	36.40	20.90	9.50	5.80	21.90		
6	19.10	13.40	11.10	65.10	1054.80	128.70	59.80	38.70	19.50	9.90	5.80	21.40		
7	22.30	12.20	13.40	62.40	411.20	357.50	80.00	36.40	18.60	9.90	6.10	21.90		
8	16.80	12.20	15.10	109.20	257.10	190.90	93.70	33.70	17.70	11.40	5.80	19.50		
9	15.50	9.20	14.30	136.90	203.60	173.80	80.00	31.00	17.30	11.10	5.80	21.40		
10	15.10	8.10	14.30	104.00	164.70	184.60	82.80	29.40	14.70	10.30	4.90	21.40		
11	17.70	9.20	14.70	87.70	190.90	192.40	219.90	28.30	14.30	9.50	7.10	21.90		
12	19.10	9.20	66.00	78.00	145.50	161.70	113.50	27.80	16.00	8.80	12.20	20.50		
13	18.60	9.20	71.50	236.60	108.10	279.70	81.90	24.30	15.50	9.20	11.80	20.00		
14	18.60	14.70	224.80	659.00	293.50	678.60	73.30	25.30	15.10	8.10	13.00	20.00		
15	19.50	12.20	515.80	824.10	149.90	876.40	64.20	24.80	15.10	7.80	21.40	21.40		
16	21.40	10.70	591.60	245.00	109.20	955.00	57.20	24.30	14.70	8.10	19.50	21.40		
17	20.50	9.90	133.20	215.00	89.70	512.90	52.10	23.80	14.30	8.50	17.30	20.90		
18	20.00	8.80	98.80	114.50	80.90	633.00	49.60	22.80	14.30	8.10	16.00	20.50		
19	18.20	9.50	79.00	155.70	93.70	303.60	58.90	22.30	13.40	8.10	19.10	20.00		
20	18.60	10.30	66.90	236.60	80.00	206.80	88.70	21.90	13.40	8.10	21.40	20.00		
21	17.70	7.80	47.10	401.20	69.60	163.20	94.70	21.40	13.00	7.80	20.90	20.50		
22	17.30	7.40	66.00	305.70	62.40	134.30	52.10	20.90	12.60	7.80	20.00	21.40		
23	16.80	6.40	158.70	205.20	58.90	122.10	48.00	20.50	12.20	7.10	18.20	21.90		
24	16.80	5.80	115.60	121.00	58.10	113.50	47.10	19.50	12.60	7.40	17.30	21.90		
25	16.80	5.50	126.50	118.80	51.30	118.80	43.20	18.60	11.80	7.40	16.40	21.40		
26	16.40	5.50	197.20	100.90	72.40	93.70	43.90	19.10	11.80	7.80	15.50	20.90		
27	16.40	5.50	94.70	80.90	118.80	85.80	45.50	20.50	11.40	8.50	17.30	21.40		
28	17.30	8.50	71.50	97.80	99.80	78.00	66.00	21.40	11.10	8.10	20.50	20.90		
29	17.30	9.20	59.80	139.70	121.00	89.70	49.60	20.90	11.10	6.40		21.40		
30	18.60	9.90	60.70	194.00	106.00	157.20	40.80	22.30	10.70	5.80		23.80		
31		9.20		403.70	80.90		40.00		11.10	4.90		22.30		
Total	538.30	306.00	2967.90	5906.60	5272.90	7950.30	2221.70	800.00	481.50	267.40	363.60	666.20	27742.40	**Ton**
Mean	17.90	9.90	98.90	190.50	170.10	265.00	71.70	26.70	15.50	8.60	13.00	21.50		
Max	22.30	18.20	591.60	824.10	1054.80	955.00	219.90	39.30	32.60	11.40	21.40	24.80	1054.80	
Min	13.40	5.50	6.80	62.40	51.30	69.60	40.00	18.60	10.70	4.90	4.90	19.50	4.90	

WATER YEAR : 2014

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	2005-2014
Number of observation	191
R-Square	0.7915
Remarks	Continued Sediment Station

$$QS = 2.2281\ QW^{1.55790}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.00	34.30	323.50	307.80	102.30	3.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	1.30	75.50	418.30	136.60	75.50	9.90	0.00	0.00	0.00		
3	0.00	0.00	0.00	1.00	88.20	358.90	83.00	80.50	3.00	0.00	0.00	0.00		
4	0.00	0.00	0.50	0.00	45.40	297.70	68.40	47.30	1.30	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	88.20	208.90	55.40	36.00	0.50	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	522.50	166.30	51.30	68.40	0.30	0.00	0.00	0.00		
7	0.00	0.00	0.00	1.60	329.70	532.10	175.30	32.50	0.20	0.00	0.00	0.00		
8	0.00	0.00	0.00	3.00	304.70	615.20	180.00	25.90	0.00	36.00	0.00	0.00		
9	0.00	0.00	0.00	4.20	218.80	291.70	333.50	14.70	0.00	1.90	0.00	0.00		
10	0.00	0.00	0.00	1.00	140.70	149.10	285.80	10.80	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	83.00	136.60	303.70	6.60	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	51.30	115.10	316.10	5.10	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.10	39.70	304.70	157.60	3.40	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	3.40	15.70	322.30	96.10	2.60	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	175.30	21.30	628.50	68.40	2.60	0.00	0.00	0.00	0.00		
16	0.00	0.00	1.60	83.00	15.70	1296.90	47.30	2.20	0.00	0.00	0.00	0.00		
17	0.00	0.00	105.40	34.30	17.00	606.40	32.50	1.60	0.00	0.00	0.00	0.00		
18	0.00	0.00	118.40	11.70	11.70	366.60	22.80	1.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	21.30	6.10	19.80	338.50	14.70	0.50	0.00	0.00	0.00	0.00		
20	0.00	0.00	5.60	8.20	8.20	264.30	125.10	0.30	0.00	0.00	0.00	0.00		
21	0.00	0.00	3.40	4.20	32.50	166.30	105.40	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	3.00	13.60	83.00	140.70	53.40	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	18.40	41.50	27.50	294.70	27.50	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	13.60	18.40	37.80	166.30	19.80	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	13.60	12.70	43.40	118.40	22.80	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	64.00	13.60	199.10	93.40	208.90	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	43.40	6.10	271.10	70.70	115.10	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	37.80	102.30	208.90	73.10	339.80	39.70	0.00	0.00	0.00	0.00		
29	0.00	0.00	11.70	290.70	149.10	66.20	671.40	5.10	0.00	0.00		0.00		
30	0.00	0.00	0.80	166.30	400.10	125.10	319.80	2.20	0.00	0.00		0.00		
31		0.00		51.30	506.70		175.30		0.00	0.00		0.00		
Total	0.00	0.00	462.50	1054.90	4090.60	9056.50	4920.60	566.80	18.20	37.90	0.00	0.00	20208.00	**Ton**
Mean	0.00	0.00	15.40	34.00	132.00	301.90	158.70	18.90	0.60	1.20	0.00	0.00		
Max	0.00	0.00	118.40	290.70	522.50	1296.90	671.40	102.30	9.90	36.00	0.00	0.00	1296.90	
Min	0.00	0.00	0.00	0.00	8.20	66.20	14.70	0.00	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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.
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	1999-2014
Number of observation	155
R-Square	0.8118
Remarks	Continued Sediment Station

$$QS = 1.0277\ QW^{2.08010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.10	0.80	20.80	20.80	99.30	190.10	20.80	7.50	0.10	0.00	0.20		
2	0.00	0.10	1.00	20.80	22.40	99.30	81.80	22.40	7.50	0.10	0.00	0.40		
3	0.20	0.10	1.50	29.20	22.40	52.10	66.10	13.90	8.10	0.10	0.00	0.00		
4	0.10	0.00	0.20	29.20	24.00	52.10	45.70	19.30	7.50	0.10	0.00	0.00		
5	0.10	0.20	1.50	24.00	77.70	48.80	42.70	17.90	8.70	0.10	0.00	0.00		
6	0.20	0.20	1.00	22.40	834.70	62.40	42.70	10.80	9.40	0.00	0.00	0.20		
7	0.10	0.20	0.50	20.80	511.80	66.10	45.70	15.20	7.50	0.00	0.00	0.10		
8	0.10	0.10	0.80	22.40	220.20	48.80	52.10	16.50	9.40	0.00	0.00	0.10		
9	0.00	0.10	0.80	22.40	136.80	37.00	52.10	13.90	8.10	0.00	0.00	0.00		
10	0.00	0.10	0.20	22.40	94.70	45.70	52.10	15.20	8.70	0.00	0.00	0.10		
11	0.10	0.10	0.10	27.40	106.30	39.80	48.80	11.60	8.70	0.00	0.00	0.00		
12	0.00	0.10	9.40	58.90	275.40	48.80	48.80	13.90	9.40	0.00	0.00	0.00		
13	0.00	0.00	1624.40	1331.00	121.00	106.30	48.80	17.90	13.90	0.00	0.00	0.00		
14	0.00	0.10	2543.50	2118.70	37.00	180.60	48.80	13.10	17.90	0.00	0.00	0.00		
15	0.00	0.10	324.30	180.60	69.80	99.30	34.30	19.30	10.10	0.00	0.00	0.00		
16	0.00	0.10	128.80	113.50	45.70	39.80	31.70	13.10	9.40	0.00	0.00	0.00		
17	0.00	0.10	22.40	55.40	69.80	22.40	22.40	13.90	9.40	0.00	0.00	0.00		
18	0.10	0.60	20.80	77.70	45.70	37.00	22.40	17.90	8.10	0.00	0.00	0.00		
19	0.20	1.00	10.10	121.00	1457.70	31.70	29.20	10.80	7.50	0.00	0.00	0.00		
20	0.00	0.80	10.80	62.40	81.80	29.20	37.00	10.80	7.50	0.00	0.00	0.00		
21	0.00	0.60	15.20	20.80	52.10	22.40	24.00	10.80	6.90	0.00	0.00	0.00		
22	0.10	0.50	42.70	19.30	45.70	39.80	27.40	16.50	5.80	0.00	0.00	0.00		
23	0.10	0.60	209.90	37.00	45.70	52.10	31.70	13.90	5.30	0.00	0.00	0.00		
24	0.10	0.80	121.00	24.00	42.70	39.80	19.30	11.60	4.30	0.00	0.00	0.00		
25	0.20	1.00	4649.70	27.40	73.70	42.70	17.90	8.70	2.40	0.00	0.00	0.00		
26	0.10	0.20	113.50	31.70	77.70	48.80	19.30	11.60	1.00	0.00	0.00	0.00		
27	0.10	1.30	31.70	22.40	3580.90	42.70	24.00	10.80	0.40	0.00	0.00	0.00		
28	0.10	1.00	37.00	20.80	649.30	48.80	29.20	10.80	0.20	0.00	0.00	0.00		
29	0.10	1.00	13.90	20.80	190.10	90.30	24.00	10.10	0.10	0.00		0.00		
30	0.10	0.60	16.50	162.30	29.20	649.30	20.80	5.80	0.00	0.00		0.00		
31		1.00		66.10	31.70		15.20		0.00	0.00		0.00		
Total	2.30	12.80	9954.00	4833.60	9094.50	2323.20	1296.10	418.80	210.70	0.50	0.00	1.10	28147.60	**Ton**
Mean	0.10	0.40	331.80	155.90	293.40	77.40	41.80	14.00	6.80	0.00	0.00	0.00		
Max	0.20	1.30	4649.70	2118.70	3580.90	649.30	190.10	22.40	17.90	0.10	0.00	0.40	4649.70	
Min	0.00	0.00	0.10	19.30	20.80	22.40	15.20	5.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2004-2014
Number of observation	235
R-Square	0.7110
Remarks	Continued Sediment Station

$$QS = 1.0590\ QW^{1.05900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	42.70	68.00	47.50	9.90	40.70	43.80	49.70	24.10	24.10	17.80	16.10	18.20		
2	37.80	68.00	46.40	9.60	41.20	44.30	50.30	23.70	30.10	17.80	16.10	15.70		
3	34.10	68.00	46.40	9.60	44.80	47.50	51.40	24.50	30.10	17.80	15.70	15.70		
4	56.90	68.00	45.90	15.70	44.80	30.90	57.50	41.70	30.50	17.80	16.10	15.70		
5	56.90	68.60	39.20	23.30	45.90	27.70	61.70	34.50	30.50	17.80	16.10	15.70		
6	57.50	68.00	38.80	20.10	49.20	26.90	47.00	23.70	29.30	17.80	15.70	15.70		
7	56.90	70.00	44.80	20.10	49.20	26.90	14.40	23.30	23.70	19.30	16.10	15.70		
8	57.50	66.70	38.80	18.50	49.20	28.90	12.50	23.30	23.30	31.40	16.10	15.70		
9	57.50	53.80	38.80	21.70	48.60	30.50	5.10	23.30	19.70	31.40	16.10	15.70		
10	58.10	53.80	18.90	19.70	49.70	15.00	3.20	28.90	18.20	31.40	20.10	19.70		
11	59.90	53.80	16.10	15.70	49.20	38.80	3.00	53.80	18.20	31.40	33.60	26.50		
12	72.90	53.80	22.50	15.00	49.70	49.70	5.60	70.00	18.20	28.10	34.10	26.50		
13	73.70	53.80	22.90	14.70	49.70	30.10	3.20	78.20	18.20	12.10	34.50	26.50		
14	67.30	53.80	22.90	15.00	50.30	28.10	5.60	58.10	18.20	11.80	34.50	26.90		
15	59.30	54.40	23.30	15.00	50.30	23.30	5.80	42.20	18.20	11.50	34.50	26.50		
16	59.30	53.80	12.50	15.00	50.80	14.40	5.80	42.20	8.70	11.80	17.50	27.30		
17	59.30	53.20	18.20	15.00	50.80	14.10	4.80	41.70	9.90	15.70	3.20	31.40		
18	58.70	47.00	17.50	26.50	52.00	14.10	12.80	41.70	8.10	16.80	3.20	30.50		
19	57.50	46.40	15.70	15.40	52.00	17.10	13.40	42.20	12.50	15.00	9.60	22.10		
20	56.90	46.40	21.70	15.00	53.80	28.10	13.40	42.20	13.10	8.10	20.90	16.80		
21	75.10	46.40	36.80	15.00	52.60	24.90	24.10	41.70	13.10	3.20	15.40	17.50		
22	82.90	46.40	21.70	20.90	53.20	26.50	45.30	42.20	8.40	4.40	15.00	16.80		
23	84.50	46.40	5.60	27.70	53.20	30.50	47.00	42.70	7.80	32.30	15.00	16.80		
24	86.10	47.00	16.80	27.70	53.20	41.70	44.80	43.30	11.20	20.50	15.40	17.10		
25	85.30	45.90	16.10	28.10	53.80	41.70	26.10	40.20	13.10	23.30	15.40	17.10		
26	84.50	47.00	10.20	27.70	55.00	41.20	25.30	29.70	12.80	22.10	15.40	17.10		
27	84.50	46.40	9.90	28.10	54.40	42.20	7.20	29.70	12.80	21.70	15.40	17.10		
28	84.50	47.00	12.50	28.10	53.80	42.20	22.10	28.50	12.80	30.10	19.30	17.10		
29	83.70	46.40	12.80	28.50	47.00	42.20	20.90	22.90	15.70	6.90		17.50		
30	70.00	47.00	10.20	28.50	47.00	43.30	35.00	23.30	19.30	29.70		17.10		
31		46.40		39.70	47.50		24.10		18.20	16.10		17.50		
Total	1961.80	1681.60	751.40	630.50	1542.60	956.60	748.10	1127.50	548.00	592.90	516.10	613.20	11670.30	**Ton**
Mean	65.40	54.20	25.00	20.30	49.80	31.90	24.10	37.60	17.70	19.10	18.40	19.80		
Max	86.10	70.00	47.50	39.70	55.00	49.70	61.70	78.20	30.50	32.30	34.50	31.40	86.10	
Min	34.10	45.90	5.60	9.60	40.70	14.10	3.00	22.90	7.80	3.20	3.20	15.70	3.00	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2010-Cont'd
Actual Measurement	2010-Cont'd
Using Rating Curve Water Year	2010-2014
Number of observation	51
R-Square	0.8750
Remarks	Continued Sediment Station

$$QS = 1.8920\ QW^{1.39600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.20	0.30	0.70	0.00	0.00	0.00	0.30	0.10	0.00	0.00	0.00		
2	12.20	0.20	0.30	0.40	0.00	0.00	0.00	0.30	0.10	0.00	0.00	0.00		
3	12.20	0.20	0.30	0.10	0.00	0.00	0.00	0.30	0.10	0.00	0.00	0.00		
4	0.40	0.20	0.30	0.00	0.00	0.00	0.00	0.50	0.10	0.00	0.00	0.00		
5	0.20	0.20	0.30	0.00	0.00	0.00	0.00	2.30	0.10	0.00	0.00	0.00		
6	0.10	0.20	0.30	0.00	0.00	0.00	0.00	1.70	0.10	0.00	0.00	0.00		
7	0.10	0.30	0.30	0.00	0.00	0.00	7.30	0.90	0.00	0.00	0.00	0.00		
8	0.10	0.20	0.30	0.00	0.00	0.00	126.60	0.70	0.00	0.00	0.00	0.00		
9	0.00	0.20	0.30	0.00	0.00	0.00	40.60	0.60	0.00	0.00	0.00	0.00		
10	0.00	0.30	0.20	0.00	0.00	0.00	9.00	0.50	0.00	0.00	0.00	0.00		
11	0.30	0.30	0.20	0.00	0.00	0.00	3.60	0.50	0.00	0.00	0.00	0.00		
12	0.30	0.30	0.20	0.00	0.00	0.00	1.80	0.40	0.00	0.00	0.00	0.00		
13	0.30	0.30	0.20	0.00	0.00	0.00	1.20	0.30	0.00	0.00	0.00	0.00		
14	0.30	0.30	0.30	0.00	0.00	0.00	0.70	0.30	0.00	0.00	0.00	0.00		
15	0.30	0.30	0.90	0.00	0.00	0.00	0.60	0.30	0.00	0.00	0.00	0.00		
16	0.30	0.30	1.40	0.00	0.00	0.00	0.50	0.30	0.00	0.00	0.00	0.00		
17	0.30	0.30	1.60	0.00	0.00	0.00	0.50	0.30	0.00	0.00	0.00	0.00		
18	0.30	0.30	1.80	0.00	0.00	0.00	0.40	0.30	0.00	0.00	0.00	0.00		
19	0.30	0.20	2.00	0.00	0.00	0.00	0.40	0.30	0.00	0.00	0.00	0.00		
20	0.30	0.20	2.50	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00		
21	0.00	0.20	2.20	0.00	0.00	0.00	0.40	0.30	0.00	0.00	0.00	0.00		
22	0.00	0.20	1.90	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00		
23	0.00	0.20	1.70	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00		
24	0.00	0.20	1.50	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00		
25	0.10	0.20	1.30	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00		
26	0.00	0.30	1.00	0.00	0.00	0.00	0.30	0.20	0.00	0.00	0.00	0.00		
27	0.00	0.30	1.00	0.00	0.10	0.00	0.30	0.10	0.00	0.00	0.00	0.00		
28	0.00	0.30	0.80	0.00	0.00	0.00	0.30	0.10	0.00	0.00	0.00	0.00		
29	0.00	0.30	0.80	0.00	0.00	0.00	0.30	0.10	0.00	0.00		0.00		
30	0.30	0.30	0.80	0.00	0.00	0.00	0.30	0.10	0.00	0.00		0.00		
31		0.30		0.00	0.00		0.30		0.00	0.00		0.00		
Total	29.30	7.80	27.00	1.20	0.10	0.00	196.90	13.50	0.60	0.00	0.00	0.00	276.40	**Ton**
Mean	1.00	0.30	0.90	0.00	0.00	0.00	6.40	0.50	0.00	0.00	0.00	0.00		
Max	12.20	0.30	2.50	0.70	0.10	0.00	126.60	2.30	0.10	0.00	0.00	0.00	126.60	
Min	0.00	0.20	0.20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2008-2014
Number of observation	139
R-Square	0.7210
Remarks	Continued Sediment Station

$$QS = 2.3210\ QW^{0.99400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	66.00	115.60	91.30	23.70	85.80	77.70	79.50	37.90	33.50	26.20	22.90	28.80		
2	67.80	115.60	92.20	23.30	85.80	75.00	84.00	37.90	44.70	25.80	22.90	21.30		
3	57.30	115.60	91.30	22.90	91.30	79.50	84.00	38.60	46.00	26.20	22.50	20.80		
4	85.80	115.60	91.30	22.90	92.20	53.30	92.20	67.80	47.40	25.80	22.50	20.80		
5	88.60	116.70	81.30	52.50	92.20	48.80	103.20	75.00	47.40	25.80	22.50	20.80		
6	88.60	116.70	77.70	44.70	99.20	44.00	102.20	46.00	46.70	26.20	22.50	20.80		
7	89.50	120.10	84.90	44.70	100.20	42.60	39.90	42.00	35.50	26.60	22.50	20.40		
8	90.40	120.10	81.30	38.60	100.20	43.30	93.10	39.20	35.00	48.80	22.50	20.80		
9	90.40	98.10	77.70	51.70	98.10	48.10	51.70	38.60	33.50	48.80	22.50	20.80		
10	90.40	93.10	50.10	45.40	97.10	30.20	26.20	41.30	27.90	48.80	24.50	21.70		
11	91.30	94.10	30.20	38.60	96.10	51.70	17.20	86.70	27.40	48.80	48.80	34.00		
12	110.30	94.10	36.50	34.50	96.10	82.20	12.50	112.30	27.40	49.40	50.10	35.00		
13	117.90	95.10	44.70	33.50	96.10	50.90	13.80	135.90	27.00	20.80	51.70	35.50		
14	116.70	95.10	45.40	33.50	96.10	49.40	9.70	119.00	27.00	17.60	51.70	36.00		
15	96.10	97.10	45.40	34.00	96.10	41.30	11.30	75.90	27.00	16.50	51.70	36.00		
16	95.10	96.10	33.50	33.50	96.10	26.60	11.00	73.20	18.00	16.10	39.20	36.00		
17	95.10	97.10	31.50	33.50	95.10	24.10	10.60	72.30	14.10	18.00	8.70	46.00		
18	95.10	87.60	36.00	57.30	97.10	22.90	11.70	71.40	13.50	23.30	7.10	42.60		
19	93.10	84.90	41.30	35.50	95.10	22.90	20.80	71.40	13.50	22.10	6.90	32.50		
20	93.10	84.90	46.70	34.00	97.10	43.30	17.20	71.40	17.60	21.30	26.20	22.90		
21	111.30	84.90	66.00	33.00	100.20	39.20	32.00	70.50	18.00	7.40	20.00	23.30		
22	134.80	85.80	51.70	37.90	96.10	39.90	68.70	70.50	15.70	7.10	19.60	22.50		
23	137.00	85.80	31.10	58.80	96.10	51.70	77.70	71.40	11.30	27.90	19.60	22.50		
24	140.40	86.70	36.00	59.60	95.10	70.50	77.70	72.30	11.50	28.30	20.00	22.50		
25	140.40	86.70	37.90	60.40	95.10	70.50	44.70	67.80	18.00	32.00	20.00	22.50		
26	140.40	87.60	27.00	60.40	100.20	69.60	42.00	48.10	17.60	30.60	20.00	22.50		
27	139.30	88.60	26.20	60.40	100.20	70.50	26.20	46.70	17.60	30.60	20.00	22.50		
28	140.40	91.30	26.20	61.20	96.10	71.40	21.70	46.00	18.40	48.80	20.00	22.10		
29	140.40	91.30	30.20	61.20	84.90	69.60	33.50	34.50	18.00	14.40		22.50		
30	124.60	92.20	29.70	61.20	81.30	71.40	57.30	33.50	28.80	36.00		22.50		
31		91.30		81.30	82.20		39.20		26.20	23.70		22.50		
Total	3167.60	3025.50	1572.30	1373.70	2930.60	1582.10	1412.50	1915.10	811.20	869.70	729.10	821.40	20210.80	**Ton**
Mean	105.60	97.60	52.40	44.30	94.50	52.70	45.60	63.80	26.20	28.10	26.00	26.50		
Max	140.40	120.10	92.20	81.30	100.20	82.20	103.20	135.90	47.40	49.40	51.70	46.00	140.40	
Min	57.30	84.90	26.20	22.90	81.30	22.90	9.70	33.50	11.30	7.10	6.90	20.40	6.90	

WATER YEAR : 2014

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	2014
Number of observation	27
R-Square	0.7980
Remarks	Continued Sediment Station

$$QS = 2.0370\ QW^{1.07400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.50	20.60	20.00	30.10	34.20	32.00	19.00	18.50	13.30	20.00	23.10	25.30		
2	11.70	25.00	20.60	22.50	30.10	32.70	20.00	13.50	12.90	19.30	21.10	29.40		
3	8.20	21.10	19.50	20.00	26.20	32.00	21.70	11.30	14.50	18.80	20.60	28.40		
4	7.80	19.30	19.30	14.30	25.90	31.60	20.60	11.50	16.30	18.50	20.60	26.90		
5	9.80	18.50	18.80	13.10	24.10	27.50	19.30	22.30	21.40	18.50	22.00	24.40		
6	14.10	18.00	20.30	9.20	22.00	22.50	24.70	48.80	24.70	18.80	22.50	22.80		
7	15.30	18.20	24.40	5.90	21.70	20.00	59.10	49.30	24.10	19.50	22.80	21.40		
8	15.70	17.70	24.10	5.20	22.50	18.80	113.40	38.50	20.00	20.60	23.70	20.30		
9	15.70	16.70	21.70	5.10	23.10	18.00	332.30	29.70	18.00	28.70	24.40	20.30		
10	15.30	20.60	22.50	7.30	22.50	19.30	471.30	22.00	16.70	24.70	25.00	20.00		
11	14.30	25.60	25.90	15.70	22.00	22.50	329.50	18.50	15.70	22.50	25.60	19.00		
12	13.50	28.10	30.50	11.70	21.40	23.10	145.60	26.50	18.80	22.80	27.20	21.10		
13	16.10	26.90	31.60	6.20	21.10	37.20	109.10	58.00	20.30	25.00	27.80	23.40		
14	19.50	25.30	32.30	6.90	21.40	39.80	96.20	78.60	20.30	19.50	28.40	24.10		
15	21.40	23.70	30.50	6.90	22.00	35.30	70.90	80.70	20.60	16.10	28.70	22.80		
16	17.30	22.50	21.10	5.80	22.50	38.10	50.90	48.80	19.80	14.70	29.40	23.10		
17	15.30	22.00	16.90	5.90	22.80	37.20	40.20	25.90	17.10	14.70	27.80	24.40		
18	14.70	21.10	23.70	15.30	22.50	25.00	31.20	16.30	13.50	15.50	15.70	28.70		
19	14.30	22.50	23.40	26.20	23.40	23.10	27.80	11.70	12.10	17.70	13.10	30.10		
20	13.70	23.70	21.40	30.50	26.90	18.80	21.70	12.90	11.70	19.00	11.70	29.40		
21	13.70	22.80	19.80	27.20	30.50	19.00	10.30	13.10	13.70	19.00	11.50	27.20		
22	14.50	21.40	16.50	15.90	32.00	20.60	12.50	12.90	15.10	13.50	16.50	26.20		
23	16.50	19.80	15.30	16.30	30.90	20.30	25.00	12.50	14.90	10.50	22.50	25.60		
24	20.00	19.00	19.30	22.80	30.50	23.10	30.50	12.50	12.90	14.70	24.70	25.00		
25	20.80	19.00	24.70	29.10	31.20	28.10	31.20	16.30	12.10	22.30	25.30	24.70		
26	21.10	18.50	24.10	31.60	32.30	27.50	27.50	20.80	13.30	26.50	25.60	24.70		
27	20.80	19.00	26.20	32.70	33.80	23.70	27.20	18.80	14.30	26.50	25.60	26.20		
28	20.80	18.50	29.70	33.80	35.70	23.10	22.30	16.90	15.10	26.20	24.70	28.40		
29	20.60	20.00	32.30	34.20	35.70	21.10	16.70	16.70	15.50	31.60		29.40		
30	19.30	20.60	31.60	33.10	35.30	20.00	19.00	14.70	16.10	22.30		29.70		
31		20.00		31.60	32.70		24.40		18.80	23.10		30.10		
Total	474.30	655.70	708.00	572.10	838.90	781.00	2271.10	798.50	513.60	631.10	637.60	782.50	9664.40	**Ton**
Mean	15.80	21.20	23.60	18.50	27.10	26.00	73.30	26.60	16.60	20.40	22.80	25.20		
Max	21.40	28.10	32.30	34.20	35.70	39.80	471.30	80.70	24.70	31.60	29.40	30.10	471.30	
Min	7.80	16.70	15.30	5.10	21.10	18.00	10.30	11.30	11.70	10.50	11.50	19.00	5.10	

WATER YEAR : 2014

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	2014
Number of observation	31
R-Square	0.9050
Remarks	Continued Sediment Station

$$QS = 2.8540\ QW^{1.43600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.40	0.50	1.10	0.90	1.20	1.20	3.70	1.80	0.20	0.10	0.10		
2	0.50	0.40	0.50	1.20	0.70	1.00	1.60	6.80	1.40	0.10	0.10	0.00		
3	0.50	0.30	0.40	1.10	0.80	0.70	1.30	42.10	1.10	0.10	0.10	0.00		
4	0.40	0.30	0.40	0.90	1.60	0.60	1.80	104.80	1.30	0.10	0.10	0.00		
5	0.40	0.30	0.80	1.30	1.60	0.50	1.20	122.90	5.00	0.10	0.10	0.00		
6	0.50	0.30	0.70	1.30	1.30	0.90	1.40	80.60	3.20	0.10	0.10	0.00		
7	0.40	0.30	0.50	1.30	1.80	1.00	8.70	39.70	2.50	0.10	0.10	0.10		
8	0.50	0.30	0.50	1.30	2.70	0.70	18.70	23.60	1.80	0.10	0.10	0.10		
9	0.40	0.30	0.40	1.10	2.20	0.70	20.30	43.40	1.40	0.20	0.10	0.10		
10	0.40	0.30	0.40	1.10	1.60	0.80	7.20	47.10	1.30	0.20	0.10	0.10		
11	0.30	0.40	0.40	1.00	1.30	0.70	4.00	31.10	1.10	0.20	0.10	0.00		
12	0.30	1.00	0.50	0.90	1.10	0.50	11.90	16.80	0.90	0.40	0.10	0.00		
13	0.30	5.00	1.40	1.00	1.10	0.40	18.70	11.90	0.80	0.30	0.10	0.00		
14	0.30	0.70	1.30	1.20	0.50	0.40	184.00	8.70	0.80	0.20	0.10	0.00		
15	0.20	0.20	1.10	1.00	0.30	0.30	72.80	7.20	0.70	0.10	0.10	0.00		
16	0.20	0.30	1.00	2.00	0.40	0.50	18.70	5.70	0.70	0.10	0.10	0.00		
17	0.30	0.40	1.10	2.50	0.70	1.80	11.40	5.00	0.70	0.10	0.10	0.00		
18	0.30	0.60	1.40	1.60	1.10	1.10	6.80	6.40	0.70	0.10	0.10	0.00		
19	0.20	0.50	1.20	1.30	1.20	0.80	5.40	4.30	0.70	0.10	0.10	0.00		
20	0.20	0.60	1.00	1.20	0.80	0.60	85.40	3.40	0.60	0.10	0.10	0.00		
21	0.20	0.80	1.10	1.10	0.50	0.50	34.20	2.90	0.60	0.10	0.10	0.00		
22	0.20	0.90	1.10	2.00	0.50	0.40	11.40	2.50	0.50	0.20	0.10	0.00		
23	0.30	0.90	1.10	4.00	0.40	0.30	7.70	2.20	0.50	0.20	0.10	0.00		
24	0.30	1.00	2.20	2.90	0.60	0.30	5.70	2.00	0.40	0.10	0.10	0.00		
25	0.30	1.10	5.40	2.00	1.40	0.30	5.00	1.80	0.40	0.20	0.10	0.10		
26	0.30	1.10	4.00	1.60	1.30	0.50	6.80	1.60	0.30	0.20	0.10	0.10		
27	0.30	0.70	2.90	1.30	1.40	0.50	5.00	1.60	0.30	0.10	0.10	0.10		
28	0.30	0.70	2.20	1.60	2.20	0.50	3.70	1.40	0.20	0.20	0.10	0.10		
29	0.30	0.70	1.40	1.40	2.00	0.50	3.20	1.40	0.30	0.10		0.10		
30	0.30	0.60	1.20	1.20	2.70	0.50	4.00	1.40	0.20	0.10		0.10		
31		0.50		1.10	1.60		2.90		0.20	0.10		0.10		
Total	9.80	21.90	38.10	45.60	38.30	19.50	572.10	634.00	32.40	4.60	2.80	1.20	1420.30	**Ton**
Mean	0.30	0.70	1.30	1.50	1.20	0.60	18.50	21.10	1.00	0.10	0.10	0.00		
Max	0.50	5.00	5.40	4.00	2.70	1.80	184.00	122.90	5.00	0.40	0.10	0.10	184.00	
Min	0.20	0.20	0.40	0.90	0.30	0.30	1.20	1.40	0.20	0.10	0.10	0.00	0.00	

