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**WATER YEAR 2019**  
**VOLUME 62**



**HYDROLOGY DIVISION**  
**OFFICE OF WATER MANAGEMENT AND HYDROLOGY**  
**ROYAL IRRIGATION DEPARTMENT**



Thailand

Hydrological Yearbook

Water Year 2019

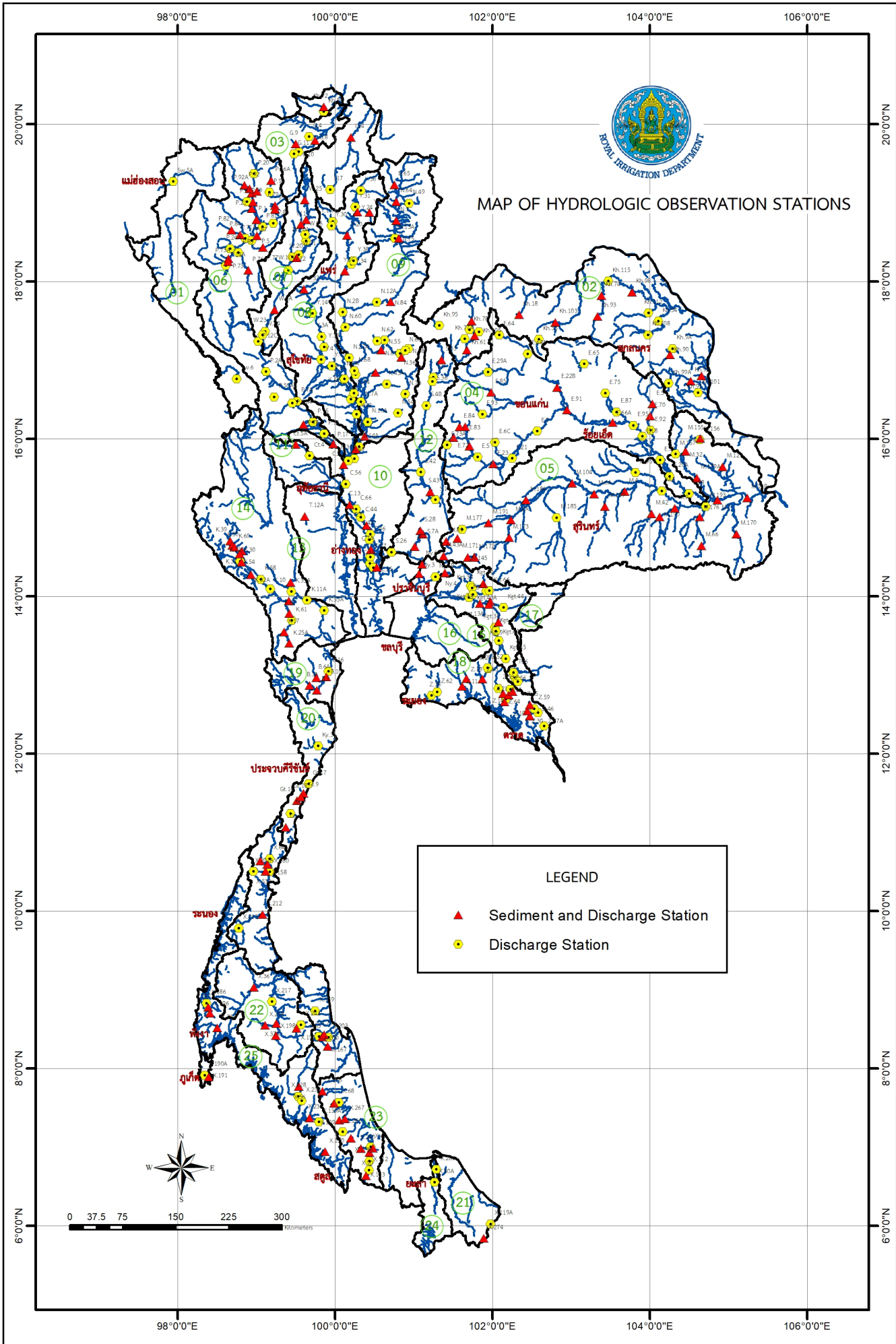
Volume 62

Royal Irrigation Department

Hydrology Division

Office of Water Management and Hydrology

Bangkok



MAP OF HYDROLOGIC OBSERVATION STATIONS

**LEGEND**

- ▲ Sediment and Discharge Station
- Discharge Station

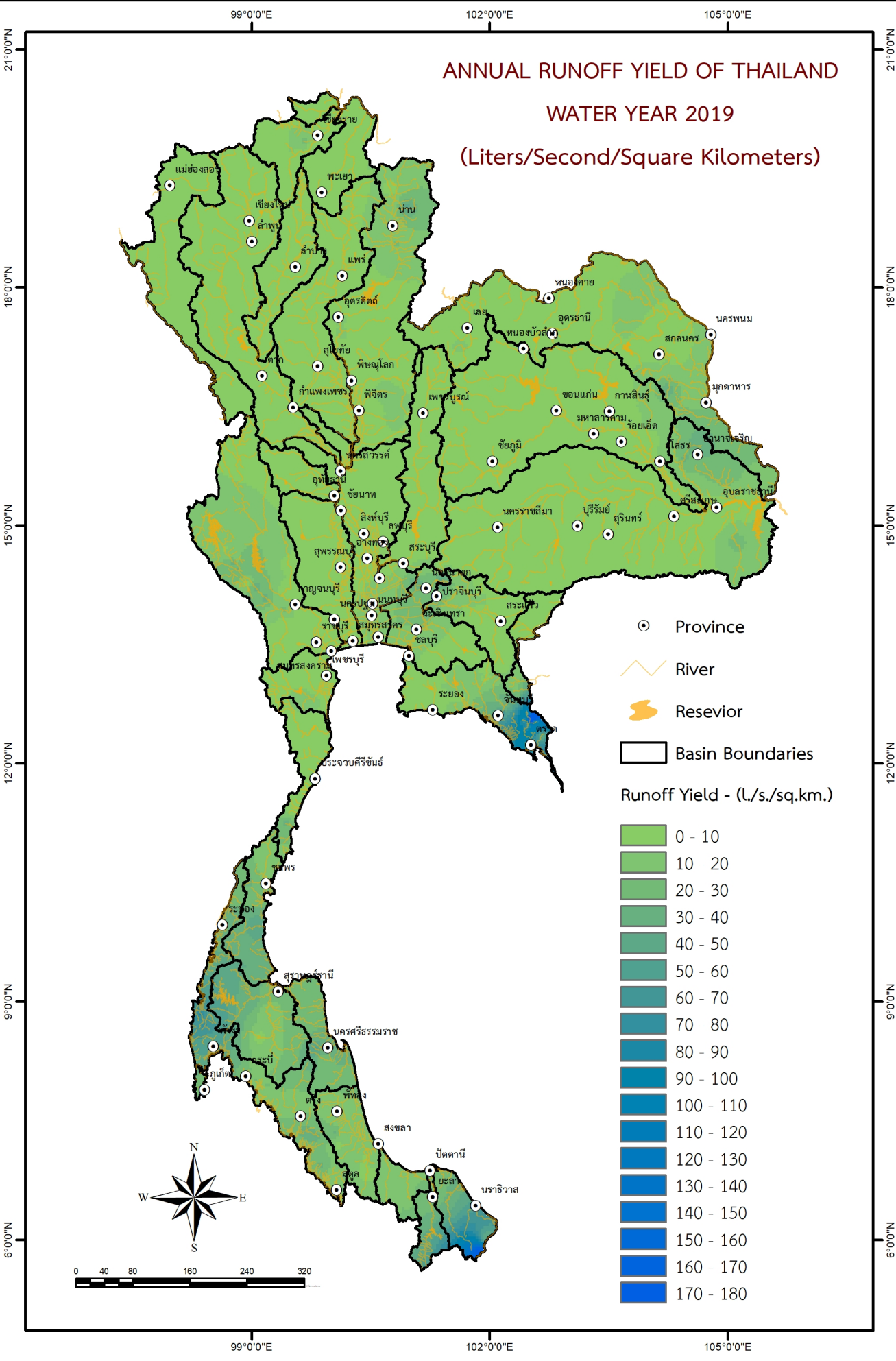
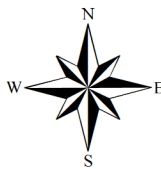
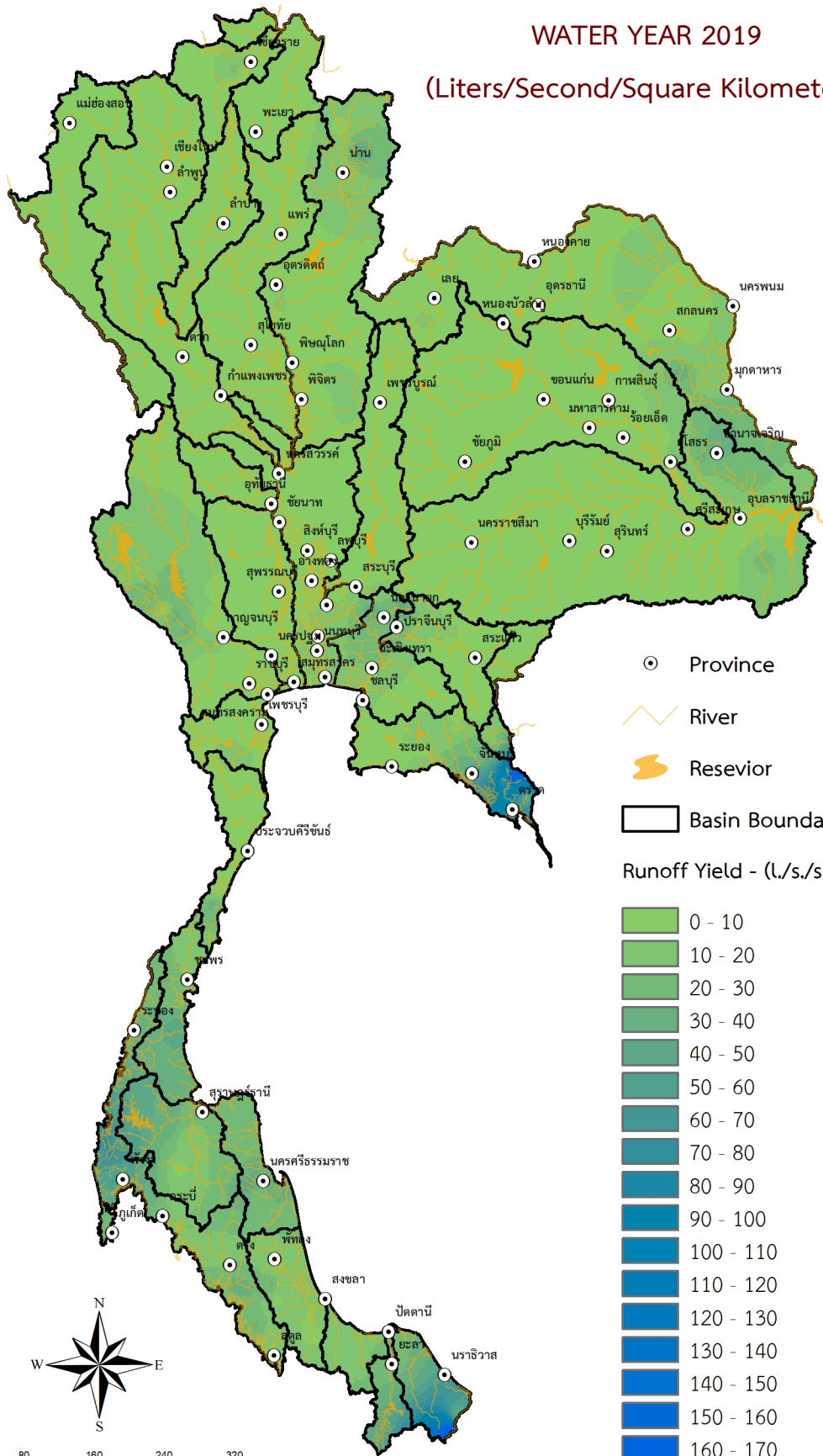
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# ANNUAL RUNOFF YIELD OF THAILAND

## WATER YEAR 2019

(Liters/Second/Square Kilometers)



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158	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	866
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#### **APPENDIX**

Flow Duration Curve for Daily Discharge ( 2010 - 2019 )

**HYDROLOGY OBSERVATION**



**Fig.1 Typical vertical staff gauge**



**Fig.2 Standard bench mark**





**Fig.3 Discharge Measurement by River Surveyor M9 ...etc.**



**Fig.4 Measuring Line**



**Fig.5 Hydrological Station Camp**



**Fig.6 Meteorological Field**



**Fig.7 Field survey of suspended sediment**



**Fig.8 Sediment Laboratory**

## HYDROLOGICAL YEAR BOOK PUBLICATION

\* \*\*\*\* \*\* \*\*\*\* \*

Introduction

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

Definition of terms and abbreviations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### Order of listing of gauging data

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

Series of yearbook publications

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

<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
1	1912 – 1937	112	September 1976
2	1938 – 1947	103	September 1976
3	1948 – 1953	146	September 1976
4	1954 – 1956	178	September 1976
5	1957 – 1959	203	May 1974
6	1960 – 1962	213	October 1973
7	1963 – 1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979
15	1972	184	October 1979
16	1973	187	January 1980
17	1974	191	March 1980
18	1975	182	August 1980
19	1976	184	November 1980
20	1977	192	February 1981
21	1978	210	May 1982
22	1979	237	July 1981
23	1980	231	August 1982
24	1981	213	November 1983
25	1982	224	June 1986
26	1983	235	October 1986
27	1984	242	February 1988
28	1985	232	January 1989
29	1986	245	June 1989
30	1987	271	July 1990
31	1988	267	February 1990
32	1989	224	July 1991
33	1990	225	July 1992

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<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
34	1991	227	July 1993
35	1992	220	May 1994
36	1993	228	April 1995
37	1994	224	August 1996
38	1995	232	July 1997
39	1996	244	August 1998
40	1997	269	August 1999
41	1998	258	August 2000
42	1999	291	August 2001
43	2000	316	September 2002
44	2001	330	September 2003
45	2002	316	October 2004
46	2003	334	October 2005
47	2004	338	November 2006
48	2005	340	December 2007
49	2006	362	February 2009
50	2007	361	May 2010
51	2008	372	February 2011
52	2009	368	December 2012
53	2010	347	February 2013
54	2011	360	April 2013
55	2012	348	October 2013
56	2013	369	October 2014
57	2014	359	October 2015
58	2015	351	October 2017
59	2016	356	May 2018
60	2017	361	May 2019
61	2018	367	May 2020
62	2019	352	May 2021

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

At the stream flow gauging station, flow measurement by a current meter is periodically performed so that the calibration of stream section related to flow can be made through the development of stage - flow relationship or simply called " rating curve ". Two types of the stream flow gauging station are under operation: with and without crew camp. Those without crew camp are under moving team and are capable for flow measurements of several stations. Those with crew camp are subject to less accessibility.



At station operated by a moving crew, at least twice a month during the monsoon period and once a month during the low flow period are expected for flow rating performance. The moving crew frequently fails to reach the stations while at their crest stages because of road damage and time available. At station with crew camp, daily rating performance may be expected, at least once whenever change of stage per day is over 30 centimeters. Fixed boat by cable way across the river is one of typical means of flow measurement by current meter for medium river, 100 m wide. Flow wider river, the boat is fixed in position by anchors.

The river cross section is requested to be made simultaneously during flow velocity measurement, so that shifting of the section could be determined. This request is lawful because there had been in the older day fashion of using cross section made during dry season for discharge computation.

The German A. Ott current meter has so far been adopted as standard equipment. The multiple - point method has been used as velocity measurement practice. At present the two - point method is carefully practiced.

#### Office data processing

The standard techniques used overseas are adopted in processing the data. In fact the standard methods of U.S. Geological Survey and U.S. Department of Agriculture (for small streams) are adopted as general basis.

Development of rating curve - Yearly mean rating curve is generally used as a tool in determining the daily flow. Periodically developed rating is frequently used when dictated by the conditions, so that the shifting control could be eliminated or reduced. Zero flow elevation of the rating section is determined by trial and error method with logarithmic plotting of the rating curve. Extension of the logarithmic rating line is frequently used to determine the channel flow at the over bank flow stage. The over bank flow is assessed by either direct velocity measurement or slope - area method whenever applicable.

Determination of daily mean flow - Application of the adjusted daily mean gage height to rating table gives the corresponding daily mean discharge from which the monthly and the yearly mean discharges are computed. Shifting adjustment for observed gage height is made when necessary. Shifting design is made basing on flood stages and times, if any. Other adjustments such as back water, rise and fall of flood, etc., which necessitate the use of other parametric factors, are also made, if any.

At some gauging stations where rises and falls of floods are immediate, hourly basis of gage height application to the rating curve is used to determine daily mean discharge.

At stations where rises and falls of streams are gentle, gage height data are usually obtained by manual reading.

It has been found that application of 1 to 5 times average reading (for daytime) gives an error of daily mean flow not more than 15% for mountainous streams, less than 10% for larger valley streams and not more than 5% for lower deltaic streams. Most of mountainous and valley streams are under recording operation, only deltaic streams that daytime reading are still used.

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The daily mean gage heights are obtained by arithmetic mean of the observed data available. Adjusted gage heights due to shifting, which are applicable to rating curve for daily mean flow computation, are practically made.

It is noted that the daily mean flow are mostly subject to upstream diversion. Headwater utilization of water by people diversions and state-owned diversions are expected in many river basins in this country. Consequently, the virgin flow is hardly determined. Daily mean values may be replaced by the monthly mean in the case of flow measured at tail waters of existing reservoirs.

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

### Review of procedure for stream flow data processing.

Following are steps used for review the overall data before finalizing the process:

1) Checking of gage height data which are obtained either from staff gage or from water stage recorder, for the following cases:

a) Representability of daytime observation for the daily mean value, if the data are from staff gage reading.

b) Discrepancies of recording charts, if any.

c) Desirability of hourly-basis process for daily mean flow.

d) Datum's of gage observation and of the rating curve used.

e) Location of gage from which data are taken and location of gage at which the rating curve is developed.

2) Checking of availability and goodness of field measurement notes.

3) Checking of differential magnitude of gage height during discharge measurement as to which arithmetic average or weighted average is desirable.

4) Checking stability of rating curve used.

5) Review of shifting control sample and design shifting, if any.

6) Adjustment of backwater, flood wave, etc., by rate of change of falls as index, if any.

7) Overall review of daily mean flow data as an end product.

8) Checking consistency of runoff volume among those observed at the upstream and downstream stations, taking into account intervening diversions of flow, if any.

### Classification of stream flow data

The station description states the degree of accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good", less than 10 percent; "fair", less than 15 percent; "poor", probably more than 15 percent.

Future plan for computerization

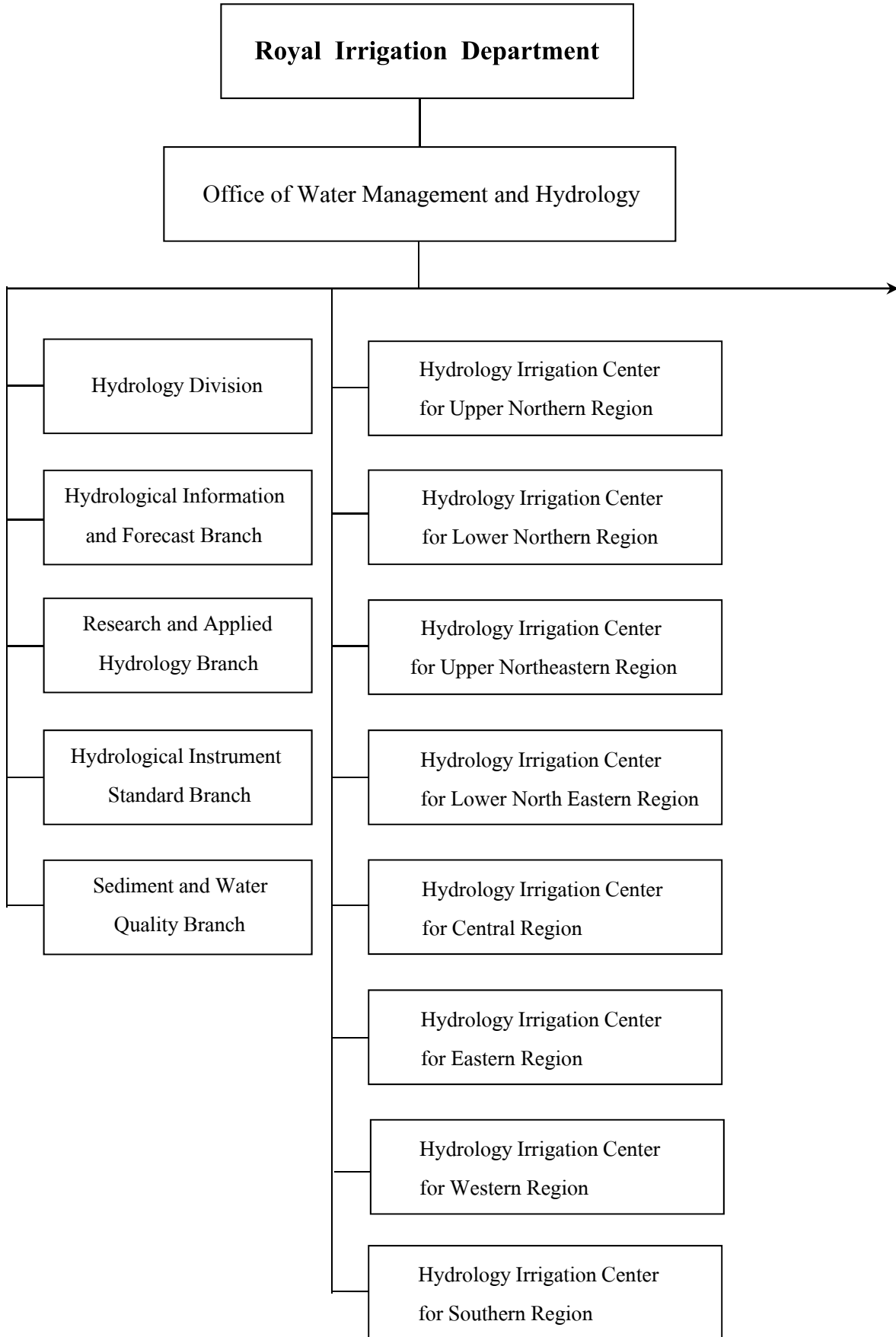
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement with the Asian Institute of Technology (AIT) to study on "Development of Water Resources Information System for Thailand". In the Contract AIT will recommend a standardized procedure to various agencies for collecting and recording hydrometeorological and hydrological data and develop a computer based data storage and retrieval system to process, store, analyze and publish the data furnished by various agencies involved in data collection.

The Water Resources Information System for Thailand (WRIST) package has been designed to provide permanent computer media storage of hydrometeorological and hydrological data in such a form that it can be readily added, to, altered or deleted and also called for analysis and presentation as required. The Indexed Sequential Method has been used for mass storage of the data and the processing and storing system have been designed taking into consideration the data processing schemes followed by the agencies, the probable frequency of retrieval expected and also the order or grouping of data elements differently for different agencies so that the system is best suited and efficient in operation for the current requirements and anticipated uses by the agencies in Thailand. The system will process and store data agency wise. The system is also designed to allow for the inclusion of additional data types if the need arise in the future. IBM 370/145 Computer facility at the AIT Bangkok will be used to develop the WRIST package. Operating programs will be written in ANS COBOL language independent of machine hardware to facilitate machine to machine transferability of the package for medium scale computers. The system has the data retrieval facility in the form of monthly and yearly publication agency wise; raw data and analysis data either in the form of computer printouts or in the direct accessible forms like cards 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 :-



## PARTICIPATION IN STREAM GAUGING WORKS

\* \* \* \* \*

Among 22 water related government agencies, several of them operate stream flow gauging works according to their own purposes. In early 1949 the Hydrology Section was established in the Survey Division of the Royal Irrigation Department. The Section is responsible for its activity in hydrology as prerequisite for water resources development. The activity includes:

(1) Procurement of basic hydrologic data including precipitation, stream flow, sediment, evaporation, etc.

(2) Analyses and research to produce the facts governing the behavior of water, their occurrences, circulation and distribution in its varied forms, their properties and their interaction with other allied factors.

(3) Application to water resources development and management, utilizing basic data and the facts disclosed by analyses and research.

Just one year after the beginning of water storage work, in 1953 there were only 49 discharge stations and 114 stage stations as operated by the Hydrology Section. In February 1975 the Section was separated from the Survey Division and was raised the status to be the Hydrology Division of the Royal Irrigation Department. The present network of stream gauging works contains 221 discharge stations of which 147 are currently operated and 74 are previously calibrated with continuous stage observation while 145 were abandoned, and 315 stage station are currently operated while 232 were abandoned.

After the onset of the Lower Mekong River Basin Development Scheme, the Hydrology Section was also established in the Investigation and Planning Division of the National Energy Administration which is a representative agency of Thai Government in the Lower Mekong Committee. During the period of November 1958 – May 1962, seven hydrologic stations were installed and operated by the Harza Engineering Company contracted by the Agency for International Development of the United States Government. At present the NEA operates about 90 discharge stations and 140 stage stations. A series of yearbooks has also been published.

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

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

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

## UNITS OF MEASURE AND CONVERSION FACTORS

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

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

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<u>Multiply metric or Thai units</u>	<u>By</u>	<u>To obtain English Unit</u>
	<u>Flow</u>	
liters per second (l/s)	.03531	cubic feet per second (ft <sup>3</sup> / s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm <sup>3</sup> / s)	.03531	cubic feet per second (ft <sup>3</sup> / s)
	15.85	gallons per minute (gpm)
	22.82 x 10 <sup>-3</sup>	million gallons per day (mgd)
cubic meters per second (m <sup>3</sup> / s)	35.31	cubic feet per second (ft <sup>3</sup> / s)
	15,850	gallons per minute (gpm)
	22.82	million gallons per day (mgd)

\* \* \* \* \*

# Stream Gauging Data Water Year 2019



## WATER YEAR : 2019

## SALAWIN RIVER BASIN

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

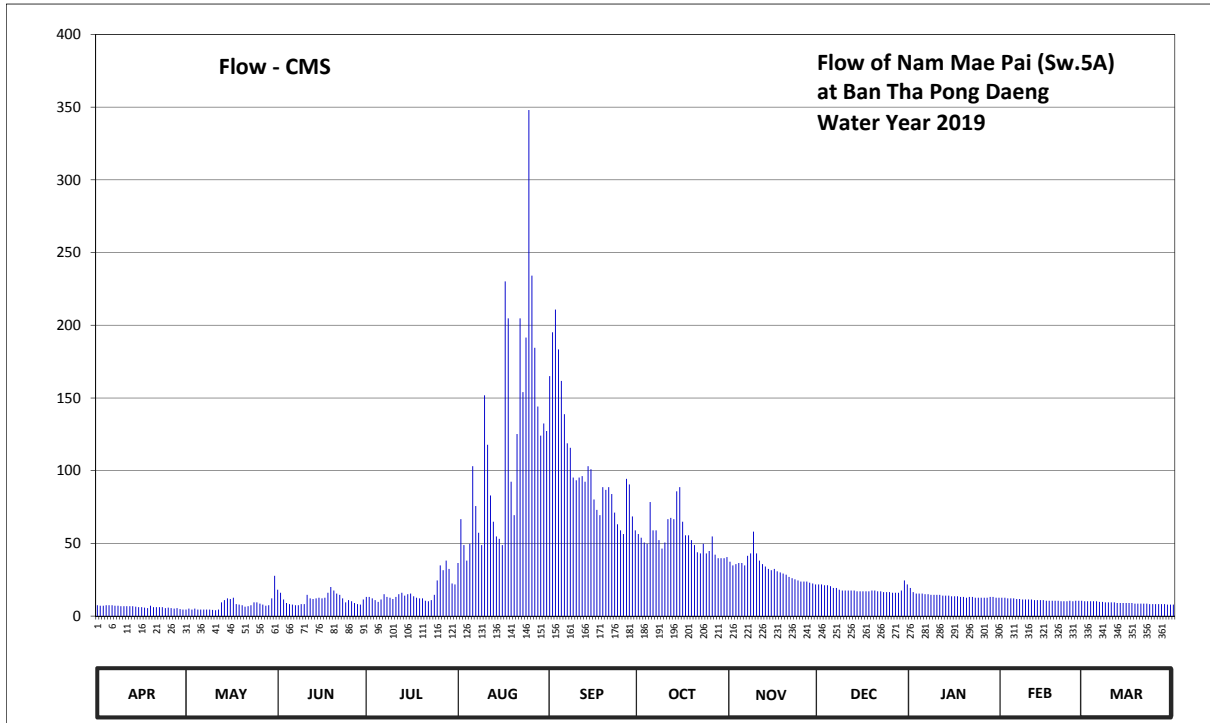
Lat 19 - 16 - 06 N Long 97 - 56 - 55 E

Location : on left bank at Ban Tha Pong Daeng.

	<b>Ban</b>	<b>Tha Pong Daeng</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Mae Hong Son</b>
<b>Drainage Area</b>	4,470	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+175.757 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the station office.				<b>Elevation</b>	+187.423 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1980 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.38	175.29	175.62	175.52	175.87	177.20	176.11	175.88	175.68	175.64	175.51	175.45	
2	175.37	175.31	175.58	175.52	176.23	177.46	176.08	175.85	175.68	175.59	175.51	175.45	
3	175.37	175.29	175.48	175.50	176.02	177.59	176.04	175.86	175.67	175.57	175.50	175.45	
4	175.38	175.31	175.42	175.47	175.89	177.36	176.03	175.87	175.67	175.57	175.50	175.45	
5	175.38	175.29	175.40	175.44	176.03	177.17	176.36	175.87	175.66	175.57	175.50	175.45	
6	175.38	175.29	175.39	175.48	176.62	176.96	176.14	175.85	175.64	175.56	175.49	175.44	
7	175.37	175.29	175.38	175.56	176.33	176.77	176.14	175.93	175.64	175.56	175.49	175.44	
8	175.37	175.29	175.38	175.52	176.12	176.74	176.06	175.95	175.62	175.55	175.48	175.43	
9	175.36	175.29	175.40	175.51	176.02	176.54	175.99	176.13	175.61	175.55	175.48	175.43	
10	175.36	175.28	175.40	175.49	177.08	176.52	176.04	175.95	175.61	175.55	175.48	175.43	
11	175.36	175.27	175.55	175.52	176.76	176.54	176.23	175.89	175.61	175.55	175.48	175.43	
12	175.36	175.29	175.50	175.56	176.41	176.55	176.24	175.86	175.61	175.54	175.47	175.42	
13	175.36	175.43	175.49	175.58	176.21	176.51	176.23	175.84	175.61	175.54	175.47	175.42	
14	175.35	175.47	175.50	175.54	176.09	176.62	176.44	175.82	175.60	175.54	175.47	175.42	
15	175.34	175.50	175.51	175.56	176.07	176.60	176.47	175.81	175.60	175.53	175.47	175.42	
16	175.34	175.49	175.50	175.57	176.02	176.38	176.21	175.82	175.60	175.53	175.46	175.42	
17	175.33	175.51	175.51	175.53	177.74	176.30	176.10	175.80	175.60	175.53	175.46	175.42	
18	175.32	175.40	175.58	175.51	177.54	176.26	176.10	175.79	175.60	175.52	175.46	175.41	
19	175.37	175.39	175.65	175.50	176.51	176.47	176.06	175.78	175.61	175.52	175.46	175.41	
20	175.34	175.38	175.61	175.50	176.26	176.45	176.02	175.77	175.61	175.51	175.46	175.41	
21	175.34	175.35	175.57	175.46	176.83	176.47	175.96	175.75	175.60	175.52	175.45	175.41	
22	175.34	175.36	175.55	175.45	177.54	176.42	175.95	175.74	175.60	175.52	175.45	175.41	
23	175.34	175.38	175.50	175.47	177.10	176.28	176.03	175.73	175.59	175.51	175.45	175.40	
24	175.32	175.43	175.43	175.55	177.43	176.19	175.95	175.72	175.59	175.51	175.46	175.40	
25	175.33	175.43	175.47	175.72	178.60	176.14	175.97	175.71	175.59	175.51	175.45	175.40	
26	175.32	175.41	175.45	175.85	177.77	176.11	176.09	175.71	175.58	175.51	175.46	175.40	
27	175.31	175.39	175.42	175.81	177.37	176.53	175.94	175.71	175.58	175.51	175.46	175.40	
28	175.32	175.37	175.40	175.89	177.01	176.49	175.91	175.70	175.58	175.52	175.46	175.40	
29	175.30	175.38	175.39	175.82	176.82	176.25	175.91	175.69	175.61	175.52	175.46	175.39	
30	175.29	175.50	175.48	175.69	176.90	176.14	175.91	175.68	175.72	175.51	175.45	175.39	
31		175.76		175.68	176.85		175.92		175.68	175.51		175.39	
Mean	175.35	175.38	175.48	175.57	176.71	176.60	176.08	175.82	175.62	175.54	175.47	175.42	
Max	175.38	175.76	175.65	175.89	178.60	177.59	176.47	176.13	175.72	175.64	175.51	175.45	178.60
Min	175.29	175.27	175.38	175.44	175.87	176.11	175.91	175.68	175.58	175.51	175.45	175.39	175.27
Annual Max Momentary Gage Height	179.01		m. (MSL.) ,				at 06.00 Hours ,						on Aug 25 , 2019
Zero Gage at Bottom Elevation	175.76		m. (MSL.) ,			River Bed	174.83		m. (MSL.)				
Left Bank Elevation		183.82		m. (MSL.) ,									
Right Bank Elevation		180.61		m. (MSL.) ,		Drainage Are	4,470		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.52	4.54	18.20	13.16	36.54	165.00	56.44	37.36	21.80	19.40	12.68	10.20		
2	7.18	5.14	16.04	13.16	66.70	195.20	53.92	34.90	21.80	16.52	12.68	10.20		
3	7.18	4.54	11.40	12.20	48.88	210.80	50.56	35.72	21.20	15.56	12.20	10.20		
4	7.52	5.14	9.00	11.00	38.18	183.40	49.72	36.54	21.20	15.56	12.20	10.20		
5	7.52	4.54	8.20	9.80	49.72	161.70	78.40	36.54	20.60	15.56	12.20	10.20		
6	7.52	4.54	7.86	11.40	103.10	138.80	58.96	34.90	19.40	15.08	11.80	9.80		
7	7.18	4.54	7.52	15.08	75.70	118.85	58.96	41.46	19.40	15.08	11.80	9.80		
8	7.18	4.54	7.52	13.16	57.28	115.70	52.24	43.10	18.20	14.60	11.40	9.40		
9	6.84	4.54	8.20	12.68	48.88	95.30	46.38	58.12	17.60	14.60	11.40	9.40		
10	6.84	4.28	8.20	11.80	151.80	93.40	50.56	43.10	17.60	14.60	11.40	9.40		
11	6.84	4.02	14.60	13.16	117.80	95.30	66.70	38.18	17.60	14.60	11.40	9.40		
12	6.84	4.54	12.20	15.08	82.95	96.25	67.60	35.72	17.60	14.12	11.00	9.00		
13	6.84	9.40	11.80	16.04	64.90	92.45	66.70	34.08	17.60	14.12	11.00	9.00		
14	6.50	11.00	12.20	14.12	54.76	103.10	85.80	32.44	17.00	14.12	11.00	9.00		
15	6.16	12.20	12.68	15.08	53.08	101.00	88.65	31.62	17.00	13.64	11.00	9.00		
16	6.16	11.80	12.20	15.56	48.88	80.20	64.90	32.44	17.00	13.64	10.60	9.00		
17	5.82	12.68	12.68	13.64	230.20	73.00	55.60	30.80	17.00	13.64	10.60	9.00		
18	5.48	8.20	16.04	12.68	204.80	69.40	55.60	30.02	17.00	13.16	10.60	8.60		
19	7.18	7.86	20.00	12.20	92.45	88.65	52.24	29.24	17.60	13.16	10.60	8.60		
20	6.16	7.52	17.60	12.20	69.40	86.75	48.88	28.46	17.60	12.68	10.60	8.60		
21	6.16	6.50	15.56	10.60	125.15	88.65	43.92	26.90	17.00	13.16	10.20	8.60		
22	6.16	6.84	14.60	10.20	204.80	83.90	43.10	26.12	17.00	13.16	10.20	8.60		
23	6.16	7.52	12.20	11.00	154.00	71.20	49.72	25.34	16.52	12.68	10.20	8.20		
24	5.48	9.40	9.40	14.60	191.60	63.16	43.10	24.56	16.52	12.68	10.60	8.20		
25	5.82	9.40	11.00	24.56	348.00	58.96	44.74	23.78	16.52	12.68	10.20	8.20		
26	5.48	8.60	10.20	34.90	234.10	56.44	54.76	23.78	16.04	12.68	10.60	8.20		
27	5.14	7.86	9.00	31.62	184.55	94.35	42.28	23.78	16.04	12.68	10.60	8.20		
28	5.48	7.18	8.20	38.18	144.10	90.55	39.82	23.00	16.04	13.16	10.60	8.20		
29	4.80	7.52	7.86	32.44	124.10	68.50	39.82	22.40	17.60	13.16	10.60	7.86		
30	4.54	12.20	11.40	22.40	132.50	58.96	39.82	21.80	24.56	12.68		7.86		
31		27.68		21.80	127.25		40.64		21.80	12.68		7.86		
<b>Total</b>	<b>191.68</b>	<b>246.26</b>	<b>353.56</b>	<b>515.50</b>	<b>3666.15</b>	<b>3098.92</b>	<b>1690.53</b>	<b>966.20</b>	<b>567.44</b>	<b>434.84</b>	<b>321.96</b>	<b>277.98</b>	<b>12331.02</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>6.39</b>	<b>7.94</b>	<b>11.79</b>	<b>16.63</b>	<b>118.26</b>	<b>103.30</b>	<b>54.53</b>	<b>32.21</b>	<b>18.30</b>	<b>14.03</b>	<b>11.10</b>	<b>8.97</b>	<b>33.69</b>	<b>CMS</b>
<b>Max</b>	<b>7.52</b>	<b>27.68</b>	<b>20.00</b>	<b>38.18</b>	<b>348.00</b>	<b>210.80</b>	<b>88.65</b>	<b>58.12</b>	<b>24.56</b>	<b>19.40</b>	<b>12.68</b>	<b>10.20</b>	<b>348.00</b>	<b>CMS</b>
<b>Min</b>	<b>4.54</b>	<b>4.02</b>	<b>7.52</b>	<b>9.80</b>	<b>36.54</b>	<b>56.44</b>	<b>39.82</b>	<b>21.80</b>	<b>16.04</b>	<b>12.68</b>	<b>10.20</b>	<b>7.86</b>	<b>4.02</b>	<b>CMS</b>
<b>Runoff</b>	<b>16.56</b>	<b>21.28</b>	<b>30.55</b>	<b>44.54</b>	<b>316.76</b>	<b>267.75</b>	<b>146.06</b>	<b>83.48</b>	<b>49.03</b>	<b>37.57</b>	<b>27.82</b>	<b>24.02</b>	<b>1065.40</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>406.45 CMS. at 179.01 m. (MSL.) at 06.00 Hours , on Aug 25 , 2019</b>													
<b>Runoff Yield</b>	<b>7.56 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>91.01 Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## SALAWIN RIVER BASIN