WATER YEAR : 2014

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	1998-2014
Number of observation	325
R-Square	0.8480
Remarks	Continued Sediment Station

$$QS = 3.2060\ QW^{1.49700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.30	0.40	0.50	2.90	0.70	1.90	6.60	1.90	0.30	0.00	0.00		
2	0.20	0.40	0.30	0.50	2.10	0.50	2.40	6.90	2.00	0.30	0.00	0.00		
3	0.20	0.30	0.40	0.40	2.50	0.50	9.70	349.60	2.10	0.20	0.00	0.00		
4	0.20	0.20	0.40	0.40	14.30	0.40	18.10	698.80	2.40	0.20	0.00	0.00		
5	0.30	0.30	0.40	0.40	15.30	0.40	34.60	163.80	7.20	0.20	0.00	0.00		
6	0.50	0.20	0.40	0.30	15.30	0.50	12.00	103.70	13.90	0.20	0.00	0.00		
7	0.50	0.30	0.40	0.30	14.30	1.10	19.90	106.00	3.40	0.20	0.00	0.00		
8	1.90	0.40	0.30	0.40	24.80	1.10	10.40	791.90	1.80	0.20	0.00	0.00		
9	0.40	0.20	0.30	0.80	14.80	1.40	13.90	1572.80	1.30	0.40	0.00	0.00		
10	0.30	0.20	0.20	5.30	7.70	5.00	18.10	1540.70	1.00	0.70	0.00	0.10		
11	0.30	0.30	0.20	7.20	5.30	2.40	9.40	115.50	0.80	0.40	0.00	0.00		
12	0.20	0.30	0.30	4.60	4.10	1.10	7.70	54.10	0.70	0.40	0.00	0.00		
13	0.20	0.30	3.90	3.50	3.20	0.80	9.00	36.70	0.70	0.30	0.00	0.00		
14	0.20	0.20	3.10	5.30	2.50	0.60	54.10	27.10	0.70	0.20	0.00	0.00		
15	0.20	0.20	1.00	5.00	2.00	0.60	24.80	16.90	0.70	0.20	0.00	0.00		
16	0.30	0.20	1.00	33.60	2.60	5.80	10.10	14.80	0.60	0.10	0.00	0.00		
17	0.30	0.30	1.10	7.40	1.80	30.50	7.20	22.50	0.50	0.10	0.00	0.00		
18	0.20	0.50	1.90	5.30	1.70	16.40	5.30	55.70	0.50	0.10	0.00	0.00		
19	0.20	0.20	0.80	4.90	1.20	6.60	4.50	23.30	0.50	0.10	0.00	0.00		
20	0.20	0.20	0.60	7.20	0.90	4.30	22.50	9.40	0.50	0.10	0.00	0.00		
21	0.20	0.20	0.50	4.90	0.70	2.80	14.80	5.50	0.40	0.10	0.00	0.00		
22	0.20	0.20	0.50	6.10	0.70	1.80	8.10	4.90	0.40	0.10	0.00	0.00		
23	0.20	0.20	0.50	13.40	0.70	1.40	6.60	4.60	0.40	0.10	0.00	0.00		
24	0.20	0.20	0.90	12.00	1.10	4.10	6.10	4.10	0.40	0.10	0.00	0.00		
25	0.20	0.30	1.10	7.70	1.30	6.90	14.30	3.40	0.30	0.00	0.00	0.00		
26	0.20	0.40	1.00	6.10	1.60	3.70	20.60	2.90	0.30	0.00	0.00	0.50		
27	0.20	0.30	0.70	6.40	1.90	2.90	11.20	2.80	0.30	0.00	0.00	2.10		
28	0.20	0.30	0.50	4.90	0.70	9.40	6.10	2.40	0.30	0.00	0.00	0.50		
29	0.20	0.30	0.70	5.30	0.50	4.10	5.80	2.10	0.30	0.00		0.20		
30	0.30	0.20	0.70	5.30	0.90	10.10	7.20	1.90	0.30	0.00		0.10		
31		0.50		3.70	1.00		7.20		0.30	0.00		0.10		
Total	9.10	8.60	24.50	169.10	150.40	127.90	403.60	5751.40	46.90	5.30	0.00	3.60	6700.40	**Ton**
Mean	0.30	0.30	0.80	5.50	4.90	4.30	13.00	191.70	1.50	0.20	0.00	0.10		
Max	1.90	0.50	3.90	33.60	24.80	30.50	54.10	1572.80	13.90	0.70	0.00	2.10	1572.80	
Min	0.20	0.20	0.20	0.30	0.50	0.40	1.90	1.90	0.30	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2014
Number of observation	24
R-Square	0.8800
Remarks	Continued Sediment Station

$$QS = 2.3130\ QW^{1.77400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.00	0.20	0.30	1.20	0.10	0.10	5.90	1.80	0.00	0.00	0.00		
2	0.10	0.00	0.20	0.30	1.20	0.10	0.10	5.90	2.60	0.00	0.00	0.00		
3	0.10	0.00	0.20	0.20	1.20	0.10	1.40	15.30	2.30	0.00	0.00	0.00		
4	0.10	0.00	0.20	0.20	1.80	0.10	1.20	77.50	1.00	0.00	0.00	0.00		
5	0.10	0.00	0.20	0.20	3.10	0.10	0.70	55.70	0.50	0.00	0.00	0.00		
6	0.10	0.00	0.10	0.20	2.60	0.20	0.50	16.30	95.00	0.10	0.00	0.00		
7	0.20	0.00	0.10	0.20	2.60	0.40	1.80	18.50	13.80	0.10	0.00	0.00		
8	0.20	0.00	0.10	0.20	3.10	0.30	3.40	14.60	6.40	0.10	0.00	0.00		
9	0.00	0.00	0.10	0.20	2.60	0.30	7.00	101.70	4.10	0.10	0.00	0.00		
10	0.00	0.00	0.10	0.30	2.30	0.20	6.40	557.60	2.80	0.10	0.00	0.00		
11	0.00	0.00	0.10	0.20	1.20	0.20	2.60	55.70	2.60	0.10	0.00	0.00		
12	0.00	0.00	7.50	0.20	0.80	0.10	1.10	20.80	2.80	0.10	0.00	0.00		
13	0.00	0.10	10.50	0.20	0.50	0.10	0.70	12.40	2.30	0.00	0.00	0.00		
14	0.00	0.10	4.50	0.20	0.30	0.10	1.10	18.50	1.60	0.00	0.00	0.00		
15	0.00	0.00	0.20	0.20	0.30	0.10	2.80	10.50	1.20	0.00	0.00	0.00		
16	0.00	0.00	0.30	0.60	0.30	0.20	1.40	95.00	1.00	0.00	0.00	0.00		
17	0.00	0.00	4.10	0.90	0.30	1.20	1.40	29.70	0.90	0.00	0.00	0.00		
18	0.00	0.00	2.30	0.80	0.30	0.60	3.40	13.80	0.80	0.00	0.00	0.00		
19	0.00	0.00	1.20	0.90	0.20	0.60	5.00	9.20	0.70	0.00	0.00	0.00		
20	0.00	0.00	0.80	1.00	0.20	0.50	629.60	6.40	0.60	0.00	0.00	0.00		
21	0.00	0.00	0.60	2.10	0.20	0.30	24.50	4.50	0.40	0.00	0.00	0.00		
22	0.00	0.00	0.60	4.50	0.20	0.30	6.40	3.40	0.20	0.00	0.00	0.00		
23	0.00	0.00	0.70	5.90	0.20	0.20	3.40	2.80	0.10	0.00	0.00	0.00		
24	0.00	0.00	1.10	3.10	0.20	0.20	2.10	2.30	0.10	0.00	0.00	0.00		
25	0.00	0.00	1.10	1.20	0.20	0.20	2.10	2.10	0.00	0.00	0.00	0.00		
26	0.00	0.10	0.90	1.20	0.20	0.50	2.30	2.30	0.00	0.00	0.00	0.00		
27	0.00	0.10	0.90	1.40	0.20	0.30	2.10	2.10	0.00	0.00	0.00	0.00		
28	0.00	0.60	0.60	1.60	0.10	0.20	2.10	0.90	0.00	0.00	0.00	0.00		
29	0.00	0.30	0.50	3.10	0.10	0.10	1.80	0.70	0.00	0.00		0.00		
30	0.00	0.20	0.40	2.30	0.10	0.10	1.80	0.60	0.00	0.00		0.00		
31		0.10		1.40	0.10		1.60		0.00	0.00		0.00		
Total	1.00	1.60	40.40	35.30	27.90	8.00	721.90	1162.70	145.60	0.70	0.00	0.00	2145.10	**Ton**
Mean	0.00	0.10	1.30	1.10	0.90	0.30	23.30	38.80	4.70	0.00	0.00	0.00		
Max	0.20	0.60	10.50	5.90	3.10	1.20	629.60	557.60	95.00	0.10	0.00	0.00	629.60	
Min	0.00	0.00	0.10	0.20	0.10	0.10	0.10	0.60	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2014

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	2002-2014
Number of observation	95
R-Square	0.8330
Remarks	Continued Sediment Station

$$QS = 7.3390\ QW^{1.38500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.10	0.10	0.10	0.10	0.50	0.20	14.10	14.60	4.70	0.50	0.30		
2	0.20	0.10	0.10	0.10	0.10	0.40	0.30	13.60	14.30	4.70	0.50	0.30		
3	0.20	0.10	0.10	0.10	0.10	0.40	0.30	14.10	14.30	3.50	0.40	0.30		
4	0.20	0.10	0.10	0.10	0.10	0.40	0.50	15.10	14.10	3.50	0.40	0.30		
5	0.20	0.10	0.10	0.10	0.10	0.40	5.90	14.30	14.10	3.50	0.40	0.30		
6	0.20	0.10	0.10	0.10	0.10	0.30	9.90	13.60	13.80	3.50	0.40	0.30		
7	0.20	0.10	0.10	0.10	0.10	0.30	9.90	13.30	13.80	2.50	0.40	0.30		
8	0.20	0.10	0.10	0.10	0.10	0.30	5.90	13.10	13.80	2.50	0.40	0.30		
9	0.20	0.10	0.10	0.10	0.10	0.30	13.30	12.90	13.60	2.50	0.40	0.30		
10	0.20	0.10	0.10	0.10	0.10	0.30	8.50	42.60	13.60	2.50	0.40	0.30		
11	0.20	0.10	0.10	0.10	0.10	0.30	7.10	107.20	13.60	1.60	0.40	0.30		
12	0.20	0.10	0.10	0.10	0.10	0.30	12.90	74.70	13.30	1.60	0.30	0.30		
13	0.20	0.10	0.10	0.10	0.10	0.20	14.10	61.50	13.30	1.60	0.30	0.30		
14	0.10	0.10	0.10	0.10	0.10	0.20	225.00	48.70	13.10	0.80	0.30	0.30		
15	0.10	0.10	0.10	0.10	0.10	0.10	39.60	39.60	13.10	0.80	0.30	0.30		
16	0.10	0.10	0.10	0.10	0.10	0.10	19.20	32.10	12.90	0.80	0.30	0.30		
17	0.10	0.10	0.10	0.10	0.10	0.10	13.80	29.80	12.90	0.70	0.30	0.30		
18	0.10	0.10	0.10	0.10	0.30	0.10	13.80	27.60	11.30	0.70	0.30	0.30		
19	0.10	0.10	0.10	0.10	0.20	0.10	29.80	25.40	9.90	0.70	0.30	0.30		
20	0.10	0.10	0.10	0.10	0.40	0.10	17.20	23.30	8.50	0.70	0.30	0.30		
21	0.10	0.10	0.10	0.10	0.30	0.10	14.60	21.20	8.50	0.70	0.30	0.30		
22	0.10	0.10	0.10	0.10	0.30	0.10	14.30	19.20	8.50	0.70	0.30	0.30		
23	0.10	0.10	0.10	0.10	0.30	0.10	14.30	19.20	7.10	0.60	0.30	0.30		
24	0.00	0.10	0.10	0.10	0.30	0.10	13.60	17.20	7.10	0.60	0.30	0.30		
25	0.00	0.10	0.10	0.10	0.30	0.10	14.30	17.20	7.10	0.60	0.30	0.30		
26	0.00	0.10	0.10	0.10	0.40	0.10	14.80	15.30	7.10	0.60	0.30	0.30		
27	0.00	0.10	0.10	0.10	0.40	0.10	17.20	15.10	5.90	0.60	0.30	0.30		
28	0.00	0.10	0.10	0.10	0.40	0.10	15.10	14.80	5.90	0.60	0.30	0.30		
29	0.00	0.10	0.10	0.10	0.50	0.10	14.80	14.60	5.90	0.50		0.30		
30	0.00	0.10	0.10	0.10	0.50	0.10	14.60	14.30	5.90	0.50		0.30		
31		0.10		0.10	0.50		14.30		5.90	0.50		0.30		
Total	3.60	3.10	3.00	3.10	6.80	6.20	609.10	804.70	336.80	49.90	9.70	9.30	1845.30	**Ton**
Mean	0.10	0.10	0.10	0.10	0.20	0.20	19.60	26.80	10.90	1.60	0.30	0.30		
Max	0.20	0.10	0.10	0.10	0.50	0.50	225.00	107.20	14.60	4.70	0.50	0.30	225.00	
Min	0.00	0.10	0.10	0.10	0.10	0.10	0.20	12.90	5.90	0.50	0.30	0.30	0.00	

WATER YEAR : 2014

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	2014
Number of observation	23
R-Square	0.7123
Remarks	Continued Sediment Station

$$QS = 13.6200\ QW^{1.17310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.00	39.90	113.60	49.40	276.00	181.60	532.20	248.80	131.30	49.40	25.40	10.50		
2	9.00	27.10	55.30	38.00	170.00	174.60	326.50	304.10	118.00	47.50	23.60	10.50		
3	10.50	30.70	32.50	38.00	142.50	140.30	488.00	982.90	131.30	45.60	21.90	9.00		
4	12.00	49.40	25.40	71.30	219.70	126.80	410.90	739.10	263.60	41.80	21.90	9.00		
5	13.60	25.40	21.90	92.10	285.30	107.10	400.90	457.50	234.20	39.90	21.90	10.50		
6	21.90	21.90	20.20	109.30	444.10	205.30	570.00	349.10	301.10	39.90	21.90	9.00		
7	28.90	21.90	27.10	129.10	816.00	525.30	914.10	644.90	323.20	38.00	20.20	9.00		
8	38.00	20.20	25.40	205.30	1392.80	573.60	1969.10	653.40	239.00	36.20	20.20	7.50		
9	28.90	30.70	21.90	816.00	1182.70	846.70	977.20	1010.90	177.00	45.60	20.20	7.50		
10	18.50	90.00	25.40	1689.00	632.30	1272.70	528.60	1743.10	126.80	79.50	18.50	5.80		
11	15.20	47.50	23.60	570.00	371.60	775.20	304.10	1067.80	107.10	87.90	18.50	7.50		
12	12.00	32.50	23.60	352.20	282.30	521.80	195.80	632.30	100.60	65.20	18.50	6.00		
13	12.00	27.10	310.40	903.70	231.70	384.60	160.80	391.20	92.10	57.20	18.50	6.00		
14	9.00	21.90	573.60	713.20	202.90	297.80	253.70	261.10	85.80	45.60	18.50	6.00		
15	23.60	20.20	339.30	1798.80	246.40	288.50	508.10	207.70	65.20	41.80	20.20	6.00		
16	16.90	16.90	556.10	3668.50	198.10	810.70	590.80	775.20	71.30	38.00	20.20	6.00		
17	27.10	20.20	867.30	1067.80	160.80	3622.90	297.80	1050.80	65.20	36.20	18.50	6.00		
18	27.10	23.60	518.50	752.00	129.10	2567.00	181.60	563.00	100.60	36.20	16.90	5.80		
19	23.60	21.90	342.60	977.20	107.10	977.20	313.70	316.80	92.10	34.30	16.90	7.50		
20	20.20	16.90	188.70	1226.40	83.70	556.10	304.10	239.00	81.60	32.50	16.90	6.00		
21	16.90	15.20	167.70	1136.50	79.50	368.20	329.50	147.00	65.20	32.50	16.90	5.80		
22	15.20	13.60	297.80	977.20	100.60	248.80	243.90	90.00	57.20	30.70	15.20	5.80		
23	12.00	18.50	2343.50	1922.60	167.70	191.00	219.70	53.30	53.30	30.70	13.60	6.00		
24	16.90	21.90	4670.10	2990.70	163.10	181.60	191.00	104.90	49.40	30.70	13.60	10.50		
25	23.60	21.90	1467.10	1815.30	587.50	243.90	156.20	241.50	47.50	28.90	13.60	9.00		
26	21.90	20.20	661.90	977.20	514.90	207.70	135.80	198.10	49.40	28.90	12.00	10.50		
27	21.90	30.70	329.50	752.00	273.00	253.70	129.10	153.90	63.20	28.90	12.00	10.50		
28	13.60	75.40	160.80	640.70	434.00	217.30	140.30	131.30	75.40	27.10	10.50	12.00		
29	10.50	32.50	77.40	545.90	191.00	226.90	207.70	138.00	65.20	27.10		12.00		
30	9.00	23.60	59.20	447.30	126.80	239.00	434.00	158.50	59.20	25.40		13.60		
31		20.20		361.70	156.20		352.20		57.20	25.40		12.00		
Total	538.50	899.60	14347.40	27834.40	10369.40	17333.90	12767.40	14055.20	3549.30	1254.60	506.70	258.80	103715.20	**Ton**
Mean	18.00	29.00	478.20	897.90	334.50	577.80	411.90	468.50	114.50	40.50	18.10	8.30		
Max	38.00	90.00	4670.10	3668.50	1392.80	3622.90	1969.10	1743.10	323.20	87.90	25.40	13.60	4670.10	
Min	9.00	13.60	20.20	38.00	79.50	107.10	129.10	53.30	47.50	25.40	10.50	5.80	5.80	

WATER YEAR : 2014

SOUTHERN PENINSULA EAST COAST

Khlong Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

Ban Tha Yai **Amphoe** Lan Saka **Changwat** Nakhon Si Thammarat

Drainge Area	105 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	2014
Number of observation	24
R-Square	0.7430
Remarks	Continued Sediment Station

$$QS = 18.0400\ QW^{1.04600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.00	84.00	87.00	80.90	117.50	74.90	93.10	111.40	114.50	196.40	84.00	59.90		
2	51.00	74.90	87.00	77.90	117.50	74.90	96.10	117.50	108.30	146.40	84.00	59.90		
3	51.00	68.90	87.00	77.90	117.50	71.90	105.30	111.40	108.30	117.50	84.00	59.90		
4	51.00	74.90	99.20	77.90	111.40	84.00	125.70	108.30	102.20	111.40	84.00	59.90		
5	51.00	84.00	96.10	77.90	111.40	77.90	134.00	111.40	102.20	111.40	80.90	59.90		
6	51.00	90.00	90.00	77.90	108.30	77.90	117.50	117.50	102.20	108.30	80.90	56.90		
7	51.00	84.00	87.00	71.90	108.30	93.10	134.00	188.00	99.20	99.20	77.90	56.90		
8	51.00	80.90	74.90	71.90	108.30	96.10	150.50	3709.80	99.20	96.10	74.90	56.90		
9	45.10	77.90	68.90	77.90	108.30	96.10	138.10	1946.00	96.10	96.10	74.90	56.90		
10	45.10	77.90	68.90	80.90	102.20	87.00	114.50	446.60	93.10	96.10	74.90	87.00		
11	45.10	80.90	68.90	80.90	99.20	87.00	108.30	258.60	96.10	90.00	74.90	87.00		
12	45.10	87.00	68.90	71.90	102.20	87.00	105.30	175.50	93.10	90.00	71.90	87.00		
13	42.10	90.00	93.10	68.90	74.90	99.20	99.20	138.10	129.90	87.00	71.90	87.00		
14	42.10	111.40	93.10	62.90	74.90	102.20	93.10	121.60	3272.10	84.00	68.90	87.00		
15	42.10	80.90	90.00	65.90	84.00	108.30	99.20	108.30	518.60	192.20	68.90	87.00		
16	36.30	80.90	87.00	111.40	87.00	108.30	179.60	142.20	216.30	205.80	68.90	84.00		
17	42.10	80.90	87.00	87.00	87.00	102.20	200.60	158.80	200.60	192.20	68.90	84.00		
18	42.10	77.90	87.00	77.90	84.00	102.20	179.60	138.10	1553.70	134.00	65.90	84.00		
19	42.10	77.90	87.00	74.90	80.90	96.10	138.10	117.50	864.00	108.30	65.90	84.00		
20	42.10	77.90	80.90	71.90	77.90	96.10	117.50	258.60	344.00	102.20	65.90	80.90		
21	39.20	77.90	74.90	71.90	77.90	96.10	117.50	232.10	192.20	99.20	65.90	80.90		
22	39.20	77.90	77.90	71.90	80.90	96.10	108.30	196.40	269.20	99.20	65.90	80.90		
23	93.10	93.10	93.10	71.90	80.90	93.10	96.10	196.40	216.30	96.10	62.90	74.90		
24	93.10	99.20	93.10	71.90	80.90	93.10	87.00	158.80	216.30	93.10	77.90	74.90		
25	93.10	96.10	99.20	77.90	134.00	93.10	87.00	142.20	237.40	93.10	62.90	74.90		
26	93.10	93.10	93.10	84.00	146.40	96.10	99.20	138.10	657.10	90.00	59.90	59.90		
27	87.00	93.10	93.10	138.10	154.70	96.10	129.90	134.00	739.10	90.00	59.90	56.90		
28	87.00	90.00	90.00	129.90	150.50	96.10	129.90	125.70	295.80	90.00	59.90	56.90		
29	87.00	90.00	84.00	111.40	108.30	65.90	142.20	121.60	154.70	90.00		56.90		
30	87.00	90.00	80.90	117.50	84.00	65.90	121.60	114.50	114.50	87.00		56.90		
31		90.00		117.50	77.90		117.50		105.30	84.00		56.90		
Total	1718.20	2633.50	2568.20	2610.50	3139.10	2714.00	3765.50	10145.00	11511.60	3476.30	2007.60	2196.90	48486.40	**Ton**
Mean	57.30	85.00	85.60	84.20	101.30	90.50	121.50	338.20	371.30	112.10	71.70	70.90		
Max	93.10	111.40	99.20	138.10	154.70	108.30	200.60	3709.80	3272.10	205.80	84.00	87.00	3709.80	
Min	36.30	68.90	68.90	62.90	74.90	65.90	87.00	108.30	93.10	84.00	59.90	56.90	36.30	

WATER YEAR : 2014

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 Thammarat

Drainge Area	36 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	2014
Number of observation	24
R-Square	0.7740
Remarks	Continued Sediment Station

$$QS = 13.7300\ QW^{0.96900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.60	8.90	7.30	6.50	8.40	7.00	18.20	17.40	14.70	61.50	8.40	9.70		
2	7.60	8.90	7.30	6.50	8.40	7.00	18.20	18.20	13.50	56.70	8.40	9.70		
3	7.60	8.90	7.30	6.50	8.40	7.00	18.20	15.50	13.10	24.90	14.70	9.20		
4	7.30	8.90	7.30	6.50	8.40	7.30	18.20	12.70	11.50	22.30	14.70	9.20		
5	7.30	8.60	7.30	6.50	8.40	6.70	17.80	15.10	11.10	21.00	14.70	9.20		
6	7.60	8.60	7.30	6.50	8.40	6.20	17.80	13.10	11.10	18.60	14.70	9.20		
7	7.80	8.60	7.30	6.50	8.40	6.20	17.80	18.20	11.10	16.60	14.70	9.40		
8	8.10	8.60	7.30	6.50	8.40	5.70	17.40	33.60	19.00	31.40	14.70	9.40		
9	8.10	8.40	7.30	6.50	8.40	5.70	17.40	263.80	17.40	27.50	14.70	9.70		
10	8.10	8.60	7.00	6.50	8.40	5.70	17.00	96.70	15.10	24.30	14.70	8.40		
11	8.40	8.40	7.00	6.50	7.00	4.30	16.60	41.40	19.00	25.60	11.90	7.80		
12	8.40	8.40	7.00	6.70	7.00	2.90	15.90	28.80	19.00	25.60	11.10	6.70		
13	8.60	8.40	7.00	6.70	7.00	1.80	15.90	26.20	45.20	25.60	11.10	6.50		
14	8.60	8.40	7.00	6.70	7.00	2.90	32.10	20.30	440.90	25.60	10.00	5.70		
15	8.90	8.40	7.00	6.70	7.00	5.70	32.10	51.00	101.00	24.90	10.00	5.70		
16	8.90	8.10	7.00	6.70	7.00	7.30	33.60	28.20	116.90	24.30	9.70	8.10		
17	8.90	8.10	6.70	6.70	7.60	7.00	39.80	19.00	81.70	21.70	9.70	8.40		
18	8.90	8.10	6.70	6.70	7.60	7.00	39.80	19.00	126.80	20.30	9.70	8.40		
19	8.90	8.10	6.70	7.00	7.60	7.60	33.60	18.60	135.30	22.30	9.70	8.40		
20	8.60	7.80	6.70	7.00	7.60	7.80	32.80	21.70	100.50	20.30	9.40	8.10		
21	8.60	7.80	6.70	7.00	7.80	7.80	13.90	49.80	102.50	17.80	9.70	8.10		
22	8.40	7.60	6.70	7.00	7.80	7.80	11.90	52.10	112.00	17.40	9.70	7.80		
23	8.40	7.60	6.70	7.00	7.80	7.80	11.10	67.80	97.50	17.40	9.70	7.80		
24	8.10	7.60	6.70	7.30	7.80	8.10	11.10	72.90	97.40	16.60	9.70	7.60		
25	8.10	7.60	6.70	7.30	7.80	8.10	14.30	34.40	145.10	17.40	9.70	7.60		
26	8.40	7.60	6.50	7.30	7.60	8.10	23.60	24.30	266.00	17.00	9.70	7.60		
27	8.40	7.60	6.50	7.80	7.00	8.10	29.50	21.00	136.50	16.60	9.70	7.30		
28	8.60	7.30	6.50	7.80	7.00	8.10	16.30	17.40	106.00	16.60	9.70	7.30		
29	8.90	7.30	6.50	7.80	7.00	8.90	15.10	15.50	97.60	12.70		7.30		
30	8.90	7.30	6.50	7.80	7.00	8.90	13.90	15.10	52.10	12.70		7.30		
31		7.30		7.80	7.00		13.10		56.70	12.70		7.30		
Total	249.00	251.80	207.50	214.30	238.00	200.50	644.00	1148.80	2593.30	715.90	314.30	249.90	7027.30	**Ton**
Mean	8.30	8.10	6.90	6.90	7.70	6.70	20.80	38.30	83.70	23.10	11.20	8.10		
Max	8.90	8.90	7.30	7.80	8.40	8.90	39.80	263.80	440.90	61.50	14.70	9.70	440.90	
Min	7.30	7.30	6.50	6.50	7.00	1.80	11.10	12.70	11.10	12.70	8.40	5.70	1.80	

WATER YEAR : 2014

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 Thammarat

Drainge Area	475 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	2014
Number of observation	24
R-Square	0.8020
Remarks	Continued Sediment Station

$$QS = 4.8100\ QW^{1.36700}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.60	6.90	71.50	6.90	15.90	12.40	184.30	170.50	156.90	1279.10	99.90	21.60		
2	10.70	6.90	156.90	6.90	10.70	11.60	130.70	137.20	130.70	875.20	88.20	19.70		
3	9.90	36.50	82.50	6.20	7.60	9.10	156.90	143.70	143.70	719.70	82.50	19.70		
4	9.90	19.70	66.10	5.50	6.20	8.40	530.50	227.60	493.60	625.60	77.00	17.80		
5	9.90	5.50	512.00	4.80	6.20	7.60	170.50	118.10	184.30	549.10	77.00	17.80		
6	55.70	4.80	137.20	4.20	8.40	9.10	105.90	99.90	156.90	512.00	184.30	17.80		
7	10.70	5.50	50.70	4.20	11.60	8.40	273.20	99.90	137.20	422.20	94.00	15.90		
8	124.40	0.90	29.80	4.80	9.90	7.60	530.50	719.70	112.00	530.50	82.50	14.10		
9	137.20	1.40	21.60	6.20	7.60	7.60	170.50	7660.10	112.00	493.60	71.50	12.40		
10	55.70	0.90	15.90	5.50	118.10	8.40	94.00	2189.00	99.90	353.80	66.10	11.60		
11	10.70	6.90	10.70	4.20	21.60	9.90	66.10	966.80	94.00	337.20	60.80	11.60		
12	45.80	1.90	15.90	3.50	10.70	6.90	45.80	493.60	82.50	353.80	55.70	11.60		
13	21.60	71.50	14.10	5.50	9.90	21.60	66.10	337.20	99.90	493.60	55.70	14.10		
14	15.90	7.60	15.90	4.20	8.40	36.50	60.80	320.90	31798.10	1168.60	50.70	12.40		
15	10.70	25.60	10.70	6.90	25.60	36.50	3103.50	273.20	4872.00	5212.30	45.80	11.60		
16	36.50	17.80	9.90	8.40	29.80	41.10	1279.10	227.60	1619.80	999.70	45.80	10.70		
17	45.80	7.60	45.80	9.90	15.90	45.80	719.70	227.60	1817.30	625.60	41.10	9.90		
18	45.80	11.60	19.70	8.40	94.00	29.80	337.20	170.50	4049.10	512.00	41.10	9.90		
19	9.90	4.20	21.60	5.50	27.70	17.80	353.80	170.50	2243.60	387.60	36.50	9.90		
20	7.60	1.90	10.70	4.20	11.60	41.10	587.00	198.50	1279.10	353.80	36.50	9.10		
21	4.80	0.50	9.90	3.00	17.80	15.90	549.10	745.00	966.80	320.90	32.00	9.10		
22	2.40	0.20	9.10	3.00	11.60	137.20	257.70	1619.80	796.40	288.80	32.00	9.10		
23	1.90	273.20	25.60	2.40	9.90	41.10	198.50	1203.20	719.70	257.70	29.80	12.40		
24	1.40	130.70	11.60	2.40	8.40	45.80	156.90	1663.90	587.00	212.90	27.70	10.70		
25	0.90	66.10	9.90	9.90	77.00	23.60	549.10	719.70	1238.10	198.50	27.70	9.90		
26	0.20	23.60	9.10	25.60	88.20	17.80	512.00	475.50	32133.30	170.50	23.60	9.90		
27	0.20	9.10	8.40	27.70	94.00	15.90	530.50	530.50	9869.00	143.70	21.60	9.10		
28	0.00	549.10	6.20	27.70	66.10	94.00	353.80	304.70	3889.50	137.20	21.60	9.10		
29	9.90	88.20	9.10	32.00	29.80	50.70	320.90	227.60	3103.50	130.70		8.40		
30	9.90	29.80	7.60	15.90	27.70	66.10	475.50	170.50	2189.00	118.10		8.40		
31		25.60		12.40	17.80		227.60		1974.40	112.00		7.60		
Total	717.60	1441.70	1425.70	277.90	905.70	885.30	13097.70	22612.5 1	7149.30	18896.00	1608.70	382.90	169401.00	**Ton**
Mean	23.90	46.50	47.50	9.00	29.20	29.50	422.50	753.70	3456.40	609.50	57.50	12.40		
Max	137.20	549.10	512.00	32.00	118.10	137.20	3103.50	7660.10	32133.30	5212.30	184.30	21.60	32133.30	
Min	0.00	0.20	6.20	2.40	6.20	6.90	45.80	99.90	82.50	112.00	21.60	7.60	0.00	