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

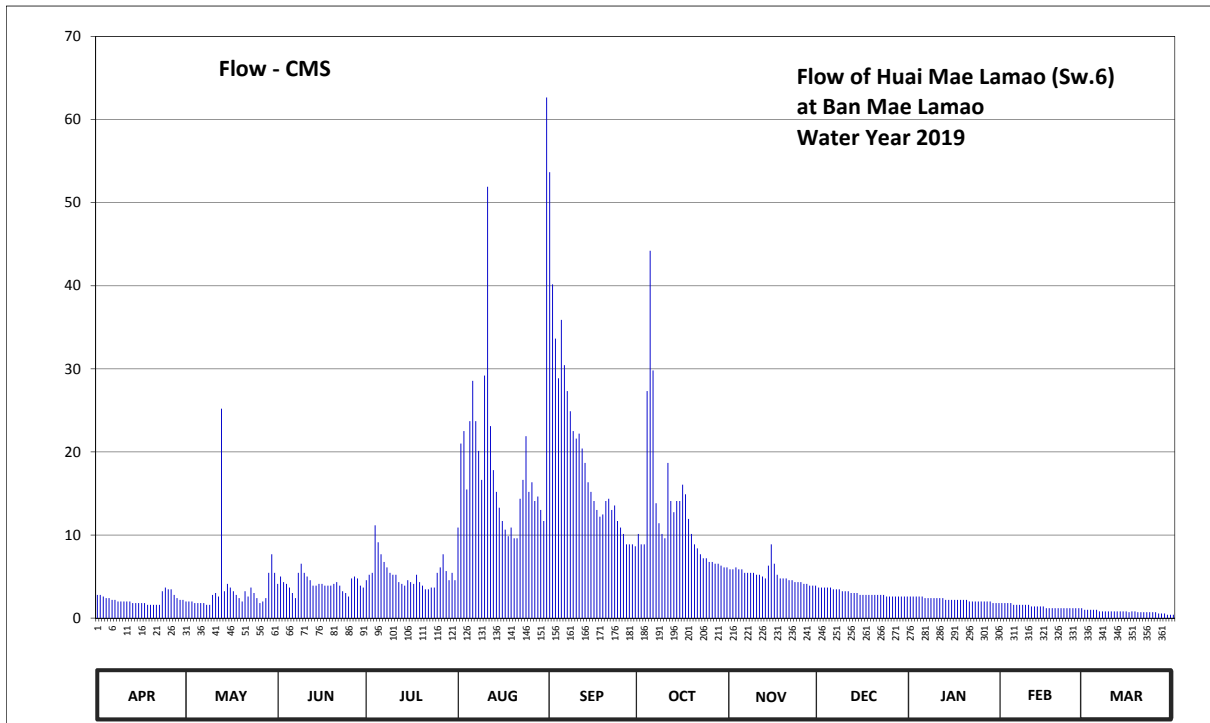
Lat 16 - 45 - 36 N Long 98 - 45 - 16 E

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

	Ban Mae Lamao	Amphoe Mae Sot	Changwat Tak
<b>Drainage Area</b>	1,009 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+268.470 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 6.25 meters from the automatic gage buiding.	<b>Elevation</b>	+278.846 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1971 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1971 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.60	268.56	268.66	268.68	268.95	270.31	268.92	268.74	268.64	268.59	268.55	268.51	
2	268.60	268.56	268.70	268.71	269.31	269.92	268.87	268.74	268.64	268.59	268.55	268.51	
3	268.59	268.56	268.67	268.72	269.36	269.72	268.87	268.75	268.64	268.59	268.55	268.51	
4	268.58	268.55	268.66	268.96	269.12	269.57	269.52	268.74	268.64	268.59	268.55	268.51	
5	268.58	268.55	268.64	268.88	269.40	269.79	270.04	268.74	268.64	268.59	268.54	268.51	
6	268.57	268.55	268.61	268.82	269.56	269.62	269.60	268.72	268.63	268.58	268.54	268.50	
7	268.57	268.55	268.58	268.78	269.40	269.52	269.06	268.72	268.63	268.58	268.54	268.50	
8	268.56	268.54	268.72	268.75	269.28	269.44	268.97	268.72	268.63	268.58	268.54	268.50	
9	268.56	268.54	268.77	268.72	269.16	269.36	268.92	268.72	268.62	268.58	268.54	268.50	
10	268.56	268.60	268.72	268.71	269.58	269.33	268.90	268.71	268.62	268.58	268.54	268.50	
11	268.56	268.61	268.70	268.71	270.26	269.35	269.23	268.71	268.62	268.58	268.53	268.50	
12	268.56	268.59	268.68	268.67	269.38	269.29	269.07	268.70	268.61	268.58	268.53	268.50	
13	268.55	269.45	268.65	268.66	269.20	269.23	269.02	268.69	268.61	268.57	268.53	268.50	
14	268.55	268.62	268.65	268.65	269.11	269.15	269.07	268.76	268.61	268.57	268.53	268.50	
15	268.55	268.66	268.66	268.68	269.04	269.11	269.07	268.87	268.60	268.57	268.53	268.50	
16	268.55	268.64	268.66	268.67	268.98	269.07	269.14	268.77	268.60	268.57	268.52	268.49	
17	268.55	268.62	268.65	268.66	268.94	269.03	269.10	268.71	268.60	268.57	268.52	268.50	
18	268.54	268.60	268.65	268.71	268.91	269.00	268.99	268.69	268.60	268.57	268.52	268.50	
19	268.54	268.58	268.65	268.67	268.95	269.01	268.92	268.69	268.60	268.57	268.52	268.49	
20	268.54	268.56	268.66	268.65	268.90	269.07	268.87	268.69	268.60	268.57	268.52	268.49	
21	268.54	268.62	268.67	268.63	268.90	269.08	268.85	268.68	268.60	268.56	268.52	268.49	
22	268.54	268.59	268.65	268.63	269.08	269.03	268.82	268.68	268.60	268.56	268.52	268.49	
23	268.62	268.64	268.62	268.64	269.16	269.05	268.80	268.67	268.60	268.56	268.52	268.49	
24	268.64	268.61	268.61	268.64	269.34	268.98	268.80	268.67	268.59	268.56	268.52	268.49	
25	268.63	268.58	268.59	268.72	269.11	268.95	268.78	268.67	268.59	268.56	268.52	268.49	
26	268.63	268.55	268.69	268.75	269.15	268.92	268.78	268.66	268.59	268.56	268.52	268.47	
27	268.60	268.56	268.70	268.82	269.07	268.87	268.77	268.66	268.59	268.56	268.52	268.47	
28	268.58	268.58	268.69	268.73	269.09	268.87	268.77	268.65	268.59	268.56	268.52	268.47	
29	268.57	268.72	268.65	268.68	269.03	268.87	268.76	268.65	268.59	268.55	268.51	268.45	
30	268.57	268.82	268.64	268.72	268.98	268.86	268.75	268.65	268.59	268.55	268.51	268.45	
31		268.72		268.68	270.56		268.75		268.59	268.55		268.45	
Mean	268.57	268.63	268.66	268.71	269.23	269.25	268.99	268.71	268.61	268.57	268.53	268.49	
Max	268.64	269.45	268.77	268.96	270.56	270.31	270.04	268.87	268.64	268.59	268.55	268.51	270.56
Min	268.54	268.54	268.58	268.63	268.90	268.86	268.75	268.65	268.59	268.55	268.51	268.45	268.45
Annual Max Momentary Gage Height	271.20		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	268.47		m. (MSL.) ,			River Bed	267.32	m. (MSL.)					
Left Bank Elevation		281.33		m. (MSL.) ,									
Right Bank Elevation		281.36		m. (MSL.) ,		Drainage Are	1,009	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	2.00	4.12	4.56	10.90	53.66	10.12	5.88	3.68	2.60	1.80	1.00	
2	2.80	2.00	5.00	5.22	21.00	40.16	8.88	5.88	3.68	2.60	1.80	1.00	
3	2.60	2.00	4.34	5.44	22.50	33.64	8.88	6.10	3.68	2.60	1.80	1.00	
4	2.40	1.80	4.12	11.16	15.48	28.87	27.32	5.88	3.68	2.60	1.80	1.00	
5	2.40	1.80	3.68	9.12	23.70	35.88	44.20	5.88	3.68	2.60	1.60	1.00	
6	2.20	1.80	3.02	7.68	28.56	30.44	29.80	5.44	3.46	2.40	1.60	0.80	
7	2.20	1.80	2.40	6.76	23.70	27.32	13.82	5.44	3.46	2.40	1.60	0.80	
8	2.00	1.60	5.44	6.10	20.12	24.90	11.42	5.44	3.46	2.40	1.60	0.80	
9	2.00	1.60	6.54	5.44	16.64	22.50	10.12	5.44	3.24	2.40	1.60	0.80	
10	2.00	2.80	5.44	5.22	29.18	21.60	9.60	5.22	3.24	2.40	1.60	0.80	
11	2.00	3.02	5.00	5.22	51.90	22.20	18.67	5.22	3.24	2.40	1.40	0.80	
12	2.00	2.60	4.56	4.34	23.10	20.41	14.09	5.00	3.02	2.40	1.40	0.80	
13	1.80	25.20	3.90	4.12	17.80	18.67	12.74	4.78	3.02	2.20	1.40	0.80	
14	1.80	3.24	3.90	3.90	15.19	16.35	14.09	6.32	3.02	2.20	1.40	0.80	
15	1.80	4.12	4.12	4.56	13.28	15.19	14.09	8.88	2.80	2.20	1.40	0.80	
16	1.80	3.68	4.12	4.34	11.68	14.09	16.06	6.54	2.80	2.20	1.20	0.72	
17	1.80	3.24	3.90	4.12	10.64	13.01	14.90	5.22	2.80	2.20	1.20	0.80	
18	1.60	2.80	3.90	5.22	9.86	12.20	11.94	4.78	2.80	2.20	1.20	0.80	
19	1.60	2.40	3.90	4.34	10.90	12.47	10.12	4.78	2.80	2.20	1.20	0.72	
20	1.60	2.00	4.12	3.90	9.60	14.09	8.88	4.78	2.80	2.20	1.20	0.72	
21	1.60	3.24	4.34	3.46	9.60	14.36	8.40	4.56	2.80	2.00	1.20	0.72	
22	1.60	2.60	3.90	3.46	14.36	13.01	7.68	4.56	2.80	2.00	1.20	0.72	
23	3.24	3.68	3.24	3.68	16.64	13.55	7.20	4.34	2.80	2.00	1.20	0.72	
24	3.68	3.02	3.02	3.68	21.90	11.68	7.20	4.34	2.60	2.00	1.20	0.72	
25	3.46	2.40	2.60	5.44	15.19	10.90	6.76	4.34	2.60	2.00	1.20	0.72	
26	3.46	1.80	4.78	6.10	16.35	10.12	6.76	4.12	2.60	2.00	1.20	0.56	
27	2.80	2.00	5.00	7.68	14.09	8.88	6.54	4.12	2.60	2.00	1.20	0.56	
28	2.40	2.40	4.78	5.66	14.63	8.88	6.54	3.90	2.60	2.00	1.20	0.56	
29	2.20	5.44	3.90	4.56	13.01	8.88	6.32	3.90	2.60	1.80	1.00	0.40	
30	2.20	7.68	3.68	5.44	11.68	8.64	6.10	3.90	2.60	1.80	1.00	0.40	
31		5.44		4.56	62.66		6.10		2.60	1.80		0.40	
Total	67.84	111.20	124.76	164.48	595.84	586.55	385.34	154.98	93.56	68.80	40.40	23.24	2416.99 CMSDAY
Mean	2.26	3.59	4.16	5.31	19.22	19.55	12.43	5.17	3.02	2.22	1.39	0.75	6.60 CMS
Max	3.68	25.20	6.54	11.16	62.66	53.66	44.20	8.88	3.68	2.60	1.80	1.00	62.66 CMS
Min	1.60	1.60	2.40	3.46	9.60	8.64	6.10	3.90	2.60	1.80	1.00	0.40	0.40 CMS
Runoff	5.86	9.61	10.78	14.21	51.48	50.68	33.29	13.39	8.08	5.94	3.49	2.01	208.83 MCM
Momentary Peak	86.90	CMS.	at 271.20 m. (MSL.)	at 18.00 Hours	on Aug 31, 2019								
Runoff Yield	6.56	Liters/Second/Square KM.		Momentary Peak Yield	86.12	Liters/Second/Square KM.							

## WATER YEAR : 2019

## KHONG RIVER BASIN

## Nam Kam at Ban Nong Sala, Sakon Nakhon (Kh.9A)

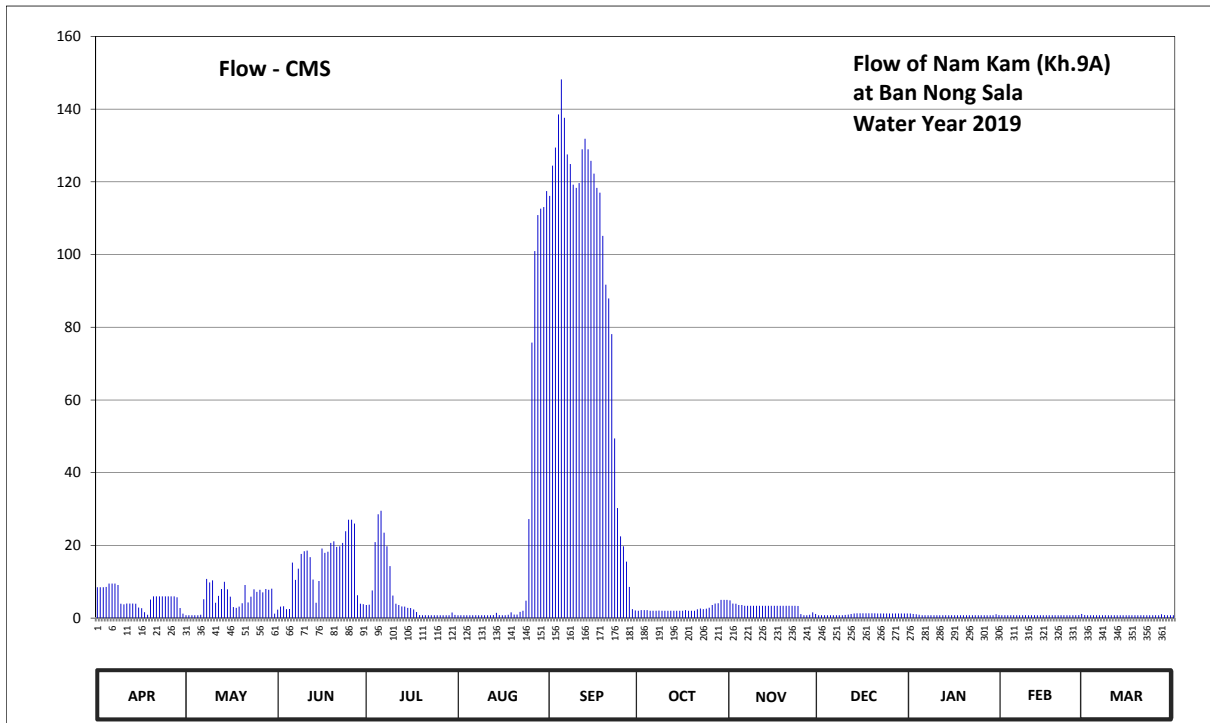
Lat 17 - 08 - 50 N Long 104 - 17 - 24 E

Location : on right bank Ban Nong Sala.

	<b>Ban Nong Sala</b>	<b>Amphoe</b> Phon Na Kaeo	<b>Changwat</b> Sakon Nakhon
<b>Drainage Area</b>	163,289 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+150.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+159.635 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2019 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2019 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2019 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +155.670 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.25	151.00	151.38	151.70	151.00	156.23	151.31	151.89	151.00	151.12	151.00	151.01	
2	152.25	151.00	151.59	151.72	151.00	156.42	151.35	151.80	151.00	151.09	151.00	151.00	
3	152.25	151.00	151.61	152.16	151.00	156.53	151.35	151.79	151.00	151.06	151.00	151.00	
4	152.26	151.00	151.42	153.25	151.00	156.72	151.35	151.70	151.00	151.03	151.00	151.00	
5	152.35	151.00	151.43	153.62	151.00	156.92	151.30	151.70	151.00	151.00	151.00	151.00	
6	152.35	151.03	152.89	153.66	151.00	156.70	151.30	151.65	151.00	151.00	151.00	151.00	
7	152.35	151.92	152.45	153.38	151.00	156.49	151.30	151.65	151.00	151.00	151.00	151.00	
8	152.31	152.48	152.76	153.19	151.00	156.43	151.32	151.65	151.00	151.00	151.00	151.00	
9	151.79	152.38	153.05	152.82	151.00	156.30	151.30	151.65	151.00	151.00	151.00	151.00	
10	151.75	152.44	153.10	152.02	151.00	156.28	151.30	151.65	151.02	151.00	151.00	151.00	
11	151.80	151.82	153.11	151.79	151.00	156.31	151.30	151.65	151.04	151.00	151.00	151.00	
12	151.80	152.01	152.99	151.70	151.00	156.52	151.30	151.65	151.08	151.00	151.00	151.00	
13	151.80	152.20	152.46	151.60	151.01	156.58	151.30	151.65	151.12	151.00	151.00	151.00	
14	151.79	152.40	151.82	151.59	151.16	156.52	151.30	151.65	151.13	151.00	151.00	151.00	
15	151.52	152.19	152.42	151.50	151.01	156.45	151.30	151.65	151.13	151.00	151.00	151.00	
16	151.48	151.99	153.15	151.49	151.00	156.37	151.31	151.65	151.13	151.00	151.00	151.00	
17	151.21	151.56	153.07	151.39	151.00	156.28	151.35	151.65	151.13	151.00	151.00	151.00	
18	151.03	151.50	153.09	151.22	151.03	156.25	151.30	151.65	151.13	151.00	151.00	151.00	
19	151.91	151.59	153.24	151.01	151.20	155.98	151.30	151.65	151.13	151.00	151.00	151.00	
20	152.00	151.81	153.26	151.00	151.04	155.66	151.31	151.65	151.13	151.00	151.00	151.00	
21	152.00	152.31	153.18	151.00	151.04	155.57	151.40	151.65	151.12	151.00	151.00	151.00	
22	152.00	151.83	153.19	151.00	151.23	155.30	151.46	151.65	151.12	151.00	151.00	151.00	
23	152.00	151.99	153.24	151.00	151.30	154.41	151.41	151.65	151.12	151.00	151.00	151.00	
24	152.00	152.19	153.40	151.00	151.88	153.69	151.45	151.64	151.12	151.00	151.00	151.00	
25	152.00	152.12	153.55	151.00	153.56	153.33	151.51	151.07	151.12	151.00	151.00	151.00	
26	152.00	152.18	153.55	151.00	155.23	153.19	151.70	151.00	151.12	151.00	151.00	151.00	
27	152.00	152.11	153.50	151.00	155.88	152.91	151.80	151.00	151.12	151.00	151.01	151.06	
28	151.97	152.20	152.03	151.00	156.11	152.26	151.81	151.03	151.12	151.00	151.08	151.01	
29	151.49	152.18	151.79	151.00	156.15	151.41	151.90	151.19	151.12	151.00	151.09	151.00	
30	151.11	152.21	151.76	151.18	156.16	151.33	151.90	151.08	151.12	151.06	151.00	151.00	
31		151.11		151.02	156.26		151.90		151.12	151.01		151.00	
Mean	151.89	151.83	152.65	151.71	152.10	155.38	151.44	151.55	151.08	151.01	151.01	151.00	
Max	152.35	152.48	153.55	153.66	156.26	156.92	151.90	151.89	151.13	151.12	151.09	151.06	156.92
Min	151.03	151.00	151.38	151.00	151.00	151.33	151.30	151.00	151.00	151.00	151.00	151.00	151.00
Annual Max Momentary Gage Height	157.04		m. (MSL.) ,				at 15.00 Hours , on Sep 5 , 2019						
Zero Gage at Bottom Elevation	150.00		m. (MSL.) ,			River Bed	150.03	m. (MSL.)					
Left Bank Elevation		157.51		m. (MSL.) ,									
Right Bank Elevation		155.66		m. (MSL.) ,		Drainage Are	163,289	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.50	0.80	2.32	3.60	0.80	116.12	2.04	4.90	0.80	1.28	0.80	0.84	
2	8.50	0.80	3.16	3.68	0.80	124.48	2.20	4.00	0.80	1.16	0.80	0.80	
3	8.50	0.80	3.24	7.60	0.80	129.44	2.20	3.96	0.80	1.04	0.80	0.80	
4	8.60	0.80	2.48	20.90	0.80	138.56	2.20	3.60	0.80	0.92	0.80	0.80	
5	9.50	0.80	2.52	28.58	0.80	148.16	2.00	3.60	0.80	0.80	0.80	0.80	
6	9.50	0.92	15.26	29.54	0.80	137.60	2.00	3.40	0.80	0.80	0.80	0.80	
7	9.50	5.20	10.50	23.50	0.80	127.56	2.00	3.40	0.80	0.80	0.80	0.80	
8	9.10	10.80	13.60	19.75	0.80	124.92	2.08	3.40	0.80	0.80	0.80	0.80	
9	3.96	9.80	17.65	14.28	0.80	119.20	2.00	3.40	0.80	0.80	0.80	0.80	
10	3.80	10.40	18.40	6.20	0.80	118.32	2.00	3.40	0.88	0.80	0.80	0.80	
11	4.00	4.20	18.55	3.96	0.80	119.64	2.00	3.40	0.96	0.80	0.80	0.80	
12	4.00	6.10	16.75	3.60	0.80	128.96	2.00	3.40	1.12	0.80	0.80	0.80	
13	4.00	8.00	10.60	3.20	0.84	131.84	2.00	3.40	1.28	0.80	0.80	0.80	
14	3.96	10.00	4.20	3.16	1.44	128.96	2.00	3.40	1.32	0.80	0.80	0.80	
15	2.88	7.90	10.20	2.80	0.84	125.80	2.00	3.40	1.32	0.80	0.80	0.80	
16	2.72	5.90	19.15	2.76	0.80	122.28	2.04	3.40	1.32	0.80	0.80	0.80	
17	1.64	3.04	17.95	2.36	0.80	118.32	2.20	3.40	1.32	0.80	0.80	0.80	
18	0.92	2.80	18.25	1.68	0.92	117.00	2.00	3.40	1.32	0.80	0.80	0.80	
19	5.10	3.16	20.70	0.84	1.60	105.16	2.00	3.40	1.32	0.80	0.80	0.80	
20	6.00	4.10	21.10	0.80	0.96	91.72	2.04	3.40	1.32	0.80	0.80	0.80	
21	6.00	9.10	19.60	0.80	0.96	87.94	2.40	3.40	1.28	0.80	0.80	0.80	
22	6.00	4.30	19.75	0.80	1.72	78.10	2.64	3.40	1.28	0.80	0.80	0.80	
23	6.00	5.90	20.70	0.80	2.00	49.41	2.44	3.40	1.28	0.80	0.80	0.80	
24	6.00	7.90	23.90	0.80	4.80	30.26	2.60	3.36	1.28	0.80	0.80	0.80	
25	6.00	7.20	27.05	0.80	27.26	22.50	2.84	1.08	1.28	0.80	0.80	0.80	
26	6.00	7.80	27.05	0.80	75.79	19.75	3.60	0.80	1.28	0.80	0.80	0.80	
27	6.00	7.10	26.00	0.80	100.96	15.55	4.00	0.80	1.28	0.80	0.84	1.04	
28	5.70	8.00	6.30	0.80	110.84	8.60	4.10	0.92	1.28	0.80	1.12	0.84	
29	2.76	7.80	3.96	0.80	112.60	2.44	5.00	1.56	1.28	0.80	1.16	0.80	
30	1.24	8.10	3.84	1.52	113.04	2.12	5.00	1.12	1.28	1.04		0.80	
31		1.24		0.88	117.44		5.00		1.28	0.84		0.80	
Total	166.38	170.76	424.73	192.39	685.21	2790.71	80.62	90.90	34.76	26.28	23.92	25.12	4711.78 CMSDAY
Mean	5.55	5.51	14.16	6.21	22.10	93.02	2.60	3.03	1.12	0.85	0.82	0.81	12.87 CMS
Max	9.50	10.80	27.05	29.54	117.44	148.16	5.00	4.90	1.32	1.28	1.16	1.04	148.16 CMS
Min	0.92	0.80	2.32	0.80	0.80	2.12	2.00	0.80	0.80	0.80	0.80	0.80	0.80 CMS
Runoff	14.38	14.75	36.70	16.62	59.20	241.12	6.97	7.85	3.00	2.27	2.07	2.17	407.10 MCM
Momentary Peak	153.92 CMS. at 157.04 m. (MSL.) at 15.00 Hours , on Sep 5, 2019												
Runoff Yield	0.08 Liters/Second/Square KM.			Momentary Peak Yield			0.94 Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