WATER YEAR : 2014

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.
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	2014
Number of observation	24
R-Square	0.8700
Remarks	Continued Sediment Station

$$QS = 4.2759\ QW^{1.36830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.10	56.50	78.70	291.80	1103.80	448.90	1139.20	1521.40	582.70	205.50	115.20	47.90		
2	27.50	49.60	190.80	283.70	954.10	458.20	1487.40	1783.00	612.60	198.10	115.20	38.10		
3	46.30	46.30	141.50	236.00	642.80	376.90	3033.10	2610.10	524.20	198.10	110.90	35.00		
4	38.10	115.20	236.00	205.50	954.10	325.20	3488.60	2869.90	789.00	183.50	110.90	33.50		
5	32.00	119.50	325.20	275.60	1198.80	300.10	3867.20	1836.60	1198.80	183.50	110.90	35.00		
6	38.10	74.80	102.60	394.60	1419.90	514.60	3703.70	1694.50	1353.40	183.50	106.70	38.10		
7	44.60	67.40	90.40	291.80	2511.90	430.60	3435.40	2261.60	3812.50	176.30	98.50	33.50		
8	102.60	53.10	67.40	243.80	4916.20	1521.40	10439.70	3730.80	1336.90	176.30	78.70	30.50		
9	115.20	41.30	56.50	572.80	3033.10	6359.20	9715.90	3977.30	810.50	176.30	71.10	29.00		
10	78.70	67.40	74.80	1222.90	1908.80	2769.20	3977.30	5844.70	746.40	275.60	67.40	27.50		
11	36.60	155.10	176.30	865.00	1198.80	2511.90	2111.10	5151.60	602.60	592.60	67.40	26.10		
12	38.10	155.10	162.10	1115.60	854.00	931.60	1419.90	2769.20	524.20	592.60	67.40	24.70		
13	23.30	74.80	183.50	1470.40	778.30	778.30	1127.40	1403.20	476.80	205.50	60.10	24.70		
14	23.30	67.40	1453.50	1162.90	642.80	725.40	1436.70	2036.90	430.60	155.10	56.50	23.30		
15	19.20	60.10	988.10	1890.70	563.00	582.70	4397.40	8555.10	403.50	148.30	53.10	23.30		
16	30.50	49.60	2299.60	8800.50	663.20	999.60	5692.00	9715.90	403.50	141.50	74.80	23.30		
17	43.00	39.70	8352.10	3012.60	602.60	6060.30	2709.20	18925.90	376.90	134.80	78.70	24.70		
18	78.70	39.70	1572.80	2018.40	563.00	4916.20	1694.50	12390.80	359.40	128.10	67.40	29.00		
19	102.60	46.30	854.00	2749.20	663.20	1945.20	1694.50	3977.30	333.60	123.80	60.10	35.00		
20	63.70	39.70	612.60	5450.10	476.80	1068.80	2357.00	1538.50	316.70	119.50	56.50	38.10		
21	53.10	27.50	495.60	4032.70	394.60	832.20	3033.10	1045.60	291.80	115.20	53.10	38.10		
22	38.10	20.60	505.10	4945.40	592.60	757.00	3177.80	1045.60	275.60	134.80	53.10	36.60		
23	33.50	19.20	3277.00	6434.60	412.50	735.90	2000.10	988.10	275.60	119.50	60.10	36.60		
24	32.00	49.60	10439.70	5510.30	1080.40	622.60	1162.90	920.40	243.80	119.50	63.70	35.00		
25	43.00	67.40	3949.70	5210.90	714.90	865.00	1283.60	622.60	243.80	115.20	102.60	43.00		
26	47.90	90.40	1945.20	2709.20	486.20	1538.50	1369.90	543.50	228.30	115.20	74.80	56.50		
27	36.60	43.00	1034.00	2590.40	514.60	1034.00	1162.90	876.00	291.80	115.20	47.90	63.70		
28	32.00	94.40	622.60	2223.70	832.20	1080.40	1139.20	1151.00	543.50	123.80	56.50	86.40		
29	29.00	71.10	412.50	2148.40	582.70	1538.50	1890.70	642.80	385.70	123.80		67.40		
30	41.30	53.10	325.20	2223.70	486.20	2148.40	2414.80	612.60	251.60	119.50		56.50		
31		41.30		1677.00	486.20		2092.50		228.30	119.50		49.60		
Total	1394.70	1996.20	41025.10	72260.20	32232.30	45176.80	89654.70	103042.50	19254.60	5619.70	2139.30	1189.70	414985.80	**Ton**
Mean	46.50	64.40	1367.50	2331.00	1039.80	1505.90	2892.10	3434.80	621.10	181.30	76.40	38.40		
Max	115.20	155.10	10439.70	8800.50	4916.20	6359.20	10439.70	18925.90	3812.50	592.60	115.20	86.40	18925.90	
Min	19.20	19.20	56.50	205.50	394.60	300.10	1127.40	543.50	228.30	115.20	47.90	23.30	19.20	

WATER YEAR : 2014

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	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2014
Number of observation	24
R-Square	0.8200
Remarks	Continued Sediment Station

$$QS = 10.4600\ QW^{1.07800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.10	13.30	38.10	19.10	22.10	48.50	51.90	231.90	222.10	434.90	139.40	28.10		
2	10.50	13.30	7.70	28.10	16.20	48.50	116.40	195.50	195.50	373.20	133.70	28.10		
3	7.70	16.20	31.40	10.50	16.20	45.00	105.10	281.40	182.30	347.00	133.70	28.10		
4	7.70	16.20	51.90	7.70	13.30	41.60	116.40	231.00	257.20	307.20	133.70	28.10		
5	7.70	16.20	87.80	7.70	13.30	28.10	133.70	162.70	162.70	295.70	133.70	28.10		
6	10.50	16.20	92.10	2.30	13.30	13.30	133.70	162.70	105.10	284.30	116.40	28.10		
7	16.20	19.10	55.50	2.30	13.30	7.70	202.20	127.90	92.10	298.60	105.10	28.10		
8	16.20	19.10	48.50	5.00	13.30	7.70	188.90	337.90	122.10	364.50	105.10	28.10		
9	16.20	19.10	38.10	5.00	13.30	7.70	162.70	1504.50	133.70	401.80	105.10	28.10		
10	16.20	22.10	31.40	5.00	10.50	10.50	162.70	1138.10	208.90	311.60	105.10	25.10		
11	16.20	22.10	16.20	5.00	10.50	10.50	162.70	763.30	234.20	295.70	105.10	25.10		
12	22.10	25.10	16.20	2.30	7.70	16.20	182.30	397.40	234.20	284.30	96.40	25.10		
13	25.10	25.10	25.10	2.30	7.70	31.40	239.40	310.10	278.50	270.00	87.80	25.10		
14	28.10	25.10	25.10	2.30	10.50	38.10	127.90	284.30	649.40	379.80	87.80	25.10		
15	28.10	13.30	28.10	5.00	10.50	51.90	246.90	282.80	1414.30	305.80	87.80	25.10		
16	28.10	13.30	31.40	2.30	62.50	38.10	348.80	275.70	448.20	278.50	79.30	25.10		
17	96.40	7.70	92.10	2.30	58.90	79.30	668.70	264.30	347.00	265.70	79.30	22.10		
18	75.00	7.70	48.50	2.30	45.00	62.50	285.70	268.50	865.30	252.90	75.00	22.10		
19	62.50	7.70	48.50	2.30	22.10	55.50	246.90	439.40	1116.80	244.80	75.00	22.10		
20	48.50	5.00	22.10	2.30	19.10	48.50	235.20	461.60	450.40	246.90	70.90	22.10		
21	41.60	5.00	5.00	5.00	16.20	48.50	182.30	557.90	468.20	239.40	70.90	19.10		
22	34.80	2.30	7.70	5.00	13.30	51.90	133.70	492.00	417.20	234.20	70.90	19.10		
23	28.10	13.30	13.30	5.00	13.30	51.90	169.10	468.20	468.20	233.10	70.90	19.10		
24	22.10	13.30	13.30	22.10	7.70	51.90	162.70	357.90	360.10	235.20	70.90	19.10		
25	16.20	28.10	34.80	38.10	13.30	55.50	188.90	302.90	388.60	231.90	62.50	16.20		
26	13.30	45.00	28.10	38.10	22.10	58.90	245.80	281.40	979.10	228.80	28.10	16.20		
27	13.30	13.30	22.10	41.60	31.40	55.50	406.20	261.40	1629.30	202.20	28.10	16.20		
28	13.30	7.70	22.10	41.60	28.10	55.50	452.70	251.50	854.40	195.50	28.10	13.30		
29	13.30	5.00	13.30	41.60	48.50	55.50	341.60	242.70	930.60	162.70		13.30		
30	13.30	10.50	13.30	28.10	41.60	55.50	325.30	236.30	715.00	162.70		13.30		
31		10.50		25.10	45.00		246.90		582.00	162.70		13.30		
Total	770.40	476.90	1008.80	412.40	679.80	1231.20	6973.40	11573.20	15512.70	8531.60	2485.80	695.20	50351.40	**Ton**
Mean	25.70	15.40	33.60	13.30	21.90	41.00	224.90	385.80	500.40	275.20	88.80	22.40		
Max	96.40	45.00	92.10	41.60	62.50	79.30	668.70	1504.50	1629.30	434.90	139.40	28.10	1629.30	
Min	7.70	2.30	5.00	2.30	7.70	7.70	51.90	127.90	92.10	162.70	28.10	13.30	2.30	

WATER YEAR : 2014

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.
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	2014
Number of observation	23
R-Square	0.8366
Remarks	Continued Sediment Station

$$QS = 0.6121\ QW^{1.94930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	24.20	65.60	209.30	434.00	411.00	285.70	469.70	494.20	248.80	150.40	103.20	65.60		
2	46.30	85.50	107.90	266.90	345.50	257.80	356.10	942.10	285.70	150.40	103.20	65.60		
3	62.10	117.90	62.10	188.40	305.00	240.00	585.00	1543.50	325.00	144.70	103.20	62.10		
4	73.20	585.00	58.80	144.70	377.60	248.80	1479.20	1032.60	964.30	144.70	103.20	62.10		
5	85.50	434.00	58.80	314.90	345.50	377.60	1055.90	858.00	858.00	139.20	98.60	58.80		
6	77.20	356.10	62.10	202.20	986.80	506.70	732.00	1009.60	612.30	133.70	98.60	58.80		
7	69.40	223.90	58.80	156.20	2465.40	858.00	640.20	1302.30	469.70	133.70	98.60	55.50		
8	65.60	117.90	55.50	123.00	1447.60	1576.10	1676.00	1176.00	366.70	133.70	94.10	55.50		
9	62.10	40.60	55.50	150.40	767.00	1609.10	3632.40	1200.70	295.20	144.70	94.10	52.40		
10	58.80	162.10	52.40	202.20	626.10	802.80	2259.10	964.30	240.00	209.30	94.10	52.40		
11	52.40	133.70	98.60	248.80	457.60	732.00	626.10	668.70	209.30	202.20	89.70	49.30		
12	43.40	94.10	150.40	356.10	335.20	519.40	411.00	469.70	209.30	162.10	89.70	49.30		
13	40.60	65.60	195.20	285.70	314.90	422.40	399.70	457.60	202.20	150.40	89.70	46.30		
14	37.90	43.40	266.90	399.70	335.20	345.50	377.60	571.60	188.40	144.70	89.70	46.30		
15	37.90	40.60	257.80	558.30	335.20	445.70	697.80	876.80	181.60	139.20	85.50	46.30		
16	46.30	37.90	9979.30	898.30	335.20	1127.20	668.70	1576.10	181.60	139.20	85.50	43.40		
17	58.80	37.90	1710.00	4011.00	305.00	9979.30	506.70	4150.00	175.00	139.20	85.50	43.40		
18	62.10	35.30	356.10	5595.40	266.90	3946.60	399.70	898.30	175.00	139.20	85.50	43.40		
19	58.80	35.30	195.20	9838.80	248.80	3175.30	532.20	494.20	168.50	133.70	85.50	40.60		
20	49.30	32.90	181.60	5424.40	240.00	2337.90	481.90	434.00	168.50	128.30	81.30	40.60		
21	37.90	28.40	175.00	2220.20	231.30	839.40	422.40	377.60	168.50	123.00	77.20	32.90		
22	32.90	24.20	168.50	7388.40	223.90	422.40	356.10	314.90	168.50	117.90	77.20	35.30		
23	28.40	32.90	10263.30	10406.70	216.50	377.60	285.70	257.80	168.50	117.90	77.20	35.30		
24	35.30	46.30	6636.60	5509.60	216.50	434.00	266.90	248.80	162.10	112.80	73.20	37.90		
25	52.40	62.10	1302.30	1744.30	209.30	457.60	434.00	248.80	162.10	112.80	73.20	37.90		
26	46.30	58.80	839.40	898.30	356.10	626.10	545.20	240.00	175.00	112.80	73.20	58.80		
27	40.60	62.10	697.80	1813.80	276.20	558.30	506.70	248.80	240.00	112.80	69.40	55.50		
28	35.30	55.50	654.30	1416.30	257.80	532.20	434.00	248.80	216.50	112.80	69.40	52.40		
29	32.90	46.30	612.30	1032.60	285.70	654.30	767.00	257.80	195.20	107.90		49.30		
30	30.60	43.40	598.50	585.00	366.70	612.30	714.80	257.80	168.50	107.90		49.30		
31		52.40		457.60	445.70		399.70		162.10	107.90		46.30		
Total	1484.50	3257.70	36120.30	63272.20	14337.20	35308.10	23119.50	23821.40	8512.10	4209.20	2448.50	1528.60	217419.30	**Ton**
Mean	49.50	105.10	1204.00	2041.00	462.50	1176.90	745.80	794.00	274.60	135.80	87.40	49.30		
Max	85.50	585.00	10263.30	10406.70	2465.40	9979.30	3632.40	4150.00	964.30	209.30	103.20	65.60	10406.70	
Min	24.20	24.20	52.40	123.00	209.30	240.00	266.90	240.00	162.10	107.90	69.40	32.90	24.20	

WATER YEAR : 2014

TAPI RIVER BASIN

Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

Ban Tha Khanon **Amphoe** Khiri Ratnikhom **Changwat** Surat Thani

Drainge Area	2,968 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	2014
Number of observation	18
R-Square	0.7120
Remarks	Continued Sediment Station

$$QS = 2.0532\ QW^{1.35810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1215.80	318.20	26.10	6026.10	6395.30	943.20	1093.60	3335.00	1541.30	1230.80	1589.50	690.20		
2	3783.20	251.70	18.30	5798.30	7536.50	880.60	1245.90	3532.30	2039.50	1230.80	394.20	1170.90		
3	5685.30	189.60	943.20	6395.30	4615.20	1093.60	1462.00	4938.20	2022.30	1573.40	217.70	2022.30		
4	5770.00	246.80	4245.80	6605.50	2143.40	849.80	1525.40	3732.60	1182.10	477.20	394.20	2039.50		
5	3557.20	194.20	1414.90	7682.60	2719.60	709.60	4376.80	2427.00	1819.10	350.30	261.70	1291.40		
6	2091.30	167.00	604.40	7866.20	4965.30	768.90	7536.50	2499.30	1170.90	149.40	318.20	1525.40		
7	3433.30	185.00	1971.00	7646.00	3068.60	576.50	7609.40	6675.90	1509.50	60.00	237.00	2091.30		
8	4350.50	185.00	1170.90	7939.90	4038.50	1654.30	8423.80	7282.70	2005.20	292.20	167.00	1835.80		
9	4695.40	124.10	576.50	7976.90	3286.10	1414.90	9375.10	4695.40	1509.50	124.10	212.90	1802.50		
10	4722.20	128.30	623.20	8839.10	2794.10	2091.30	4141.80	3044.60	2445.00	158.10	394.20	558.10		
11	3140.60	175.90	2213.40	5461.10	1719.70	1819.10	2608.80	2794.10	1920.00	81.20	486.00	88.70		
12	180.50	203.50	3632.10	2284.00	1337.40	613.80	2301.80	2925.80	2143.40	88.70	839.50	623.20		
13	50.00	217.70	3833.90	1954.00	1368.30	788.90	1954.00	3657.20	2701.00	140.90	88.70	189.60		
14	0.00	212.90	9452.30	975.00	1670.60	1605.60	1230.80	2775.40	2195.90	198.80	40.60	74.00		
15	297.30	153.80	9945.40	680.50	839.50	3310.50	1060.90	1071.80	2627.20	140.90	318.20	56.60		
16	1104.60	839.50	9991.20	739.10	839.50	7609.40	880.60	739.10	2091.30	70.40	411.00	0.00		
17	985.60	377.60	11105.40	1082.70	819.20	11674.00	1082.70	585.70	3164.80	81.20	203.50	189.60		
18	829.30	194.20	10220.70	1954.00	819.20	7976.90	709.60	778.90	2231.00	120.00	1170.90	302.50		
19	1322.00	84.90	8311.50	2553.90	451.00	2608.80	911.80	829.30	1430.60	1477.80	1215.80	261.70		
20	1835.80	136.60	7903.00	1752.70	323.50	1852.60	1115.60	661.20	922.20	1686.90	670.80	964.40		
21	1430.60	162.50	8013.90	4219.80	167.00	1541.30	778.90	870.30	1752.70	768.90	198.80	1509.50		
22	3657.20	227.30	8236.80	3757.90	241.90	1170.90	477.20	1954.00	1126.60	996.30	287.00	1954.00		
23	6117.80	809.00	8953.20	4298.10	212.90	943.20	361.10	729.20	749.00	1028.50	350.30	2056.70		
24	6117.80	23.40	9529.70	7609.40	459.70	839.50	661.20	932.70	799.00	1525.40	313.00	2427.00		
25	6256.20	15.80	9646.20	8839.10	1736.20	758.90	932.70	860.00	739.10	2195.90	486.00	2608.80		
26	5489.00	15.80	9607.30	9991.20	1573.40	739.10	1573.40	1017.70	870.30	880.60	585.70	1115.60		
27	3607.10	63.40	9106.00	6640.70	1383.80	699.90	1686.90	985.60	1159.80	459.70	558.10	512.70		
28	3286.10	749.00	6782.00	5101.80	1638.00	661.20	2812.80	819.20	901.40	377.60	189.60	241.90		
29	2888.00	477.20	6117.80	3092.50	1477.80	642.10	3582.10	1050.10	1039.20	297.30		140.90		
30	2499.30	31.70	5544.90	4324.30	1159.80	623.20	3935.80	2301.80	503.80	237.00		416.70		
31		46.80		5294.40	1261.00		3213.10		361.10	208.20		1104.60		
Total	90399.00	7208.40	169741.00	155382.10	63062.00	59461.60	80662.10	70502.10	48673.80	18708.50	12600.10	31866.10	808266.90	**Ton**
Mean	3013.30	232.50	5658.00	5012.30	2034.30	1982.10	2602.00	2350.10	1570.10	603.50	450.00	1027.90		
Max	6256.20	839.50	11105.40	9991.20	7536.50	11674.00	9375.10	7282.70	3164.80	2195.90	1589.50	2608.80	11674.00	
Min	0.00	15.80	18.30	680.50	167.00	576.50	361.10	585.70	361.10	60.00	40.60	0.00	0.00	

WATER YEAR : 2014

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	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2014
Number of observation	24
R-Square	0.8546
Remarks	Continued Sediment Station

$$QS = 3.2305\ QW^{1.20490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	36.00	185.20	142.70	317.10	2075.80	3181.30	2005.90	3975.90	1696.50	1798.60	207.10	61.90		
2	102.30	112.90	176.00	387.60	1908.70	2820.50	2047.80	3865.20	1394.20	1453.40	191.40	60.00		
3	63.90	89.90	235.90	402.10	1651.40	2388.10	2700.20	3843.10	1195.80	1138.60	182.10	56.20		
4	37.20	94.00	287.60	321.40	1132.20	1894.90	2993.70	3887.30	1151.20	931.00	166.80	54.30		
5	45.00	110.80	349.20	250.50	846.00	1404.10	3162.40	3821.10	1144.90	814.00	160.70	63.90		
6	98.10	119.40	411.80	216.60	882.30	1056.80	3408.90	3697.00	1176.70	802.10	151.70	77.70		
7	102.30	94.00	466.10	200.80	1433.60	906.60	3716.30	3466.20	1227.80	1144.90	151.70	58.10		
8	160.70	77.70	511.40	210.30	2061.80	826.00	4221.30	3143.60	1113.30	1365.90	151.70	52.40		
9	157.70	67.80	456.20	239.10	2316.50	754.60	4906.70	3275.80	1100.70	1244.90	139.80	50.50		
10	87.80	63.90	373.10	279.30	2373.80	794.10	5439.00	3697.00	1088.10	935.10	131.00	46.80		
11	61.90	69.70	291.80	242.40	2273.70	1296.50	5604.60	4243.70	890.40	781.20	122.20	45.00		
12	65.80	91.90	239.10	207.10	2005.90	1764.50	5411.50	4701.80	736.90	704.70	117.20	43.20		
13	61.90	160.70	254.60	188.30	1606.50	1753.10	5192.10	4958.10	649.60	652.50	112.90	41.40		
14	61.90	223.00	358.70	312.90	1183.00	1839.80	4829.60	4906.70	646.80	615.30	108.70	39.60		
15	67.80	226.20	466.10	541.00	910.60	2402.50	4559.80	4676.30	1100.70	596.30	104.40	38.40		
16	69.70	210.30	426.50	603.90	846.00	2924.20	4333.60	4378.70	1867.30	586.90	100.20	37.20		
17	242.40	239.10	543.80	707.60	1069.30	3351.70	4131.80	4087.10	2033.80	564.80	96.10	37.20		
18	471.10	330.30	678.50	745.70	1170.30	3697.00	3975.90	3755.10	1978.00	546.60	94.00	36.00		
19	491.20	411.80	626.70	638.10	1176.70	4064.80	3799.10	3351.70	2005.90	528.40	100.20	36.00		
20	525.70	392.40	541.00	552.20	1113.30	4311.10	3755.10	2768.80	2005.90	522.90	110.80	34.90		
21	536.80	271.00	431.40	491.20	1056.80	4109.40	3777.10	2316.50	1894.90	496.20	104.40	36.00		
22	536.80	185.20	339.80	402.10	976.00	3677.60	3799.10	2075.80	1753.10	481.10	91.90	34.90		
23	524.30	169.80	349.20	321.40	902.50	3031.10	3658.30	2033.80	1628.90	456.20	83.70	34.90		
24	368.30	335.00	486.10	279.30	1013.20	2431.30	3466.20	2216.80	1453.40	426.50	77.70	33.70		
25	275.20	506.30	546.60	531.20	1144.90	2259.50	3294.70	2460.10	1287.90	397.20	73.70	36.00		
26	232.70	481.10	559.20	1088.10	1617.70	2146.10	3237.90	2316.50	1313.80	368.30	69.70	36.00		
27	128.00	436.40	524.30	1787.20	2547.00	1775.80	3332.70	1950.20	1493.10	344.50	65.80	33.70		
28	87.80	476.10	416.70	2359.40	3049.80	1433.60	3581.20	1787.20	1787.20	308.60	63.90	32.50		
29	98.10	486.10	339.80	2619.80	3313.70	1423.80	3755.10	1741.70	2132.00	271.00		32.50		
30	122.20	451.20	291.80	2619.80	3447.00	1753.10	4020.30	1798.60	2231.00	239.10		32.50		
31		407.00		2345.10	3408.90		4042.60		2117.90	223.00		31.40		
Total	5920.60	7576.20	12121.70	22408.60	52514.90	67473.50	120160.50	99197.40	45297.70	21739.80	3331.50	1344.80	459087.30	**Ton**
Mean	197.40	244.40	404.10	722.90	1694.00	2249.10	3876.10	3306.60	1461.20	701.30	119.00	43.40		
Max	536.80	506.30	678.50	2619.80	3447.00	4311.10	5604.60	4958.10	2231.00	1798.60	207.10	77.70	5604.60	
Min	36.00	63.90	142.70	188.30	846.00	754.60	2005.90	1741.70	646.80	223.00	63.90	31.40	31.40	

WATER YEAR : 2014

TAPI RIVER BASIN

Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)

Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

Location : on left bank at Ban Tha Pho.

Ban Tha Pho **Amphoe** Chawang **Changwat** Nakhon Si Thammarat

Drainge Area	488 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	2014
Number of observation	23
R-Square	0.7137
Remarks	Continued Sediment Station

$$QS = 4.7433\ QW^{1.31220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.80	17.50	65.60	196.80	264.10	229.10	372.40	270.60	107.70	407.90	23.60	11.00		
2	10.30	19.20	243.30	178.90	201.30	205.90	372.40	248.10	99.90	407.90	21.80	11.00		
3	11.00	19.20	96.10	127.70	165.70	192.30	344.50	238.50	103.80	358.40	20.10	11.00		
4	15.00	19.20	99.90	111.60	148.50	192.30	393.60	264.10	103.80	283.80	19.20	10.30		
5	15.00	15.00	67.90	107.70	152.80	233.80	386.50	233.80	99.90	248.10	20.10	11.00		
6	15.80	17.50	131.80	103.80	283.80	219.80	491.50	215.10	96.10	252.90	21.80	11.00		
7	14.10	17.50	88.50	107.70	379.40	238.50	762.40	205.90	127.70	233.80	19.20	11.00		
8	13.30	15.80	115.60	103.80	270.60	210.50	1135.00	323.90	107.70	238.50	20.10	11.00		
9	15.00	15.00	111.60	99.90	233.80	196.80	933.40	2955.70	107.70	224.40	18.30	10.30		
10	21.80	15.00	88.50	79.90	201.30	257.70	660.00	1307.50	99.90	205.90	17.50	10.30		
11	16.60	17.50	79.90	70.30	174.50	257.70	542.80	721.00	99.90	192.30	16.60	10.30		
12	33.10	23.60	77.40	67.90	161.40	252.90	483.10	458.90	84.80	183.30	15.80	8.10		
13	19.20	33.10	77.40	67.90	144.30	483.10	466.30	393.60	84.80	170.10	15.80	6.70		
14	16.60	27.30	84.80	79.90	127.70	804.40	429.60	400.70	2233.90	205.90	15.00	8.10		
15	16.60	45.50	77.40	88.50	152.80	710.80	393.60	372.40	2736.20	170.10	14.10	10.30		
16	27.30	35.10	84.80	131.80	303.70	710.80	483.10	344.50	1033.00	152.80	14.10	11.00		
17	19.20	29.20	187.80	238.50	283.80	630.90	500.00	317.20	868.30	136.00	13.30	11.00		
18	16.60	45.50	131.80	224.40	238.50	586.50	365.30	330.80	1872.60	127.70	12.60	11.80		
19	15.00	84.80	127.70	270.60	178.90	491.50	323.90	365.30	2443.40	119.60	12.60	12.60		
20	13.30	49.80	115.60	252.90	148.50	525.60	317.20	365.30	1279.10	115.60	14.10	11.80		
21	12.60	37.20	152.80	201.30	127.70	586.50	297.00	386.50	1265.00	140.10	12.60	12.60		
22	13.30	33.10	161.40	88.50	107.70	483.10	270.60	372.40	1194.90	127.70	11.80	12.60		
23	13.30	72.60	170.10	82.30	99.90	415.10	264.10	393.60	1194.90	115.60	11.00	15.00		
24	12.60	58.70	174.50	82.30	131.80	372.40	257.70	451.50	1100.70	103.80	10.30	13.30		
25	11.80	45.50	183.30	165.70	187.80	393.60	407.90	358.40	1293.30	96.10	11.00	13.30		
26	12.60	37.20	174.50	622.00	238.50	358.40	337.60	283.80	1350.30	88.50	11.80	15.00		
27	11.00	39.20	170.10	466.30	243.30	337.60	317.20	238.50	2029.00	49.80	11.80	15.00		
28	11.00	148.50	174.50	358.40	436.90	337.60	337.60	219.80	955.30	37.20	11.80	14.10		
29	10.30	127.70	170.10	264.10	474.70	386.50	365.30	205.90	741.70	33.10		14.10		
30	11.00	82.30	174.50	219.80	337.60	386.50	337.60	196.80	586.50	29.20		14.10		
31		72.60		210.50	264.10		303.70		483.10	27.30		14.10		
Total	453.10	1316.90	3859.20	5471.70	6865.40	11688.20	13652.90	13440.10	25984.90	5283.40	437.80	362.80	88816.40	**Ton**
Mean	15.10	42.50	128.60	176.50	221.50	389.60	440.40	448.00	838.20	170.40	15.60	11.70		
Max	33.10	148.50	243.30	622.00	474.70	804.40	1135.00	2955.70	2736.20	407.90	23.60	15.00	2955.70	
Min	8.80	15.00	65.60	67.90	99.90	192.30	257.70	196.80	84.80	27.30	10.30	6.70	6.70	

WATER YEAR : 2014

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.
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	2014
Number of observation	24
R-Square	0.8788
Remarks	Continued Sediment Station

$$QS = 6.5066\ QW^{1.20400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	65.90	30.30	60.40	157.40	763.00	274.80	965.10	379.40	235.30	36.60	11.70		
2	1.80	57.60	44.30	54.90	112.30	638.60	438.80	981.90	387.50	170.90	35.80	11.70		
3	4.20	58.50	31.70	46.90	79.10	474.90	800.00	1082.80	343.50	133.10	35.80	11.10		
4	26.80	65.00	41.70	38.30	118.00	290.90	1004.80	1027.90	351.20	116.90	34.90	11.10		
5	112.30	86.80	61.30	34.90	215.70	141.40	1064.90	938.30	403.90	107.70	32.50	10.50		
6	118.00	89.70	86.80	31.70	327.00	111.10	1219.10	872.50	449.40	115.70	32.50	10.50		
7	54.00	118.00	89.70	29.60	449.10	90.70	1709.00	822.20	480.10	235.30	29.60	9.90		
8	47.80	137.90	65.90	28.90	519.00	81.00	2235.70	783.10	475.20	173.70	28.90	9.90		
9	43.40	116.90	46.00	26.80	502.20	165.50	2378.70	882.70	412.70	118.00	26.80	9.90		
10	38.30	79.10	40.90	26.80	410.00	325.20	2357.40	904.00	255.40	93.60	26.10	9.90		
11	30.30	45.20	34.90	28.20	332.50	414.10	2325.50	934.40	198.00	82.00	24.00	9.30		
12	22.00	34.90	32.50	31.00	357.20	383.50	1976.00	1004.80	199.50	74.30	24.00	8.80		
13	17.40	48.70	40.90	63.10	379.40	281.90	1589.90	1064.90	164.10	68.70	22.70	8.80		
14	30.30	42.60	49.60	200.90	361.20	236.70	1358.40	1070.90	217.30	65.90	21.30	8.20		
15	41.70	37.50	60.40	316.10	250.20	314.30	1172.90	1027.90	383.50	64.00	20.70	8.20		
16	56.70	31.00	82.00	307.00	104.60	449.10	1055.70	934.40	393.80	63.10	20.00	7.60		
17	82.00	65.90	133.10	235.30	68.70	598.90	1023.30	819.20	314.30	62.20	18.70	7.60		
18	227.70	105.60	120.30	142.60	74.30	709.40	968.90	631.80	278.40	60.40	18.70	7.10		
19	361.20	86.80	75.30	76.20	72.40	792.60	949.70	427.00	303.40	58.50	16.70	6.50		
20	451.60	64.00	65.90	59.40	82.90	844.90	965.10	361.20	289.10	55.80	16.10	6.50		
21	472.30	39.20	55.80	40.00	102.60	822.40	893.00	355.20	246.70	51.30	15.40	6.10		
22	401.80	26.80	46.00	29.60	133.10	595.90	841.80	393.80	262.50	49.60	14.20	6.10		
23	334.30	32.50	34.10	26.80	157.40	373.30	816.20	428.60	243.20	46.90	13.60	5.70		
24	307.00	33.30	43.40	26.10	173.70	330.70	804.10	542.10	209.80	45.20	12.90	5.70		
25	245.00	32.50	52.20	65.00	339.80	327.00	807.10	478.40	182.00	43.40	11.70	5.40		
26	145.00	31.00	65.00	182.00	676.60	325.20	945.90	465.50	208.20	40.00	11.70	5.00		
27	111.10	30.30	67.70	323.40	921.00	323.40	1076.90	452.60	273.10	37.50	11.70	5.00		
28	95.60	29.60	65.90	428.60	977.30	312.50	1064.90	422.20	363.20	37.50	11.70	5.00		
29	84.90	29.60	65.00	363.20	959.00	292.60	1046.40	375.40	377.40	36.60		5.00		
30	73.40	26.80	62.20	262.50	883.60	273.10	1004.80	363.20	328.80	36.60		4.60		
31		25.40		215.70	818.70		981.90		296.20	36.60		4.60		
Total	4039.10	1774.60	1790.80	3801.90	11116.00	12083.80	37151.60	21814.00	9670.80	2616.30	625.30	243.00	106727.20	**Ton**
Mean	134.60	57.20	59.70	122.60	358.60	402.80	1198.40	727.10	312.00	84.40	22.30	7.80		
Max	472.30	137.90	133.10	428.60	977.30	844.90	2378.70	1082.80	480.10	235.30	36.60	11.70	2378.70	
Min	1.20	25.40	30.30	26.10	68.70	81.00	274.80	355.20	164.10	36.60	11.70	4.60	1.20	