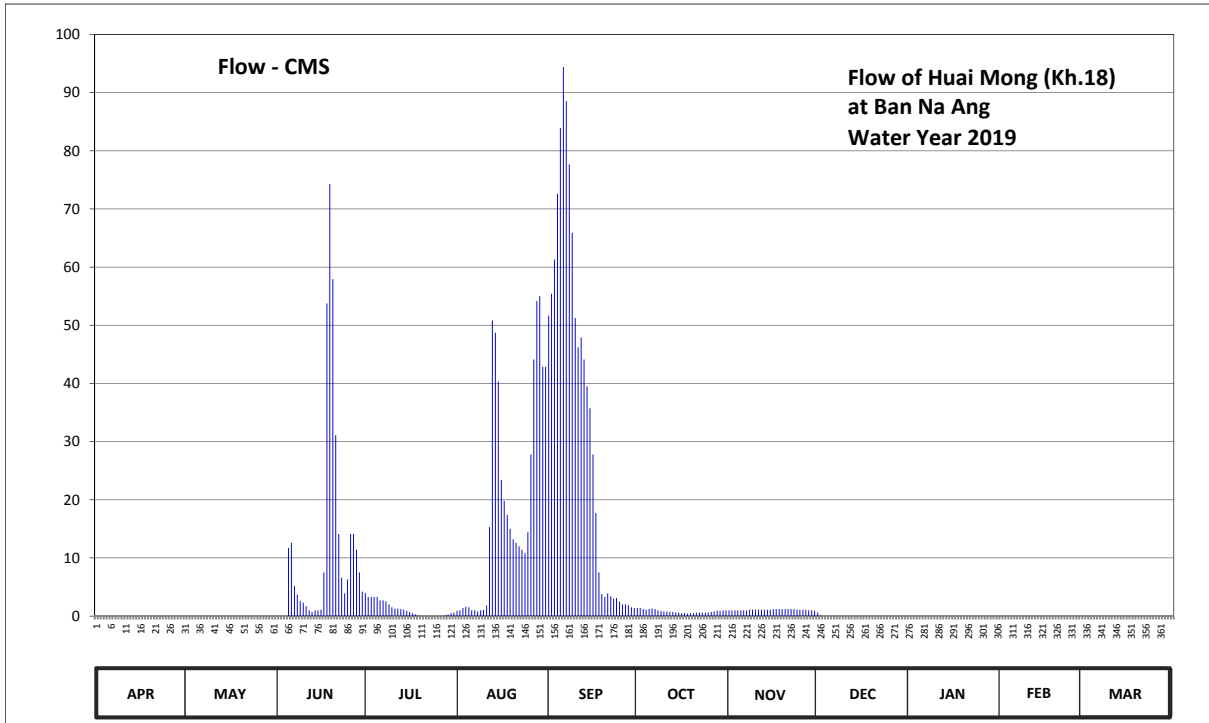
Lat 17 - 34 - 41 N Long 102 - 20 - 22 E

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
<b>Drainage Area</b>	1,309 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+183.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.		<b>Elevation</b> +189.872 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1957 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.31	184.11	184.03	186.00	185.69	187.36	185.74	185.70	185.66	185.46	183.60	183.40	
2	184.31	184.10	184.10	185.93	185.70	187.45	185.74	185.70	185.61	185.38	183.56	183.41	
3	184.30	184.10	184.13	185.93	185.74	187.59	185.72	185.70	185.55	185.30	183.51	183.41	
4	184.30	184.09	184.31	185.93	185.76	187.86	185.71	185.70	185.50	185.23	183.47	183.41	
5	184.29	184.09	186.29	185.93	185.75	188.13	185.72	185.70	185.45	185.15	183.43	183.42	
6	184.29	184.08	186.32	185.87	185.70	188.38	185.73	185.70	185.39	185.07	183.40	183.42	
7	184.28	184.08	186.06	185.87	185.70	188.24	185.72	185.70	185.34	185.00	183.40	183.42	
8	184.27	184.08	185.97	185.85	185.68	187.98	185.70	185.71	185.30	184.92	183.40	183.43	
9	184.26	184.07	185.86	185.80	185.70	187.70	185.69	185.71	185.29	184.84	183.40	183.43	
10	184.26	184.07	185.83	185.75	185.71	187.35	185.68	185.71	185.30	184.77	183.40	183.43	
11	184.25	184.07	185.77	185.73	185.78	187.23	185.68	185.71	185.31	184.69	183.40	183.44	
12	184.24	184.06	185.70	185.73	186.41	187.27	185.67	185.71	185.32	184.61	183.40	183.44	
13	184.23	184.06	185.67	185.72	187.34	187.18	185.67	185.71	185.33	184.53	183.40	183.44	
14	184.22	184.05	185.70	185.71	187.29	187.07	185.66	185.71	185.34	184.46	183.40	183.45	
15	184.21	184.05	185.70	185.69	187.09	186.98	185.66	185.71	185.35	184.38	183.40	183.45	
16	184.20	184.04	185.71	185.67	186.68	186.79	185.65	185.72	185.36	184.30	183.40	183.45	
17	184.19	184.04	186.15	185.65	186.56	186.49	185.65	185.72	185.37	184.22	183.40	183.46	
18	184.18	184.04	187.41	185.63	186.48	186.15	185.64	185.72	185.37	184.15	183.40	183.46	
19	184.17	184.03	187.90	185.61	186.40	185.98	185.65	185.72	185.38	184.07	183.40	183.46	
20	184.16	184.03	187.51	185.59	186.34	185.93	185.65	185.72	185.38	184.00	183.40	183.46	
21	184.15	184.02	186.87	185.57	186.32	185.99	185.66	185.72	185.39	183.92	183.40	183.47	
22	184.15	184.02	186.37	185.55	186.30	185.94	185.66	185.72	185.39	183.84	183.40	183.47	
23	184.14	184.01	186.12	185.52	186.28	185.90	185.66	185.72	185.40	183.77	183.40	183.47	
24	184.13	184.01	185.99	185.56	186.26	185.91	185.66	185.71	185.41	183.67	183.40	183.47	
25	184.13	184.01	186.11	185.57	186.38	185.85	185.66	185.71	185.42	183.64	183.40	183.46	
26	184.12	184.01	186.37	185.58	186.79	185.80	185.67	185.71	185.42	183.64	183.40	183.45	
27	184.12	184.00	186.37	185.59	187.18	185.80	185.68	185.71	185.43	183.64	183.40	183.44	
28	184.11	184.00	186.28	185.61	187.42	185.79	185.69	185.70	185.44	183.63	183.40	183.43	
29	184.11	183.99	186.15	185.63	187.44	185.75	185.69	185.70	185.45	183.63	183.40	183.42	
30	184.11	183.99	186.01	185.65	187.15	185.74	185.70	185.69	185.46	183.62	183.40	183.40	
31		184.00		185.66	187.15		185.70		185.47	183.62		183.40	
Mean	184.21	184.05	185.96	185.71	186.39	186.79	185.68	185.71	185.41	184.36	183.42	183.44	
Max	184.31	184.11	187.90	186.00	187.44	188.38	185.74	185.72	185.66	185.46	183.60	183.47	188.38
Min	184.11	183.99	184.03	185.52	185.68	185.74	185.64	185.69	185.29	183.62	183.40	183.40	183.40
Annual Max Momentary Gage Height	188.46		m. (MSL.) ,			at 16.00 Hours ,		on Sep 6 , 2019					
Zero Gage at Bottom Elevation	183.40		m. (MSL.) ,			River Bed	183.95	m. (MSL.)					
Left Bank Elevation		188.55		m. (MSL.) ,									
Right Bank Elevation		188.56		m. (MSL.) ,		Drainage Are	1,309	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	4.00	0.90	51.66	1.40	1.00	0.60	0.00	0.00	0.00	
2	0.00	0.00	0.00	3.30	1.00	55.43	1.40	1.00	0.10	0.00	0.00	0.00	
3	0.00	0.00	0.00	3.30	1.40	61.30	1.20	1.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	3.30	1.60	72.61	1.10	1.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	11.70	3.30	1.50	83.92	1.20	1.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	12.60	2.70	1.00	94.40	1.30	1.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	5.20	2.70	1.00	88.53	1.20	1.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	3.70	2.50	0.80	77.64	1.00	1.10	0.00	0.00	0.00	0.00	
9	0.00	0.00	2.60	2.00	1.00	65.91	0.90	1.10	0.00	0.00	0.00	0.00	
10	0.00	0.00	2.30	1.50	1.10	51.24	0.80	1.10	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.70	1.30	1.80	46.21	0.80	1.10	0.00	0.00	0.00	0.00	
12	0.00	0.00	1.00	1.30	15.30	47.89	0.70	1.10	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.70	1.20	50.82	44.11	0.70	1.10	0.00	0.00	0.00	0.00	
14	0.00	0.00	1.00	1.10	48.72	39.51	0.60	1.10	0.00	0.00	0.00	0.00	
15	0.00	0.00	1.00	0.90	40.34	35.73	0.60	1.10	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.10	0.70	23.40	27.77	0.50	1.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	7.50	0.50	19.80	17.70	0.50	1.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	53.75	0.30	17.40	7.50	0.40	1.20	0.00	0.00	0.00	0.00	
19	0.00	0.00	74.29	0.10	15.00	3.80	0.50	1.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	57.94	0.00	13.20	3.30	0.50	1.20	0.00	0.00	0.00	0.00	
21	0.00	0.00	31.12	0.00	12.60	3.90	0.60	1.20	0.00	0.00	0.00	0.00	
22	0.00	0.00	14.10	0.00	12.00	3.40	0.60	1.20	0.00	0.00	0.00	0.00	
23	0.00	0.00	6.60	0.00	11.40	3.00	0.60	1.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	3.90	0.00	10.80	3.10	0.60	1.10	0.00	0.00	0.00	0.00	
25	0.00	0.00	6.30	0.00	14.40	2.50	0.60	1.10	0.00	0.00	0.00	0.00	
26	0.00	0.00	14.10	0.00	27.77	2.00	0.70	1.10	0.00	0.00	0.00	0.00	
27	0.00	0.00	14.10	0.00	44.11	2.00	0.80	1.10	0.00	0.00	0.00	0.00	
28	0.00	0.00	11.40	0.10	54.17	1.90	0.90	1.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	7.50	0.30	55.01	1.50	0.90	1.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	4.20	0.50	42.86	1.40	1.00	0.90	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.60	0.60	42.86	1.00	1.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	351.40	37.50	585.06	1000.86	25.60	32.70	0.70	0.00	0.00	0.00	2033.82 CMSDAY
<b>Mean</b>	0.00	0.00	11.71	1.21	18.87	33.36	0.83	1.09	0.02	0.00	0.00	0.00	5.56 CMS
<b>Max</b>	0.00	0.00	74.29	4.00	55.01	94.40	1.40	1.20	0.60	0.00	0.00	0.00	94.40 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.80	1.40	0.40	0.90	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	30.36	3.24	50.55	86.47	2.21	2.83	0.06	0.00	0.00	0.00	175.72 MCM
<b>Momentary Peak</b>	97.75	CMS.	at 188.46 m. (MSL.)	at 16.00 Hours	on Sep 6, 2019								
<b>Runoff Yield</b>	4.26	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	74.68	Liters/Second/Square KM.						



**WATER YEAR : 2019****KHONG RIVER BASIN**

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

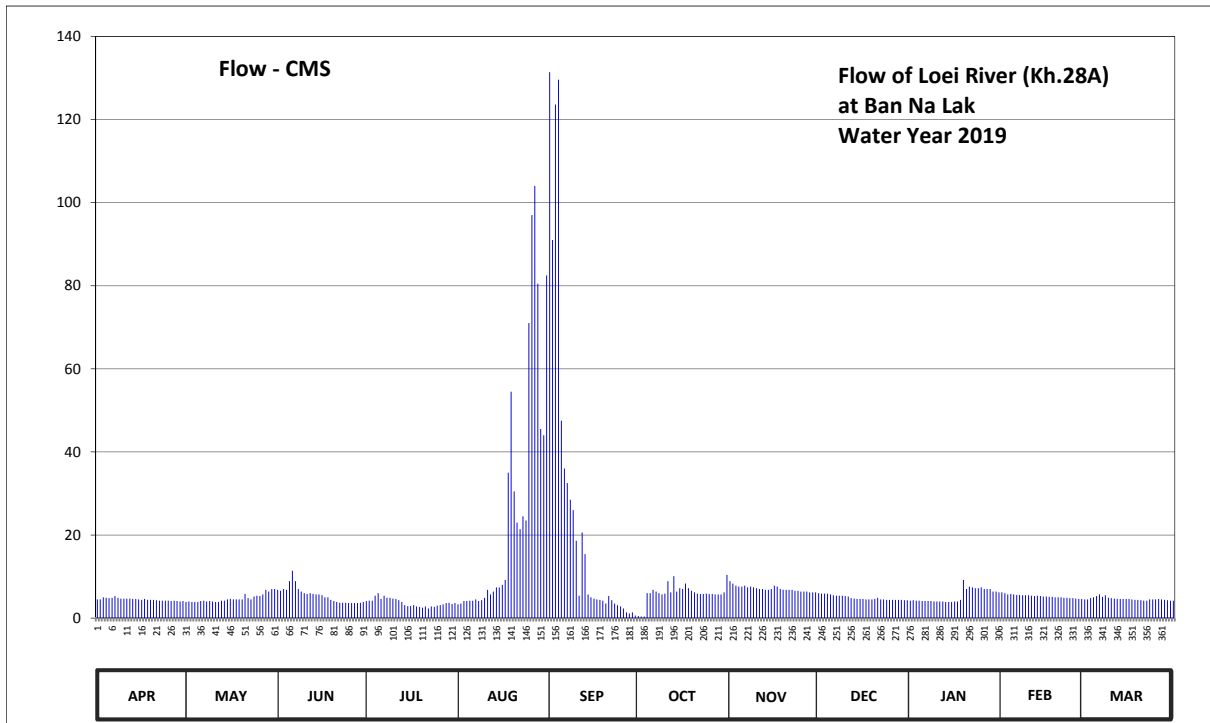
Lat 17 - 18 - 32 N Long 101 - 46 - 25 E

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

	<b>Ban Na Lak</b>	<b>Amphoe Wang Saphung</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	1,271 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+239.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank upstream at the footpath of the bridge.	<b>Elevation</b>	+253.724 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	240.85	240.79	241.04	240.81	240.73	243.59	240.45	241.13	241.00	240.82	241.01	240.85	
2	240.85	240.80	241.03	240.82	240.75	242.86	240.44	241.11	240.99	240.83	241.00	240.85	
3	240.90	240.79	241.05	240.82	240.81	243.46	240.44	241.09	240.99	240.82	240.97	240.88	
4	240.89	240.79	241.04	240.94	240.81	243.56	241.00	241.08	240.99	240.82	240.98	240.90	
5	240.88	240.79	241.13	241.00	240.82	241.99	241.00	241.08	240.97	240.81	240.97	240.93	
6	240.89	240.81	241.21	240.86	240.82	241.76	241.04	241.09	240.95	240.81	240.96	240.97	
7	240.93	240.82	241.13	240.94	240.85	241.69	241.02	241.07	240.94	240.81	240.96	240.91	
8	240.89	240.80	241.05	240.89	240.81	241.61	241.00	241.08	240.94	240.81	240.95	240.95	
9	240.87	240.81	241.02	240.89	240.83	241.56	240.97	241.07	240.94	240.80	240.95	240.89	
10	240.87	240.80	241.00	240.87	240.89	241.39	240.99	241.06	240.93	240.80	240.95	240.88	
11	240.87	240.79	240.98	240.86	241.04	240.94	241.13	241.05	240.92	240.80	240.94	240.87	
12	240.87	240.79	241.00	240.83	240.97	241.44	241.01	241.05	240.88	240.80	240.93	240.86	
13	240.86	240.82	240.98	240.79	241.02	241.31	241.17	241.04	240.87	240.79	240.94	240.86	
14	240.86	240.82	240.97	240.71	241.07	240.97	241.02	241.04	240.86	240.79	240.93	240.86	
15	240.85	240.85	240.97	240.69	241.07	240.90	241.06	241.05	240.86	240.79	240.92	240.86	
16	240.84	240.86	240.95	240.69	241.10	240.87	241.05	241.09	240.86	240.80	240.92	240.86	
17	240.86	240.85	240.90	240.71	241.14	240.85	241.11	241.08	240.85	240.80	240.91	240.85	
18	240.84	240.85	240.90	240.68	241.74	240.84	241.06	241.05	240.85	240.84	240.91	240.84	
19	240.84	240.85	240.84	240.67	242.13	240.82	241.03	241.04	240.85	241.14	240.90	240.84	
20	240.84	240.85	240.81	240.65	241.65	240.75	241.01	241.04	240.86	241.05	240.90	240.83	
21	240.83	240.98	240.79	240.68	241.50	240.93	240.99	241.04	240.89	241.08	240.90	240.82	
22	240.82	240.88	240.77	240.63	241.46	240.83	240.98	241.04	240.85	241.07	240.89	240.82	
23	240.82	240.85	240.77	240.68	241.53	240.75	240.98	241.03	240.85	241.06	240.89	240.85	
24	240.82	240.92	240.77	240.67	241.51	240.71	240.99	241.03	240.84	241.06	240.88	240.85	
25	240.82	240.94	240.76	240.70	242.46	240.68	240.98	241.02	240.84	241.07	240.88	240.85	
26	240.81	240.93	240.76	240.71	242.98	240.63	240.98	241.02	240.84	241.05	240.87	240.86	
27	240.82	240.97	240.76	240.73	243.12	240.54	240.97	241.02	240.84	241.05	240.86	240.85	
28	240.81	241.04	240.76	240.76	242.65	240.51	240.97	241.01	240.84	241.05	240.86	240.84	
29	240.80	241.02	240.77	240.77	241.95	240.54	240.97	241.01	240.84	241.02	240.86	240.83	
30	240.81	241.05	240.79	240.74	241.92	240.46	241.01	241.01	240.83	241.02	240.86	240.82	
31		241.05		240.76	242.69		241.18		240.83	241.01		240.82	
Mean	240.85	240.87	240.92	240.77	241.45	241.32	240.97	241.05	240.89	240.91	240.92	240.86	
Max	240.93	241.05	241.21	241.00	243.12	243.59	241.18	241.13	241.00	241.14	241.01	240.97	243.59
Min	240.80	240.79	240.76	240.63	240.73	240.46	240.44	241.01	240.83	240.79	240.86	240.82	240.44
Annual Max Momentary Gage Height	244.31		m. (MSL.) ,				at 02.00 Hours , on Sep 4 , 2019						
Zero Gage at Bottom Elevation	239.60		m. (MSL.) ,			River Bed	238.07	m. (MSL.)					
Left Bank Elevation	247.32		m. (MSL.) ,										
Right Bank Elevation	247.46		m. (MSL.) ,			Drainage Are	1,271	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.50	3.90	6.80	4.10	3.30	131.40	0.50	8.90	6.00	4.20	6.20	4.50	
2	4.50	4.00	6.60	4.20	3.50	91.00	0.40	8.30	5.90	4.30	6.00	4.50	
3	5.00	3.90	7.00	4.20	4.10	123.60	0.40	7.80	5.90	4.20	5.70	4.80	
4	4.90	3.90	6.80	5.40	4.10	129.60	6.00	7.60	5.90	4.20	5.80	5.00	
5	4.80	3.90	8.90	6.00	4.20	47.50	6.00	7.60	5.70	4.10	5.70	5.30	
6	4.90	4.10	11.40	4.60	4.20	36.00	6.80	7.80	5.50	4.10	5.60	5.70	
7	5.30	4.20	8.90	5.40	4.50	32.50	6.40	7.40	5.40	4.10	5.60	5.10	
8	4.90	4.00	7.00	4.90	4.10	28.50	6.00	7.60	5.40	4.10	5.50	5.50	
9	4.70	4.10	6.40	4.90	4.30	26.00	5.70	7.40	5.40	4.00	5.50	4.90	
10	4.70	4.00	6.00	4.70	4.90	18.60	5.90	7.20	5.30	4.00	5.50	4.80	
11	4.70	3.90	5.80	4.60	6.80	5.40	8.90	7.00	5.20	4.00	5.40	4.70	
12	4.70	3.90	6.00	4.30	5.70	20.60	6.20	7.00	4.80	4.00	5.30	4.60	
13	4.60	4.20	5.80	3.90	6.40	15.40	10.10	6.80	4.70	3.90	5.40	4.60	
14	4.60	4.20	5.70	3.10	7.40	5.70	6.40	6.80	4.60	3.90	5.30	4.60	
15	4.50	4.50	5.70	2.90	7.40	5.00	7.20	7.00	4.60	3.90	5.20	4.60	
16	4.40	4.60	5.50	2.90	8.00	4.70	7.00	7.80	4.60	4.00	5.20	4.60	
17	4.60	4.50	5.00	3.10	9.20	4.50	8.30	7.60	4.50	4.00	5.10	4.50	
18	4.40	4.50	5.00	2.80	35.00	4.40	7.20	7.00	4.50	4.40	5.10	4.40	
19	4.40	4.50	4.40	2.70	54.50	4.20	6.60	6.80	4.50	9.20	5.00	4.40	
20	4.40	4.50	4.10	2.50	30.50	3.50	6.20	6.80	4.60	7.00	5.00	4.30	
21	4.30	5.80	3.90	2.80	23.00	5.30	5.90	6.80	4.90	7.60	5.00	4.20	
22	4.20	4.80	3.70	2.30	21.40	4.30	5.80	6.80	4.50	7.40	4.90	4.20	
23	4.20	4.50	3.70	2.80	24.50	3.50	5.80	6.60	4.50	7.20	4.90	4.50	
24	4.20	5.20	3.70	2.70	23.50	3.10	5.90	6.60	4.40	7.20	4.80	4.50	
25	4.20	5.40	3.60	3.00	71.00	2.80	5.80	6.40	4.40	7.40	4.80	4.50	
26	4.10	5.30	3.60	3.10	97.00	2.30	5.80	6.40	4.40	7.00	4.70	4.60	
27	4.20	5.70	3.60	3.30	104.00	1.40	5.70	6.40	4.40	7.00	4.60	4.50	
28	4.10	6.80	3.60	3.60	80.50	1.10	5.70	6.20	4.40	7.00	4.60	4.40	
29	4.00	6.40	3.70	3.70	45.50	1.40	5.70	6.20	4.40	6.40	4.60	4.30	
30	4.10	7.00	3.90	3.40	44.00	0.60	6.20	6.20	4.30	6.40		4.20	
31		7.00		3.60	82.50		10.40		4.30	6.20		4.20	
Total	135.10	147.20	165.80	115.50	829.00	763.90	186.90	212.80	151.90	166.40	152.00	143.50	3170.00 CMSDAY
Mean	4.50	4.75	5.53	3.73	26.74	25.46	6.03	7.09	4.90	5.37	5.24	4.63	8.66 CMS
Max	5.30	7.00	11.40	6.00	104.00	131.40	10.40	8.90	6.00	9.20	6.20	5.70	131.40 CMS
Min	4.00	3.90	3.60	2.30	3.30	0.60	0.40	6.20	4.30	3.90	4.60	4.20	0.40 CMS
Runoff	11.67	12.72	14.33	9.98	71.63	66.00	16.15	18.39	13.12	14.38	13.13	12.40	273.89 MCM
Momentary Peak	179.70	CMS.	at 244.31 m. (MSL.)										on Sep 4, 2019
Runoff Yield	6.83	Liters/Second/Square KM.			Momentary Peak Yield	141.38	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

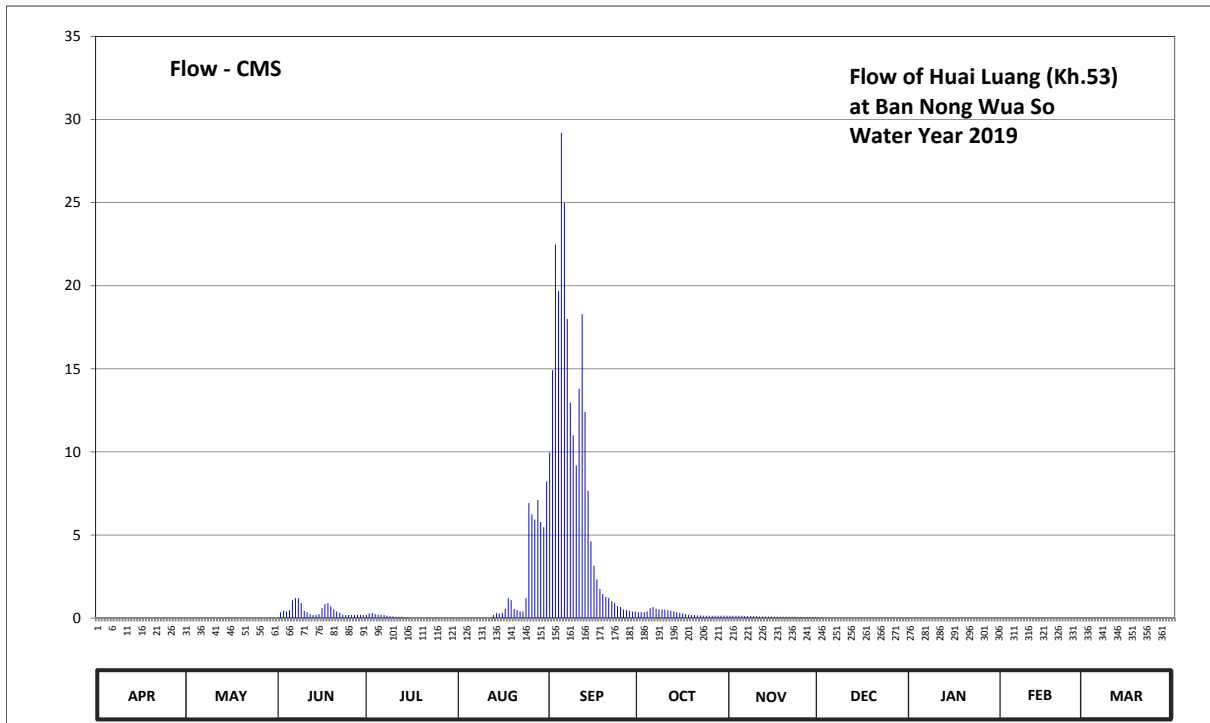
Lat 17 - 15 - 51 N Long 102 - 35 - 47 E

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
<b>Drainage Area</b>	421 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+201.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+206.018 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1970 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1975 - 1986 , 1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1975 - 1986 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Huai Luang barrage. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.63	203.43	204.01	204.10	203.80	204.96	204.14	204.07	204.02	203.78	203.65	203.65	
2	203.62	203.43	204.14	204.12	203.80	205.14	204.14	204.07	204.01	203.77	203.64	203.63	
3	203.61	203.43	204.16	204.13	203.79	205.41	204.14	204.07	204.00	203.77	203.64	203.62	
4	203.61	203.43	204.15	204.11	203.79	205.31	204.15	204.07	203.98	203.76	203.63	203.61	
5	203.60	203.43	204.17	204.10	203.77	205.65	204.20	204.07	203.96	203.76	203.62	203.60	
6	203.60	203.43	204.28	204.10	203.78	205.50	204.21	204.06	203.94	203.75	203.61	203.58	
7	203.59	203.43	204.30	204.09	203.77	205.25	204.19	204.06	203.92	203.75	203.60	203.57	
8	203.59	203.43	204.30	204.07	203.75	205.07	204.18	204.06	203.91	203.74	203.59	203.56	
9	203.58	203.43	204.25	204.06	203.72	205.00	204.18	204.06	203.90	203.74	203.58	203.55	
10	203.58	203.43	204.16	204.05	203.73	204.93	204.18	204.06	203.89	203.73	203.57	203.54	
11	203.57	203.44	204.14	204.04	203.86	205.10	204.17	204.05	203.88	203.73	203.56	203.53	
12	203.57	203.44	204.11	204.04	204.02	205.26	204.16	204.05	203.88	203.72	203.55	203.52	
13	203.56	203.44	204.09	204.04	204.10	205.05	204.15	204.05	203.87	203.72	203.54	203.51	
14	203.56	203.44	204.09	204.03	204.13	204.86	204.14	204.05	203.87	203.72	203.53	203.50	
15	203.55	203.44	204.11	204.02	204.12	204.67	204.13	204.05	203.86	203.71	203.52	203.49	
16	203.55	203.44	204.20	204.01	204.13	204.54	204.12	204.05	203.86	203.71	203.51	203.48	
17	203.54	203.44	204.24	203.99	204.19	204.44	204.11	204.04	203.85	203.70	203.50	203.47	
18	203.53	203.44	204.25	203.96	204.30	204.37	204.10	204.04	203.85	203.70	203.49	203.46	
19	203.52	203.44	204.22	203.95	204.28	204.33	204.09	204.04	203.84	203.70	203.48	203.44	
20	203.51	203.44	204.18	203.92	204.19	204.31	204.09	204.04	203.84	203.69	203.47	203.43	
21	203.50	203.45	204.15	203.87	204.17	204.30	204.08	204.04	203.83	203.69	203.46	203.41	
22	203.50	203.45	204.13	203.85	204.15	204.27	204.08	204.04	203.82	203.68	203.45	203.40	
23	203.49	203.45	204.10	203.84	204.15	204.25	204.07	204.04	203.82	203.68	203.44	203.38	
24	203.48	203.45	204.09	203.83	204.30	204.22	204.07	204.03	203.81	203.67	203.43	203.37	
25	203.48	203.45	204.09	203.83	204.82	204.21	204.07	204.03	203.81	203.67	203.42	203.36	
26	203.47	203.45	204.09	203.83	204.78	204.18	204.07	204.03	203.80	203.67	203.42	203.36	
27	203.46	203.45	204.09	203.83	204.76	204.17	204.07	204.03	203.80	203.66	203.41	203.36	
28	203.44	203.45	204.10	203.81	204.83	204.16	204.07	204.03	203.80	203.66	203.41	203.35	
29	203.43	203.51	204.10	203.79	204.75	204.15	204.07	204.03	203.79	203.66	203.41	203.35	
30	203.43	203.60	204.09	203.78	204.73	204.15	204.07	204.03	203.79	203.65	203.35	203.35	
31		203.79		203.79	204.89		204.07		203.78	203.65		203.35	
Mean	203.54	203.46	204.15	203.97	204.17	204.71	204.12	204.05	203.87	203.71	203.52	203.48	
Max	203.63	203.79	204.30	204.13	204.89	205.65	204.21	204.07	204.02	203.78	203.65	203.65	205.65
Min	203.43	203.43	204.01	203.78	203.72	204.15	204.07	204.03	203.78	203.65	203.41	203.35	203.35
Annual Max Momentary Gage Height	205.83		m. (MSL.) ,			at 16.00 Hours ,	on Sep 5 , 2019						
Zero Gage at Bottom Elevation	201.30		m. (MSL.) ,			River Bed	203.36	m. (MSL.)					
Left Bank Elevation		206.41		m. (MSL.) ,									
Right Bank Elevation		206.55		m. (MSL.) ,		Drainage Are	421	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.02	0.20	0.00	9.96	0.36	0.14	0.04	0.00	0.00	0.00	
2	0.00	0.00	0.36	0.28	0.00	14.92	0.36	0.14	0.02	0.00	0.00	0.00	
3	0.00	0.00	0.44	0.32	0.00	22.48	0.36	0.14	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.40	0.24	0.00	19.68	0.40	0.14	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.48	0.20	0.00	29.20	0.60	0.14	0.00	0.00	0.00	0.00	
6	0.00	0.00	1.08	0.20	0.00	25.00	0.66	0.12	0.00	0.00	0.00	0.00	
7	0.00	0.00	1.20	0.18	0.00	18.00	0.56	0.12	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.20	0.14	0.00	12.96	0.52	0.12	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.90	0.12	0.00	11.00	0.52	0.12	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.44	0.10	0.00	9.18	0.52	0.12	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.36	0.08	0.00	13.80	0.48	0.10	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.24	0.08	0.04	18.28	0.44	0.10	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.18	0.08	0.20	12.40	0.40	0.10	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.18	0.06	0.32	7.66	0.36	0.10	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.24	0.04	0.28	4.61	0.32	0.10	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.60	0.02	0.32	3.16	0.28	0.10	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.84	0.00	0.56	2.32	0.24	0.08	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.90	0.00	1.20	1.76	0.20	0.08	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.72	0.00	1.08	1.44	0.18	0.08	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.52	0.00	0.56	1.28	0.18	0.08	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.40	0.00	0.48	1.20	0.16	0.08	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.32	0.00	0.40	1.02	0.16	0.08	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.20	0.00	0.40	0.90	0.14	0.08	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.18	0.00	1.20	0.72	0.14	0.06	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.18	0.00	6.92	0.66	0.14	0.06	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.18	0.00	6.24	0.52	0.14	0.06	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.18	0.00	5.93	0.48	0.14	0.06	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.20	0.00	7.11	0.44	0.14	0.06	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.20	0.00	5.78	0.40	0.14	0.06	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.18	0.00	5.47	0.40	0.14	0.06	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	8.22	0.14	0.14	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	13.52	2.34	52.71	245.83	9.52	2.88	0.06	0.00	0.00	0.00	326.86 CMSDAY
<b>Mean</b>	0.00	0.00	0.45	0.08	1.70	8.19	0.31	0.10	0.00	0.00	0.00	0.00	0.89 CMS
<b>Max</b>	0.00	0.00	1.20	0.32	8.22	29.20	0.66	0.14	0.04	0.00	0.00	0.00	29.20 CMS
<b>Min</b>	0.00	0.00	0.02	0.00	0.00	0.40	0.14	0.06	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	1.17	0.20	4.55	21.24	0.82	0.25	0.01	0.00	0.00	0.00	28.24 MCM
<b>Momentary Peak</b>	34.24	CMS. at 205.83 m. (MSL.) at 16.00 Hours , on Sep 5 , 2019											
<b>Runoff Yield</b>	2.13	Liters/Second/Square KM.		Momentary Peak Yield		81.33	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

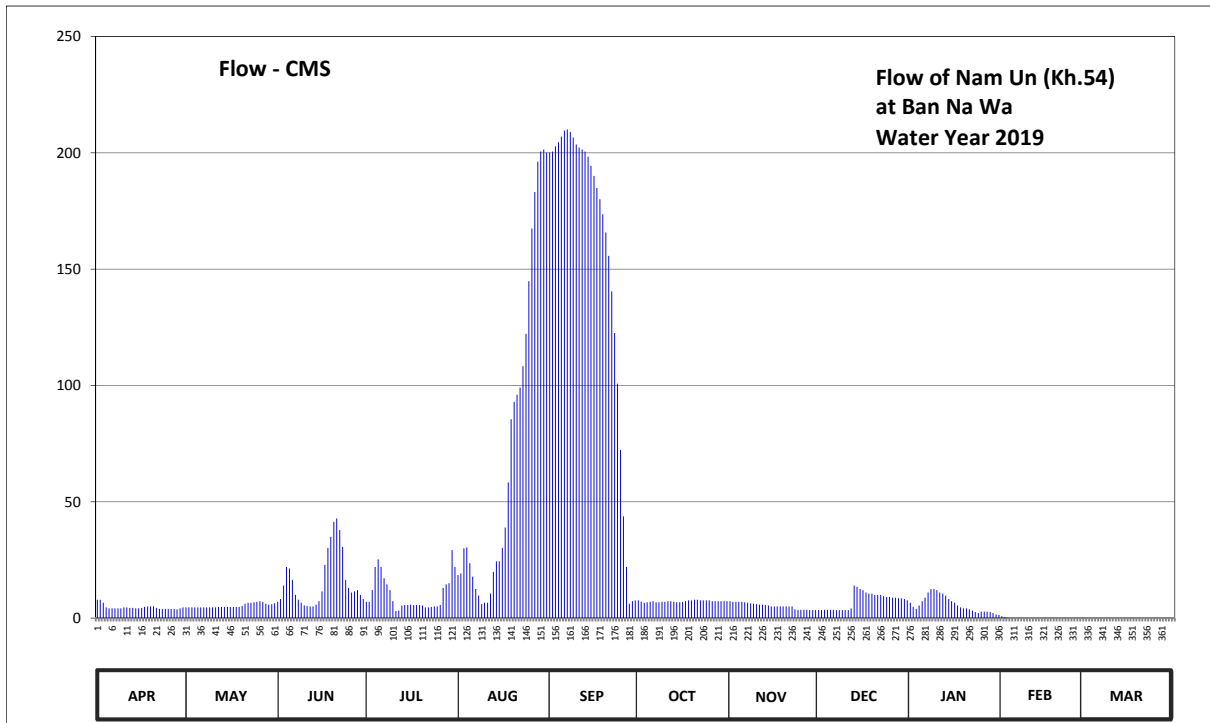
Lat 17 - 29 - 33 N Long 104 - 06 - 50 E

Location : on left bank at Ban Na Wa.

	<b>Ban Na Wa</b>	<b>Amphoe Na Wa</b>	<b>Changwat Nakhon Phanom</b>
<b>Drainage Area</b>	3,123 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+136.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the footpath of the bridge.		<b>Elevation</b> +149.635 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1970 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1970 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1970 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.63	140.48	140.60	140.60	140.85	146.61	140.62	140.61	140.42	140.58	140.28	139.35	
2	140.63	140.48	140.64	140.60	140.86	146.62	140.60	140.60	140.42	140.49	140.25	139.33	
3	140.58	140.48	140.78	140.74	141.00	146.67	140.58	140.60	140.43	140.45	140.22	139.29	
4	140.48	140.48	140.90	140.90	141.04	146.71	140.59	140.60	140.43	140.52	140.20	139.36	
5	140.46	140.48	140.89	140.94	140.92	146.76	140.60	140.60	140.43	140.61	140.17	139.45	
6	140.46	140.48	140.82	140.90	140.84	146.81	140.61	140.59	140.43	140.66	140.14	139.46	
7	140.46	140.48	140.70	140.83	140.75	146.82	140.59	140.58	140.42	140.72	140.11	139.46	
8	140.46	140.48	140.63	140.79	140.69	146.80	140.59	140.57	140.42	140.75	140.08	139.46	
9	140.46	140.48	140.58	140.74	140.55	146.75	140.60	140.56	140.42	140.75	140.05	139.44	
10	140.48	140.48	140.52	140.61	140.58	146.69	140.60	140.55	140.42	140.74	140.02	139.43	
11	140.48	140.48	140.51	140.40	140.58	146.66	140.61	140.54	140.42	140.72	139.99	139.42	
12	140.47	140.49	140.50	140.41	140.71	146.64	140.61	140.54	140.46	140.71	139.96	139.41	
13	140.47	140.49	140.50	140.52	140.87	146.62	140.60	140.53	140.78	140.69	139.93	139.40	
14	140.46	140.49	140.54	140.53	140.93	146.57	140.59	140.52	140.77	140.64	139.90	139.39	
15	140.46	140.49	140.61	140.53	140.93	146.48	140.59	140.50	140.75	140.61	139.87	139.38	
16	140.47	140.49	140.73	140.54	141.02	146.38	140.60	140.50	140.74	140.58	139.84	139.36	
17	140.49	140.49	140.91	140.53	141.65	146.26	140.61	140.50	140.72	140.52	139.81	139.33	
18	140.50	140.49	141.02	140.53	142.65	146.15	140.62	140.50	140.71	140.48	139.78	139.40	
19	140.50	140.49	141.37	140.53	143.65	146.00	140.62	140.50	140.71	140.46	139.73	139.52	
20	140.50	140.51	141.82	140.52	143.90	145.82	140.63	140.50	140.70	140.46	139.69	139.52	
21	140.47	140.56	141.92	140.48	144.00	145.59	140.63	140.50	140.70	140.44	139.63	139.51	
22	140.45	140.58	141.57	140.48	144.09	145.24	140.62	140.50	140.70	140.41	139.60	139.51	
23	140.45	140.58	141.06	140.49	144.36	144.78	140.62	140.44	140.68	140.38	139.53	139.48	
24	140.45	140.59	140.82	140.50	144.77	144.14	140.62	140.43	140.67	140.36	139.46	139.46	
25	140.45	140.60	140.76	140.50	145.34	143.21	140.62	140.43	140.67	140.39	139.43	139.61	
26	140.45	140.61	140.72	140.53	145.86	141.98	140.61	140.43	140.66	140.39	139.41	139.77	
27	140.45	140.60	140.73	140.76	146.22	140.90	140.61	140.43	140.66	140.39	139.40	139.76	
28	140.44	140.56	140.74	140.79	146.52	140.56	140.61	140.42	140.65	140.38	139.40	139.73	
29	140.46	140.54	140.70	140.80	146.62	140.61	140.61	140.42	140.65	140.36	139.38	139.70	
30	140.48	140.55	140.64	140.99	146.64	140.62	140.61	140.42	140.64	140.33	139.67	139.67	
31		140.57		140.90	146.61		140.61		140.62	140.32	139.65	139.65	
Mean	140.48	140.52	140.84	140.64	142.77	145.28	140.61	140.51	140.59	140.53	139.84	139.48	
Max	140.63	140.61	141.92	140.99	146.64	146.82	140.63	140.61	140.78	140.75	140.28	139.77	146.82
Min	140.44	140.48	140.50	140.40	140.55	140.56	140.58	140.42	140.42	140.32	139.38	139.29	139.29
Annual Max Momentary Gage Height	146.82		m. (MSL.) ,				at 18.00 Hours ,						on Sep 6 , 2019
Zero Gage at Bottom Elevation	136.20		m. (MSL.) ,				River Bed	138.90		m. (MSL.)			
Left Bank Elevation	149.75		m. (MSL.) ,										
Right Bank Elevation	148.20		m. (MSL.) ,				Drainage Are	3,123		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.90	4.60	7.00	7.00	18.50	200.08	7.60	7.30	3.40	6.60	0.80	0.00	
2	7.90	4.60	8.20	7.00	19.20	200.52	7.00	7.00	3.40	4.80	0.50	0.00	
3	6.60	4.60	14.00	12.00	30.00	202.69	6.60	7.00	3.60	4.00	0.20	0.00	
4	4.60	4.60	22.00	22.00	30.40	204.50	6.80	7.00	3.60	5.40	0.00	0.00	
5	4.20	4.60	21.30	25.20	23.60	207.00	7.00	7.00	3.60	7.30	0.00	0.00	
6	4.20	4.60	16.40	22.00	17.80	209.50	7.30	6.80	3.60	8.80	0.00	0.00	
7	4.20	4.60	10.00	17.10	12.50	210.00	6.80	6.60	3.40	11.00	0.00	0.00	
8	4.20	4.60	7.90	14.50	9.70	209.00	6.80	6.40	3.40	12.50	0.00	0.00	
9	4.20	4.60	6.60	12.00	6.00	206.50	7.00	6.20	3.40	12.50	0.00	0.00	
10	4.60	4.60	5.40	7.30	6.60	203.57	7.00	6.00	3.40	12.00	0.00	0.00	
11	4.60	4.60	5.20	3.00	6.60	202.26	7.30	5.80	3.40	11.00	0.00	0.00	
12	4.40	4.80	5.00	3.20	10.50	201.39	7.30	5.80	4.20	10.50	0.00	0.00	
13	4.40	4.80	5.00	5.40	19.90	200.52	7.00	5.60	14.00	9.70	0.00	0.00	
14	4.20	4.80	5.80	5.60	24.40	198.34	6.80	5.40	13.50	8.20	0.00	0.00	
15	4.20	4.80	7.30	5.60	24.40	194.42	6.80	5.00	12.50	7.30	0.00	0.00	
16	4.40	4.80	11.50	5.80	30.20	190.07	7.00	5.00	12.00	6.60	0.00	0.00	
17	4.80	4.80	22.80	5.60	38.94	184.85	7.30	5.00	11.00	5.40	0.00	0.00	
18	5.00	4.80	30.20	5.60	58.30	180.06	7.60	5.00	10.50	4.60	0.00	0.00	
19	5.00	4.80	34.90	5.60	85.50	173.53	7.60	5.00	10.50	4.20	0.00	0.00	
20	5.00	5.20	41.40	5.40	93.00	165.69	7.90	5.00	10.00	4.20	0.00	0.00	
21	4.40	6.20	42.84	4.60	96.00	155.68	7.90	5.00	10.00	3.80	0.00	0.00	
22	4.00	6.60	37.79	4.60	99.06	140.45	7.60	5.00	10.00	3.20	0.00	0.00	
23	4.00	6.60	30.60	4.80	108.24	122.52	7.60	3.80	9.40	2.60	0.00	0.00	
24	4.00	6.80	16.40	5.00	122.18	100.76	7.60	3.60	9.10	2.20	0.00	0.00	
25	4.00	7.00	13.00	5.00	144.80	72.30	7.60	3.60	9.10	2.80	0.00	0.00	
26	4.00	7.30	11.00	5.60	167.44	43.71	7.30	3.60	8.80	2.80	0.00	0.00	
27	4.00	7.00	11.50	13.00	183.11	22.00	7.30	3.60	8.80	2.80	0.00	0.00	
28	3.80	6.20	12.00	14.50	196.17	6.20	7.30	3.40	8.50	2.60	0.00	0.00	
29	4.20	5.80	10.00	15.00	200.52	7.30	7.30	3.40	8.50	2.20	0.00	0.00	
30	4.60	6.00	8.20	29.20	201.39	7.60	7.30	3.40	8.20	1.60	0.00	0.00	
31		6.40		22.00	200.08		7.30		7.60	1.40		0.00	
Total	139.60	166.10	481.23	320.20	2285.03	4623.01	224.60	158.30	234.40	184.60	1.50	0.00	8818.57 CMSDAY
Mean	4.65	5.36	16.04	10.33	73.71	154.10	7.25	5.28	7.56	5.95	0.05	0.00	24.09 CMS
Max	7.90	7.30	42.84	29.20	201.39	210.00	7.90	7.30	14.00	12.50	0.80	0.00	210.00 CMS
Min	3.80	4.60	5.00	3.00	6.00	6.20	6.60	3.40	3.40	1.40	0.00	0.00	0.00 CMS
Runoff	12.06	14.35	41.58	27.67	197.43	399.43	19.41	13.68	20.25	15.95	0.13	0.00	761.92 MCM
Momentary Peak		210.00	CMS.	at 146.82 m. (MSL).	at 18.00 Hours	on Sep 6, 2019							
Runoff Yield		7.74	Liters/Second/Square KM.		Momentary Peak Yield	67.24	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

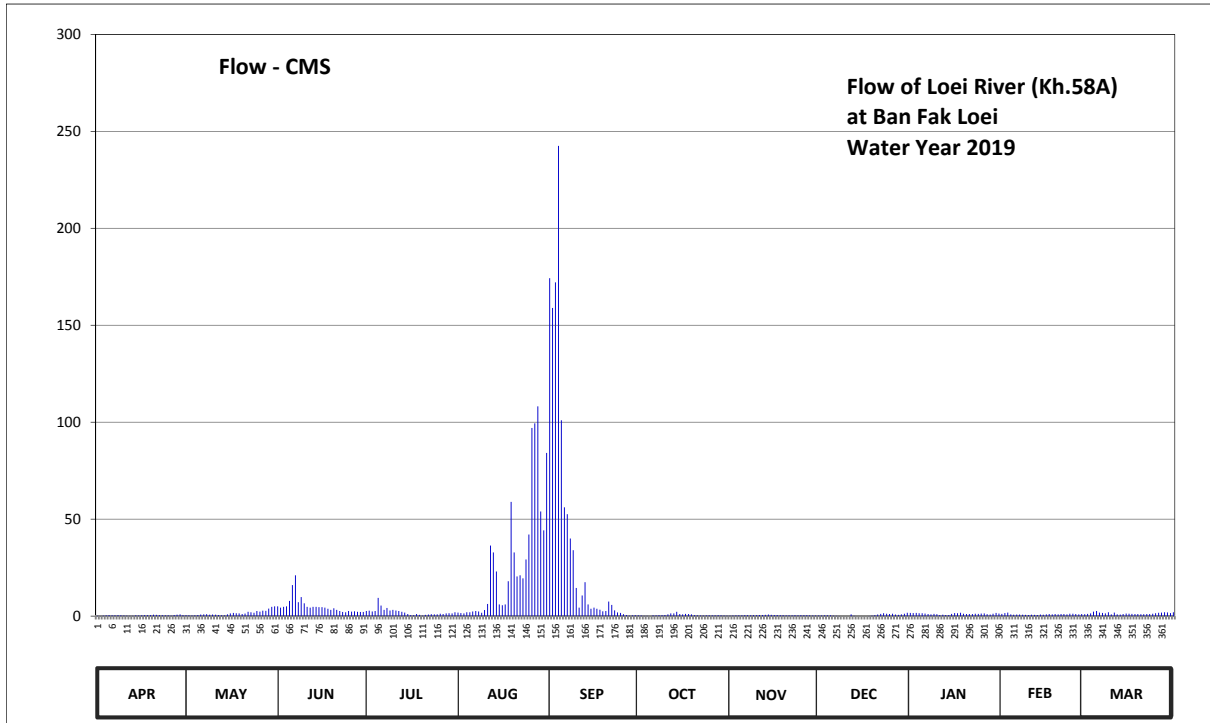
Lat 17 - 29 - 36 N Long 101 - 44 - 17 E

Location : on left bank at the bridge on road.