WATER YEAR : 2014

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	2009-Cont'd
Actual Measurement	2009-Cont'd
Using Rating Curve Water Year	2014
Number of observation	24
R-Square	0.9380
Remarks	Continued Sediment Station

$$QS = 4.2710\ QW^{1.33710}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	21.90	70.80	91.90	107.50	1343.70	1678.80	659.90	2703.80	1084.70	1129.20	44.80	43.80		
2	40.70	86.50	101.60	97.40	996.20	1298.90	765.50	2674.80	1001.80	1024.50	64.50	42.70		
3	54.80	74.70	124.00	96.10	673.20	968.10	1129.20	2674.80	990.50	996.20	90.60	42.70		
4	50.00	67.00	130.20	97.40	547.90	721.90	1709.00	2645.90	984.90	879.50	96.10	41.70		
5	90.60	47.90	112.00	121.00	486.10	575.50	2222.20	2645.90	990.50	721.90	97.40	40.70		
6	107.50	38.70	94.70	136.90	455.10	465.30	2505.40	2574.00	984.90	805.50	97.40	40.70		
7	93.30	32.90	112.00	136.90	686.30	407.90	2732.90	2357.50	984.90	1078.30	96.10	39.70		
8	96.10	29.20	110.50	124.00	968.10	391.80	2959.10	2176.40	979.30	1167.90	96.10	39.70		
9	97.40	26.70	109.00	112.00	1193.80	461.80	3512.20	2424.50	973.70	1135.80	96.10	39.70		
10	56.00	35.80	90.60	96.10	1252.70	726.40	4329.40	2718.40	973.70	956.90	96.10	39.70		
11	34.80	46.90	62.10	82.50	1097.20	1193.80	4997.50	2974.90	968.10	677.50	94.70	38.70		
12	31.90	70.80	60.80	72.10	780.30	1447.40	5582.10	3201.00	968.10	444.80	94.70	38.70		
13	37.70	87.90	107.50	78.60	555.30	1621.90	5342.90	3475.30	968.10	319.20	93.30	37.70		
14	44.80	94.70	172.40	104.50	475.60	1893.50	4665.80	3218.80	973.70	286.00	93.30	36.70		
15	47.90	87.90	161.50	154.40	434.70	2063.10	3309.90	2959.10	973.70	256.70	93.30	36.70		
16	53.60	85.20	131.80	237.60	427.90	2424.50	2478.30	2718.40	962.50	216.60	93.30	35.80		
17	113.50	82.50	156.10	388.60	391.80	2959.10	2176.40	2384.50	962.50	180.00	91.90	34.80		
18	242.40	77.30	266.40	536.90	340.20	3530.80	2052.20	2130.90	962.50	161.50	90.60	34.80		
19	290.90	79.90	311.30	414.40	308.80	3857.50	1831.10	1872.50	956.90	150.90	89.20	33.80		
20	266.40	72.10	340.20	214.30	251.90	3475.30	1577.30	1568.50	951.30	145.60	86.50	33.80		
21	223.60	54.80	329.60	130.20	191.50	2588.30	1335.90	1335.90	906.90	138.60	77.30	32.90		
22	170.50	62.10	283.50	113.50	149.00	1956.70	1232.90	1193.80	810.40	128.70	65.80	31.90		
23	138.60	106.10	288.40	104.50	138.60	1639.80	1193.80	1154.90	735.80	118.00	57.20	31.00		
24	125.60	87.90	308.80	133.50	195.40	1498.00	1071.80	1246.00	673.20	116.50	53.60	30.00		
25	85.20	85.20	324.50	458.40	375.80	1455.60	879.50	1359.60	634.00	115.00	49.00	29.20		
26	67.00	96.10	266.40	704.00	642.50	1431.30	785.40	1343.70	790.30	112.00	46.90	28.40		
27	67.00	138.60	170.50	1550.80	1024.50	1292.40	765.50	1213.40	1001.80	109.00	46.90	28.40		
28	67.00	163.20	135.20	2384.50	1447.40	1103.70	1053.00	1129.20	1272.40	100.20	45.80	27.50		
29	67.00	157.90	125.60	2532.50	1831.10	879.50	2532.50	1116.40	1595.10	87.90		27.50		
30	65.80	113.50	116.50	2256.80	1967.10	721.90	2974.90	1193.80	1648.70	73.40		27.50		
31		98.80		1914.50	1935.50		2820.60		1455.60	53.60		26.70		
Total	2949.50	2459.60	5195.60	15692.40	23565.20	46730.50	73184.10	64386.60	31120.50	13887.40	2238.50	1093.60	282503.50	**Ton**
Mean	98.30	79.30	173.20	506.20	760.20	1557.70	2360.80	2146.20	1003.90	448.00	79.90	35.30		
Max	290.90	163.20	340.20	2532.50	1967.10	3857.50	5582.10	3475.30	1648.70	1167.90	97.40	43.80	5582.10	
Min	21.90	26.70	60.80	72.10	138.60	391.80	659.90	1116.40	634.00	53.60	44.80	26.70	21.90	

WATER YEAR : 2014

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 Nasithong.

Ban Nasithong **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	2014
Number of observation	23
R-Square	0.7482
Remarks	Continued Sediment Station

$$QS = 11.9050\ QW^{1.06620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	31.40	26.50	8.80	15.70	11.90	11.90	19.60	121.00	94.80	410.90	62.00	22.30		
2	36.20	29.70	8.80	14.50	11.30	11.90	51.50	207.90	91.90	332.90	59.90	22.30		
3	34.60	28.10	8.80	13.20	10.60	10.60	76.90	220.60	89.00	307.80	57.80	21.00		
4	33.00	26.50	8.80	11.90	10.00	10.00	106.40	171.40	86.20	282.90	55.70	21.00		
5	31.40	24.90	8.80	11.30	9.40	8.80	118.10	244.00	83.30	275.80	53.60	19.60		
6	33.00	23.60	8.10	10.60	8.80	7.50	195.50	217.40	74.70	261.60	51.50	18.30		
7	24.90	22.30	7.50	10.00	8.80	6.90	351.80	201.50	66.20	251.00	49.40	17.00		
8	24.90	21.00	7.50	9.40	9.40	5.70	282.90	186.40	59.90	204.70	47.30	17.00		
9	36.20	19.60	6.90	24.90	10.00	5.70	290.00	192.40	62.00	174.40	45.30	15.70		
10	34.60	18.30	8.80	23.60	10.60	5.10	290.00	344.00	57.80	147.50	43.20	15.70		
11	33.00	17.00	8.80	22.30	11.30	8.80	207.90	318.60	57.80	150.50	37.90	14.50		
12	31.40	15.70	9.40	21.00	10.60	9.40	171.40	275.80	79.00	156.50	34.60	14.50		
13	29.70	14.50	41.10	19.60	10.00	11.90	141.60	247.50	126.90	147.50	26.50	14.50		
14	28.10	13.20	45.30	18.30	9.40	18.30	123.90	236.90	422.90	135.70	26.50	13.20		
15	26.50	11.90	33.00	17.00	8.80	19.60	118.10	220.60	609.50	121.00	26.50	13.20		
16	24.90	11.30	31.40	15.70	8.10	18.30	100.60	207.90	371.50	121.00	26.50	13.20		
17	45.30	10.00	29.70	14.50	7.50	83.30	86.20	198.50	418.80	118.10	24.90	11.90		
18	100.60	8.80	28.10	11.90	6.90	97.70	74.70	180.40	3087.40	112.20	24.90	11.90		
19	103.50	7.50	26.50	11.30	6.30	74.70	72.60	367.50	1219.60	106.40	24.90	11.90		
20	89.00	7.50	24.90	10.60	6.30	66.20	68.30	247.50	687.60	97.70	24.90	11.90		
21	66.20	8.80	21.00	9.40	5.70	33.00	64.10	204.70	1133.00	89.00	23.60	11.90		
22	37.90	8.10	17.00	9.40	5.10	31.40	47.30	198.50	3075.80	83.30	23.60	11.30		
23	31.40	7.50	13.20	9.40	8.80	24.90	49.40	186.40	2385.50	81.10	23.60	11.30		
24	31.40	7.50	11.30	8.80	8.10	18.30	83.30	180.40	1911.70	81.10	23.60	10.60		
25	31.40	6.90	10.60	8.80	8.80	17.00	112.20	174.40	1389.50	79.00	22.30	10.60		
26	29.70	8.80	10.00	8.80	9.40	11.90	121.00	174.40	1140.00	76.90	22.30	10.60		
27	28.10	8.80	11.90	8.80	10.60	11.30	141.60	171.40	965.30	74.70	22.30	10.60		
28	26.50	9.40	15.70	10.60	11.30	10.60	207.90	165.40	791.80	70.50	22.30	10.00		
29	24.90	11.30	17.00	11.90	11.30	10.00	220.60	147.50	648.50	66.20		10.00		
30	24.90	11.30	19.60	8.80	11.90	10.00	118.10	112.20	692.50	64.10		10.00		
31		11.90		11.90	11.90		97.70		708.20	62.00		10.00		
Total	1164.60	458.20	508.30	413.90	288.90	670.70	4211.20	6323.10	22688.60	4744.00	987.40	437.50	42896.40	**Ton**
Mean	38.80	14.80	16.90	13.40	9.30	22.40	135.80	210.80	731.90	153.00	35.30	14.10		
Max	103.50	29.70	45.30	24.90	11.90	97.70	351.80	367.50	3087.40	410.90	62.00	22.30	3087.40	
Min	24.90	6.90	6.90	8.80	5.10	5.10	19.60	112.20	57.80	62.00	22.30	10.00	5.10	

WATER YEAR : 2014

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.
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	2014
Number of observation	25
R-Square	0.7768
Remarks	Continued Sediment Station

$$QS = 8.7558\ QW^{0.90290}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.10	1.30	21.30	5.60	6.20	7.10	9.00	4.00	19.90	94.90	8.40	0.90		
2	6.40	1.30	16.60	5.60	6.10	6.90	7.30	3.00	19.30	66.10	8.10	0.90		
3	6.40	1.30	17.20	5.50	6.00	6.80	6.50	2.90	13.20	54.80	8.10	0.90		
4	6.30	1.40	12.20	5.40	6.10	6.80	6.60	2.60	42.10	42.80	8.10	0.90		
5	6.80	1.40	11.20	5.40	6.10	6.70	6.40	2.50	32.70	38.80	8.00	1.30		
6	7.10	1.50	14.10	5.40	0.70	6.40	10.60	34.00	26.40	34.00	7.90	1.30		
7	6.50	1.30	23.50	5.90	0.90	6.60	9.50	45.50	17.70	30.60	7.80	1.30		
8	6.30	1.50	27.20	6.30	0.90	6.30	5.50	52.40	23.60	48.80	7.20	1.30		
9	6.30	4.30	31.00	6.60	1.70	6.30	4.30	66.80	34.00	45.50	3.90	1.30		
10	4.80	5.30	39.50	6.70	6.60	6.30	4.80	63.70	27.80	37.40	3.00	1.30		
11	2.40	6.20	1.50	6.70	6.80	6.30	4.10	45.50	21.50	30.60	1.30	1.30		
12	1.70	6.80	1.40	6.30	6.80	6.30	6.80	34.70	18.80	27.10	1.30	1.30		
13	2.00	7.20	1.50	6.30	6.70	6.50	7.70	42.10	96.40	25.00	1.30	1.30		
14	2.50	8.00	1.30	6.30	6.60	6.70	6.40	57.20	264.50	23.60	1.30	1.30		
15	2.40	10.60	2.00	6.70	7.40	6.90	4.90	58.90	396.20	23.60	1.30	0.90		
16	4.80	11.60	3.90	7.10	6.90	7.90	7.60	49.40	286.20	21.50	1.30	0.90		
17	6.30	12.20	6.20	7.00	6.60	9.20	7.70	42.80	204.40	21.00	1.20	0.90		
18	6.50	12.60	7.90	6.80	6.70	8.40	5.40	53.20	366.20	20.40	0.90	0.90		
19	5.40	15.80	9.20	6.60	6.40	7.50	4.10	66.80	620.20	19.30	0.90	0.90		
20	3.40	17.50	10.60	6.30	6.40	6.80	3.70	59.70	275.20	8.80	0.90	0.90		
21	2.10	18.60	11.40	6.20	6.70	6.80	3.40	50.70	260.90	9.30	0.90	0.90		
22	1.70	20.00	9.90	6.10	6.60	6.80	3.30	43.50	493.10	9.20	0.90	0.90		
23	1.70	19.10	6.30	6.00	6.70	6.80	3.10	54.00	805.80	9.20	0.90	0.90		
24	1.70	19.10	6.00	6.00	6.80	6.70	3.90	50.70	601.40	9.20	0.90	0.90		
25	1.70	19.70	5.90	6.00	7.00	6.50	4.20	38.80	413.60	8.90	0.90	0.90		
26	1.60	20.00	6.00	6.10	6.80	6.80	3.70	32.70	262.70	8.70	0.90	0.90		
27	1.60	20.50	5.90	6.10	6.80	6.80	5.40	28.50	211.40	8.40	0.90	0.90		
28	1.50	20.70	5.90	6.10	7.40	6.90	8.80	34.70	140.30	8.40	0.90	0.90		
29	1.40	23.50	5.90	6.10	6.80	8.20	6.80	25.70	127.50	8.40		0.90		
30	1.30	25.20	5.90	6.10	6.90	9.20	4.70	20.40	136.80	8.40		0.90		
31		29.20		6.10	7.00		4.10		156.70	8.40		0.90		
Total	116.70	364.70	328.40	191.40	184.10	210.20	180.30	1167.40	6416.50	811.10	89.40	31.90	10092.10	**Ton**
Mean	3.90	11.80	10.90	6.20	5.90	7.00	5.80	38.90	207.00	26.20	3.20	1.00		
Max	7.10	29.20	39.50	7.10	7.40	9.20	10.60	66.80	805.80	94.90	8.40	1.30	805.80	
Min	1.30	1.30	1.30	5.40	0.70	6.30	3.10	2.50	13.20	8.40	0.90	0.90	0.70	

WATER YEAR : 2014

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	2005-Cont'd
Actual Measurement	2005-Cont'd
Using Rating Curve Water Year	2014
Number of observation	26
R-Square	0.8716
Remarks	Continued Sediment Station

$$QS = 10.4910\ QW^{1.26890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	305.40	112.80	30.20	22.10	45.90	201.10	36.50	350.10	23.70	1738.10	228.10	49.00		
2	752.40	253.40	194.90	14.60	55.60	0.00	25.30	236.50	13.20	1203.80	207.30	31.90		
3	1262.30	170.50	141.00	10.50	59.00	3.30	23.70	146.80	0.60	872.80	176.50	17.50		
4	732.70	112.80	83.50	10.50	69.30	5.50	25.30	59.00	101.90	548.30	152.70	11.80		
5	628.00	129.60	236.50	7.90	76.40	1.80	28.50	87.10	28.50	387.20	279.00	22.10		
6	1174.80	170.50	164.50	3.30	83.50	1.80	62.50	561.30	14.60	323.20	387.20	30.20		
7	893.30	90.80	135.30	1.80	79.80	0.00	164.50	219.90	25.30	279.00	387.20	42.60		
8	792.10	49.00	98.30	2.80	72.70	0.00	182.60	170.50	22.10	341.20	350.10	42.60		
9	772.20	72.70	65.80	6.70	76.40	0.90	141.00	713.10	270.50	350.10	287.80	36.50		
10	674.30	59.00	49.00	9.20	176.50	0.60	107.30	792.10	194.90	261.80	228.10	141.00		
11	614.40	87.10	33.60	36.50	201.10	4.40	87.10	368.40	112.80	170.50	176.50	201.10		
12	587.70	79.80	23.70	76.40	176.50	20.60	62.50	341.20	87.10	359.40	112.80	279.00		
13	574.60	59.00	13.20	112.80	123.90	52.40	201.10	201.10	36.50	305.40	118.30	261.80		
14	548.30	31.90	10.50	90.80	123.90	42.60	176.50	129.60	213.60	158.50	152.70	244.80		
15	445.90	7.90	20.60	52.40	296.50	59.00	244.80	101.90	2933.80	170.50	164.50	236.50		
16	279.00	14.60	36.50	36.50	236.50	45.90	548.30	98.30	359.40	244.80	170.50	236.50		
17	279.00	7.90	69.30	23.70	176.50	14.60	732.70	98.30	6095.20	261.80	170.50	213.60		
18	270.50	11.80	90.80	13.20	123.90	33.60	732.70	16.10	21847.20	219.90	176.50	188.70		
19	228.10	25.30	94.40	3.30	76.40	2.30	433.20	20.60	33059.10	182.60	176.50	176.50		
20	176.50	25.30	83.50	2.80	22.10	2.80	201.10	6.70	27006.90	244.80	170.50	176.50		
21	112.80	23.70	72.70	0.60	16.10	0.20	94.40	16.10	19508.70	350.10	152.70	176.50		
22	107.30	83.50	59.00	0.00	9.20	0.00	30.20	13.20	28030.50	323.20	107.30	170.50		
23	94.40	118.30	52.40	0.00	2.30	0.00	17.50	52.40	38127.10	201.10	107.30	170.50		
24	94.40	152.70	36.50	0.00	1.80	0.00	17.50	471.10	39295.80	129.60	107.30	170.50		
25	76.40	141.00	42.60	0.00	2.30	0.00	55.60	6290.80	31831.10	141.00	101.90	164.50		
26	76.40	101.90	42.60	0.00	13.20	14.60	55.60	1471.50	23732.60	332.00	94.40	141.00		
27	76.40	69.30	59.00	0.00	83.50	19.00	135.30	341.20	13724.80	445.90	65.80	129.60		
28	107.30	59.00	59.00	3.30	170.50	9.20	713.10	152.70	8478.80	314.10	65.80	118.30		
29	123.90	49.00	55.60	10.50	332.00	55.60	732.70	98.30	6662.20	182.60		112.80		
30	107.30	23.70	52.40	19.00	287.80	49.00	832.30	25.30	5607.20	207.30		112.80		
31		36.50		26.90	279.00		483.60		4119.90	219.90		112.80		
Total	12968.10	2430.30	2206.90	598.10	3550.10	640.80	7385.00	13651.2 3	11565.60	11470.50	5075.80	4220.00	375762.40	**Ton**
Mean	432.30	78.40	73.60	19.30	114.50	21.40	238.20	455.00	10050.50	370.00	181.30	136.10		
Max	1262.30	253.40	236.50	112.80	332.00	201.10	832.30	6290.80	39295.80	1738.10	387.20	279.00	39295.80	
Min	76.40	7.90	10.50	0.00	1.80	0.00	17.50	6.70	0.60	129.60	65.80	11.80	0.00	

WATER YEAR : 2014

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.
Method of sampling	Depth Integrating
Instrument Used	US.DH-59
Period of Available Records	1979-Cont'd
Actual Measurement	1981-Cont'd
Using Rating Curve Water Year	2014
Number of observation	27
R-Square	0.8672
Remarks	Continued Sediment Station

$$QS = 20.5760\ QW^{1.12300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	19.00	5.70	4.50	6.10	5.10	4.50	1211.50	23.40	11.80	29.30	8.00	6.50		
2	40.60	7.10	4.50	4.30	3.80	4.30	181.20	14.90	32.70	24.10	7.80	6.50		
3	57.30	16.00	12.70	3.90	3.60	4.10	280.80	12.90	543.30	21.70	7.80	6.50		
4	148.70	8.40	5.30	3.80	3.40	3.90	536.70	196.50	201.90	19.40	7.60	6.50		
5	13.80	8.00	5.10	3.80	3.40	4.30	155.30	121.70	65.40	17.60	7.60	6.50		
6	6.10	50.60	4.90	3.80	3.40	4.30	964.30	12.50	1248.10	15.80	7.60	6.50		
7	5.90	6.30	4.50	3.80	3.40	3.90	733.40	13.10	144.70	14.90	7.60	6.50		
8	35.10	62.00	4.30	3.90	3.40	4.70	188.90	194.20	28.60	15.10	7.60	6.50		
9	5.10	11.40	4.10	4.70	3.40	5.50	32.00	292.50	16.00	15.30	7.40	11.20		
10	60.20	6.30	4.10	4.90	3.40	6.50	314.90	46.80	13.80	13.30	7.40	6.70		
11	12.50	5.90	4.10	3.90	16.00	7.40	76.00	347.80	12.50	12.90	7.40	6.70		
12	6.10	5.30	5.70	4.30	6.10	8.40	38.80	43.10	11.80	12.20	7.40	6.30		
13	5.10	5.10	6.10	3.80	4.30	6.70	644.90	21.30	11.20	11.80	7.40	6.10		
14	8.40	4.90	4.50	3.80	4.90	5.50	109.70	44.10	12.20	11.20	7.40	5.90		
15	37.10	5.70	4.30	3.80	11.60	15.60	188.90	27.10	20.10	10.90	7.40	5.90		
16	106.10	8.00	4.10	3.60	4.50	253.90	1333.90	14.50	92.40	10.70	7.40	5.70		
17	80.00	5.50	4.10	3.60	3.90	13.30	131.60	12.00	1715.10	10.30	7.10	5.70		
18	8.40	5.10	4.30	3.60	3.80	6.10	56.30	11.60	1715.10	10.30	6.90	5.70		
19	16.50	15.10	3.90	3.60	3.60	5.50	277.10	12.20	343.00	10.10	6.90	5.70		
20	5.70	8.80	3.90	3.60	3.60	5.30	65.40	11.20	90.80	9.90	6.90	5.50		
21	5.30	5.90	3.80	3.40	3.60	5.10	17.10	10.10	692.90	9.70	6.90	6.10		
22	5.10	5.10	3.60	3.40	3.60	5.50	22.20	35.10	1506.50	9.40	6.90	5.50		
23	5.10	4.90	3.60	3.40	26.00	4.50	217.40	2294.50	937.90	9.40	6.90	5.50		
24	4.70	4.70	4.30	3.40	37.10	44.80	296.20	188.90	475.00	9.20	6.90	5.30		
25	4.50	4.70	3.80	3.40	14.20	12.00	37.10	36.10	352.50	9.20	6.90	5.30		
26	39.60	4.70	3.60	4.30	5.90	12.00	16.50	24.10	188.90	9.20	6.70	5.30		
27	15.60	4.50	3.60	4.10	11.40	5.70	790.40	21.30	269.40	9.00	6.70	5.30		
28	5.10	4.50	3.60	3.80	12.20	155.30	390.50	14.90	123.70	8.60	6.70	5.30		
29	22.90	4.50	3.40	3.40	5.30	13.10	435.50	15.10	66.70	8.20		5.10		
30	9.20	4.50	3.80	3.60	6.90	66.70	412.90	12.50	48.60	8.20		5.10		
31		5.90		3.60	4.90		153.00		38.80	8.00		5.10		
Total	794.80	305.10	136.10	120.40	229.70	698.40	10310.40	4126.00	11031.40	394.90	203.20	188.00	28538.40	**Ton**
Mean	26.50	9.80	4.50	3.90	7.40	23.30	332.60	137.50	355.90	12.70	7.30	6.10		
Max	148.70	62.00	12.70	6.10	37.10	253.90	1333.90	2294.50	1715.10	29.30	8.00	11.20	2294.50	
Min	4.50	4.50	3.40	3.40	3.40	3.90	16.50	10.10	11.20	8.00	6.70	5.10	3.40	

WATER YEAR : 2014

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	2008-Cont'd				
Actual Measurement	2008-Cont'd				
Using Rating Curve Water Year	2014				
Number of observation	23				
R-Square	0.7769				
Remarks	Continued Sediment Station				

$$QS = 5.8320\ QW^{1.26690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	94.40	0.50	1.30	1.00	4.80	5.30	151.10	163.30	289.70	25.00	5.60		
2	0.50	71.10	0.60	1.30	0.90	4.60	4.60	104.40	161.30	272.20	22.70	5.30		
3	0.50	60.00	0.60	1.30	0.90	3.40	4.60	51.10	94.40	222.10	21.60	5.10		
4	0.50	44.20	0.60	2.20	0.90	3.40	5.80	39.20	40.90	159.20	19.50	5.10		
5	0.50	31.90	0.70	2.20	0.90	2.20	5.80	39.20	38.00	135.80	17.30	4.80		
6	0.50	22.70	0.70	2.20	0.90	2.20	34.30	39.20	45.90	118.20	16.30	4.80		
7	0.50	17.30	0.70	2.20	0.90	1.80	13.50	39.20	61.90	107.80	15.70	4.80		
8	2.50	13.00	0.70	2.20	0.90	1.30	4.60	73.00	171.60	107.80	15.70	4.60		
9	1.10	9.70	0.70	2.20	0.90	1.30	4.60	132.30	147.10	104.40	15.70	4.60		
10	0.90	7.30	0.80	2.20	0.90	1.30	3.40	67.40	87.80	84.50	15.10	4.60		
11	0.50	5.80	1.30	2.20	0.90	1.00	3.40	39.20	101.00	74.90	15.10	4.30		
12	0.50	5.60	7.30	1.30	1.30	0.90	2.90	39.20	81.30	69.20	14.60	4.30		
13	0.50	5.30	16.30	1.30	1.30	0.90	2.20	47.70	139.40	69.20	14.60	4.10		
14	0.50	4.80	16.30	2.20	1.30	0.50	2.20	56.40	354.70	69.20	14.60	4.10		
15	0.90	4.80	10.80	3.40	1.30	0.50	2.20	47.70	471.90	60.00	14.00	4.10		
16	1.80	4.60	10.80	2.10	1.30	0.90	2.20	47.70	422.20	56.40	14.00	3.80		
17	3.40	4.30	5.80	1.30	1.30	0.90	2.20	39.20	637.10	56.40	13.50	3.80		
18	15.10	4.30	5.80	1.10	1.30	0.70	3.80	219.60	939.00	52.90	13.50	3.80		
19	149.00	4.10	3.40	1.00	1.30	0.50	5.80	766.40	680.30	44.20	12.40	3.60		
20	169.50	3.40	3.40	0.80	1.30	0.50	5.80	693.40	333.80	39.20	11.90	3.60		
21	209.10	2.20	2.20	0.50	1.30	0.50	9.70	536.60	811.60	39.20	10.80	3.40		
22	184.00	2.20	2.20	2.20	1.30	0.50	11.90	673.90	1480.30	38.00	10.80	3.20		
23	163.30	2.20	1.80	1.30	1.30	0.40	20.50	726.50	1167.20	35.50	10.80	3.20		
24	143.10	2.20	1.70	1.30	1.30	0.70	21.60	563.70	845.20	34.30	10.80	3.20		
25	125.20	2.20	1.50	1.30	1.30	1.30	104.40	414.20	660.80	33.10	10.80	2.90		
26	107.80	1.30	1.30	1.30	3.80	2.50	219.60	151.10	486.70	30.70	10.20	2.70		
27	107.80	1.10	1.30	1.30	5.10	5.30	169.50	101.00	401.90	29.60	9.70	2.50		
28	107.80	0.80	1.30	1.30	6.80	8.80	153.10	71.10	323.40	28.40	9.70	2.50		
29	91.00	0.70	1.30	1.30	6.80	10.80	155.00	60.00	269.40	27.30		2.50		
30	91.00	0.50	1.30	0.80	6.30	11.30	155.00	49.40	240.70	26.10		2.20		
31		0.50		0.90	6.30		163.30		238.00	25.00		2.20		
Total	1679.80	434.50	103.70	49.50	63.30	75.70	1302.80	6080.10	12098.10	2540.50	406.40	119.30	24953.70	**Ton**
Mean	56.00	14.00	3.50	1.60	2.00	2.50	42.00	202.70	390.30	82.00	14.50	3.80		
Max	209.10	94.40	16.30	3.40	6.80	11.30	219.60	766.40	1480.30	289.70	25.00	5.60	1480.30	
Min	0.50	0.50	0.50	0.50	0.90	0.40	2.20	39.20	38.00	25.00	9.70	2.20	0.40	

WATER YEAR : 2014

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

Ban Khao Pu **Amphoe** Si Banphot **Changwat** Phatthalung

Drainge Area	47 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2009-Cont'd
Actual Measurement	2009-Cont'd
Using Rating Curve Water Year	2014
Number of observation	23
R-Square	0.8839
Remarks	Continued Sediment Station

$$QS = 12.2970\ QW^{1.62220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	18.80	39.40	29.10	22.50	0.00	59.80	33.40	17.70	601.40	37.90	17.70		
2	0.20	17.70	37.90	27.70	26.40	37.90	52.60	37.90	12.30	549.10	37.90	17.70		
3	0.20	15.40	30.50	23.70	23.70	36.30	59.80	26.40	15.40	482.20	36.30	16.50		
4	1.40	26.40	39.40	26.40	21.20	31.90	54.40	25.00	21.20	426.50	36.30	16.50		
5	0.80	63.50	34.80	26.40	25.00	14.40	87.40	23.70	11.30	380.80	34.80	16.50		
6	0.50	54.40	41.00	22.50	34.80	25.00	288.90	33.40	14.40	323.10	33.40	16.50		
7	0.30	47.50	36.30	45.80	29.10	36.30	474.10	52.60	4.70	288.90	33.40	15.40		
8	0.30	41.00	37.90	37.90	25.00	33.40	403.40	36.30	11.30	269.10	31.90	15.40		
9	3.00	36.30	36.30	33.40	33.40	27.70	337.20	141.10	17.70	249.80	31.90	15.40		
10	2.60	34.80	17.70	29.10	44.20	25.00	218.90	434.30	23.70	207.00	30.50	15.40		
11	1.70	9.40	25.00	25.00	45.80	26.40	65.30	207.00	14.40	102.70	29.10	14.40		
12	1.10	30.50	45.80	26.40	39.40	23.70	44.20	73.10	37.90	81.10	29.10	14.40		
13	2.10	29.10	41.00	27.70	37.90	23.70	25.00	65.30	20.00	77.10	27.70	14.40		
14	4.70	34.80	39.40	34.80	37.90	37.90	75.10	91.70	9579.10	73.10	27.70	13.30		
15	6.10	34.80	36.30	33.40	31.90	42.60	67.20	466.00	3012.30	71.10	26.40	13.30		
16	4.70	67.20	34.80	27.70	29.10	69.20	50.90	249.80	2175.40	36.30	25.00	13.30		
17	27.70	57.90	33.40	25.00	27.70	98.20	54.40	282.20	1756.70	29.10	25.00	12.30		
18	54.40	39.40	33.40	22.50	23.70	79.10	52.60	330.10	2117.60	36.30	25.00	12.30		
19	41.00	22.50	30.50	22.50	26.40	65.30	42.60	442.10	1000.00	39.40	23.70	12.30		
20	42.60	17.70	29.10	21.20	25.00	231.10	42.60	1218.50	683.20	44.20	22.50	12.30		
21	57.90	17.70	27.70	15.40	23.70	0.00	36.30	873.90	701.90	47.50	22.50	12.30		
22	45.80	17.70	26.40	25.00	23.70	79.10	36.30	683.20	6876.40	47.50	21.20	12.30		
23	33.40	17.70	25.00	23.70	36.30	107.20	34.80	619.20	2060.40	45.80	20.00	11.30		
24	27.70	16.50	25.00	22.50	37.90	41.00	30.50	515.20	2003.80	44.20	18.80	11.30		
25	23.70	16.50	22.50	20.00	39.40	395.80	44.20	126.10	1422.30	44.20	18.80	11.30		
26	22.50	16.50	14.40	29.10	36.30	288.90	21.20	81.10	2412.40	42.60	17.70	11.30		
27	20.00	16.50	17.70	47.50	31.90	172.80	231.10	61.60	754.40	41.00	17.70	10.40		
28	22.50	18.80	16.50	44.20	30.50	93.80	178.40	91.70	692.50	39.40	17.70	11.30		
29	22.50	18.80	33.40	34.80	25.00	27.70	79.10	49.20	601.40	39.40		11.30		
30	22.50	17.70	33.40	26.40	23.70	25.00	61.60	17.70	692.50	37.90		10.40		
31		17.70		23.70	23.70		39.40		701.90	37.90		10.40		
Total	494.10	891.20	941.90	880.50	942.20	2196.40	3349.30	7388.80	39466.20	4835.70	759.90	418.90	62565.10	**Ton**
Mean	16.50	28.70	31.40	28.40	30.40	73.20	108.00	246.30	1273.10	156.00	27.10	13.50		
Max	57.90	67.20	45.80	47.50	45.80	395.80	474.10	1218.50	9579.10	601.40	37.90	17.70	9579.10	
Min	0.20	9.40	14.40	15.40	21.20	0.00	21.20	17.70	4.70	29.10	17.70	10.40	0.00	

WATER YEAR : 2014

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	2014
Number of observation	22
R-Square	0.7372
Remarks	Continued Sediment Station

$$QS = 32.5590\ QW^{0.93830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	78.70	330.20	300.70	330.20	212.10	471.10	3914.90	5675.60	1044.80	2788.30	295.70	105.50		
2	78.70	636.00	235.80	270.80	240.90	384.00	4037.40	5107.90	945.70	2280.70	285.60	99.80		
3	83.80	598.20	235.80	240.90	191.80	464.70	3816.90	3981.70	964.10	1672.60	275.80	83.80		
4	97.00	573.00	275.80	208.90	174.90	451.90	4547.10	3126.20	1643.10	1346.20	265.70	76.30		
5	119.60	503.10	642.30	198.60	171.60	359.70	4965.40	2838.20	1420.90	1143.20	255.90	66.20		
6	133.50	445.50	1105.50	215.60	181.70	310.50	5118.90	2115.60	964.10	1196.10	198.60	66.20		
7	128.00	374.30	1044.80	220.80	275.80	280.90	5283.00	2367.30	927.40	1405.90	195.30	63.60		
8	108.30	330.20	810.40	198.60	280.90	260.90	5479.50	3145.90	859.80	1331.30	185.00	60.90		
9	99.80	295.70	560.30	188.60	220.80	270.80	5479.50	4237.30	779.50	1569.30	171.60	60.90		
10	108.30	250.80	335.20	181.70	235.80	432.60	5053.10	5261.10	717.30	1495.10	164.80	60.90		
11	157.90	310.50	205.40	171.60	245.70	598.20	4015.10	5762.60	654.80	1226.20	164.80	58.30		
12	171.60	300.70	191.80	161.20	315.50	534.90	2868.00	5806.00	629.70	1000.70	157.90	60.90		
13	178.50	300.70	202.10	220.80	212.10	464.70	3047.00	5468.60	585.60	878.30	147.40	60.90		
14	141.90	320.50	215.60	426.10	181.70	872.10	3195.40	4591.30	610.80	798.10	141.90	88.70		
15	139.10	315.50	215.60	623.40	178.50	1897.30	2588.30	3540.20	1517.40	760.90	136.30	108.30		
16	178.50	305.50	240.90	829.00	191.80	2758.40	2638.50	3215.10	2002.30	704.90	130.70	108.30		
17	305.50	235.80	509.50	754.70	566.60	2718.50	2397.40	2828.20	1480.40	623.40	130.70	105.50		
18	1420.90	220.80	704.90	477.50	490.30	2397.40	1827.10	2080.80	1113.00	573.00	130.70	99.80		
19	2588.30	245.70	432.60	369.40	439.00	1870.90	1760.90	1879.50	1233.90	560.30	128.00	99.80		
20	1569.30	255.90	359.70	280.90	354.80	1905.90	2628.40	3235.00	1241.40	534.90	122.40	88.70		
21	636.00	320.50	310.50	225.60	330.20	1554.40	2387.30	4248.40	1044.80	509.50	122.40	91.30		
22	636.00	300.70	270.80	198.60	320.50	1143.20	1731.50	4170.70	1383.70	483.90	113.90	91.30		
23	760.90	275.80	240.90	188.60	305.50	976.30	1458.00	3579.50	2272.00	458.30	113.90	86.40		
24	320.50	325.20	202.10	181.70	1082.70	1226.20	1628.50	2828.20	2063.30	426.10	108.30	83.80		
25	240.90	330.20	235.80	250.80	1510.10	1800.60	3882.30	2150.40	1702.10	403.70	108.30	83.80		
26	225.60	305.50	215.60	344.90	1576.70	1143.20	4624.40	1800.60	2176.60	388.90	105.50	78.70		
27	547.60	290.70	215.60	471.10	1278.80	736.00	4547.10	1687.50	3343.40	369.40	105.50	76.30		
28	305.50	280.90	205.40	585.60	1012.90	785.70	4503.00	1554.40	3914.90	349.80	105.50	71.10		
29	490.30	310.50	195.30	315.50	872.10	1316.20	4877.50	1405.90	3589.30	335.20		73.70		
30	325.20	477.50	255.90	235.80	785.70	2588.30	5501.30	1241.40	2997.30	320.50		73.70		
31		534.90		208.90	585.60		5708.20		2788.30	310.50		73.70		
Total	12375.70	10901.00	11172.60	9776.40	15023.10	32975.50	115510.90	100931.10	48611.70	28245.20	4568.10	2507.10	392598.40	**Ton**
Mean	412.50	351.60	372.40	315.40	484.60	1099.20	3726.20	3364.40	1568.10	911.10	163.10	80.90		
Max	2588.30	636.00	1105.50	829.00	1576.70	2758.40	5708.20	5806.00	3914.90	2788.30	295.70	108.30	5806.00	
Min	78.70	220.80	191.80	161.20	171.60	260.90	1458.00	1241.40	585.60	310.50	105.50	58.30	58.30	

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Langu at Ban Wang Pa Khian , Satun (X.150)

Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Wang Pa Khian.

Ban Wang Pa Khian **Amphoe** Langu **Changwat** Satun

Drainge Area	480 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1998-Cont'd
Actual Measurement	1998-Cont'd
Using Rating Curve Water Year	2014
Number of observation	22
R-Square	0.8693
Remarks	Continued Sediment Station

$$QS = 15.4660\ QW^{1.06560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.60	53.40	242.80	42.80	69.60	185.60	363.90	1686.70	222.30	519.80	97.00	57.00		
2	51.60	97.00	174.10	30.60	57.00	188.50	570.30	754.90	311.70	438.00	97.00	57.00		
3	51.60	222.30	129.90	15.50	51.60	162.70	999.10	656.50	1004.90	392.20	89.60	55.20		
4	51.60	297.80	132.40	4.30	51.60	123.00	940.60	455.80	548.50	353.50	89.60	55.20		
5	55.20	188.50	737.70	13.80	55.20	109.00	2640.10	363.90	273.70	335.90	89.60	55.20		
6	66.00	179.90	284.00	0.00	76.80	100.70	4714.40	356.90	434.50	301.20	87.80	55.20		
7	53.40	106.80	148.80	0.00	71.40	100.70	4950.30	346.50	277.10	284.00	85.90	53.40		
8	62.40	123.00	111.40	0.00	102.50	162.70	3360.30	377.90	260.00	287.50	84.10	51.60		
9	60.60	118.30	93.30	12.20	97.00	185.60	1211.30	624.40	263.30	263.30	82.30	49.90		
10	104.40	84.10	97.00	0.00	118.30	388.50	563.10	455.80	215.50	229.10	80.50	49.90		
11	102.50	118.30	87.80	0.00	113.70	448.70	434.50	581.00	182.80	215.50	80.50	48.10		
12	64.10	87.80	297.80	62.40	98.80	392.20	420.40	374.50	159.80	200.10	78.60	48.10		
13	53.40	249.60	1288.40	325.60	129.90	859.20	427.40	270.20	162.70	185.60	76.80	48.10		
14	69.60	148.80	339.50	681.40	353.50	2270.90	470.00	318.60	420.40	179.90	75.00	46.30		
15	123.00	118.30	203.00	116.10	179.90	2279.80	430.90	318.60	370.90	171.30	73.20	46.30		
16	129.90	174.10	179.90	82.30	205.90	1607.60	470.00	284.00	297.80	162.70	71.40	42.80		
17	95.10	239.50	242.80	420.40	212.20	1040.10	304.70	239.50	516.30	157.00	75.00	42.80		
18	95.10	132.40	148.80	491.40	144.10	541.30	260.00	315.00	1193.40	148.80	75.00	41.10		
19	116.10	134.60	118.30	484.10	132.40	548.50	242.80	537.80	1235.00	144.10	75.00	39.30		
20	151.30	89.60	100.70	239.50	102.50	952.30	322.00	416.70	581.00	139.40	75.00	37.60		
21	125.40	76.80	95.10	113.70	100.70	484.10	249.60	353.50	617.10	134.60	75.00	35.80		
22	174.10	69.60	93.30	104.40	100.70	406.30	215.50	423.80	2468.60	132.40	71.40	35.80		
23	87.80	66.00	93.30	146.50	242.80	273.70	294.40	441.60	3112.90	132.40	69.60	35.80		
24	58.80	62.40	93.30	212.20	502.00	212.20	301.20	322.00	1905.30	125.40	67.80	35.80		
25	82.30	377.90	89.60	236.00	818.50	304.70	1004.90	277.10	1417.50	118.30	64.10	35.80		
26	87.80	162.70	75.00	125.40	853.30	236.00	1424.10	280.60	1193.40	113.70	62.40	34.10		
27	73.20	111.40	60.60	100.70	1489.50	179.90	1229.00	353.50	1122.50	113.70	57.00	32.40		
28	91.40	93.30	55.20	91.40	1211.30	232.60	1199.20	287.50	958.10	109.00	57.00	30.60		
29	232.60	89.60	53.40	76.80	566.60	534.10	714.80	480.60	689.70	104.40		28.90		
30	89.60	89.60	48.10	71.40	342.90	487.70	964.00	280.60	864.90	95.10		28.90		
31		229.10		71.40	225.80		1660.30		673.10	95.10		28.90		
Total	2711.50	4392.50	5915.30	4372.30	8878.00	15998.90	33353.10	13236.00	23954.70	6383.00	2163.20	1342.90	122701.40	**Ton**
Mean	90.40	141.70	197.20	141.00	286.40	533.30	1075.90	441.20	772.70	205.90	77.30	43.30		
Max	232.60	377.90	1288.40	681.40	1489.50	2279.80	4950.30	1686.70	3112.90	519.80	97.00	57.00	4950.30	
Min	51.60	53.40	48.10	0.00	51.60	100.70	215.50	239.50	159.80	95.10	57.00	28.90	0.00	

WATER YEAR : 2014

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	2014
Number of observation	23
R-Square	0.7783
Remarks	Continued Sediment Station

$$QS = 3.5870\ QW^{1.36580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	144.90	229.40	1042.10	7755.30	1114.30	733.90	685.40	97.20	32.30	83.30	61.40		
2	1.50	220.50	425.30	971.10	3895.10	783.20	808.20	1042.10	92.50	32.30	83.30	61.40		
3	1.20	275.30	256.70	614.40	1854.70	553.10	1445.00	1114.30	102.00	32.30	74.30	61.40		
4	1.20	256.70	497.30	733.90	1578.50	534.30	6127.80	1997.10	114.20	32.30	74.30	61.40		
5	1.20	238.40	685.40	637.90	3425.30	497.30	15358.40	901.50	114.20	32.30	74.30	61.40		
6	2.10	152.90	3085.30	553.10	3895.10	553.10	15083.00	614.40	102.00	32.30	74.30	61.40		
7	1.20	106.80	758.40	709.50	10409.60	783.20	14991.60	591.20	102.00	46.20	74.30	61.40		
8	1.00	106.80	534.30	2836.70	6824.90	758.40	19652.00	553.10	102.00	83.30	74.30	61.40		
9	1.00	106.80	366.60	3127.20	3943.00	3471.50	9476.20	572.10	102.00	83.30	74.30	61.40		
10	1.00	185.90	247.50	2960.30	2795.80	9323.00	5703.80	229.40	102.00	102.00	69.90	61.40		
11	1.00	220.50	229.40	1314.80	1854.70	3564.50	3705.20	229.40	102.00	275.30	69.90	61.40		
12	1.00	185.90	9553.10	1314.80	1578.50	3001.80	3043.40	160.90	102.00	229.40	69.90	61.40		
13	1.20	106.80	6435.50	1997.10	1114.30	3471.50	1445.00	160.90	87.90	229.40	69.90	61.40		
14	1.20	106.80	4699.20	2836.70	936.20	8343.40	2440.70	144.90	87.90	211.70	69.90	61.40		
15	1.20	185.90	2440.70	5023.70	783.20	15913.00	1114.30	97.20	87.90	211.70	69.90	61.40		
16	3.50	185.90	4860.80	4331.40	783.20	19338.20	1006.40	87.90	83.30	144.90	69.90	61.40		
17	6.60	326.60	8121.50	3752.50	591.20	16006.00	971.10	65.60	83.30	144.90	69.90	61.40		
18	3.10	1997.10	3085.30	7321.90	591.20	7610.10	833.40	65.60	74.30	144.90	69.90	61.40		
19	13.40	1997.10	1445.00	3296.60	758.40	4184.60	833.40	69.90	74.30	144.90	69.90	61.40		
20	3.10	353.20	733.90	2755.00	591.20	2674.10	971.10	55.20	74.30	129.30	69.90	61.40		
21	0.50	185.90	614.40	1187.90	591.20	1578.50	783.20	55.20	74.30	129.30	69.90	61.40		
22	2.40	106.80	4184.60	971.10	553.10	1187.90	591.20	55.20	58.30	129.30	65.60	61.40		
23	9.90	185.90	4087.50	783.20	553.10	1854.70	553.10	46.20	58.30	114.20	65.60	61.40		
24	15.50	229.40	3339.40	1578.50	783.20	1114.30	553.10	55.20	58.30	114.20	65.60	61.40		
25	8.40	106.80	3254.10	7974.50	1114.30	1006.40	515.70	65.60	46.20	106.80	65.60	61.40		
26	11.90	339.80	1445.00	16943.40	2714.50	808.20	515.70	177.40	46.20	102.00	65.60	61.40		
27	9.90	275.30	808.20	8417.70	5353.90	709.50	591.20	194.40	40.50	87.90	65.60	61.40		
28	9.40	833.40	783.20	4592.40	5884.50	591.20	709.50	97.20	40.50	61.40	61.40	61.40		
29	46.20	425.30	758.40	4860.80	3339.40	591.20	833.40	102.00	35.00	55.20		61.40		
30	58.30	152.90	614.40	4914.90	1187.90	591.20	709.50	97.20	35.00	58.30		61.40		
31		106.80		12145.40	1187.90		709.50		32.30	58.30		61.40		
Total	220.10	10409.10	68579.80	112500.50	79222.40	112511.70	112809.00	10383.70	2412.20	3391.90	1980.50	1903.40	516324.40	**Ton**
Mean	7.30	335.80	2286.00	3629.00	2555.60	3750.40	3639.00	346.10	77.80	109.40	70.70	61.40		
Max	58.30	1997.10	9553.10	16943.40	10409.60	19338.20	19652.00	1997.10	114.20	275.30	83.30	61.40	19652.00	
Min	0.50	106.80	229.40	553.10	553.10	497.30	515.70	46.20	32.30	32.30	61.40	61.40	0.50	

WATER YEAR : 2014

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.D-49
Period of Available Records	1996-Cont'd
Actual Measurement	1996-Cont'd
Using Rating Curve Water Year	2003-2014
Number of observation	165
R-Square	0.7328
Remarks	Continued Sediment Station

$$QS = 11.2780\ QW^{1.41020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	0.90	2.00	6.80	2.70	9.00	9.70	12.20	7.20	11.80	13.70	8.70		
2	0.90	0.80	3.80	2.30	2.30	6.10	15.80	13.70	5.50	10.50	13.20	8.70		
3	0.80	1.00	1.50	2.90	3.50	5.50	32.10	31.00	11.30	9.70	17.80	5.70		
4	4.20	1.10	27.90	2.00	4.20	5.70	145.10	26.90	5.70	9.70	88.50	4.90		
5	2.00	1.10	10.20	2.30	3.10	5.20	731.40	15.80	9.70	11.80	102.40	3.10		
6	1.20	1.10	7.50	2.50	9.00	6.40	216.20	9.00	10.50	10.20	70.80	3.10		
7	1.20	1.20	3.30	2.10	4.90	5.20	236.00	12.70	12.70	12.70	52.60	2.90		
8	8.20	1.20	2.50	2.30	2.30	7.20	156.30	16.30	11.30	14.20	73.30	2.90		
9	0.90	1.00	3.50	2.30	1.50	13.20	50.60	108.20	15.30	12.70	88.50	2.70		
10	0.80	0.90	2.30	2.00	9.00	236.00	30.00	201.70	27.90	10.50	94.10	2.90		
11	0.80	1.00	2.30	1.80	4.20	50.60	23.00	20.70	44.30	12.70	30.00	2.90		
12	0.80	2.00	5.50	1.80	2.70	27.90	17.00	14.80	17.00	16.30	7.90	2.90		
13	0.60	1.20	3.80	1.80	3.80	32.10	13.70	17.80	12.20	15.80	7.20	2.70		
14	3.10	1.40	2.90	2.70	2.30	33.20	17.00	14.80	11.80	15.80	6.80	1.80		
15	1.10	5.20	2.50	52.60	6.10	75.80	13.70	18.50	11.30	32.10	8.20	1.70		
16	0.90	14.20	5.20	4.50	78.30	99.70	12.20	17.00	11.00	32.10	7.50	2.30		
17	2.90	2.00	2.90	4.50	17.00	34.30	26.90	11.30	10.20	40.60	5.50	2.00		
18	0.90	15.30	3.30	2.70	60.20	21.50	20.00	8.70	13.70	62.00	6.10	1.80		
19	0.80	3.30	3.10	2.10	14.20	14.20	17.80	11.30	11.80	41.80	13.70	1.50		
20	0.80	2.00	2.50	1.80	13.20	12.70	12.70	11.00	13.70	39.20	19.20	2.00		
21	0.90	2.00	2.50	2.50	9.00	11.30	9.70	8.70	12.20	38.10	41.80	1.80		
22	0.90	2.70	2.10	2.10	4.50	11.00	9.40	9.40	14.20	44.30	43.20	1.80		
23	0.90	1.50	4.50	2.00	4.00	12.70	9.70	15.30	13.70	48.90	45.80	2.10		
24	0.90	2.00	3.10	2.10	3.80	14.80	10.50	9.40	11.80	50.60	50.60	2.10		
25	0.90	6.10	2.50	3.30	47.00	10.50	32.10	7.90	11.80	56.40	19.20	2.30		
26	1.00	11.30	2.50	5.20	25.80	9.00	22.30	5.70	23.00	80.80	10.50	2.00		
27	1.10	3.50	2.30	12.20	105.40	7.50	12.20	7.50	19.20	34.30	10.20	2.00		
28	1.10	1.20	2.10	7.20	66.00	5.50	21.50	6.10	14.20	21.50	8.70	2.00		
29	1.10	2.10	4.20	5.70	25.80	8.70	20.00	5.70	17.80	22.30		2.00		
30	1.10	1.80	9.70	3.10	10.20	8.70	17.00	7.20	17.00	15.30		2.00		
31		1.80		2.70	8.70		12.70		13.20	12.70		1.80		
Total	44.50	93.90	134.00	151.90	554.70	801.20	1974.30	676.30	442.20	847.40	957.00	89.10	6766.50	**Ton**
Mean	1.50	3.00	4.50	4.90	17.90	26.70	63.70	22.50	14.30	27.30	34.20	2.90		
Max	8.20	15.30	27.90	52.60	105.40	236.00	731.40	201.70	44.30	80.80	102.40	8.70	731.40	
Min	0.60	0.80	1.50	1.80	1.50	5.20	9.40	5.70	5.50	9.70	5.50	1.50	0.60	

WATER YEAR : 2014

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.
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	2005-2014
Number of observation	127
R-Square	0.7036
Remarks	Continued Sediment Station

$$QS = 3.8175\ QW^{1.24330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.50	108.40	131.70	113.00	319.60	412.30	1041.00	499.40	474.80	141.20	8.50		
2	0.00	18.80	99.30	113.00	94.80	256.60	365.40	811.80	470.00	426.60	136.40	11.30		
3	0.00	73.10	97.10	92.60	75.30	235.10	470.00	838.90	436.10	384.00	141.20	16.80		
4	0.00	61.90	173.10	79.50	58.20	208.90	818.50	594.60	489.50	365.40	146.00	27.50		
5	0.00	52.20	214.10	101.60	61.90	193.40	893.80	524.10	445.70	356.10	150.90	5.80		
6	0.00	38.40	158.30	83.90	94.80	198.50	1344.60	465.10	489.50	351.50	150.90	0.00		
7	0.00	30.70	138.80	90.40	101.60	206.30	1799.10	494.40	479.70	342.30	150.90	0.00		
8	0.00	27.50	103.80	115.30	119.90	306.10	1933.00	509.20	484.60	407.50	146.00	0.00		
9	0.00	29.60	115.30	113.00	129.30	283.90	1167.60	718.00	465.10	328.60	141.20	0.00		
10	0.00	42.90	117.60	117.60	170.60	310.60	798.20	599.70	417.00	275.10	150.90	0.00		
11	0.00	60.70	124.60	141.20	185.70	337.80	584.50	825.30	388.70	259.30	163.20	0.00		
12	0.00	65.60	211.50	158.30	168.10	292.70	574.30	544.10	333.20	227.20	134.00	0.50		
13	0.00	94.80	665.50	168.10	175.60	306.10	579.40	431.30	301.60	198.50	136.40	7.90		
14	0.00	108.40	351.50	168.10	180.70	450.60	519.10	440.90	499.40	208.90	143.60	9.60		
15	0.00	117.60	270.70	175.60	175.60	615.10	431.30	374.60	474.80	227.20	153.30	16.20		
16	0.00	115.30	216.70	243.10	180.70	559.20	360.70	474.80	333.20	224.50	158.30	23.40		
17	0.00	110.70	188.30	183.20	203.70	474.80	324.10	374.60	398.10	229.80	163.20	39.50		
18	0.00	97.10	163.20	141.20	126.90	360.70	279.50	417.00	724.70	232.50	163.20	29.60		
19	0.00	81.70	136.40	115.30	148.50	337.80	270.70	610.00	907.70	243.10	155.80	46.40		
20	0.00	63.10	106.10	97.10	221.90	640.90	351.50	1389.60	594.60	253.90	141.20	52.20		
21	0.00	52.20	86.00	79.50	216.70	599.70	262.00	991.50	691.70	262.00	113.00	49.90		
22	0.00	44.00	75.30	75.30	178.20	559.20	266.30	1255.50	1389.60	266.30	129.30	39.50		
23	0.00	39.50	81.70	73.10	190.80	374.60	237.80	1106.80	1921.80	266.30	136.40	26.50		
24	0.00	41.80	88.20	88.20	237.80	324.10	259.30	825.30	1634.40	266.30	143.60	15.60		
25	0.00	55.80	86.00	103.80	319.60	460.20	574.30	630.50	1453.10	243.10	153.30	11.30		
26	0.00	61.90	86.00	126.90	384.00	365.40	569.20	559.20	1176.30	219.30	158.30	13.70		
27	0.00	94.80	90.40	119.90	559.20	283.90	494.40	620.20	1063.80	195.90	148.50	27.50		
28	0.00	131.70	92.60	115.30	1106.80	297.20	1063.80	514.20	798.20	168.10	136.40	36.20		
29	0.00	110.70	108.40	119.90	751.30	333.20	921.50	559.20	665.50	150.90		45.20		
30	0.00	115.30	163.20	126.90	460.20	384.00	672.10	445.70	724.70	148.50		52.20		
31		134.00		122.20	319.60		1026.80		559.20	153.30		55.80		
Total	0.00	2172.30	4718.10	3780.80	7511.00	10876.20	20625.10	19987.10	21710.90	8356.80	4086.60	668.60	104493.50	**Ton**
Mean	0.00	70.10	157.30	122.00	242.30	362.50	665.30	666.20	700.40	269.60	145.90	21.60		
Max	0.00	134.00	665.50	243.10	1106.80	640.90	1933.00	1389.60	1921.80	474.80	163.20	55.80	1933.00	
Min	0.00	0.50	75.30	73.10	58.20	193.40	237.80	374.60	301.60	148.50	113.00	0.00	0.00	

WATER YEAR : 2014

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	2005-2014
Number of observation	223
R-Square	0.7018
Remarks	Continued Sediment Station

$$QS = 4.7444\ QW^{1.37300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	6.20	0.70	86.00	1102.80	78.90	65.30	48.10	8.40	68.60	48.10	27.50		
2	0.40	3.10	1.50	48.10	943.00	100.60	112.00	48.10	9.10	68.60	48.10	27.50		
3	0.10	10.70	0.70	27.50	910.20	119.70	435.70	48.10	12.30	65.30	48.10	25.50		
4	0.00	5.50	12.30	40.90	1047.30	65.30	1907.60	48.10	17.60	65.30	45.60	25.50		
5	3.10	9.90	55.50	36.30	1010.80	40.90	2497.60	48.10	27.50	65.30	45.60	25.50		
6	0.10	3.10	68.60	19.50	1254.30	58.70	11412.00	43.20	43.20	62.00	45.60	25.50		
7	0.10	0.40	36.30	213.50	1722.50	48.10	13391.50	34.00	58.70	68.60	45.60	25.50		
8	0.10	1.50	17.60	1469.40	1084.20	108.20	3056.40	29.70	89.60	75.40	45.60	23.40		
9	3.10	1.10	8.40	735.90	861.70	2224.90	1594.60	43.20	115.90	68.60	43.20	23.40		
10	1.50	4.30	6.20	359.80	782.40	1469.40	1084.20	23.40	108.20	65.30	43.20	23.40		
11	0.10	7.60	27.50	186.50	655.10	615.60	655.10	23.40	104.40	62.00	40.90	21.40		
12	0.10	3.70	2166.20	247.20	576.90	557.80	389.70	21.40	100.60	58.70	40.90	19.50		
13	0.10	11.50	586.50	459.30	615.60	976.10	219.00	21.40	100.60	58.70	38.60	17.60		
14	0.10	3.10	605.90	576.90	635.30	3821.90	160.60	11.50	100.60	58.70	36.30	17.60		
15	0.10	0.70	160.60	2497.60	766.80	8270.60	131.60	9.10	100.60	58.70	36.30	15.80		
16	0.10	2.50	1010.80	877.80	798.10	6790.60	108.20	6.90	96.90	55.50	34.00	14.00		
17	0.10	3.70	1619.90	690.10	766.80	2284.00	78.90	6.20	93.20	55.50	31.80	12.30		
18	0.10	17.60	412.60	735.90	605.90	1420.10	68.60	4.90	89.60	55.50	31.80	12.30		
19	0.10	8.40	204.40	435.70	443.50	1010.80	53.00	4.30	86.00	55.50	29.70	12.30		
20	0.10	2.50	115.90	345.10	276.20	557.80	45.60	3.10	82.40	55.50	29.70	12.30		
21	0.10	0.70	45.60	294.10	152.10	420.30	40.90	2.50	86.00	53.00	27.50	12.30		
22	1.50	0.40	93.20	182.10	55.50	367.30	43.20	2.00	82.40	53.00	27.50	12.30		
23	0.10	6.90	645.20	68.60	53.00	318.30	36.30	2.00	78.90	50.50	27.50	12.30		
24	0.10	4.30	720.50	548.30	50.50	224.60	31.80	8.40	75.40	50.50	27.50	12.30		
25	0.10	1.10	397.30	13688.50	36.30	182.10	38.60	4.30	68.60	45.60	27.50	12.30		
26	0.10	2.50	104.40	2531.70	68.60	119.70	36.30	23.40	68.60	45.60	27.50	11.50		
27	0.10	4.90	45.60	1177.90	959.50	65.30	31.80	31.80	68.60	45.60	27.50	11.50		
28	0.00	8.40	31.80	705.30	1215.90	50.50	34.00	9.10	68.60	43.20	27.50	11.50		
29	0.10	3.10	82.40	520.10	1065.70	48.10	45.60	8.40	68.60	40.90		11.50		
30	0.00	2.00	89.60	2433.50	782.40	45.60	62.00	8.40	68.60	40.90		11.50		
31		3.70		4953.80	529.40		50.50		68.60	40.90		31.80		
Total	14.20	145.10	9373.70	37192.90	21828.30	32461.80	37918.20	626.50	2248.30	1757.00	1028.70	558.60	145153.30	**Ton**
Mean	0.50	4.70	312.50	1199.80	704.10	1082.10	1223.20	20.90	72.50	56.70	36.70	18.00		
Max	3.10	17.60	2166.20	13688.50	1722.50	8270.60	13391.50	48.10	115.90	75.40	48.10	31.80	13688.50	
Min	0.00	0.40	0.70	19.50	36.30	40.90	31.80	2.00	8.40	40.90	27.50	11.50	0.00	

WATER YEAR : 2014

SOUTHERN PENINSULA WEST COAST

Khlong Duson at Ban Panjor , Satun (X.279)

Lat 06 - 46 - 39 N Long 100 - 04 - 16 E

Location : on right bank at Ban Panjor.