	<b>Ban Fak Loei</b>	<b>Amphoe Mueang</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	3,093 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+228.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank upstream side at the abutment of the bridge.	<b>Elevation</b>	+240.499 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 34 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.17	230.29	230.75	230.56	230.48	233.03	230.26	230.21	230.23	230.45	230.39	230.36	
2	230.13	230.25	230.72	230.58	230.44	232.89	230.23	230.23	230.23	230.44	230.44	230.39	
3	230.19	230.23	230.74	230.54	230.42	233.01	230.17	230.25	230.25	230.45	230.47	230.42	
4	230.25	230.27	230.75	230.56	230.50	233.65	230.16	230.26	230.27	230.43	230.35	230.53	
5	230.28	230.31	230.86	230.91	230.50	232.30	230.02	230.27	230.26	230.43	230.33	230.56	
6	230.26	230.34	231.06	230.77	230.54	231.73	230.25	230.28	230.21	230.41	230.34	230.48	
7	230.26	230.35	231.16	230.62	230.56	231.68	230.25	230.28	230.16	230.38	230.34	230.45	
8	230.30	230.36	230.84	230.71	230.54	231.50	230.28	230.27	230.14	230.35	230.33	230.42	
9	230.25	230.33	230.92	230.59	230.46	231.40	230.30	230.29	230.11	230.39	230.32	230.50	
10	230.24	230.34	230.82	230.62	230.61	231.03	230.31	230.30	230.02	230.36	230.31	230.35	
11	230.21	230.33	230.74	230.59	230.81	230.72	230.35	230.31	229.97	230.31	230.33	230.47	
12	230.18	230.31	230.72	230.56	231.44	230.94	230.42	230.31	230.35	230.33	230.32	230.35	
13	230.16	230.26	230.74	230.52	231.38	231.09	230.42	230.32	230.17	230.31	230.31	230.34	
14	230.26	230.26	230.74	230.47	231.20	230.80	230.52	230.34	230.10	230.31	230.34	230.38	
15	230.24	230.35	230.73	230.37	230.80	230.68	230.38	230.32	230.07	230.39	230.33	230.41	
16	230.27	230.42	230.73	230.28	230.78	230.72	230.35	230.31	230.08	230.44	230.35	230.40	
17	230.28	230.45	230.72	230.28	230.80	230.68	230.39	230.31	230.09	230.43	230.37	230.39	
18	230.30	230.43	230.68	230.37	231.10	230.63	230.38	230.30	230.14	230.46	230.35	230.38	
19	230.28	230.42	230.62	230.32	231.77	230.55	230.35	230.28	230.21	230.40	230.38	230.38	
20	230.33	230.37	230.70	230.21	231.38	230.56	230.29	230.27	230.29	230.37	230.35	230.36	
21	230.32	230.41	230.62	230.32	231.15	230.85	230.27	230.27	230.34	230.37	230.37	230.36	
22	230.30	230.52	230.56	230.34	231.16	230.79	230.24	230.27	230.39	230.38	230.38	230.38	
23	230.28	230.50	230.51	230.36	231.13	230.60	230.23	230.30	230.43	230.40	230.35	230.38	
24	230.27	230.46	230.50	230.35	231.32	230.49	230.25	230.27	230.40	230.39	230.40	230.40	
25	230.27	230.56	230.56	230.35	231.53	230.45	230.25	230.28	230.37	230.41	230.40	230.43	
26	230.19	230.53	230.53	230.40	232.25	230.36	230.25	230.29	230.40	230.42	230.38	230.46	
27	230.31	230.58	230.55	230.38	232.28	230.31	230.26	230.28	230.34	230.36	230.35	230.47	
28	230.33	230.57	230.52	230.42	232.38	230.21	230.28	230.26	230.32	230.34	230.37	230.50	
29	230.35	230.69	230.51	230.43	231.70	230.25	230.25	230.24	230.35	230.40	230.37	230.49	
30	230.30	230.74	230.51	230.42	231.56	230.29	230.23	230.24	230.40	230.45	230.45	230.44	
31		230.75		230.50	232.09		230.20		230.46	230.41		230.50	
Mean	230.26	230.42	230.70	230.47	231.13	231.14	230.28	230.28	230.24	230.39	230.36	230.42	
Max	230.35	230.75	231.16	230.91	232.38	233.65	230.52	230.34	230.46	230.46	230.47	230.56	233.65
Min	230.13	230.23	230.50	230.21	230.42	230.21	230.02	230.21	229.97	230.31	230.31	230.34	229.97
Annual Max Momentary Gage Height	233.90		m. (MSL.) ,				at 09.00 Hours , on Sep 4 , 2019						
Zero Gage at Bottom Elevation	228.90		m. (MSL.) ,			River Bed	229.28		m. (MSL.)				
Left Bank Elevation		240.55		m. (MSL.) ,									
Right Bank Elevation		240.46		m. (MSL.) ,		Drainage Are	3,093		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.48	5.00	2.60	1.85	174.30	0.40	0.28	0.33	1.63	1.18	0.95	
2	0.08	0.38	4.40	2.80	1.55	158.90	0.33	0.33	0.33	1.55	1.55	1.18	
3	0.23	0.33	4.80	2.40	1.40	172.10	0.18	0.38	0.38	1.63	1.78	1.40	
4	0.38	0.43	5.00	2.60	2.00	242.50	0.15	0.40	0.43	1.48	0.88	2.30	
5	0.45	0.58	7.80	9.40	2.00	101.00	0.00	0.43	0.40	1.48	0.73	2.60	
6	0.40	0.80	16.00	5.40	2.40	56.10	0.38	0.45	0.28	1.33	0.80	1.85	
7	0.40	0.88	21.00	3.20	2.60	52.60	0.38	0.45	0.15	1.10	0.80	1.63	
8	0.50	0.95	7.20	4.20	2.40	40.00	0.45	0.43	0.10	0.88	0.73	1.40	
9	0.38	0.73	9.80	2.90	1.70	34.00	0.50	0.48	0.03	1.18	0.65	2.00	
10	0.35	0.80	6.60	3.20	3.10	14.50	0.58	0.50	0.00	0.95	0.58	0.88	
11	0.28	0.73	4.80	2.90	6.30	4.40	0.88	0.58	0.00	0.58	0.73	1.78	
12	0.20	0.58	4.40	2.60	36.40	10.60	1.40	0.58	0.88	0.73	0.65	0.88	
13	0.15	0.40	4.80	2.20	32.80	17.50	1.40	0.65	0.18	0.58	0.58	0.80	
14	0.40	0.40	4.80	1.78	23.00	6.00	2.20	0.80	0.00	0.58	0.80	1.10	
15	0.35	0.88	4.60	1.03	6.00	3.80	1.10	0.65	0.00	1.18	0.73	1.33	
16	0.43	1.40	4.60	0.45	5.60	4.40	0.88	0.58	0.00	1.55	0.88	1.25	
17	0.45	1.63	4.40	0.45	6.00	3.80	1.18	0.58	0.00	1.48	1.03	1.18	
18	0.50	1.48	3.80	1.03	18.00	3.30	1.10	0.50	0.10	1.70	0.88	1.10	
19	0.45	1.40	3.20	0.65	58.90	2.50	0.88	0.45	0.28	1.25	1.10	1.10	
20	0.73	1.03	4.00	0.28	32.80	2.60	0.48	0.43	0.48	1.03	0.88	0.95	
21	0.65	1.33	3.20	0.65	20.50	7.50	0.43	0.43	0.80	1.03	1.03	0.95	
22	0.50	2.20	2.60	0.80	21.00	5.80	0.35	0.43	1.18	1.10	1.10	1.10	
23	0.45	2.00	2.10	0.95	19.50	3.00	0.33	0.50	1.48	1.25	0.88	1.10	
24	0.43	1.70	2.00	0.88	29.20	1.93	0.38	0.43	1.25	1.18	1.25	1.25	
25	0.43	2.60	2.60	0.88	42.10	1.63	0.38	0.45	1.03	1.33	1.25	1.48	
26	0.23	2.30	2.30	1.25	97.00	0.95	0.38	0.48	1.25	1.40	1.10	1.70	
27	0.58	2.80	2.50	1.10	99.40	0.58	0.40	0.45	0.80	0.95	0.88	1.78	
28	0.73	2.70	2.20	1.40	108.20	0.28	0.45	0.40	0.65	0.80	1.03	2.00	
29	0.88	3.90	2.10	1.48	54.00	0.38	0.38	0.35	0.88	1.25	1.03	1.93	
30	0.50	4.80	2.10	1.40	44.20	0.48	0.33	0.35	1.25	1.63		1.55	
31		5.00		2.00	84.20		0.25		1.70	1.33		2.00	
Total	12.67	47.62	154.70	64.86	866.10	1127.43	18.91	14.20	16.62	37.12	27.49	44.50	2432.22 CMSDAY
Mean	0.42	1.54	5.16	2.09	27.94	37.58	0.61	0.47	0.54	1.20	0.95	1.44	6.65 CMS
Max	0.88	5.00	21.00	9.40	108.20	242.50	2.20	0.80	1.70	1.70	1.78	2.60	242.50 CMS
Min	0.08	0.33	2.00	0.28	1.40	0.28	0.00	0.28	0.00	0.58	0.58	0.80	0.00 CMS
Runoff	1.09	4.11	13.37	5.60	74.83	97.41	1.63	1.23	1.44	3.21	2.38	3.84	210.14 MCM
Momentary Peak	272.00 CMS. at 233.90 m. (MSL) at 09.00 Hours , on Sep 4 , 2019												
Runoff Yield	2.15 Liters/Second/Square KM.			Momentary Peak Yield			87.94 Liters/Second/Square KM.						



## WATER YEAR : 2019

## KHONG RIVER BASIN

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

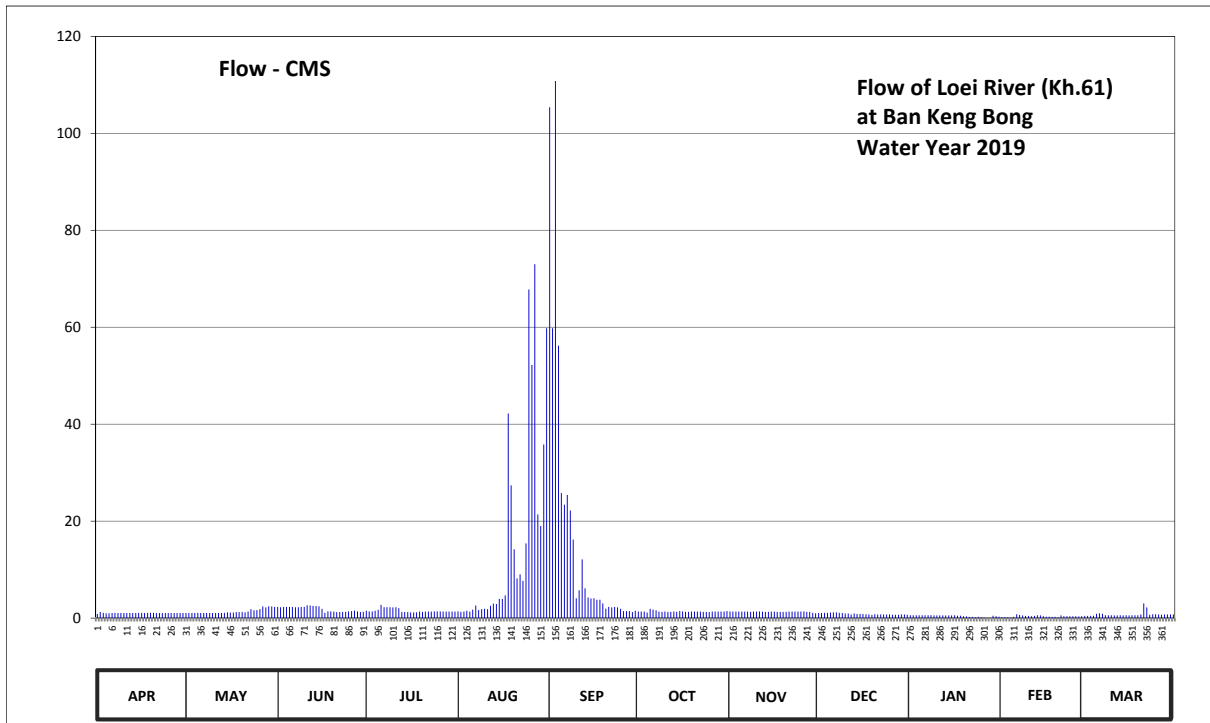
Lat 17 - 07 - 44 N Long 101 - 40 - 56 E

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

	Ban Keng Bong	Amphoe Phu Luang	Changwat Loei
<b>Drainage Area</b>	549 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+258.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+271.976 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	258.87	258.91	259.16	259.00	258.98	262.34	258.97	258.98	258.91	258.82	258.74	258.79	
2	258.95	258.91	259.15	258.98	258.96	261.47	258.97	258.97	258.91	258.82	258.74	258.79	
3	258.92	258.91	259.16	258.98	258.97	262.43	258.97	258.97	258.92	258.82	258.73	258.79	
4	258.90	258.91	259.16	259.00	259.00	261.38	258.93	258.97	258.92	258.82	258.72	258.80	
5	258.90	258.92	259.16	259.04	258.97	260.62	259.08	258.97	258.93	258.82	258.75	258.88	
6	258.91	258.91	259.16	259.25	259.05	260.56	259.05	258.97	258.94	258.82	258.86	258.90	
7	258.92	258.91	259.15	259.15	259.22	260.61	259.02	258.97	258.94	258.82	258.83	258.88	
8	258.91	258.91	259.15	259.15	259.03	260.53	258.97	258.96	258.92	258.82	258.81	258.82	
9	258.91	258.91	259.16	259.15	259.07	260.38	258.96	258.97	258.91	258.81	258.79	258.82	
10	258.91	258.91	259.16	259.14	259.08	259.52	258.97	258.97	258.89	258.81	258.79	258.82	
11	258.91	258.91	259.23	259.15	259.07	259.85	258.96	258.98	258.89	258.81	258.78	258.81	
12	258.91	258.91	259.22	259.11	259.21	260.27	258.96	258.97	258.85	258.81	258.79	258.81	
13	258.91	258.91	259.20	258.96	259.30	259.93	258.97	258.96	258.89	258.81	258.82	258.82	
14	258.91	258.92	259.20	258.95	259.28	259.55	258.96	258.96	258.87	258.81	258.81	258.81	
15	258.92	258.94	259.19	258.95	259.49	259.51	258.99	258.97	258.87	258.81	258.78	258.82	
16	258.92	258.93	259.08	258.94	259.49	259.52	258.98	258.97	258.87	258.82	258.76	258.81	
17	258.91	258.93	258.92	258.94	259.64	259.46	258.96	258.96	258.86	258.80	258.76	258.82	
18	258.92	258.95	258.98	258.94	261.03	259.46	258.96	258.96	258.85	258.80	258.75	258.82	
19	258.92	258.95	258.98	258.97	260.66	259.31	258.97	258.96	258.83	258.78	258.75	258.82	
20	258.92	258.95	258.97	258.96	260.33	259.09	258.97	258.96	258.86	258.77	258.73	258.85	
21	258.91	258.94	258.95	258.97	260.11	259.16	258.97	258.97	258.85	258.75	258.81	259.31	
22	258.91	258.97	258.95	258.97	260.15	259.14	258.97	258.97	258.85	258.75	258.78	259.14	
23	258.91	259.07	258.96	258.97	260.08	259.16	258.96	258.97	258.85	258.74	258.78	258.84	
24	258.91	259.02	258.96	258.98	260.36	259.14	258.96	258.97	258.85	258.75	258.78	258.86	
25	258.91	259.03	258.98	258.98	261.67	259.08	258.95	258.97	258.85	258.73	258.78	258.86	
26	258.91	259.07	258.99	258.98	261.28	258.99	258.97	258.98	258.84	258.72	258.78	258.85	
27	258.91	259.18	259.01	258.97	261.78	258.99	258.97	258.96	258.84	258.69	258.77	258.84	
28	258.91	259.14	258.98	258.97	260.51	258.99	258.97	258.96	258.84	258.65	258.78	258.85	
29	258.91	259.19	258.95	258.97	260.45	258.95	258.97	258.92	258.85	258.80	258.78	258.85	
30	258.91	259.18	258.96	258.97	260.87	259.00	258.97	258.90	258.85	258.78	258.78	258.85	
31		259.16		258.97	261.47		258.99		258.84	258.76		258.85	
Mean	258.91	258.98	259.07	259.01	259.89	259.88	258.97	258.96	258.88	258.78	258.78	258.86	
Max	258.95	259.19	259.23	259.25	261.78	262.43	259.08	258.98	258.94	258.82	258.86	259.31	262.43
Min	258.87	258.91	258.92	258.94	258.96	258.95	258.93	258.90	258.83	258.65	258.72	258.79	258.65
Annual Max Momentary Gage Height	262.86		m. (MSL.) ,				at 02.00 Hours ,						on Sep 1 , 2019
Zero Gage at Bottom Elevation	258.40		m. (MSL.) ,			River Bed	258.01	m. (MSL.)					
Left Bank Elevation		271.88		m. (MSL.) ,									
Right Bank Elevation		271.81		m. (MSL.) ,		Drainage Are	549	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	1.05	2.30	1.50	1.40	105.40	1.35	1.40	1.05	0.60	0.20	0.45	
2	1.25	1.05	2.25	1.40	1.30	59.80	1.35	1.35	1.05	0.60	0.20	0.45	
3	1.10	1.05	2.30	1.40	1.35	110.80	1.35	1.35	1.10	0.60	0.15	0.45	
4	1.00	1.05	2.30	1.50	1.50	56.20	1.15	1.35	1.10	0.60	0.10	0.50	
5	1.00	1.10	2.30	1.70	1.35	25.80	1.90	1.35	1.15	0.60	0.25	0.90	
6	1.05	1.05	2.30	2.75	1.75	23.40	1.75	1.35	1.20	0.60	0.80	1.00	
7	1.10	1.05	2.25	2.25	2.60	25.40	1.60	1.35	1.20	0.60	0.65	0.90	
8	1.05	1.05	2.25	2.25	1.65	22.20	1.35	1.30	1.10	0.60	0.55	0.60	
9	1.05	1.05	2.30	2.25	1.85	16.20	1.30	1.35	1.05	0.55	0.45	0.60	
10	1.05	1.05	2.30	2.20	1.90	4.10	1.35	1.35	0.95	0.55	0.45	0.60	
11	1.05	1.05	2.65	2.25	1.85	5.75	1.30	1.40	0.95	0.55	0.40	0.55	
12	1.05	1.05	2.60	2.05	2.55	12.10	1.30	1.35	0.75	0.55	0.45	0.55	
13	1.05	1.05	2.50	1.30	3.00	6.15	1.35	1.30	0.95	0.55	0.60	0.60	
14	1.05	1.10	2.50	1.25	2.90	4.25	1.30	1.30	0.85	0.55	0.55	0.55	
15	1.10	1.20	2.45	1.25	3.95	4.05	1.45	1.35	0.85	0.55	0.40	0.60	
16	1.10	1.15	1.90	1.20	3.95	4.10	1.40	1.35	0.85	0.60	0.30	0.55	
17	1.05	1.15	1.10	1.20	4.70	3.80	1.30	1.30	0.80	0.50	0.30	0.60	
18	1.10	1.25	1.40	1.20	42.20	3.80	1.30	1.30	0.75	0.50	0.25	0.60	
19	1.10	1.25	1.40	1.35	27.40	3.05	1.35	1.30	0.65	0.40	0.25	0.60	
20	1.10	1.25	1.35	1.30	14.20	1.95	1.35	1.30	0.80	0.35	0.15	0.75	
21	1.05	1.20	1.25	1.35	8.20	2.30	1.35	1.35	0.75	0.25	0.55	3.05	
22	1.05	1.35	1.25	1.35	9.00	2.20	1.35	1.35	0.75	0.25	0.40	2.20	
23	1.05	1.85	1.30	1.35	7.70	2.30	1.30	1.35	0.75	0.20	0.40	0.70	
24	1.05	1.60	1.30	1.40	15.40	2.20	1.30	1.35	0.75	0.25	0.40	0.80	
25	1.05	1.65	1.40	1.40	67.80	1.90	1.25	1.35	0.75	0.15	0.40	0.80	
26	1.05	1.85	1.45	1.40	52.20	1.45	1.35	1.40	0.70	0.10	0.40	0.75	
27	1.05	2.40	1.55	1.35	73.00	1.45	1.35	1.30	0.70	0.00	0.35	0.70	
28	1.05	2.20	1.40	1.35	21.40	1.45	1.35	1.30	0.70	0.00	0.40	0.75	
29	1.05	2.45	1.25	1.35	19.00	1.25	1.35	1.10	0.75	0.50	0.40	0.75	
30	1.05	2.40	1.30	1.35	35.80	1.50	1.35	1.00	0.75	0.40		0.75	
31		2.30		1.35	59.80		1.45		0.70	0.30		0.75	
<b>Total</b>	31.75	43.30	56.15	48.55	492.65	516.30	42.60	39.60	27.20	13.40	11.15	24.40	1347.05 CMSDAY
<b>Mean</b>	1.06	1.40	1.87	1.57	15.89	17.21	1.37	1.32	0.88	0.43	0.38	0.79	3.68 CMS
<b>Max</b>	1.25	2.45	2.65	2.75	73.00	110.80	1.90	1.40	1.20	0.60	0.80	3.05	110.80 CMS
<b>Min</b>	0.85	1.05	1.10	1.20	1.30	1.25	1.15	1.00	0.65	0.00	0.10	0.45	0.00 CMS
<b>Runoff</b>	2.74	3.74	4.85	4.19	42.56	44.61	3.68	3.42	2.35	1.16	0.96	2.11	116.39 MCM
<b>Momentary Peak</b>	137.20	137.20	CMS.	at 262.86 m. (MSL.)	at 02.00 Hours ,	on Sep 1 , 2019							
<b>Runoff Yield</b>	6.72	6.72	Liters/Second/Square KM.		Momentary Peak Yield	249.91	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

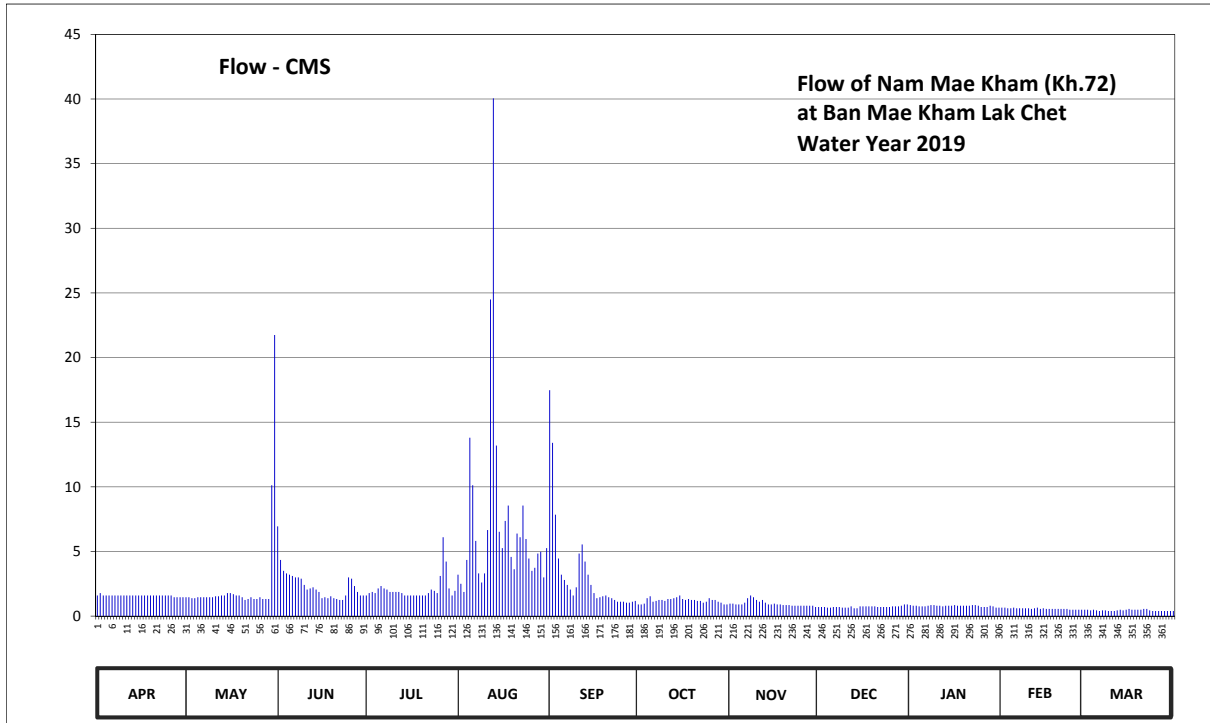
Lat 20 - 13 - 01 N Long 99 - 51 - 38 E

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

	<b>Ban</b>	<b>Mae Kham Lak Chet</b>	<b>Amphoe</b>	<b>Mae Chan</b>	<b>Changwat</b>	<b>Chiang Rai</b>
<b>Drainage Area</b>	667	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+393.400 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.				<b>Elevation</b>	+399.176 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1982 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1993 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1993 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by the bridge of Chiang Rai - Mae Sai Highway construction. Stage-discharge relation defined by 29 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	393.70	393.68	394.16	393.70	393.87	394.71	393.60	393.61	393.56	393.59	393.55	393.52	
2	393.72	393.68	393.97	393.72	393.80	394.52	393.60	393.61	393.56	393.58	393.55	393.52	
3	393.70	393.67	393.90	393.73	393.73	394.22	393.61	393.60	393.56	393.58	393.54	393.51	
4	393.70	393.67	393.88	393.72	393.97	393.98	393.67	393.60	393.55	393.57	393.54	393.52	
5	393.70	393.68	393.87	393.76	394.54	393.87	393.69	393.60	393.55	393.57	393.55	393.51	
6	393.70	393.68	393.86	393.78	394.35	393.83	393.63	393.62	393.56	393.57	393.54	393.50	
7	393.70	393.68	393.85	393.76	394.08	393.79	393.64	393.67	393.56	393.58	393.54	393.51	
8	393.70	393.68	393.85	393.75	393.88	393.75	393.65	393.70	393.56	393.59	393.54	393.51	
9	393.70	393.68	393.84	393.73	393.81	393.70	393.65	393.68	393.55	393.59	393.54	393.50	
10	393.70	393.68	393.79	393.73	393.88	393.77	393.64	393.65	393.55	393.58	393.54	393.50	
11	393.70	393.69	393.75	393.73	394.14	394.01	393.66	393.63	393.55	393.58	393.53	393.50	
12	393.70	393.69	393.76	393.73	395.00	394.06	393.66	393.65	393.57	393.57	393.54	393.51	
13	393.70	393.70	393.77	393.72	395.54	393.96	393.67	393.62	393.54	393.58	393.55	393.52	
14	393.70	393.70	393.75	393.70	394.51	393.87	393.68	393.60	393.54	393.58	393.53	393.51	
15	393.70	393.72	393.73	393.70	394.13	393.79	393.70	393.60	393.57	393.58	393.54	393.52	
16	393.70	393.72	393.67	393.70	394.04	393.72	393.66	393.61	393.57	393.59	393.53	393.53	
17	393.70	393.71	393.68	393.70	394.19	393.67	393.65	393.60	393.57	393.58	393.53	393.52	
18	393.70	393.70	393.67	393.70	394.26	393.68	393.66	393.60	393.57	393.58	393.53	393.52	
19	393.70	393.70	393.69	393.70	393.99	393.69	393.65	393.59	393.57	393.58	393.53	393.52	
20	393.70	393.68	393.67	393.70	393.91	393.70	393.65	393.59	393.57	393.58	393.53	393.52	
21	393.70	393.65	393.66	393.70	394.12	393.68	393.64	393.59	393.56	393.58	393.53	393.53	
22	393.70	393.66	393.65	393.72	394.10	393.67	393.64	393.58	393.56	393.59	393.53	393.53	
23	393.70	393.68	393.65	393.75	394.26	393.65	393.62	393.58	393.56	393.59	393.53	393.51	
24	393.70	393.66	393.70	393.74	394.09	393.63	393.63	393.58	393.56	393.58	393.52	393.50	
25	393.70	393.66	393.85	393.72	393.98	393.63	393.67	393.58	393.56	393.56	393.52	393.50	
26	393.70	393.68	393.84	393.86	393.90	393.63	393.65	393.58	393.57	393.56	393.52	393.50	
27	393.68	393.66	393.78	394.10	393.92	393.62	393.65	393.58	393.57	393.56	393.52	393.50	
28	393.68	393.66	393.73	393.96	394.01	393.62	393.63	393.58	393.57	393.58	393.52	393.50	
29	393.68	393.66	393.70	393.76	394.02	393.63	393.62	393.58	393.58	393.57	393.52	393.50	
30	393.68	394.35	393.70	393.70	393.85	393.64	393.60	393.56	393.60	393.55	393.55	393.50	
31		394.89		393.74	394.04		393.60		393.60	393.55		393.50	
Mean	393.70	393.74	393.78	393.75	394.13	393.82	393.64	393.61	393.56	393.58	393.53	393.51	
Max	393.72	394.89	394.16	394.10	395.54	394.71	393.70	393.70	393.60	393.59	393.55	393.53	395.54
Min	393.68	393.65	393.65	393.70	393.73	393.62	393.60	393.56	393.54	393.55	393.52	393.50	393.50
Annual Max Momentary Gage Height	395.80		m. (MSL.) ,			at 12.00 Hours ,							
Zero Gage at Bottom Elevation	393.40		m. (MSL.) ,			River Bed	393.37	m. (MSL.)					
Left Bank Elevation		399.79		m. (MSL.) ,									
Right Bank Elevation		399.73		m. (MSL.) ,		Drainage Are	667	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	1.46	6.94	1.60	3.20	17.48	0.90	0.97	0.70	0.85	0.65	0.50	
2	1.78	1.46	4.34	1.78	2.50	13.40	0.90	0.97	0.70	0.80	0.65	0.50	
3	1.60	1.39	3.50	1.87	1.87	7.85	0.97	0.90	0.70	0.80	0.60	0.45	
4	1.60	1.39	3.30	1.78	4.34	4.46	1.39	0.90	0.65	0.75	0.60	0.50	
5	1.60	1.46	3.20	2.14	13.80	3.20	1.53	0.90	0.65	0.75	0.65	0.45	
6	1.60	1.46	3.10	2.32	10.13	2.80	1.11	1.04	0.70	0.75	0.60	0.40	
7	1.60	1.46	3.00	2.14	5.82	2.41	1.18	1.39	0.70	0.80	0.60	0.45	
8	1.60	1.46	3.00	2.05	3.30	2.05	1.25	1.60	0.70	0.85	0.60	0.45	
9	1.60	1.46	2.90	1.87	2.60	1.60	1.25	1.46	0.65	0.85	0.60	0.40	
10	1.60	1.46	2.41	1.87	3.30	2.23	1.18	1.25	0.65	0.80	0.60	0.40	
11	1.60	1.53	2.05	1.87	6.66	4.84	1.32	1.11	0.65	0.80	0.55	0.40	
12	1.60	1.53	2.14	1.87	24.50	5.54	1.32	1.25	0.75	0.75	0.60	0.45	
13	1.60	1.60	2.23	1.78	40.05	4.22	1.39	1.04	0.60	0.80	0.65	0.50	
14	1.60	1.60	2.05	1.60	13.20	3.20	1.46	0.90	0.60	0.80	0.55	0.45	
15	1.60	1.78	1.87	1.60	6.52	2.41	1.60	0.90	0.75	0.80	0.60	0.50	
16	1.60	1.78	1.39	1.60	5.26	1.78	1.32	0.97	0.75	0.85	0.55	0.55	
17	1.60	1.69	1.46	1.60	7.36	1.39	1.25	0.90	0.75	0.80	0.55	0.50	
18	1.60	1.60	1.39	1.60	8.55	1.46	1.32	0.90	0.75	0.80	0.55	0.50	
19	1.60	1.60	1.53	1.60	4.58	1.53	1.25	0.85	0.75	0.80	0.55	0.50	
20	1.60	1.46	1.39	1.60	3.62	1.60	1.25	0.85	0.75	0.80	0.55	0.50	
21	1.60	1.25	1.32	1.60	6.38	1.46	1.18	0.85	0.70	0.80	0.55	0.55	
22	1.60	1.32	1.25	1.78	6.10	1.39	1.18	0.80	0.70	0.85	0.55	0.55	
23	1.60	1.46	1.25	2.05	8.55	1.25	1.04	0.80	0.70	0.85	0.55	0.45	
24	1.60	1.32	1.60	1.96	5.96	1.11	1.11	0.80	0.70	0.80	0.50	0.40	
25	1.60	1.32	3.00	1.78	4.46	1.11	1.39	0.80	0.70	0.70	0.50	0.40	
26	1.60	1.46	2.90	3.10	3.50	1.11	1.25	0.80	0.75	0.70	0.50	0.40	
27	1.46	1.32	2.32	6.10	3.74	1.04	1.25	0.80	0.75	0.70	0.50	0.40	
28	1.46	1.32	1.87	4.22	4.84	1.04	1.11	0.80	0.75	0.80	0.50	0.40	
29	1.46	1.32	1.60	2.14	4.98	1.11	1.04	0.80	0.80	0.75	0.50	0.40	
30	1.46	10.13	1.60	1.60	3.00	1.18	0.90	0.70	0.90	0.65		0.40	
31		21.75		1.96	5.26		0.90		0.90	0.65		0.40	
<b>Total</b>	47.62	74.60	71.90	64.43	227.93	97.25	37.49	29.00	22.25	24.25	16.50	14.10	727.32 CMSDAY
<b>Mean</b>	1.59	2.41	2.40	2.08	7.35	3.24	1.21	0.97	0.72	0.78	0.57	0.45	1.99 CMS
<b>Max</b>	1.78	21.75	6.94	6.10	40.05	17.48	1.60	1.60	0.90	0.85	0.65	0.55	40.05 CMS
<b>Min</b>	1.46	1.25	1.25	1.60	1.87	1.04	0.90	0.70	0.60	0.65	0.50	0.40	0.40 CMS
<b>Runoff</b>	4.11	6.45	6.21	5.57	19.69	8.40	3.24	2.51	1.92	2.10	1.43	1.22	62.84 MCM
<b>Momentary Peak</b>	48.50 CMS. at 395.80 m. (MSL.) at 12.00 Hours , on Aug 13 , 2019												
<b>Runoff Yield</b>	3.09 Liters/Second/Square KM.			Momentary Peak Yield 75.31 Liters/Second/Square KM.									

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

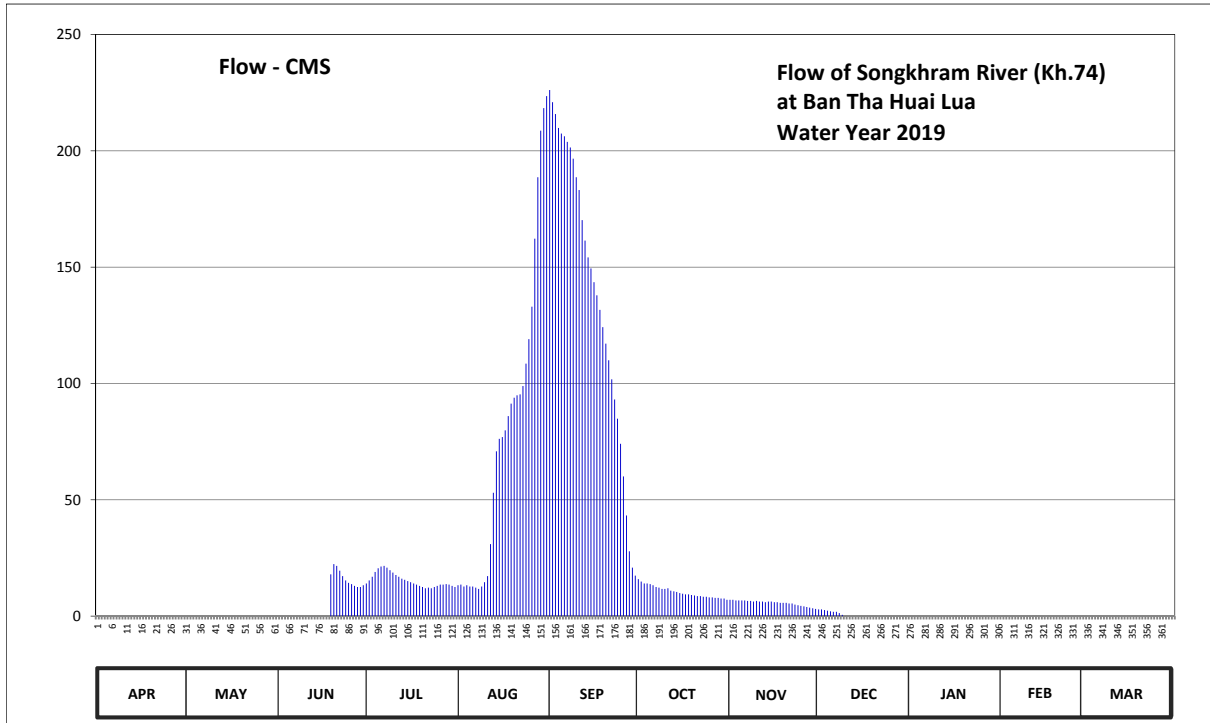
Lat 17 - 49 - 07 N Long 103 - 23 - 16 E

Location : on left bank at Ban Tha Huai Lua.

	<b>Ban</b>	<b>Tha Huai Lua</b>	<b>Amphoe</b>	<b>Ban Muang</b>	<b>Changwat</b>	<b>Sakon Nakhon</b>
<b>Drainage Area</b>	2,199	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+145.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+157.031 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.13	148.96	149.02	150.34	150.31	154.67	150.41	150.07	149.91	149.58	149.08	148.54	
2	149.13	148.95	149.05	150.39	150.32	154.63	150.37	150.07	149.91	149.58	148.99	148.53	
3	149.12	148.94	149.07	150.45	150.29	154.59	150.34	150.06	149.90	149.56	148.97	148.56	
4	149.11	148.94	149.07	150.53	150.31	154.54	150.34	150.06	149.89	149.55	148.95	148.58	
5	149.11	148.94	149.06	150.59	150.29	154.52	150.33	150.06	149.88	149.54	148.93	148.60	
6	149.09	148.94	149.07	150.62	150.29	154.51	150.31	150.06	149.87	149.52	148.91	148.62	
7	149.09	148.94	149.06	150.63	150.27	154.49	150.28	150.05	149.87	149.49	148.88	148.63	
8	149.08	148.97	149.06	150.60	150.25	154.47	150.27	150.05	149.85	149.47	148.85	148.63	
9	149.08	148.97	149.06	150.56	150.29	154.43	150.25	150.04	149.82	149.45	148.83	148.63	
10	149.06	148.96	149.05	150.52	150.36	154.36	150.25	150.05	149.80	149.43	148.82	148.63	
11	149.06	148.96	149.03	150.48	150.46	154.31	150.26	150.04	149.79	149.43	148.80	148.62	
12	149.06	148.95	149.02	150.45	150.99	154.19	150.22	150.04	149.78	149.42	148.78	148.62	
13	149.05	148.94	149.04	150.42	151.78	154.08	150.21	150.03	149.77	149.41	148.77	148.60	
14	149.04	148.95	149.07	150.40	152.30	153.99	150.20	150.04	149.77	149.40	148.75	148.60	
15	149.03	148.98	149.10	150.38	152.45	153.93	150.18	150.04	149.76	149.40	148.73	148.60	
16	149.05	148.97	149.15	150.36	152.47	153.85	150.17	150.03	149.75	149.38	148.72	148.60	
17	149.05	148.97	149.25	150.34	152.55	153.77	150.16	150.03	149.75	149.37	148.71	148.59	
18	149.05	148.97	149.74	150.32	152.72	153.68	150.16	150.02	149.74	149.35	148.69	148.58	
19	149.04	148.97	150.49	150.30	152.87	153.57	150.15	150.02	149.73	149.34	148.68	148.57	
20	149.03	148.96	150.66	150.28	152.94	153.44	150.14	150.02	149.72	149.33	148.66	148.56	
21	149.03	148.95	150.63	150.26	152.97	153.29	150.13	150.01	149.70	149.31	148.65	148.55	
22	149.03	148.95	150.55	150.27	152.98	153.12	150.13	150.01	149.69	149.29	148.64	148.54	
23	149.03	148.94	150.46	150.26	153.06	152.92	150.12	149.99	149.67	149.28	148.63	148.54	
24	149.02	148.96	150.39	150.28	153.26	152.69	150.12	149.98	149.66	149.27	148.62	148.55	
25	149.00	148.96	150.35	150.30	153.48	152.39	150.11	149.97	149.65	149.25	148.61	148.56	
26	149.00	148.96	150.33	150.32	153.70	152.00	150.11	149.96	149.64	149.23	148.59	148.57	
27	148.99	148.96	150.30	150.32	154.09	151.43	150.10	149.95	149.63	149.22	148.58	148.58	
28	148.98	148.96	150.28	150.33	154.36	150.87	150.10	149.94	149.62	149.20	148.57	148.58	
29	148.97	148.96	150.28	150.32	154.53	150.60	150.09	149.93	149.61	149.19	148.55	148.58	
30	148.96	148.99	150.31	150.30	154.61	150.47	150.09	149.92	149.60	149.17	148.54	148.58	
31		149.00		150.28	154.65		150.07		149.59	149.14	148.53	148.58	
Mean	149.05	148.96	149.63	150.39	152.14	153.46	150.20	150.02	149.75	149.37	148.76	148.58	
Max	149.13	149.00	150.66	150.63	154.65	154.67	150.41	150.07	149.91	149.58	149.08	148.63	154.67
Min	148.96	148.94	149.02	150.26	150.25	150.47	150.07	149.92	149.59	149.14	148.55	148.53	148.53
Annual Max Momentary Gage Height	154.67		m. (MSL.) ,				at 01.00 Hours ,						on Sep 1 , 2019
Zero Gage at Bottom Elevation	145.30		m. (MSL.) ,			River Bed	145.24		m. (MSL.)				
Left Bank Elevation		156.42		m. (MSL.) ,									
Right Bank Elevation		156.59		m. (MSL.) ,		Drainage Are	2,199		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	14.04	13.26	226.10	15.86	7.02	2.86	0.00	0.00	0.00	
2	0.00	0.00	0.00	15.34	13.52	220.90	14.82	7.02	2.86	0.00	0.00	0.00	
3	0.00	0.00	0.00	16.90	12.74	215.80	14.04	6.76	2.60	0.00	0.00	0.00	
4	0.00	0.00	0.00	18.98	13.26	209.80	14.04	6.76	2.34	0.00	0.00	0.00	
5	0.00	0.00	0.00	20.54	12.74	207.40	13.78	6.76	2.08	0.00	0.00	0.00	
6	0.00	0.00	0.00	21.32	12.74	206.20	13.26	6.76	1.82	0.00	0.00	0.00	
7	0.00	0.00	0.00	21.58	12.22	203.80	12.48	6.50	1.82	0.00	0.00	0.00	
8	0.00	0.00	0.00	20.80	11.70	201.40	12.22	6.50	1.30	0.00	0.00	0.00	
9	0.00	0.00	0.00	19.76	12.74	196.60	11.70	6.24	0.52	0.00	0.00	0.00	
10	0.00	0.00	0.00	18.72	14.56	188.60	11.70	6.50	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	17.68	17.16	183.10	11.96	6.24	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	16.90	30.94	170.20	10.92	6.24	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	16.12	53.04	161.40	10.66	5.98	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	15.60	70.80	154.20	10.40	6.24	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	15.08	76.20	149.40	9.88	6.24	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	14.56	76.92	143.50	9.62	5.98	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	14.04	79.80	137.90	9.36	5.98	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	13.52	85.92	131.60	9.36	5.72	0.00	0.00	0.00	0.00	
19	0.00	0.00	17.94	13.00	91.32	124.20	9.10	5.72	0.00	0.00	0.00	0.00	
20	0.00	0.00	22.36	12.48	93.84	117.12	8.84	5.72	0.00	0.00	0.00	0.00	
21	0.00	0.00	21.58	11.96	94.92	109.92	8.58	5.46	0.00	0.00	0.00	0.00	
22	0.00	0.00	19.50	12.22	95.28	101.76	8.58	5.46	0.00	0.00	0.00	0.00	
23	0.00	0.00	17.16	11.96	98.88	93.12	8.32	4.94	0.00	0.00	0.00	0.00	
24	0.00	0.00	15.34	12.48	108.48	84.84	8.32	4.68	0.00	0.00	0.00	0.00	
25	0.00	0.00	14.30	13.00	119.04	74.04	8.06	4.42	0.00	0.00	0.00	0.00	
26	0.00	0.00	13.78	13.52	133.00	60.00	8.06	4.16	0.00	0.00	0.00	0.00	
27	0.00	0.00	13.00	13.52	162.20	43.24	7.80	3.90	0.00	0.00	0.00	0.00	
28	0.00	0.00	12.48	13.78	188.60	27.82	7.80	3.64	0.00	0.00	0.00	0.00	
29	0.00	0.00	12.48	13.52	208.60	20.80	7.54	3.38	0.00	0.00	0.00	0.00	
30	0.00	0.00	13.26	13.00	218.30	17.42	7.54	3.12	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	12.48	223.50	0.00	7.02	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	193.18	478.40	2456.22	4182.18	321.62	170.04	18.20	0.00	0.00	0.00	7819.84 CMSDAY
Mean	0.00	0.00	6.44	15.43	79.23	139.41	10.37	5.67	0.59	0.00	0.00	0.00	21.37 CMS
Max	0.00	0.00	22.36	21.58	223.50	226.10	15.86	7.02	2.86	0.00	0.00	0.00	226.10 CMS
Min	0.00	0.00	0.00	11.96	11.70	17.42	7.02	3.12	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	16.69	41.33	212.22	361.34	27.79	14.69	1.57	0.00	0.00	0.00	675.63 MCM
Momentary Peak	226.10	CMS.	at 154.67 m. (MSL.)	at 01.00 Hours	, on Sep 1, 2019								
Runoff Yield	9.74	Liters/Second/Square KM.		Momentary Peak Yield	102.82	Liters/Second/Square KM.							