Ban Panjor **Amphoe** Khuan Don **Changwat** Satun

Drainge Area	262 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	2011-Cont'd
Actual Measurement	2011-Cont'd
Using Rating Curve Water Year	2014
Number of observation	22
R-Square	0.8627
Remarks	Continued Sediment Station

$$QS = 12.0090\ QW^{0.98010}$$

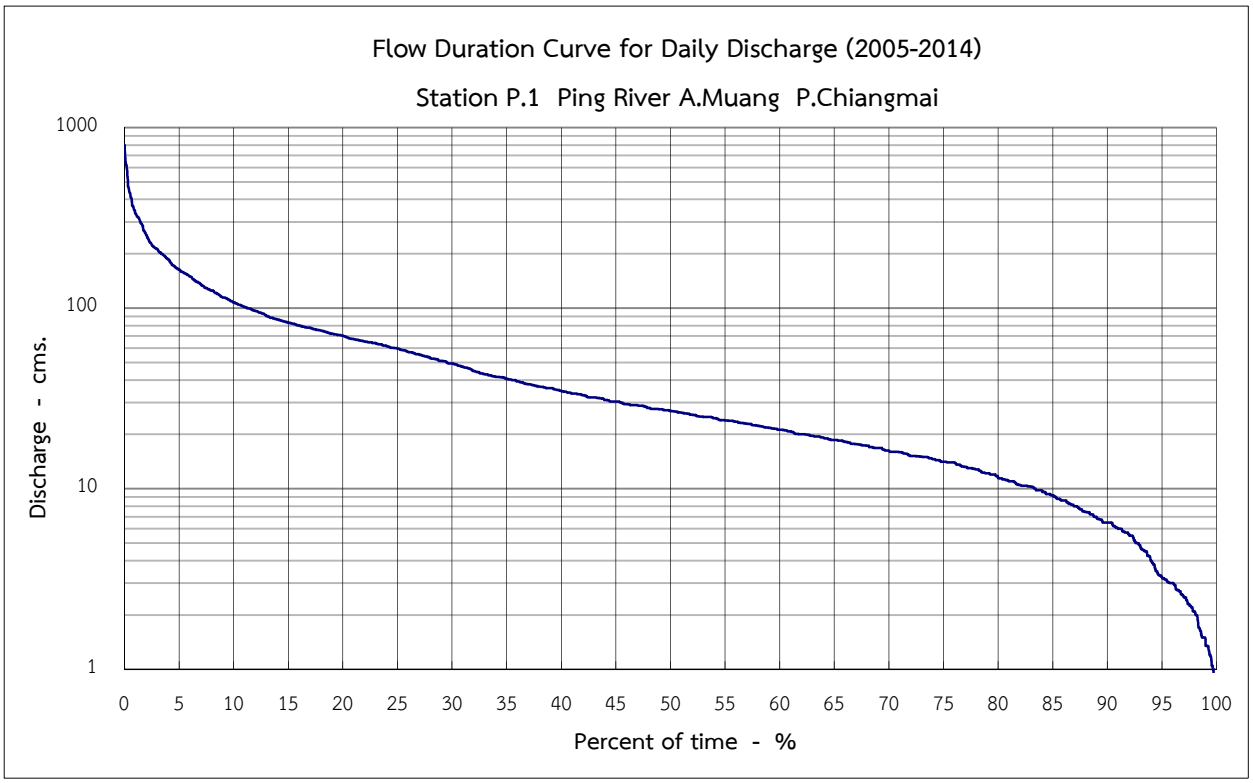
Suspended Sediment , in Tons per Day. Water Year 1 April 2014 to 31 March 2015

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.00	32.00	34.70	21.60	13.80	45.80	116.20	193.00	53.80	141.40	39.80	22.50		
2	26.90	26.90	33.90	29.50	12.80	40.80	86.50	137.20	55.30	125.90	41.60	22.50		
3	24.30	32.90	65.20	23.30	10.80	41.60	85.20	121.70	62.40	117.50	43.30	27.70		
4	38.10	38.90	72.40	21.60	10.20	36.40	275.00	103.50	53.80	111.90	42.40	26.00		
5	26.90	36.40	177.90	20.00	10.20	32.00	378.40	100.60	48.20	111.90	41.60	24.30		
6	26.00	33.90	95.00	18.10	14.60	29.50	927.90	164.50	73.80	102.00	40.80	22.50		
7	13.80	31.20	48.20	26.90	15.50	28.60	683.10	146.90	103.50	96.50	39.80	24.30		
8	23.30	26.90	38.10	38.10	19.00	32.00	447.20	138.60	66.70	97.80	35.50	24.30		
9	16.30	33.90	32.90	40.80	13.80	32.00	302.00	177.90	62.40	102.00	35.50	24.30		
10	36.40	29.50	29.50	53.80	13.80	65.20	208.00	149.80	49.60	86.50	36.40	26.90		
11	26.90	32.00	27.70	40.80	16.30	97.80	186.30	221.30	43.30	82.30	34.70	22.50		
12	20.80	25.10	55.30	38.90	14.60	128.70	182.90	141.40	40.80	78.00	34.70	19.00		
13	20.00	23.30	99.20	38.90	12.00	172.90	214.60	119.00	38.10	73.80	34.70	18.10		
14	18.10	23.30	55.30	41.60	15.50	182.90	191.30	117.50	65.20	71.00	34.70	17.30		
15	30.30	40.80	45.00	45.80	32.90	216.30	134.40	104.90	71.00	68.10	30.30	16.30		
16	40.80	32.00	37.20	42.40	26.90	307.80	167.90	93.60	83.70	65.20	29.50	16.30		
17	65.20	26.90	32.90	32.90	22.50	292.40	111.90	82.30	182.90	66.70	33.90	15.50		
18	58.20	25.10	30.30	27.70	17.30	140.00	100.60	85.20	661.40	63.80	34.70	14.60		
19	36.40	26.00	28.60	25.10	20.80	103.50	106.30	79.40	336.70	61.00	34.70	18.10		
20	34.70	24.30	26.00	23.30	21.60	87.90	103.50	76.60	179.60	55.30	32.00	20.00		
21	32.00	28.60	24.30	22.50	18.10	68.10	83.70	71.00	203.00	53.80	31.20	21.60		
22	26.00	30.30	25.10	20.80	18.10	68.10	78.00	92.20	590.80	55.30	26.00	20.80		
23	26.90	24.30	26.90	20.00	22.50	52.40	132.90	148.30	612.60	53.80	23.30	19.00		
24	24.30	23.30	22.50	18.10	65.20	45.80	227.90	95.00	492.80	51.00	23.30	18.10		
25	22.50	22.50	16.30	14.60	78.00	44.10	201.30	78.00	417.60	44.10	23.30	18.10		
26	28.60	20.80	14.60	14.60	146.90	40.80	142.80	75.20	298.10	45.00	23.30	17.30		
27	26.00	20.00	14.60	20.80	402.90	36.40	162.90	162.90	241.20	46.70	23.30	16.30		
28	27.70	20.00	12.80	15.50	208.00	34.70	254.50	95.00	204.60	46.70	23.30	16.30		
29	32.00	20.80	12.80	15.50	110.40	46.70	188.00	85.20	203.00	46.70		16.30		
30	34.70	33.90	20.00	14.60	99.20	95.00	224.60	69.50	325.10	48.20		15.50		
31		44.10		13.80	58.20		331.00		172.90	44.10		14.60		
Total	915.10	889.90	1255.20	841.90	1562.40	2646.20	7036.80	3527.20	6093.90	2314.00	927.60	616.90	28627.10	**Ton**
Mean	30.50	28.70	41.80	27.20	50.40	88.20	227.00	117.60	196.60	74.60	33.10	19.90		
Max	65.20	44.10	177.90	53.80	402.90	307.80	927.90	221.30	661.40	141.40	43.30	27.70	927.90	
Min	13.80	20.00	12.80	13.80	10.20	28.60	78.00	69.50	38.10	44.10	23.30	14.60	10.20	

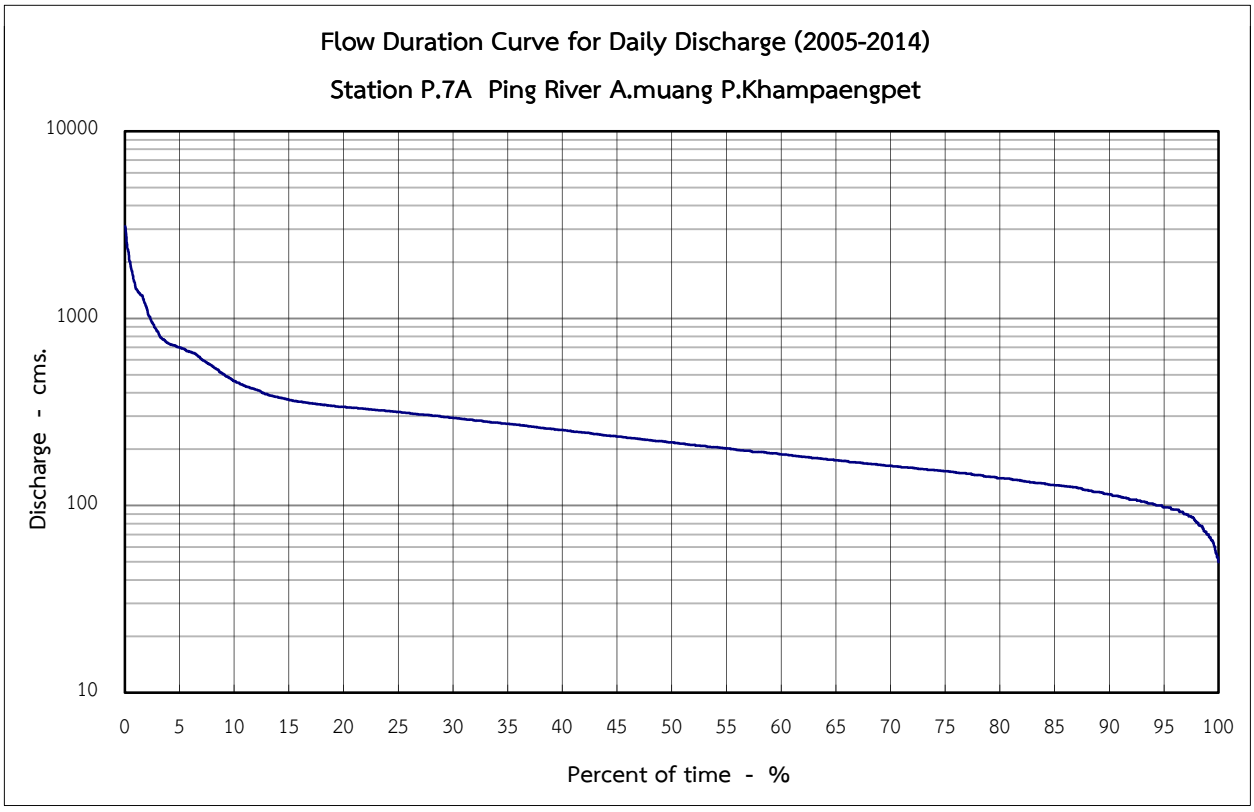
Appendix

Flow Duration Curve for Daily Discharge

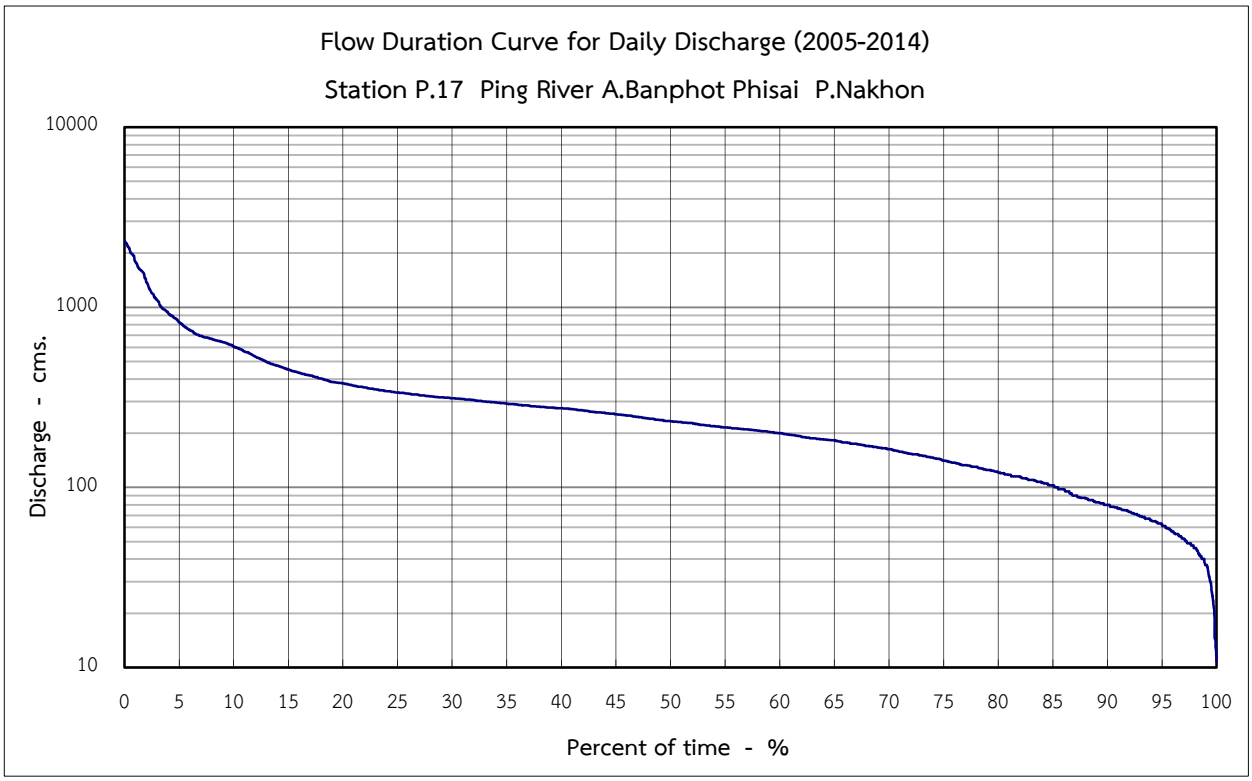
(2005-2014)



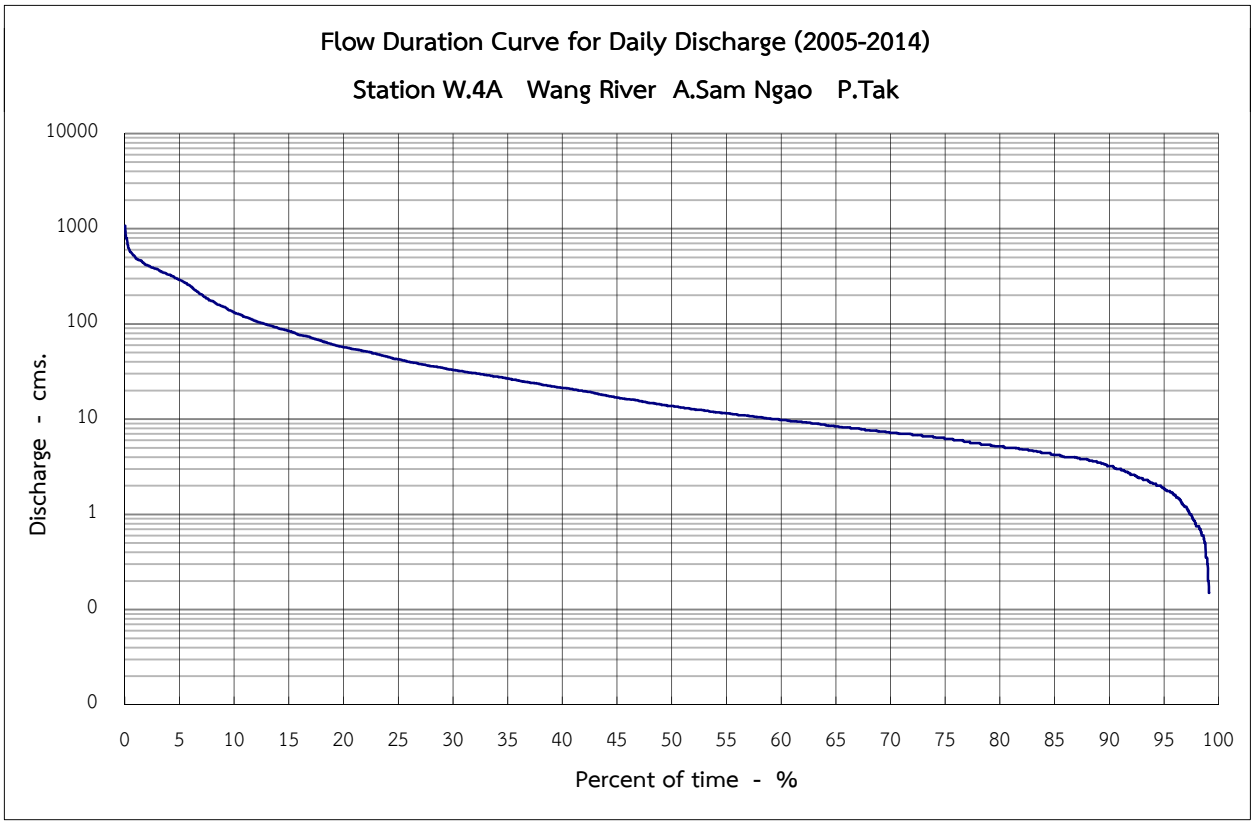
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	334.6	107.6	70.5	49.4	27.0	21.2	11.5	9.2	6.5	3.3	0.7



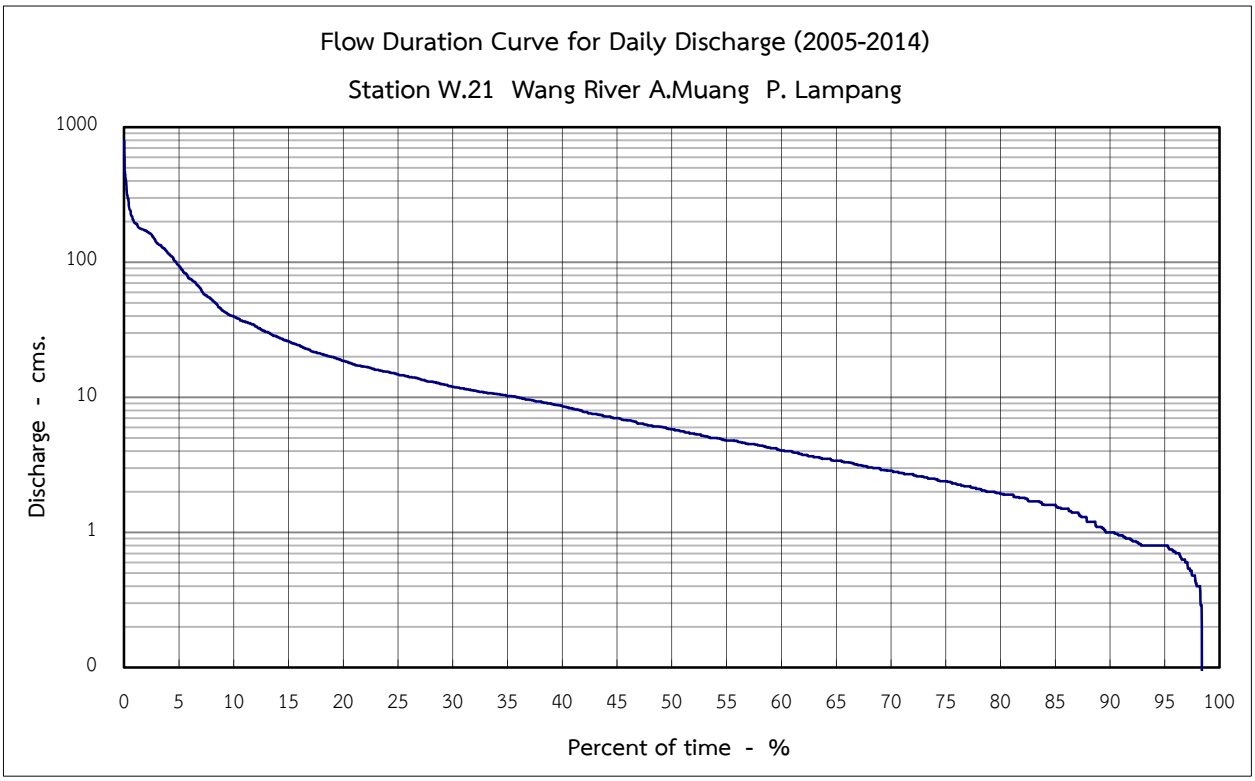
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,439.3	462.0	337.0	294.0	217.0	187.6	139.8	128.4	115.0	97.7	49.8



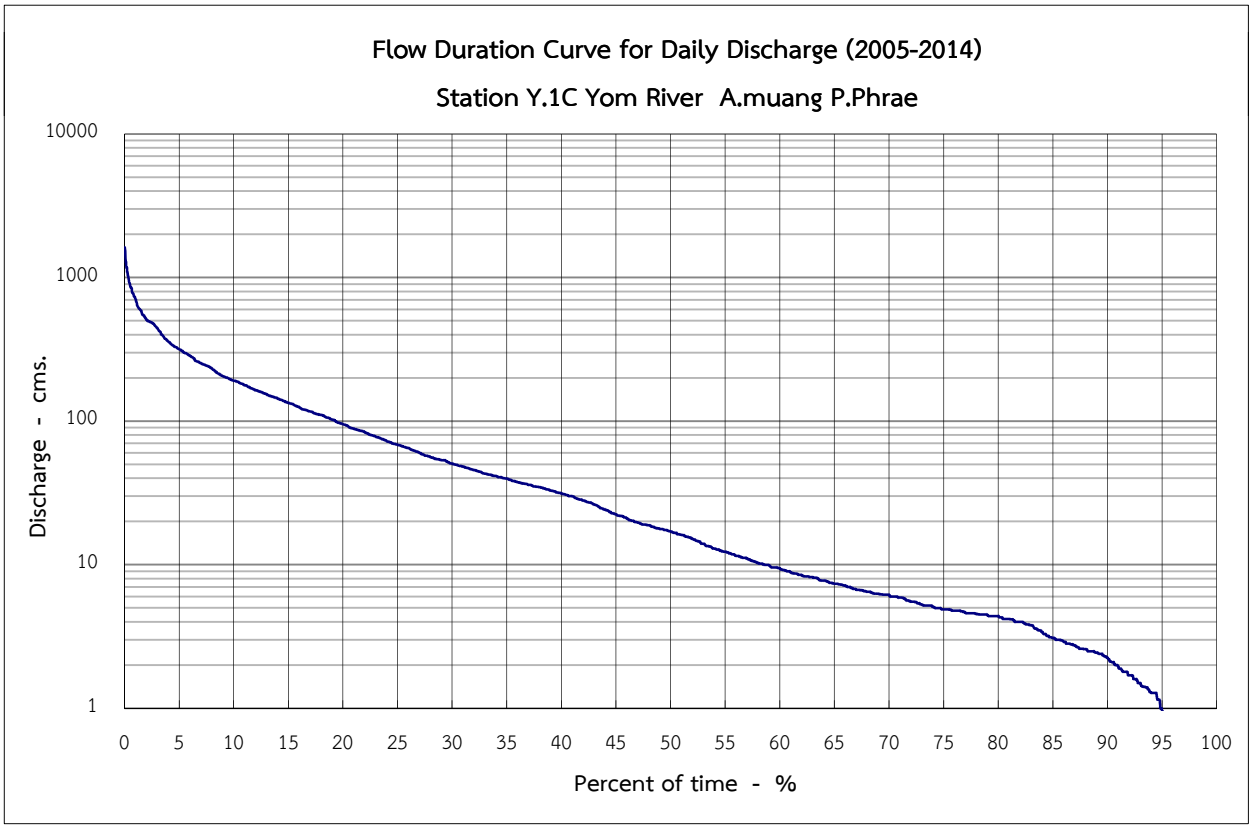
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,790.3	605.0	378.0	313.0	233.0	200.0	121.0	102.5	79.8	62.5	10.8



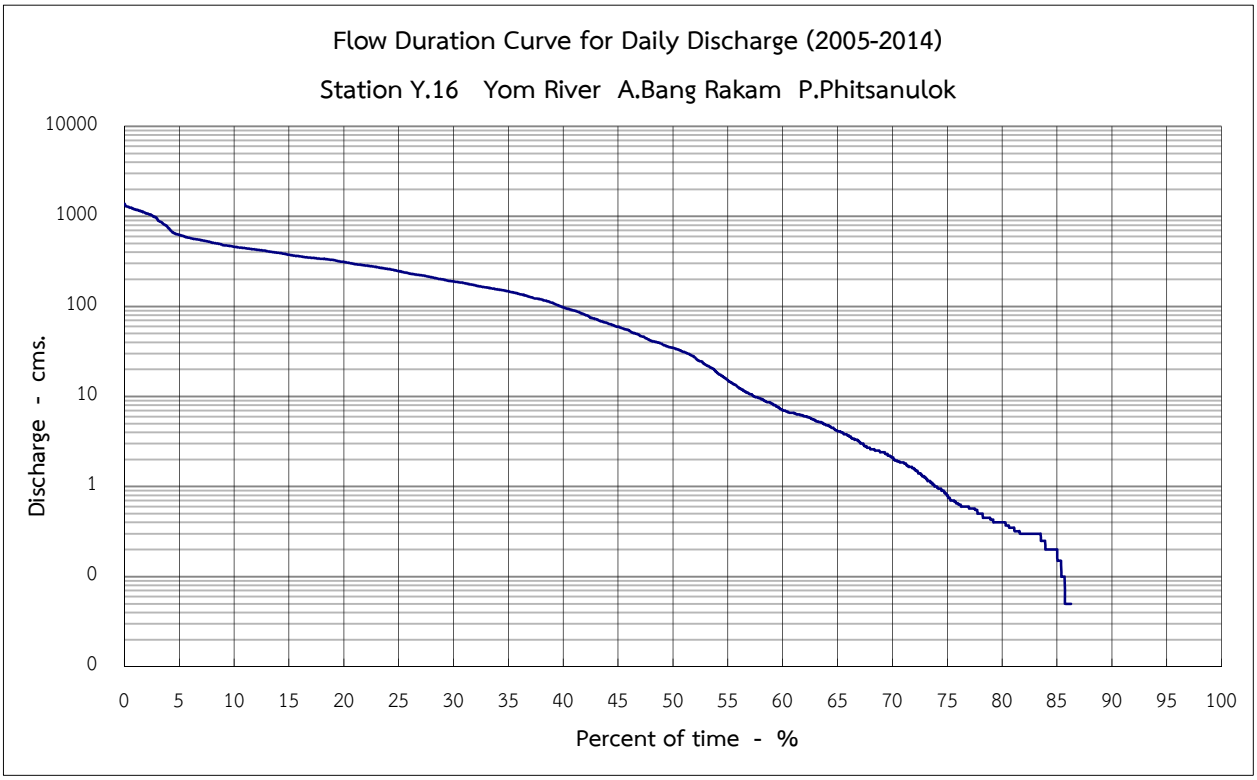
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	488.0	131.5	57.0	32.8	13.7	9.8	5.2	4.2	3.2	1.9	0.0



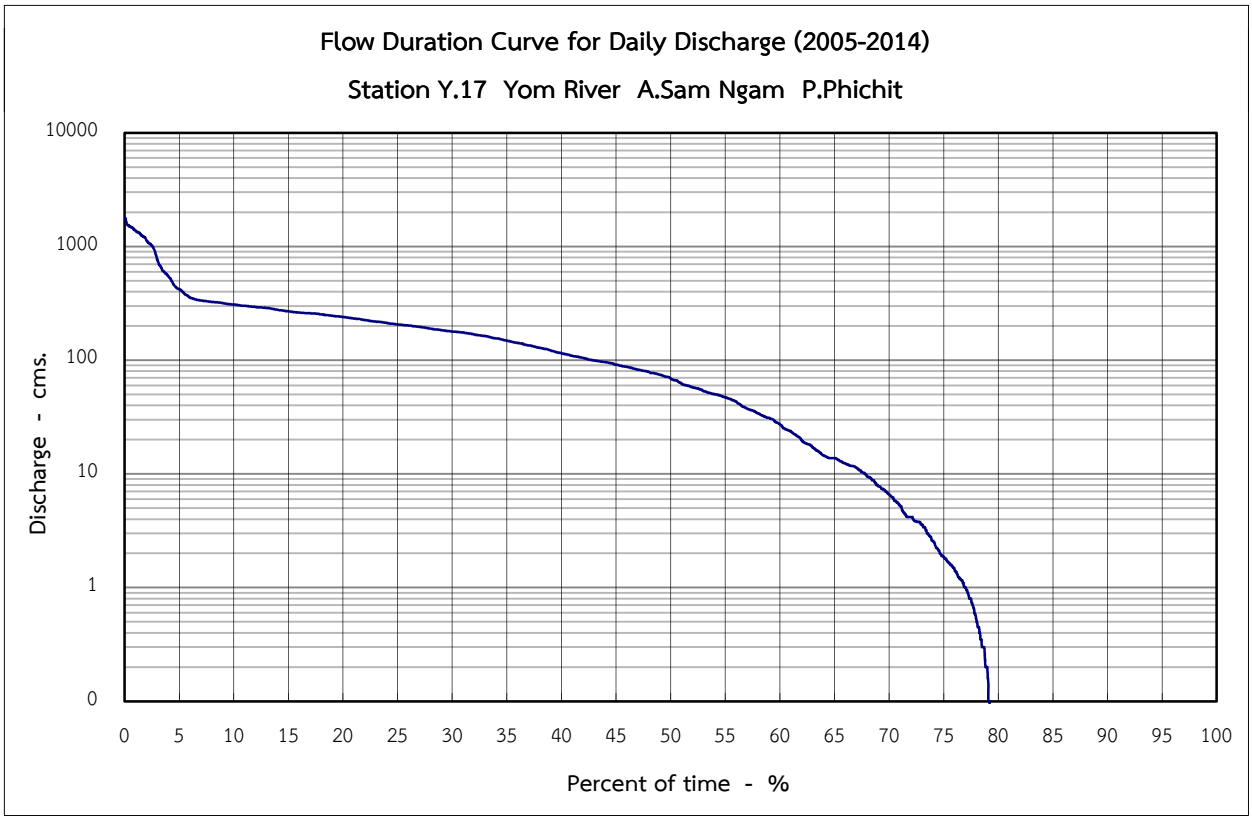
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	194.5	39.8	18.6	12.0	5.8	4.1	1.9	1.6	1.0	0.8	0.0



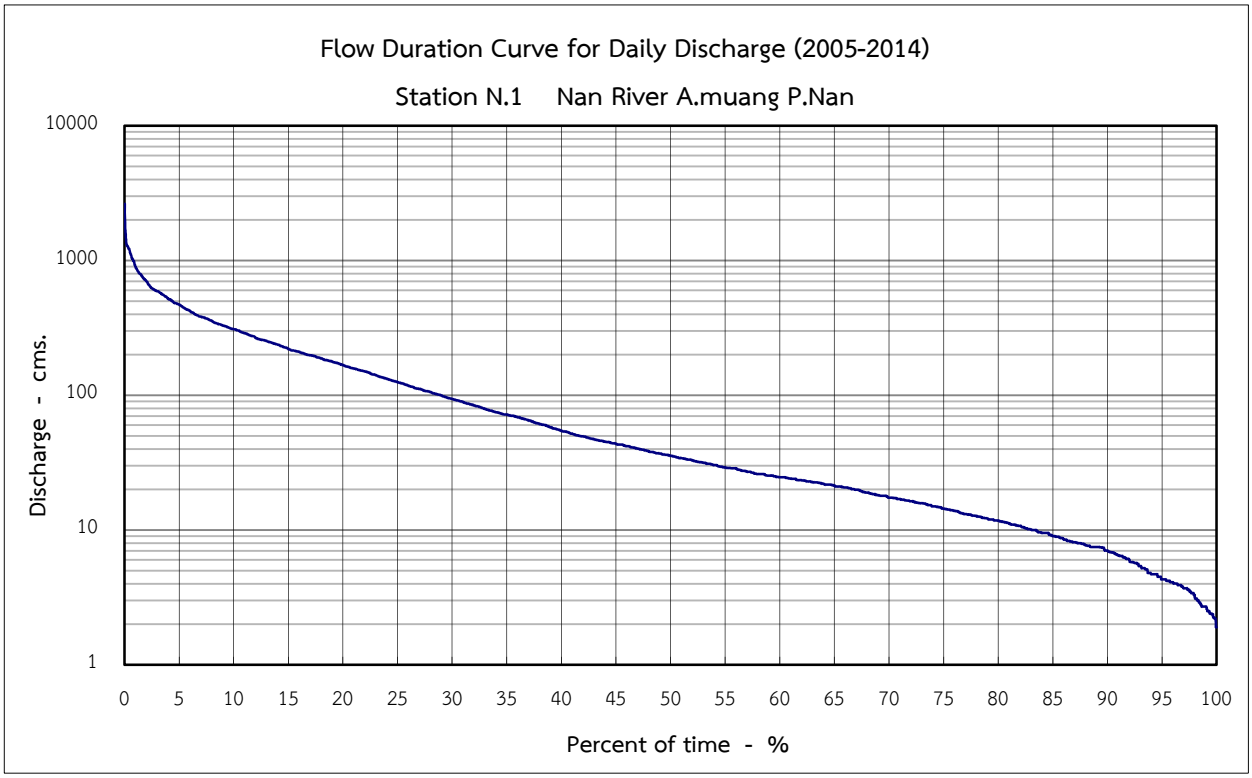
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	711.9	191.5	95.4	50.7	17.1	9.5	4.4	3.1	2.3	1.0	0.0



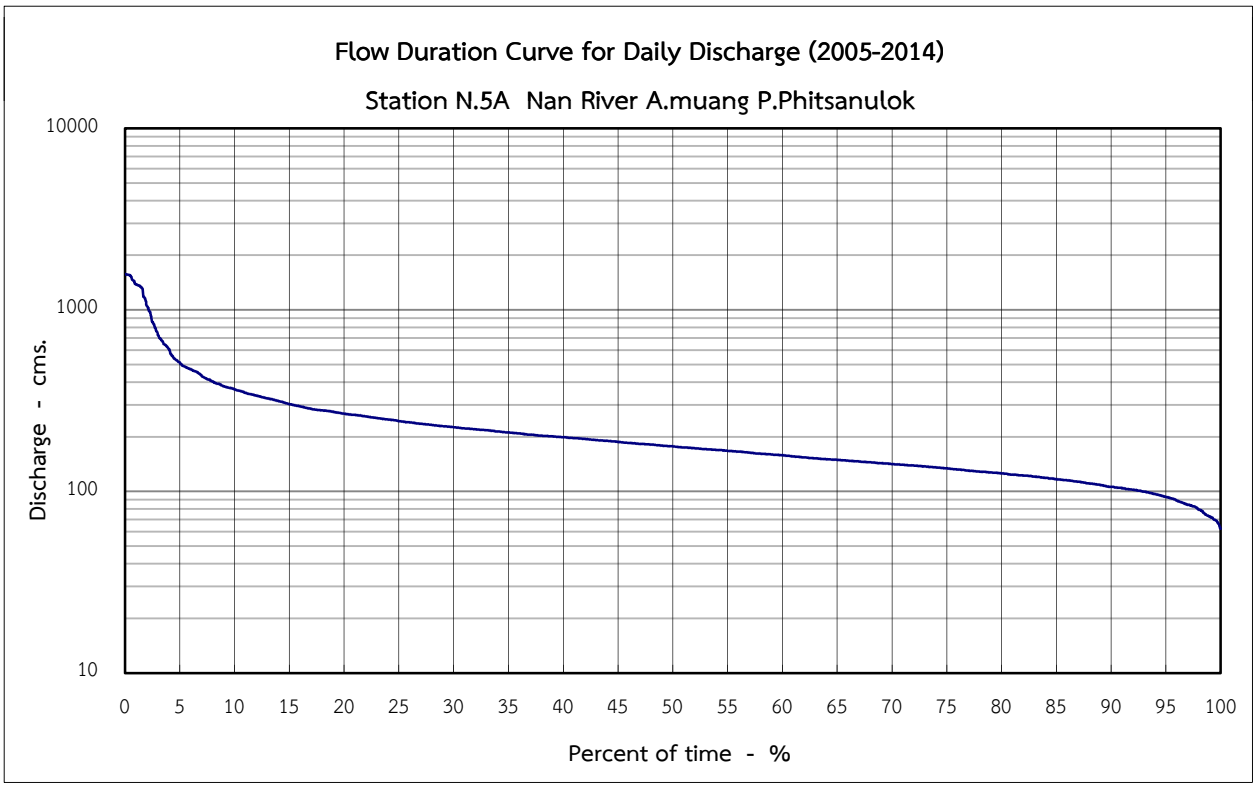
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,192.0	458.8	312.2	189.3	34.6	7.0	0.4	0.2	0.0	0.0	0.0



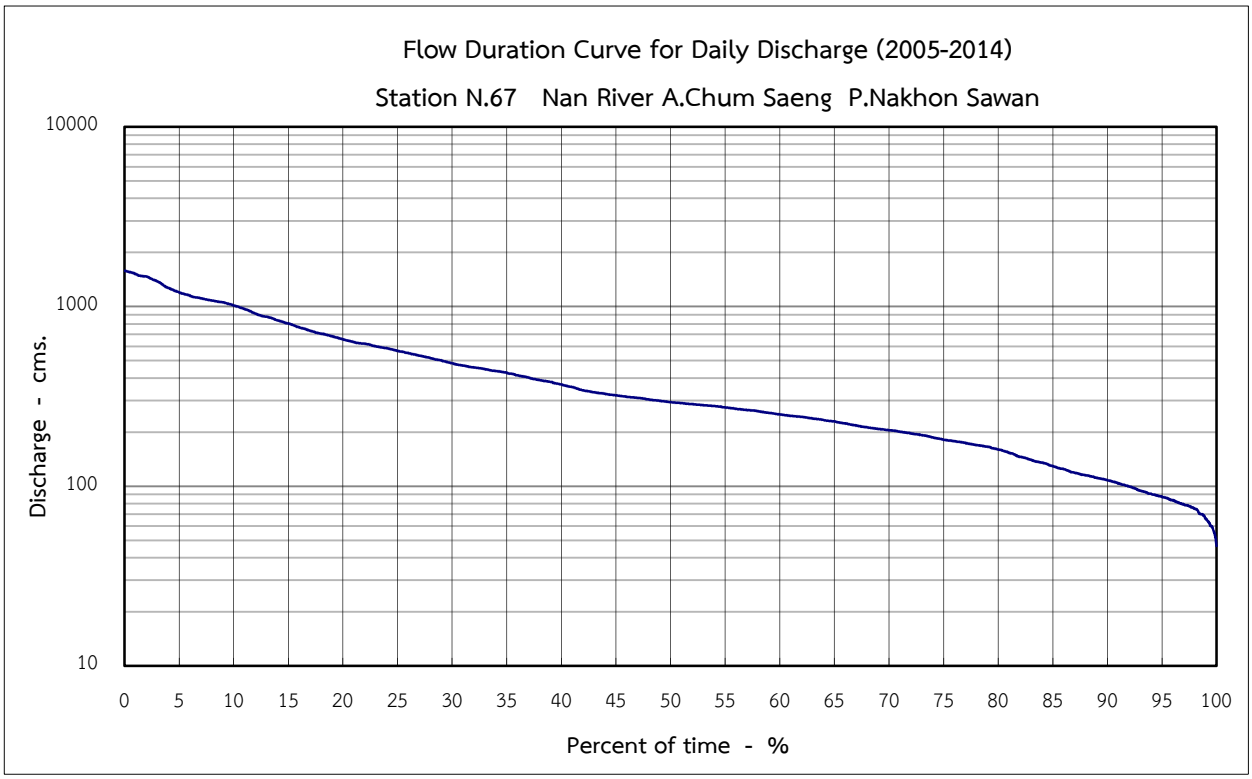
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,377.5	308.8	239.8	178.7	69.0	27.4	0.0	0.0	0.0	0.0	0.0



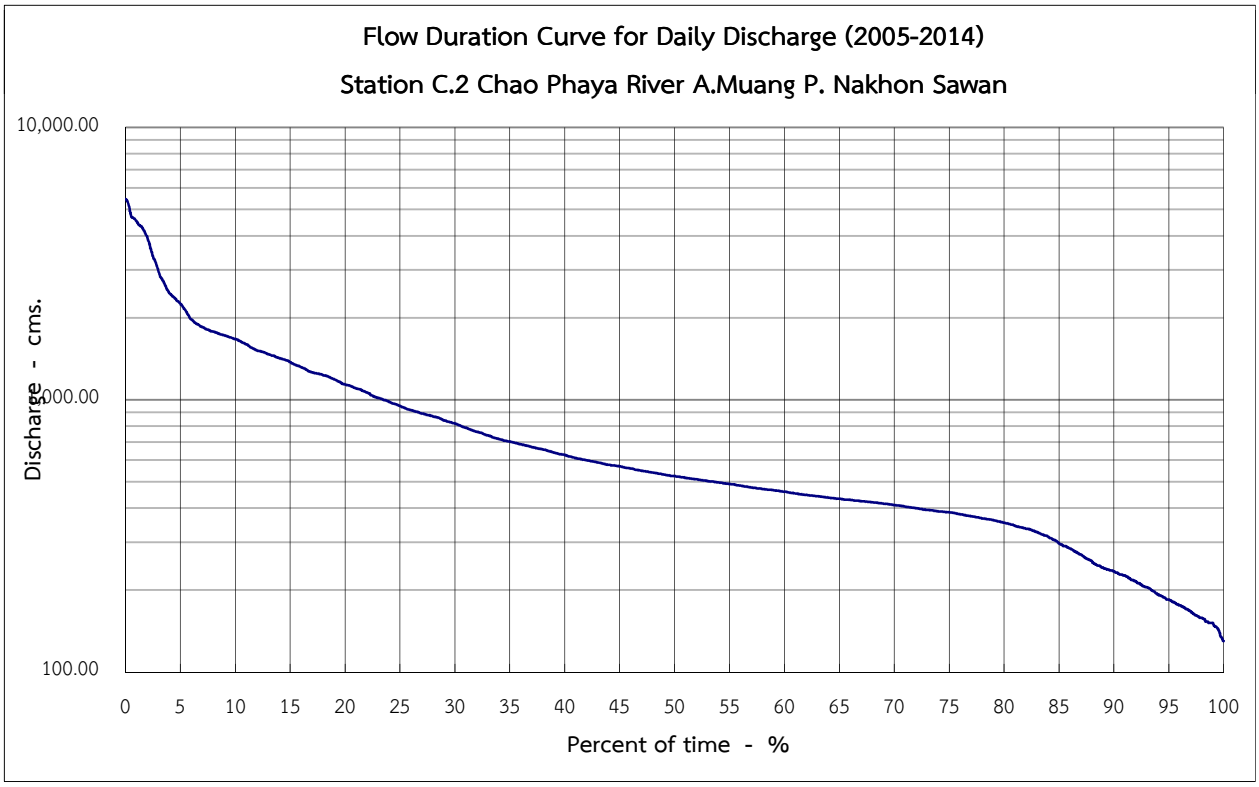
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	905.3	309.8	168.0	93.9	35.6	24.7	11.7	9.0	7.0	4.3	1.9



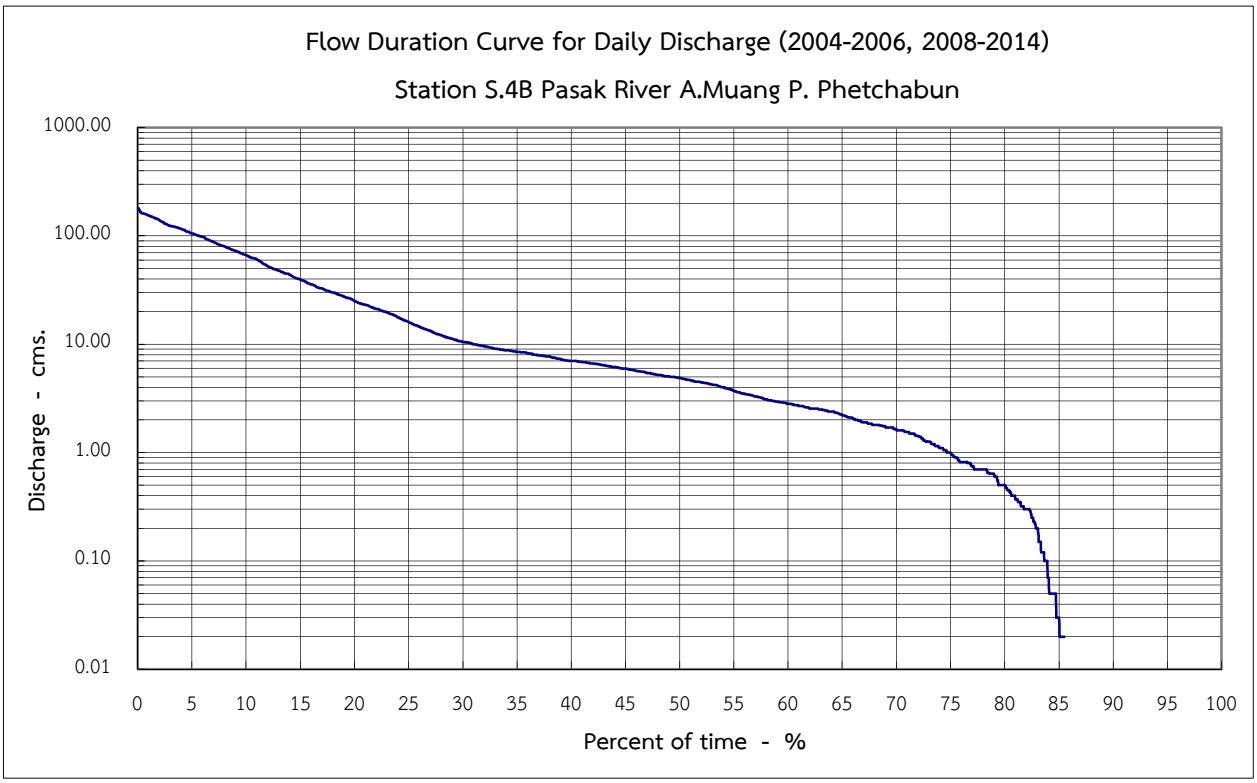
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,380.1	364.2	267.7	225.6	177.0	158.0	125.5	116.7	105.9	93.3	62.2



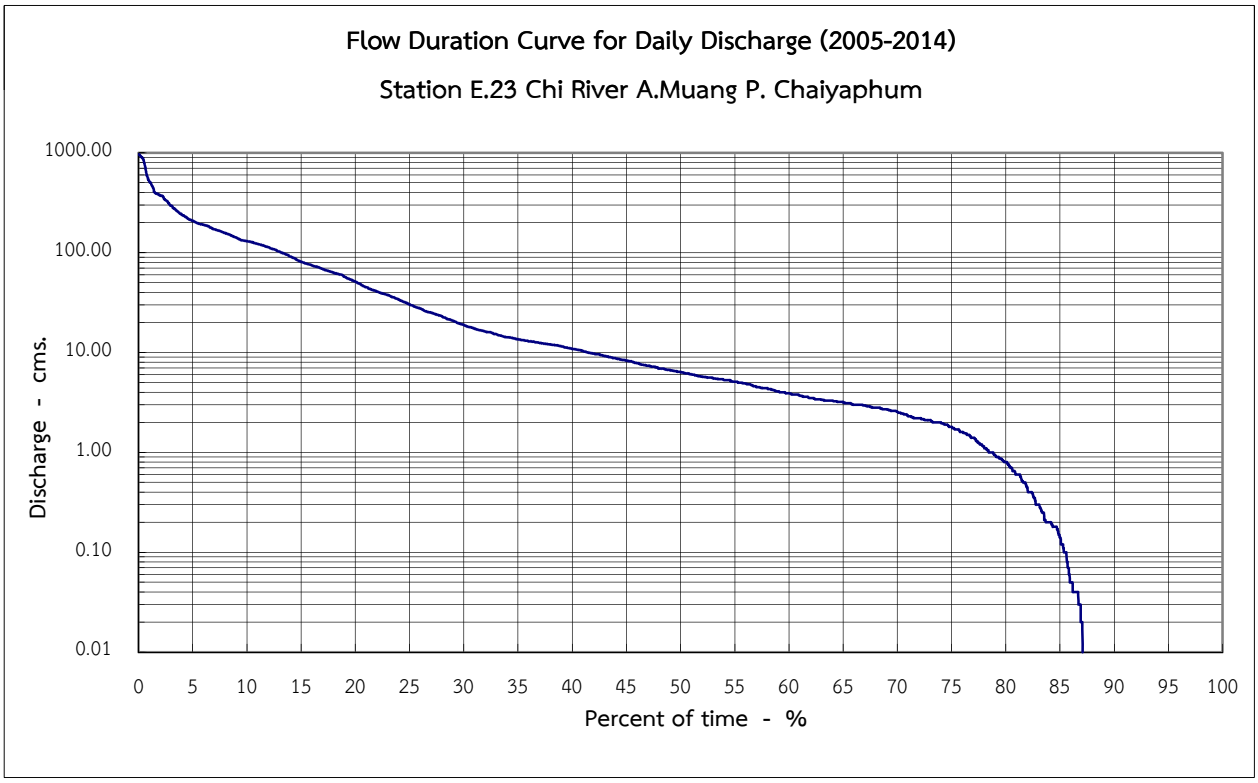
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,518.5	1,014.0	658.0	483.6	294.3	251.0	160.3	129.3	108.0	87.5	46.6



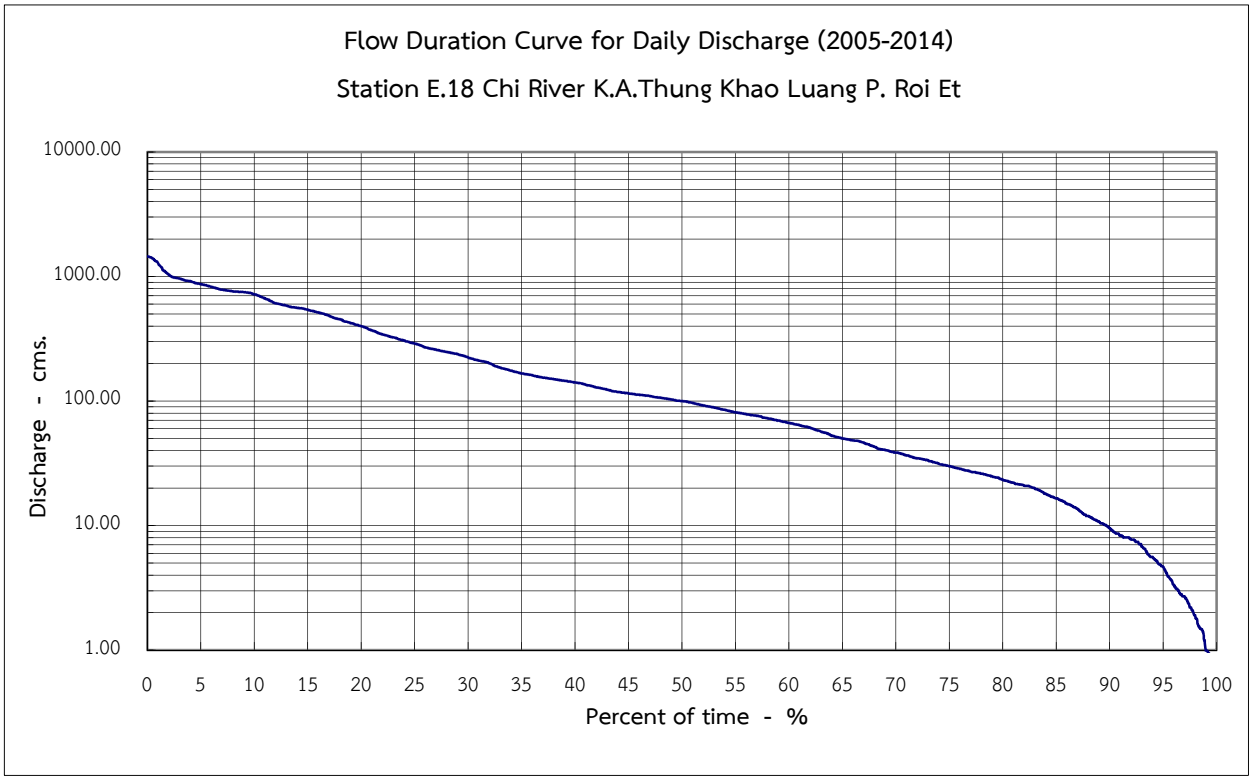
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,530.0	1,670.0	1,137.5	818.0	524.6	459.6	353.6	296.8	234.0	184.6	130.0



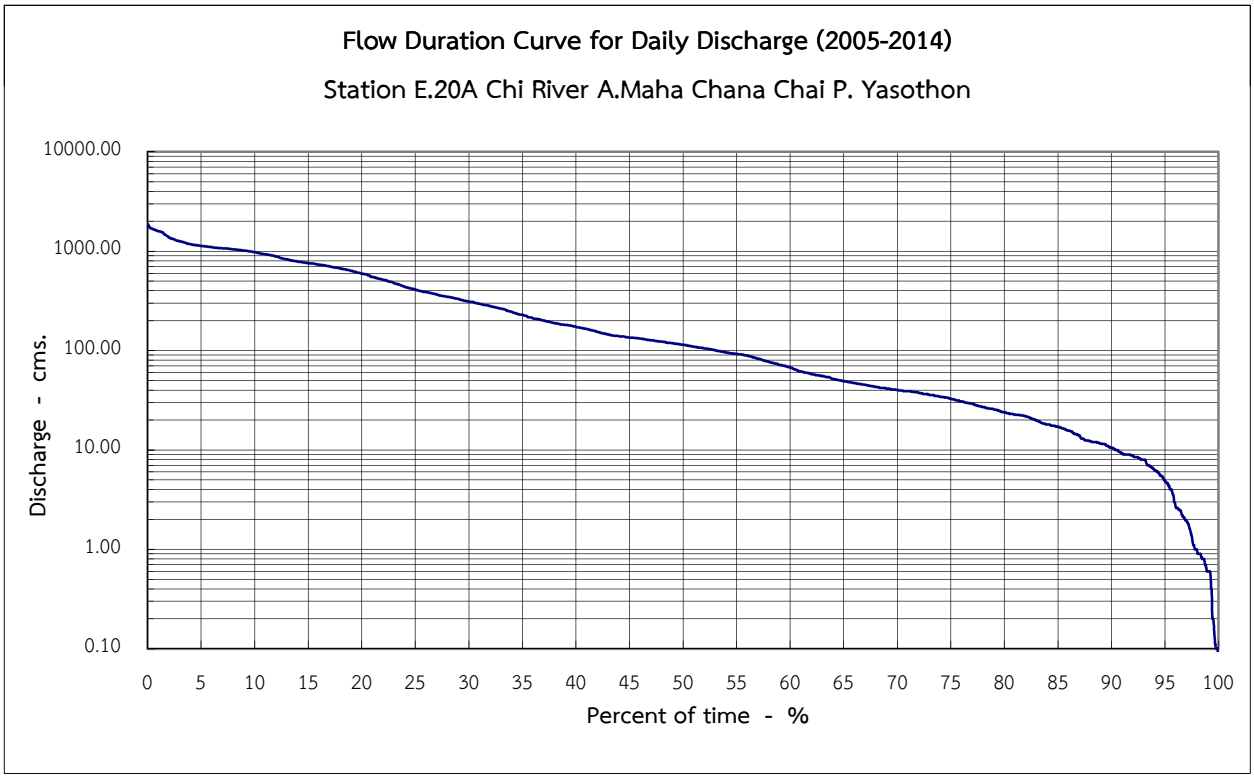
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	154.1	66.3	25.2	10.5	4.9	2.8	0.5	0.0	0.0	0.0	0.0



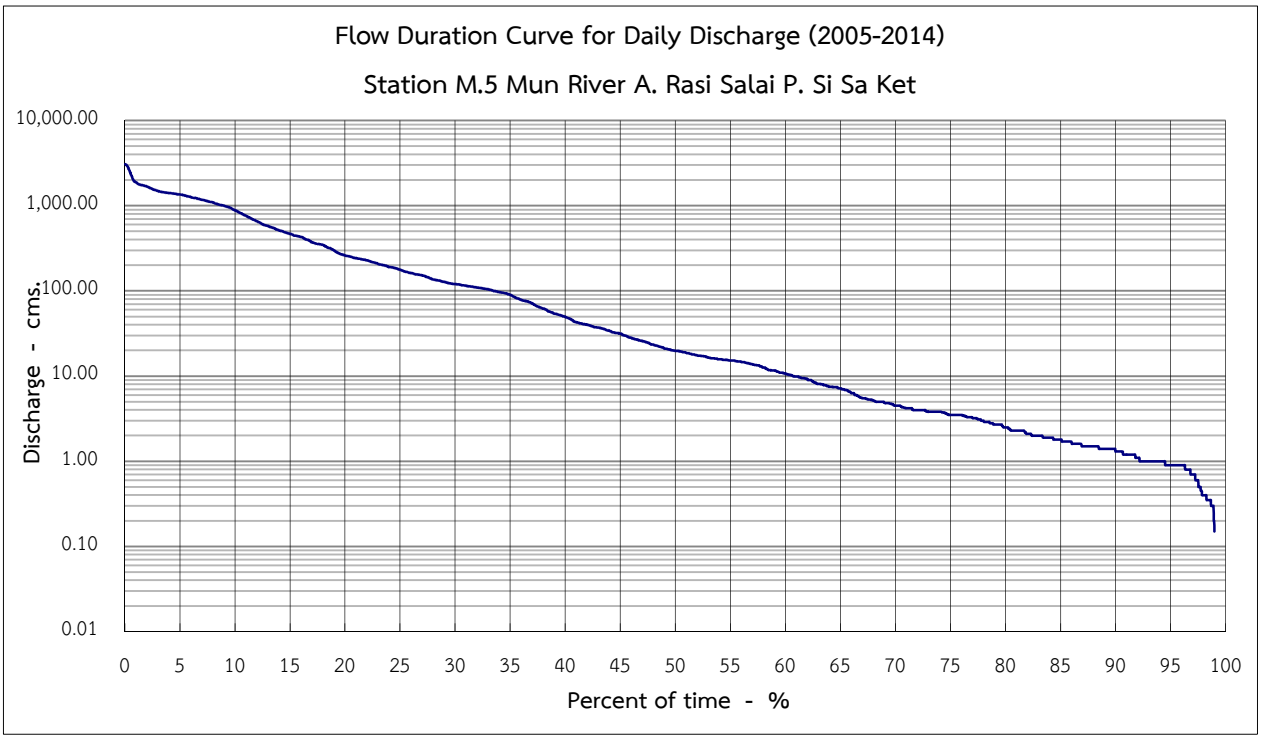
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	514.5	130.3	51.5	18.9	6.4	3.9	0.8	0.1	0.0	0.0	0.0



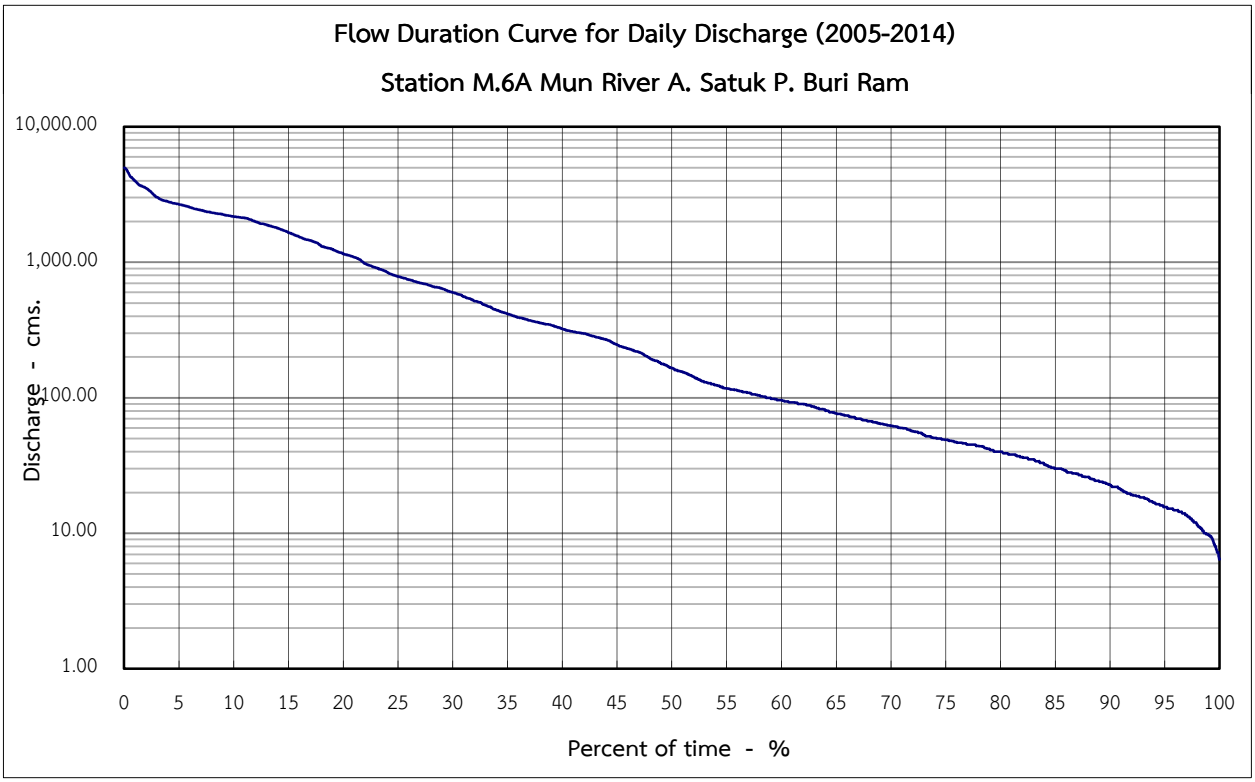
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,276.6	717.0	398.0	223.8	99.9	66.6	23.3	16.5	9.5	4.7	0.6



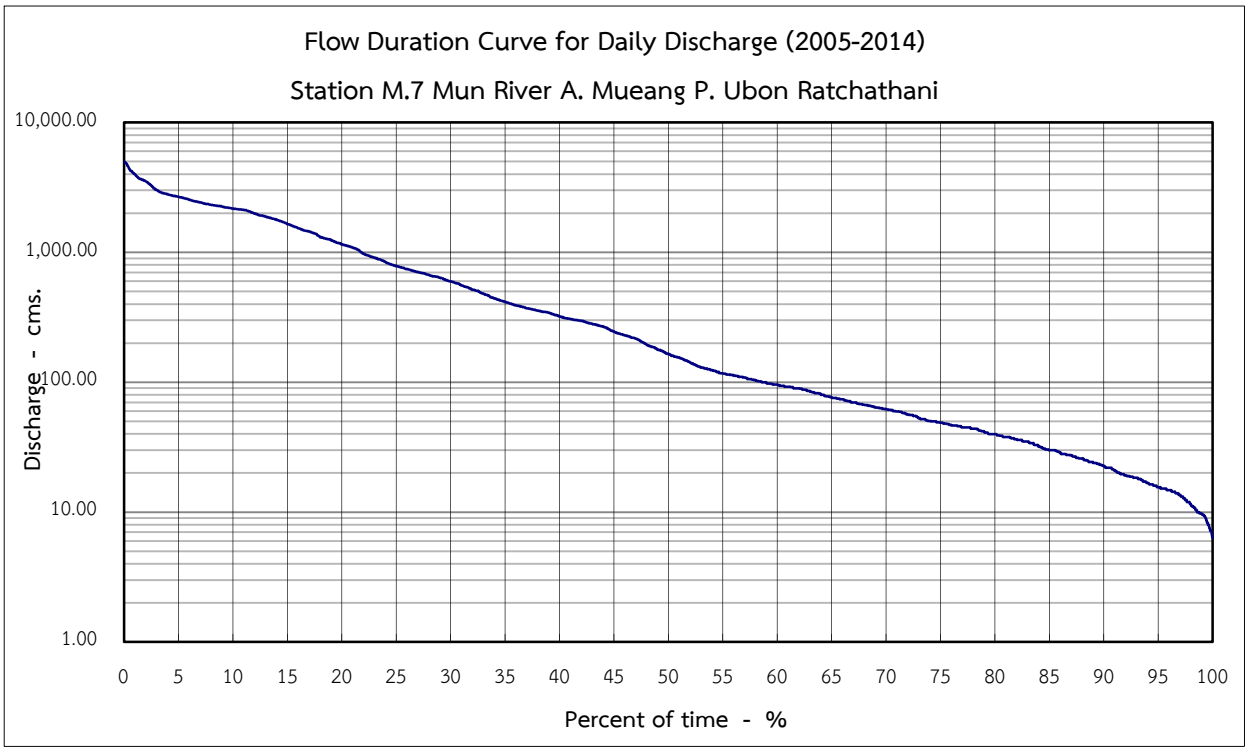
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,595.1	978.7	596.4	311.7	114.7	67.9	24.0	17.2	10.5	4.9	0.1



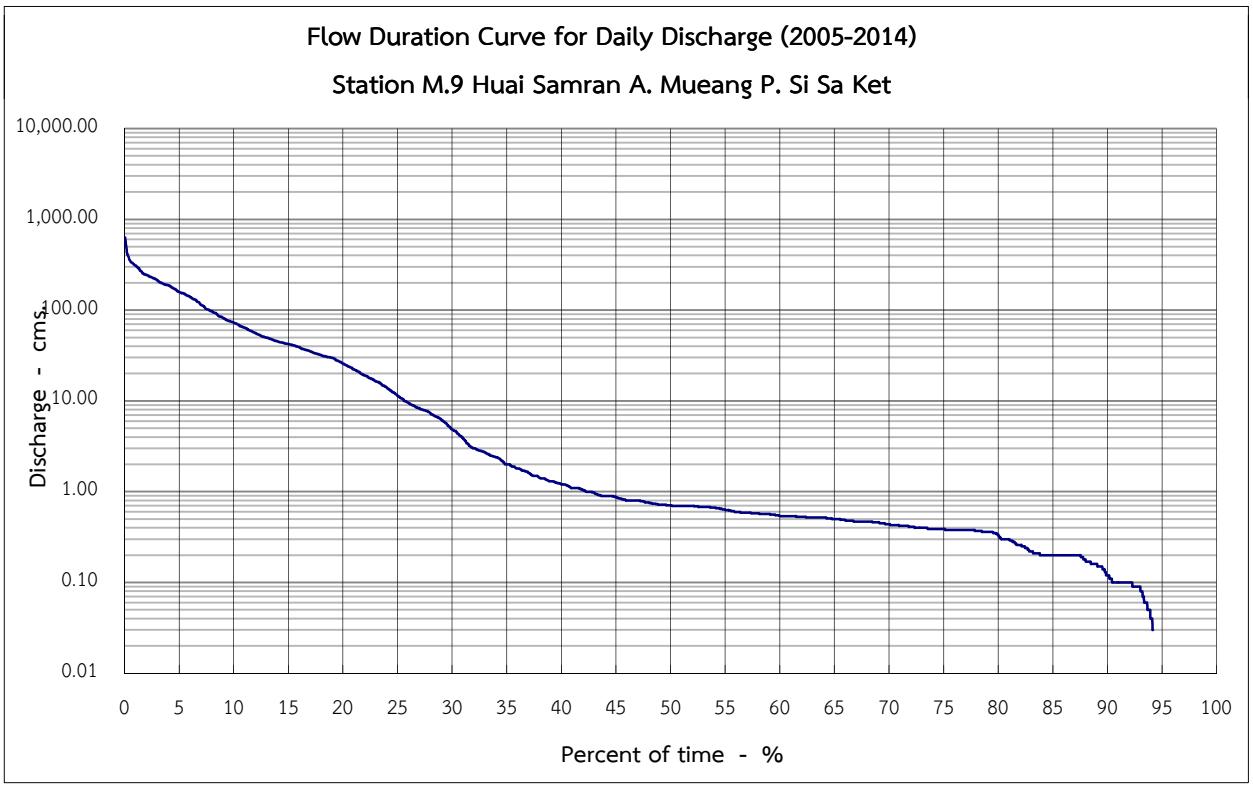
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,892.0	883.0	261.0	120.1	19.8	10.8	2.5	1.8	1.3	0.9	0.0



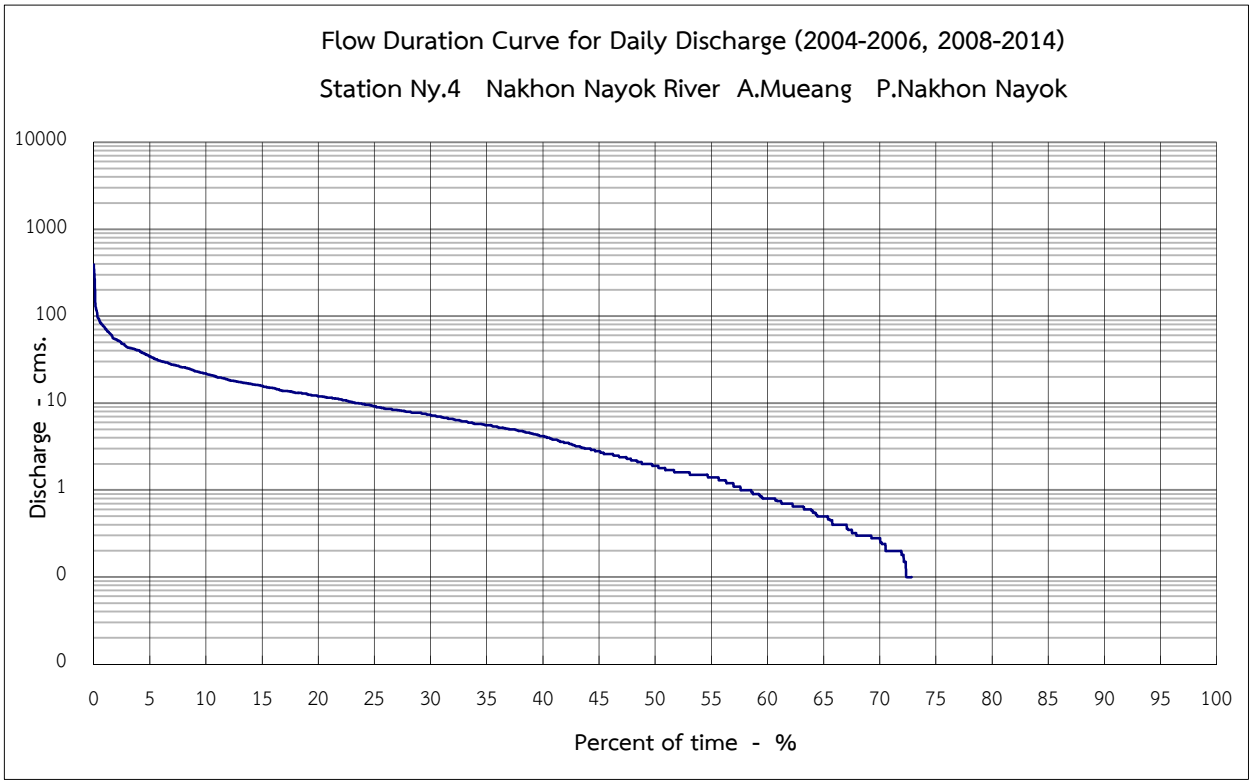
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,185.0	353.6	149.0	62.8	6.6	1.8	0.0	0.0	0.0	0.0	0.0



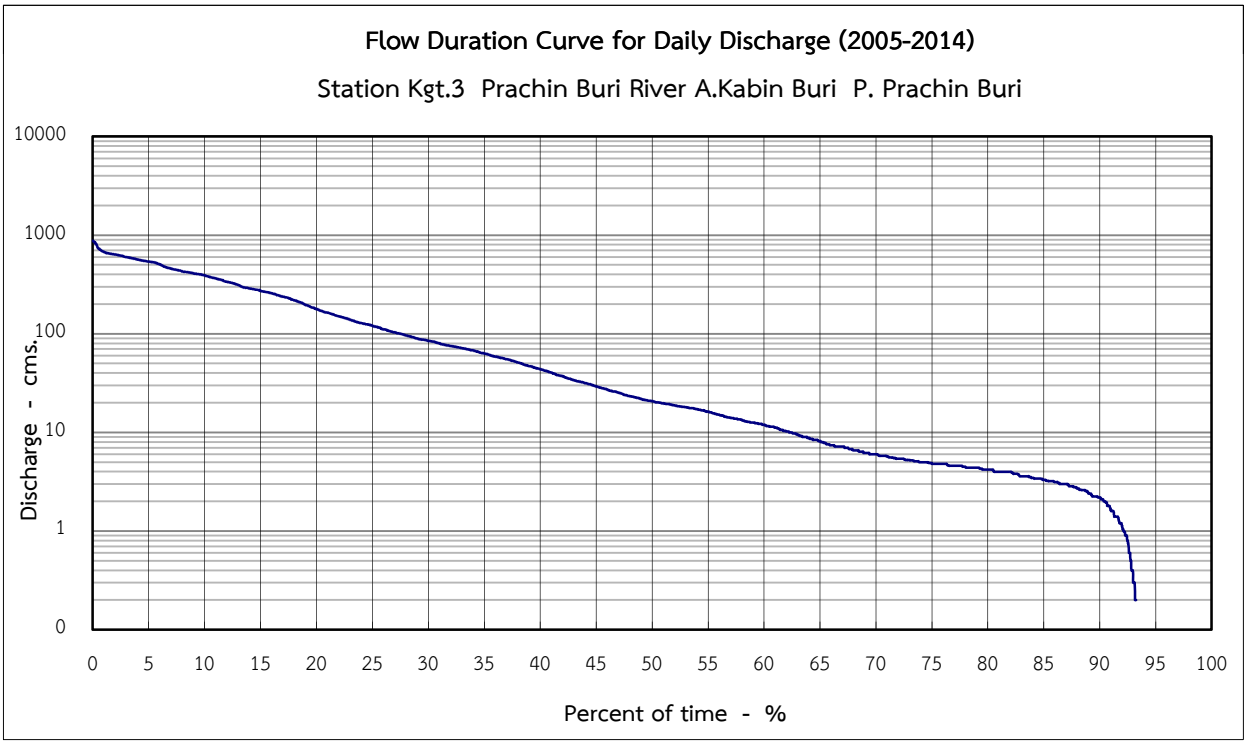
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,011.5	2,179.0	1,155.0	599.2	166.0	96.0	40.0	30.0	22.8	15.6	6.4



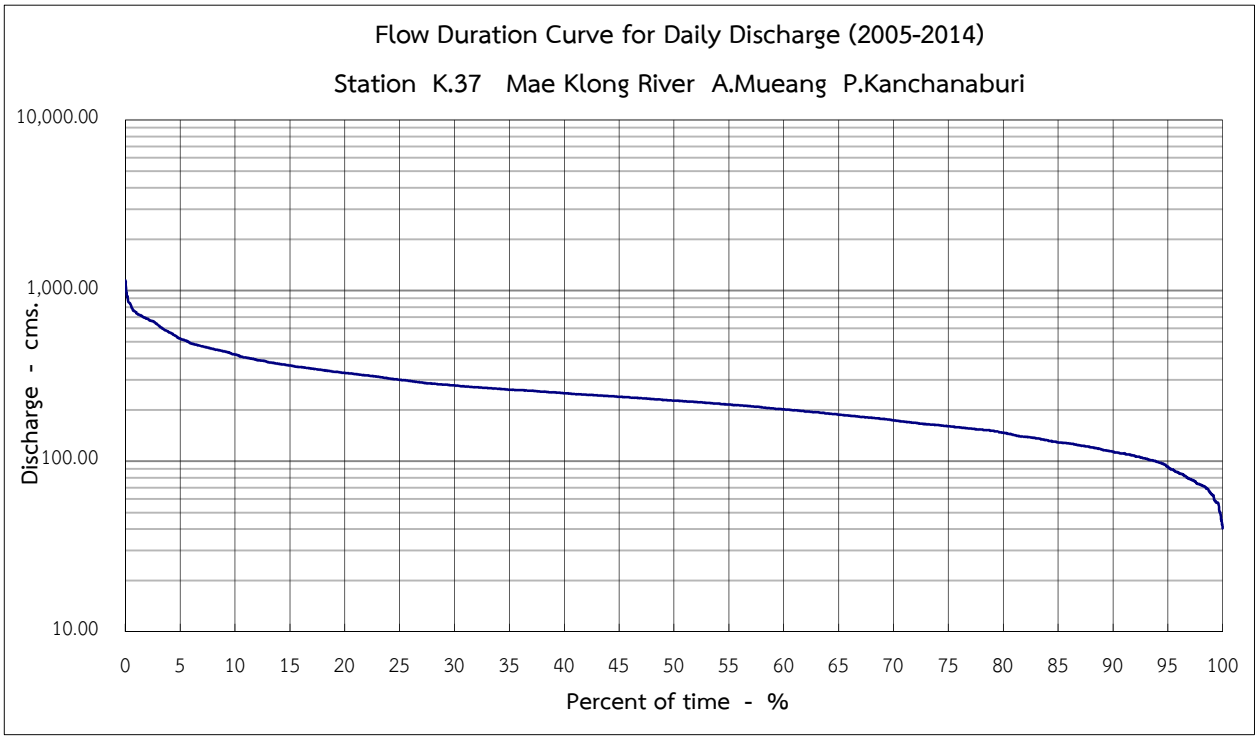
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	311.2	73.3	25.7	4.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0



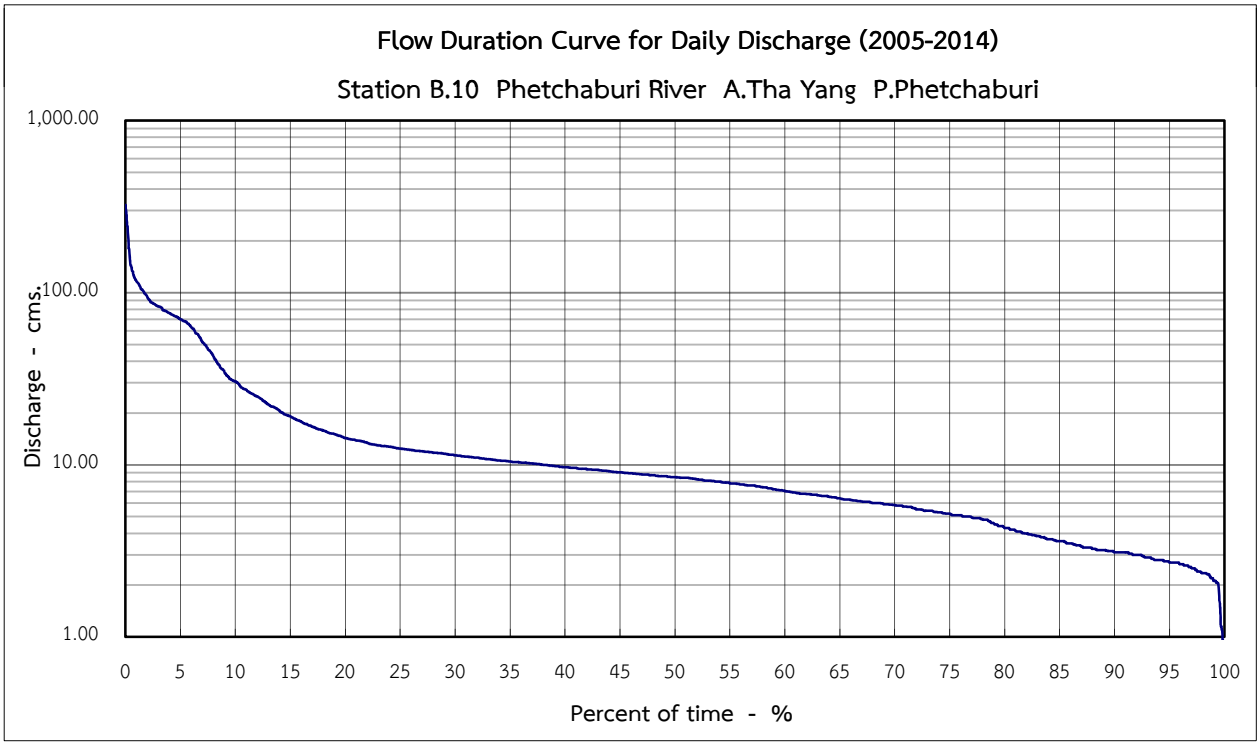
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	74.4	22.0	12.0	7.3	1.9	0.8	0.0	0.0	0.0	0.0	0.0



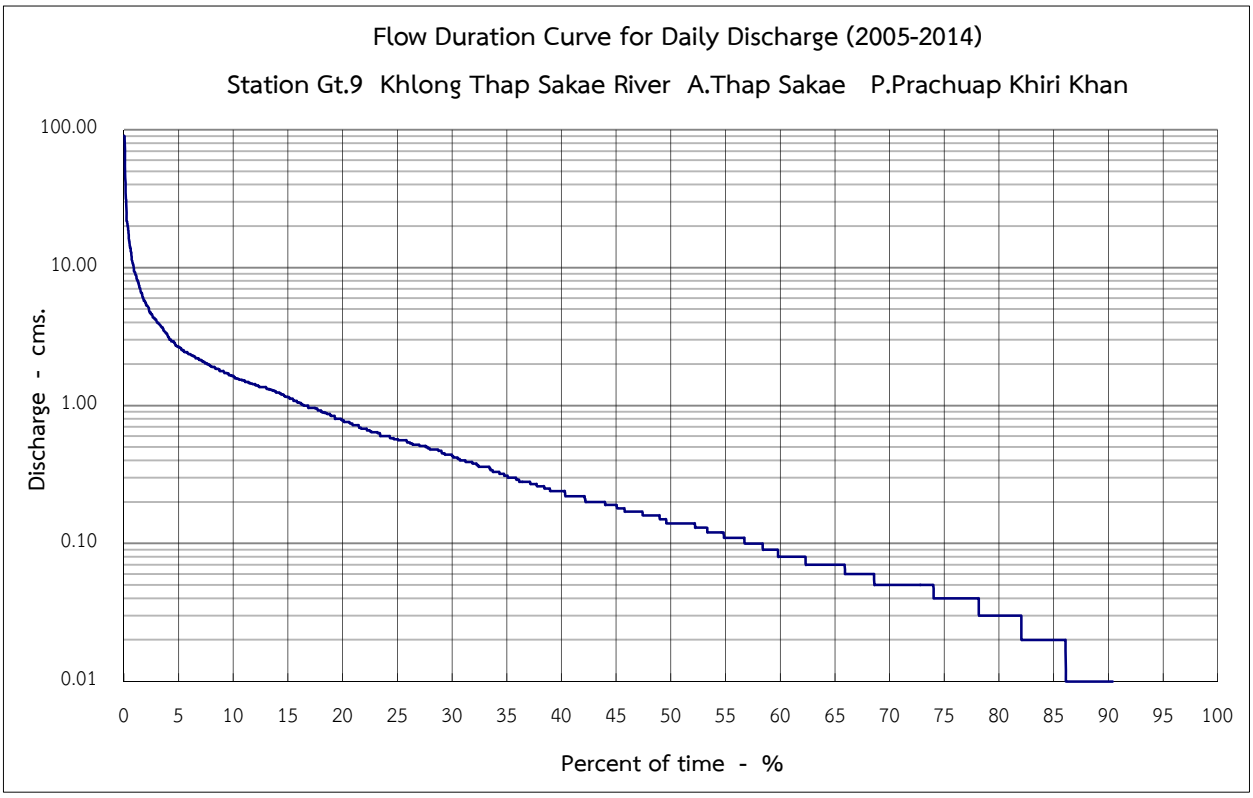
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	677.6	391.6	178.6	84.8	20.8	12.0	4.2	3.3	2.2	0.0	0.0



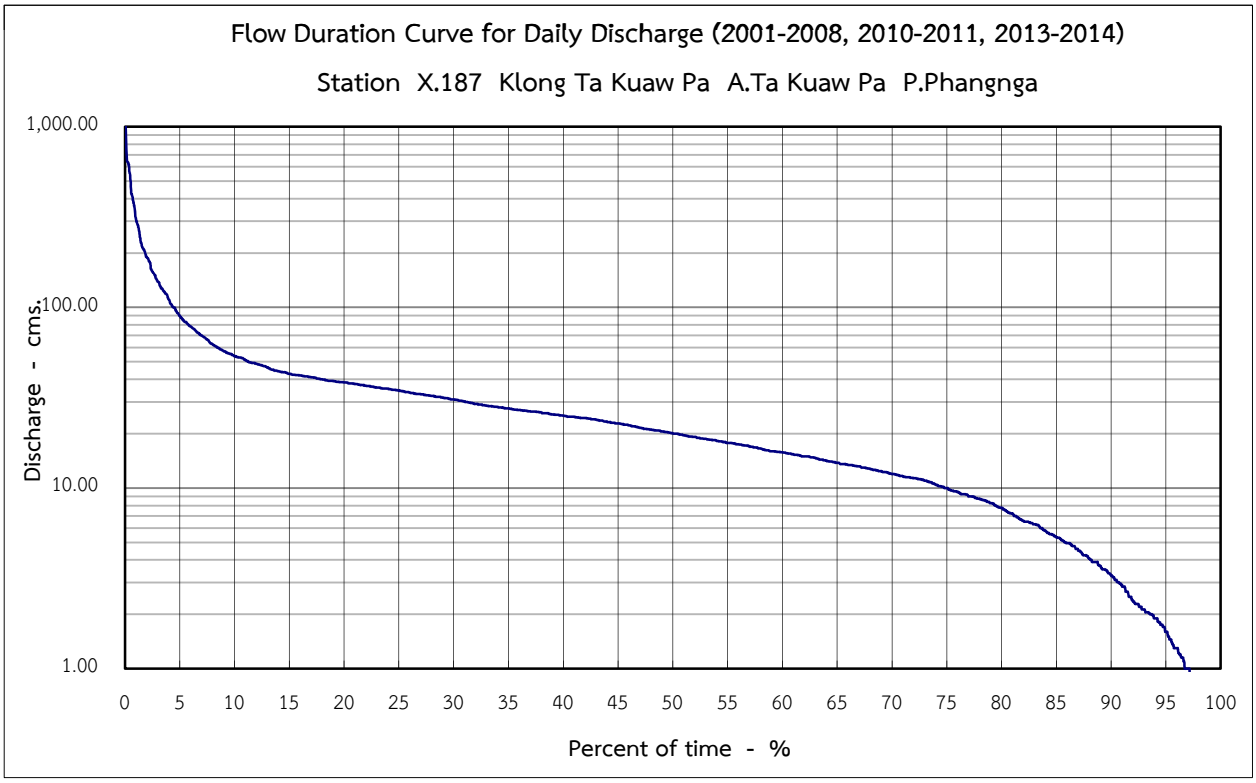
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	747.0	423.6	330.0	280.2	227.2	203.4	150.5	133.2	113.5	90.8	40.3



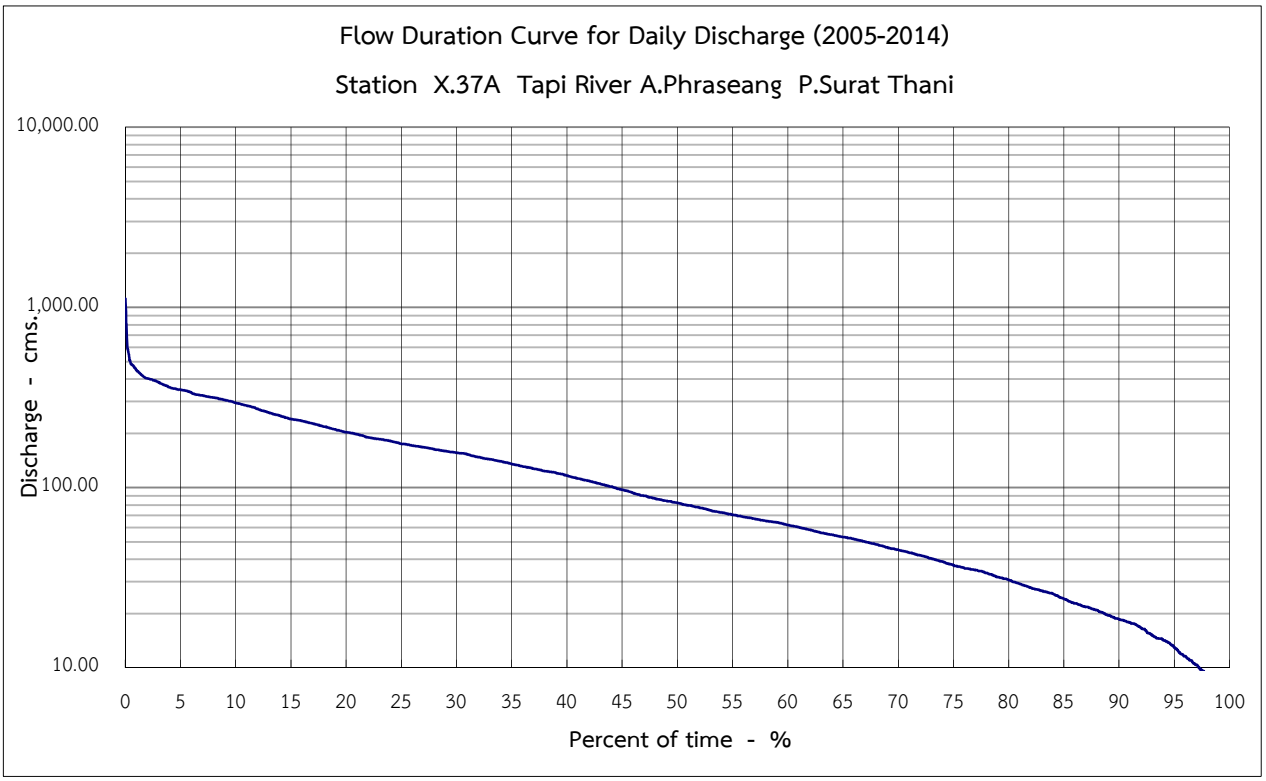
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	116.0	39.2	16.2	11.8	8.2	6.6	3.9	3.4	3.1	2.7	0.4



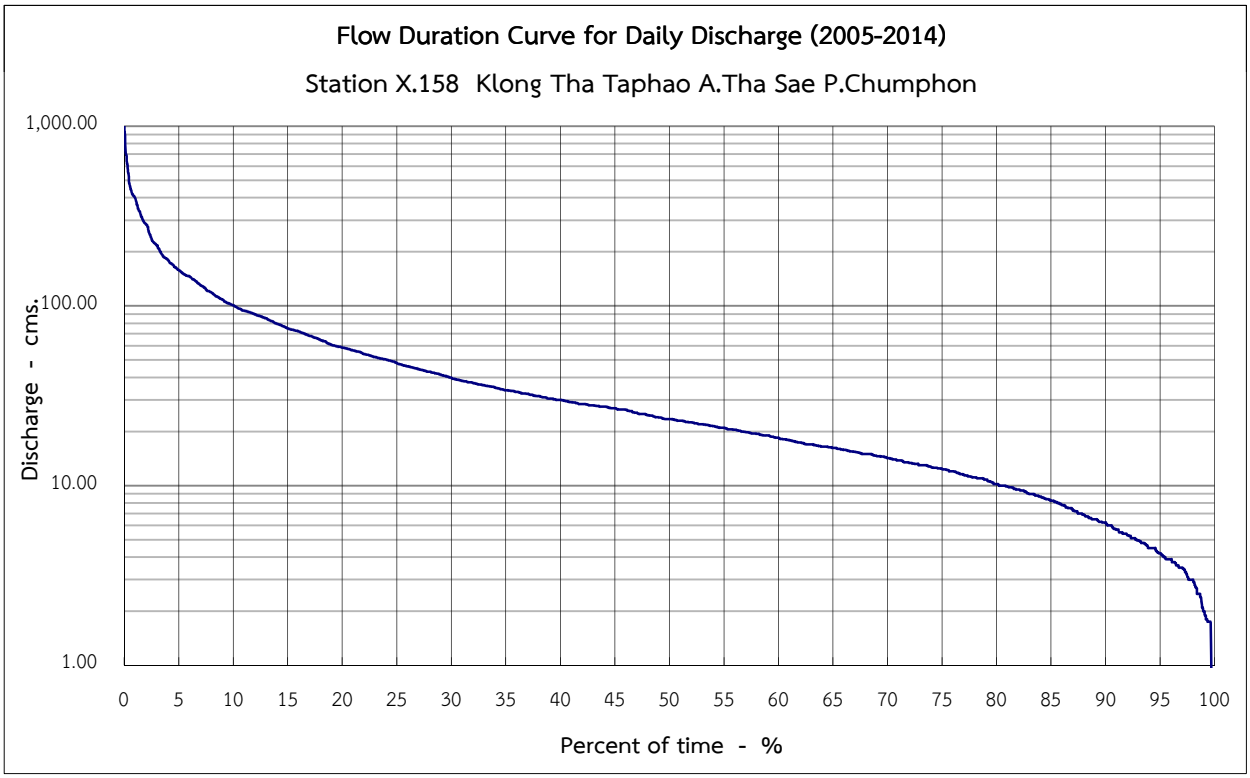
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	8.8	1.6	0.8	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0



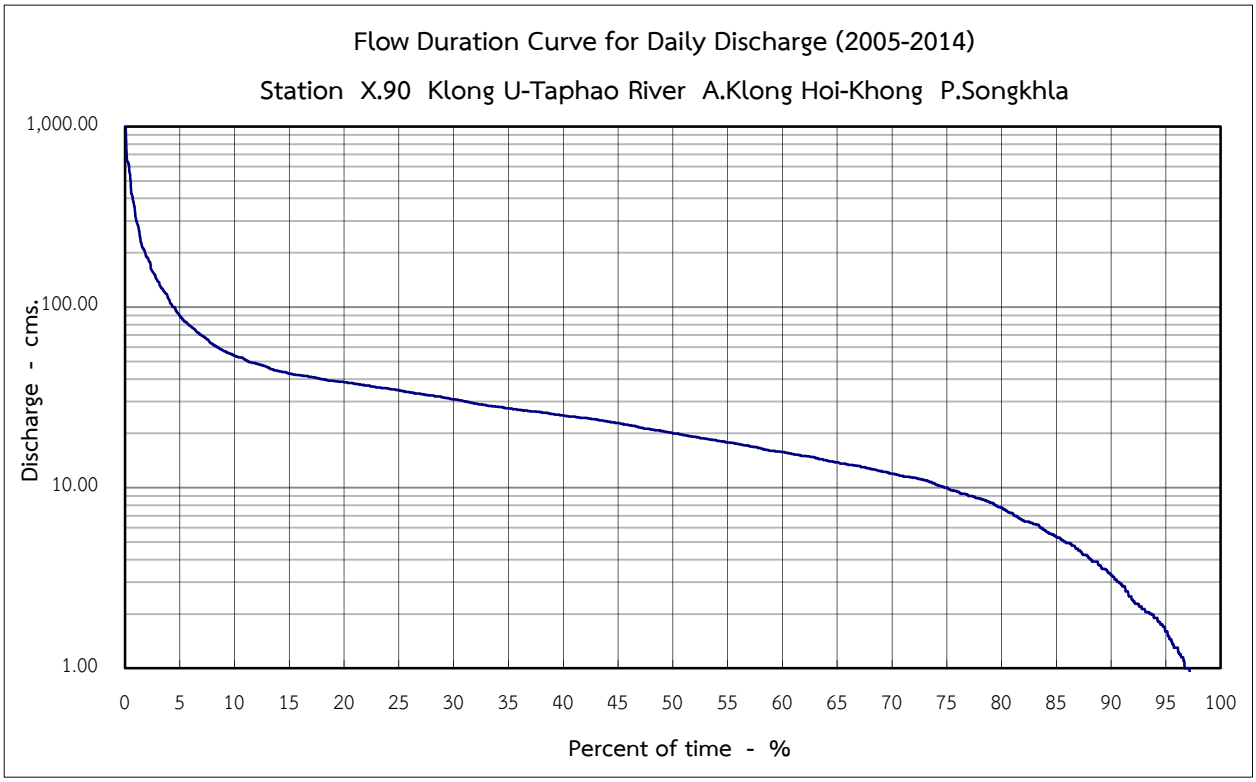
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	449.4	136.0	73.0	50.0	26.5	17.4	8.0	6.2	4.5	2.7	0.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	448.4	295.0	202.8	156.1	82.4	62.0	30.7	24.2	18.6	13.0	6.6



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	399.5	100.8	58.6	39.8	23.5	18.5	10.2	8.3	6.3	4.2	0.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	307.0	53.8	38.5	30.9	20.1	15.8	7.8	5.4	3.3	1.6	0.0