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

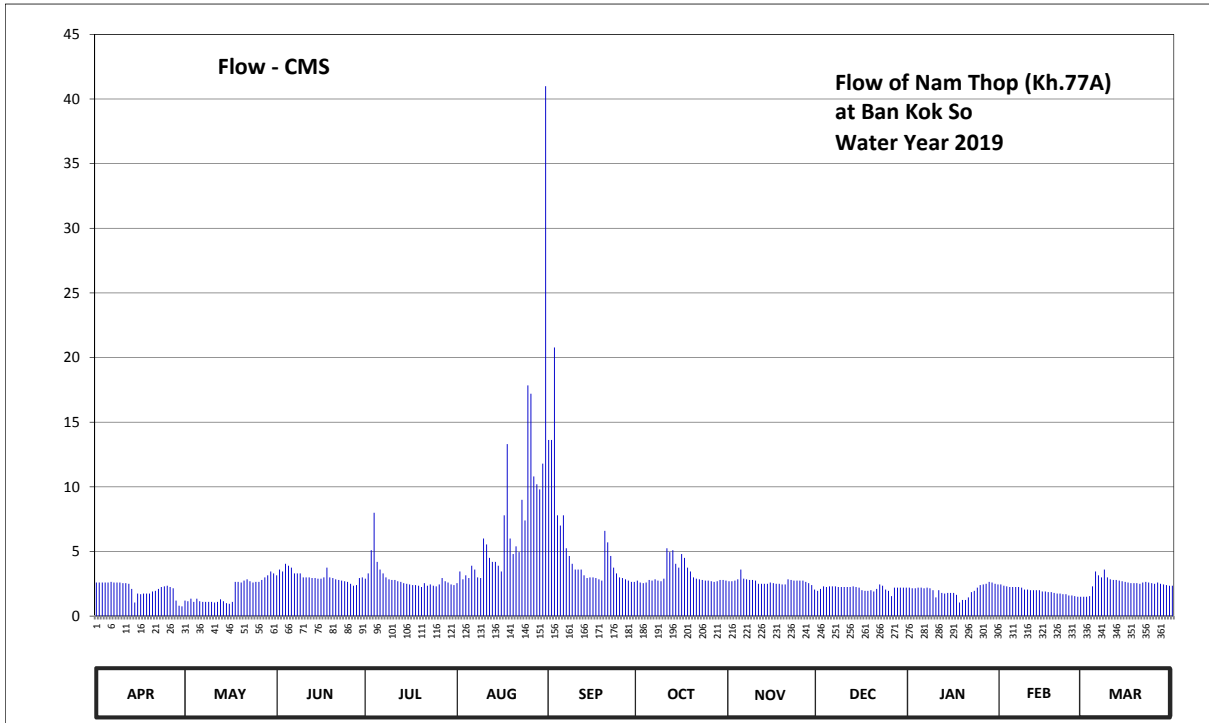
Lat 17 - 15 - 46 N Long 101 - 39 - 28 E

Location : on left bank at Ban Kok So.

	<b>Ban</b>	<b>Kok So</b>	<b>Amphoe</b>	<b>Wang Saphung</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	156	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+261.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+268.630 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The cataract situated downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.52	261.24	261.61	261.58	261.51	262.15	261.55	261.54	261.39	261.44	261.49	261.30	
2	261.52	261.23	261.64	261.62	261.63	262.15	261.52	261.54	261.42	261.43	261.47	261.30	
3	261.52	261.27	261.63	261.74	261.57	262.37	261.51	261.55	261.46	261.43	261.46	261.31	
4	261.52	261.22	261.67	261.90	261.61	261.89	261.52	261.57	261.45	261.44	261.45	261.46	
5	261.52	261.27	261.66	261.68	261.59	261.85	261.56	261.64	261.46	261.44	261.45	261.63	
6	261.53	261.23	261.65	261.64	261.66	261.89	261.55	261.58	261.46	261.43	261.45	261.61	
7	261.52	261.22	261.62	261.62	261.64	261.75	261.57	261.57	261.46	261.44	261.45	261.60	
8	261.52	261.22	261.62	261.60	261.60	261.71	261.55	261.56	261.45	261.43	261.44	261.64	
9	261.52	261.22	261.62	261.57	261.59	261.67	261.54	261.56	261.45	261.40	261.41	261.60	
10	261.51	261.22	261.60	261.56	261.80	261.64	261.58	261.55	261.45	261.29	261.41	261.57	
11	261.51	261.21	261.60	261.56	261.77	261.64	261.75	261.50	261.45	261.40	261.40	261.56	
12	261.50	261.22	261.60	261.54	261.70	261.64	261.73	261.50	261.45	261.36	261.40	261.56	
13	261.42	261.26	261.59	261.53	261.68	261.61	261.74	261.50	261.46	261.35	261.40	261.55	
14	261.21	261.23	261.59	261.51	261.68	261.59	261.67	261.50	261.45	261.36	261.40	261.54	
15	261.35	261.20	261.58	261.50	261.66	261.60	261.65	261.52	261.44	261.36	261.38	261.53	
16	261.34	261.19	261.58	261.49	261.63	261.60	261.72	261.51	261.40	261.36	261.38	261.52	
17	261.35	261.22	261.60	261.48	261.89	261.59	261.70	261.50	261.39	261.33	261.37	261.51	
18	261.35	261.53	261.65	261.48	262.14	261.57	261.65	261.50	261.39	261.21	261.37	261.51	
19	261.35	261.53	261.60	261.47	261.80	261.55	261.63	261.49	261.40	261.25	261.36	261.51	
20	261.38	261.52	261.59	261.45	261.72	261.83	261.60	261.49	261.38	261.25	261.35	261.50	
21	261.39	261.55	261.57	261.51	261.76	261.78	261.58	261.57	261.42	261.29	261.35	261.52	
22	261.42	261.57	261.56	261.47	261.73	261.71	261.57	261.56	261.49	261.37	261.34	261.53	
23	261.45	261.54	261.55	261.49	261.95	261.65	261.56	261.55	261.47	261.39	261.34	261.52	
24	261.46	261.52	261.54	261.47	261.87	261.62	261.55	261.55	261.41	261.44	261.32	261.51	
25	261.47	261.53	261.53	261.46	262.28	261.60	261.55	261.55	261.39	261.48	261.32	261.50	
26	261.45	261.53	261.50	261.49	262.26	261.59	261.54	261.55	261.31	261.49	261.31	261.52	
27	261.43	261.56	261.47	261.59	262.04	261.57	261.53	261.53	261.44	261.50	261.30	261.50	
28	261.24	261.60	261.48	261.54	262.01	261.55	261.54	261.51	261.44	261.53	261.30	261.49	
29	261.16	261.61	261.59	261.52	261.99	261.53	261.56	261.48	261.44	261.52	261.30	261.48	
30	261.15	261.63	261.60	261.49	262.09	261.53	261.56	261.41	261.44	261.50	261.30	261.47	
31		261.62		261.48	262.84		261.55		261.44	261.49		261.47	
Mean	261.42	261.38	261.59	261.55	261.83	261.71	261.59	261.53	261.43	261.40	261.39	261.51	
Max	261.53	261.63	261.67	261.90	262.84	262.37	261.75	261.64	261.49	261.53	261.49	261.64	262.84
Min	261.15	261.19	261.47	261.45	261.51	261.53	261.51	261.41	261.31	261.21	261.30	261.30	261.15
Annual Max Momentary Gage Height	263.23		m. (MSL.) ,				at 15.00 Hours ,						on Aug 31 , 2019
Zero Gage at Bottom Elevation	261.00		m. (MSL.) ,				River Bed	260.75		m. (MSL.)			
Left Bank Elevation	268.67		m. (MSL.) ,										
Right Bank Elevation	268.65		m. (MSL.) ,				Drainage Are	156		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	1.20	3.15	2.90	2.55	13.63	2.75	2.70	1.95	2.20	2.45	1.50	
2	2.60	1.15	3.60	3.30	3.45	13.63	2.60	2.70	2.10	2.15	2.35	1.50	
3	2.60	1.35	3.45	5.10	2.85	20.78	2.55	2.75	2.30	2.15	2.30	1.55	
4	2.60	1.10	4.05	8.00	3.15	7.80	2.60	2.85	2.25	2.20	2.25	2.30	
5	2.60	1.35	3.90	4.20	2.95	7.00	2.80	3.60	2.30	2.20	2.25	3.45	
6	2.65	1.15	3.75	3.60	3.90	7.80	2.75	2.90	2.30	2.15	2.25	3.15	
7	2.60	1.10	3.30	3.30	3.60	5.25	2.85	2.85	2.30	2.20	2.25	3.00	
8	2.60	1.10	3.30	3.00	3.00	4.65	2.75	2.80	2.25	2.15	2.20	3.60	
9	2.60	1.10	3.30	2.85	2.95	4.05	2.70	2.80	2.25	2.00	2.05	3.00	
10	2.55	1.10	3.00	2.80	6.00	3.60	2.90	2.75	2.25	1.45	2.05	2.85	
11	2.55	1.05	3.00	2.80	5.55	3.60	5.25	2.50	2.25	2.00	2.00	2.80	
12	2.50	1.10	3.00	2.70	4.50	3.60	4.95	2.50	2.25	1.80	2.00	2.80	
13	2.10	1.30	2.95	2.65	4.20	3.15	5.10	2.50	2.30	1.75	2.00	2.75	
14	1.05	1.15	2.95	2.55	4.20	2.95	4.05	2.50	2.25	1.80	2.00	2.70	
15	1.75	1.00	2.90	2.50	3.90	3.00	3.75	2.60	2.20	1.80	1.90	2.65	
16	1.70	0.95	2.90	2.45	3.45	3.00	4.80	2.55	2.00	1.80	1.90	2.60	
17	1.75	1.10	3.00	2.40	7.80	2.95	4.50	2.50	1.95	1.65	1.85	2.55	
18	1.75	2.65	3.75	2.40	13.30	2.85	3.75	2.50	1.95	1.05	1.85	2.55	
19	1.75	2.65	3.00	2.35	6.00	2.75	3.45	2.45	2.00	1.25	1.80	2.55	
20	1.90	2.60	2.95	2.25	4.80	6.60	3.00	2.45	1.90	1.25	1.75	2.50	
21	1.95	2.75	2.85	2.55	5.40	5.70	2.90	2.85	2.10	1.45	1.75	2.60	
22	2.10	2.85	2.80	2.35	4.95	4.65	2.85	2.80	2.45	1.85	1.70	2.65	
23	2.25	2.70	2.75	2.45	9.00	3.75	2.80	2.75	2.35	1.95	1.70	2.60	
24	2.30	2.60	2.70	2.35	7.40	3.30	2.75	2.75	2.05	2.20	1.60	2.55	
25	2.35	2.65	2.65	2.30	17.85	3.00	2.75	2.75	1.95	2.40	1.60	2.50	
26	2.25	2.65	2.50	2.45	17.20	2.95	2.70	2.75	1.55	2.45	1.55	2.60	
27	2.15	2.80	2.35	2.95	10.80	2.85	2.65	2.65	2.20	2.50	1.50	2.50	
28	1.20	3.00	2.40	2.70	10.20	2.75	2.70	2.55	2.20	2.65	1.50	2.45	
29	0.80	3.15	2.95	2.60	9.80	2.65	2.80	2.40	2.20	2.60	1.50	2.40	
30	0.75	3.45	3.00	2.45	11.80	2.65	2.80	2.05	2.20	2.50		2.35	
31		3.30		2.40	41.00		2.75		2.20	2.45		2.35	
Total	62.90	59.15	92.15	91.65	237.50	156.89	100.30	80.05	66.75	62.00	55.85	79.90	1145.09 CMSDAY
Mean	2.10	1.91	3.07	2.96	7.66	5.23	3.24	2.67	2.15	2.00	1.93	2.58	3.13 CMS
Max	2.65	3.45	4.05	8.00	41.00	20.78	5.25	3.60	2.45	2.65	2.45	3.60	41.00 CMS
Min	0.75	0.95	2.35	2.25	2.55	2.65	2.55	2.05	1.55	1.05	1.50	1.50	0.75 CMS
Runoff	5.43	5.11	7.96	7.92	20.52	13.56	8.67	6.92	5.77	5.36	4.83	6.90	98.94 MCM
Momentary Peak	67.70	CMS. at 263.23 m. (MSL.) at 15.00 Hours , on Aug 31 , 2019											
Runoff Yield	20.11	Liters/Second/Square KM. Momentary Peak Yield 433.97 Liters/Second/Square KM.											



## WATER YEAR : 2019

## KHONG RIVER BASIN

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

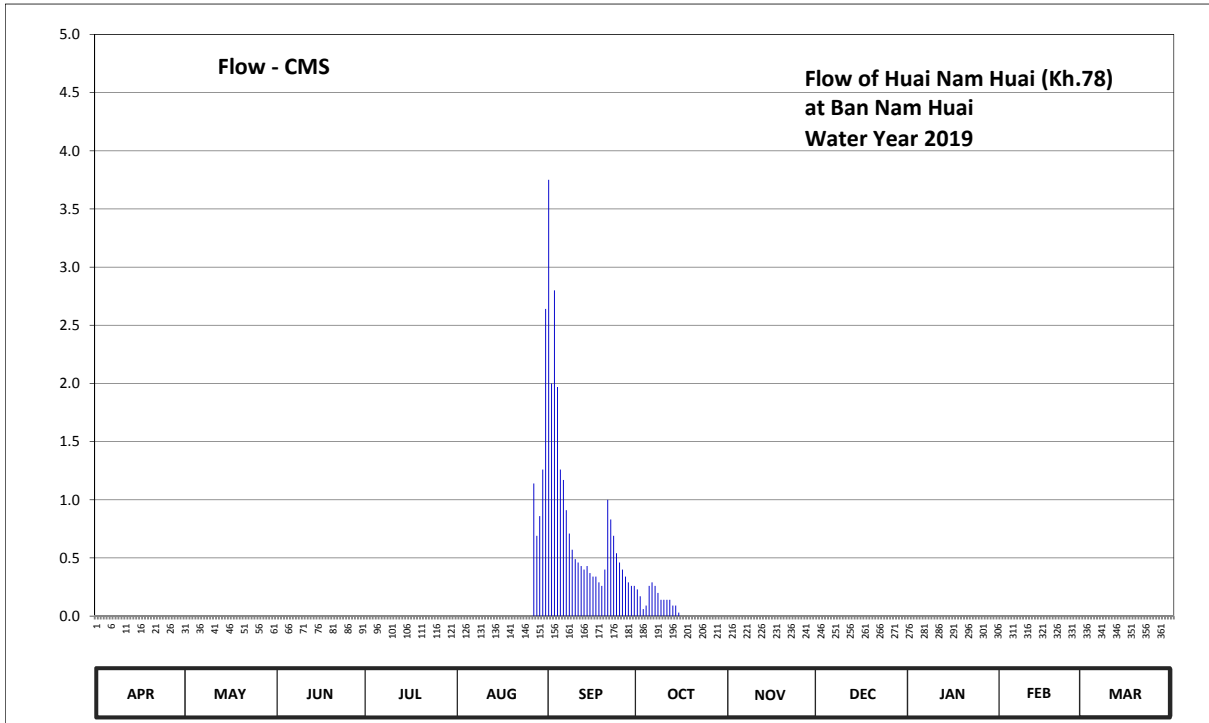
Lat 17 - 23 - 00 N Long 101 - 42 - 40 E

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

	Ban Nam Huai	Amphoe Mueang	Changwat Loei
<b>Drainage Area</b>	219 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+246.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+256.495 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The concrete weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 3 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.63	247.45	247.61	247.45	247.41	249.15	248.08	247.70	247.79	247.37	247.37	247.32	
2	247.59	247.31	247.57	247.44	247.41	248.70	248.06	247.70	247.76	247.37	247.37	247.34	
3	247.51	247.79	247.56	247.48	247.41	248.95	248.02	247.70	247.71	247.38	247.37	247.37	
4	247.51	247.48	247.59	247.61	247.41	248.69	248.03	247.70	247.70	247.38	247.37	247.39	
5	247.52	247.24	247.62	247.59	247.41	248.44	248.09	247.72	247.65	247.38	247.37	247.41	
6	247.56	247.29	247.53	247.57	247.41	248.41	248.10	247.71	247.57	247.37	247.34	247.41	
7	247.54	247.26	247.54	247.65	247.41	248.32	248.09	247.70	247.53	247.37	247.34	247.39	
8	247.58	247.27	247.53	247.75	247.41	248.25	248.07	247.70	247.49	247.38	247.34	247.39	
9	247.64	247.29	247.52	247.45	247.41	248.20	248.05	247.70	247.46	247.39	247.34	247.39	
10	247.53	247.29	247.54	247.43	247.41	248.17	248.05	247.71	247.43	247.39	247.34	247.39	
11	247.50	247.25	247.47	247.42	247.41	248.16	248.05	247.71	247.42	247.39	247.34	247.39	
12	247.50	247.22	247.50	247.41	247.41	248.15	248.05	247.74	247.39	247.39	247.34	247.39	
13	247.51	247.21	247.46	247.41	247.41	248.14	248.03	247.74	247.39	247.39	247.34	247.39	
14	247.63	247.23	247.46	247.41	247.41	248.15	248.03	247.75	247.36	247.39	247.33	247.40	
15	247.69	247.27	247.45	247.41	247.41	248.13	248.01	247.75	247.36	247.38	247.33	247.40	
16	247.63	247.29	247.46	247.41	247.43	248.12	248.00	247.76	247.36	247.38	247.33	247.40	
17	247.56	247.29	247.49	247.41	247.46	248.12	247.96	247.77	247.36	247.37	247.32	247.40	
18	247.53	247.29	247.49	247.41	247.45	248.10	247.92	247.77	247.38	247.38	247.32	247.41	
19	247.49	247.27	247.45	247.41	247.45	248.09	247.89	247.79	247.42	247.39	247.32	247.41	
20	247.80	247.29	247.43	247.41	247.45	248.14	247.88	247.80	247.44	247.39	247.32	247.41	
21	247.70	247.30	247.47	247.41	247.45	248.35	247.86	247.80	247.45	247.39	247.31	247.41	
22	247.60	247.38	247.46	247.41	247.46	248.29	247.85	247.81	247.44	247.38	247.31	247.42	
23	247.50	247.54	247.46	247.41	247.46	248.24	247.84	247.81	247.42	247.38	247.31	247.42	
24	247.85	247.56	247.45	247.41	247.45	248.19	247.82	247.80	247.44	247.36	247.31	247.42	
25	247.73	247.57	247.46	247.41	247.46	248.16	247.81	247.80	247.43	247.33	247.31	247.42	
26	247.81	247.55	247.47	247.41	247.60	248.14	247.78	247.81	247.42	247.37	247.32	247.43	
27	247.54	247.54	247.49	247.41	248.40	248.12	247.76	247.81	247.41	247.37	247.32	247.43	
28	247.52	247.54	247.48	247.41	248.24	248.10	247.75	247.80	247.39	247.37	247.32	247.43	
29	247.49	247.56	247.46	247.41	248.30	248.09	247.74	247.80	247.39	247.37	247.32	247.43	
30	247.49	247.56	247.46	247.41	248.44	248.09	247.70	247.79	247.38	247.37	247.32	247.43	
31		247.59		247.41	248.91		247.70		247.37	247.37		247.44	
Mean	247.59	247.39	247.50	247.45	247.60	248.28	247.94	247.76	247.47	247.38	247.33	247.40	
Max	247.85	247.79	247.62	247.75	248.91	249.15	248.10	247.81	247.79	247.39	247.37	247.44	249.15
Min	247.49	247.21	247.43	247.41	247.41	248.09	247.70	247.70	247.36	247.33	247.31	247.32	247.21
Annual Max Momentary Gage Height	249.40		m. (MSL.) ,			at 02.00 Hours ,	on Sep 1 , 2019						
Zero Gage at Bottom Elevation	246.20		m. (MSL.) ,			River Bed	247.08	m. (MSL.)					
Left Bank Elevation		255.67		m. (MSL.) ,									
Right Bank Elevation		254.27		m. (MSL.) ,		Drainage Are	219	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

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	3.75	0.23	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	2.00	0.17	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	2.80	0.06	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	1.97	0.09	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	1.26	0.26	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	1.17	0.29	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.91	0.26	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.71	0.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.57	0.14	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.49	0.14	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.46	0.14	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.43	0.14	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.40	0.09	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.43	0.09	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.37	0.03	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	1.14	0.34	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.69	0.29	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.86	0.26	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	1.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	6.59	24.42	2.33	0.00	0.00	0.00	0.00	0.00	33.34 CMSDAY
Mean	0.00	0.00	0.00	0.00	0.21	0.81	0.08	0.00	0.00	0.00	0.00	0.00	0.09 CMS
Max	0.00	0.00	0.00	0.00	2.64	3.75	0.29	0.00	0.00	0.00	0.00	0.00	3.75 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	0.57	2.11	0.20	0.00	0.00	0.00	0.00	0.00	2.88 MCM
Momentary Peak	5.00	CMS. at 249.40 m. (MSL.) at 02.00 Hours , on Sep 1, 2019											
Runoff Yield	0.42	Liters/Second/Square KM. Momentary Peak Yield 22.83 Liters/Second/Square KM.											

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

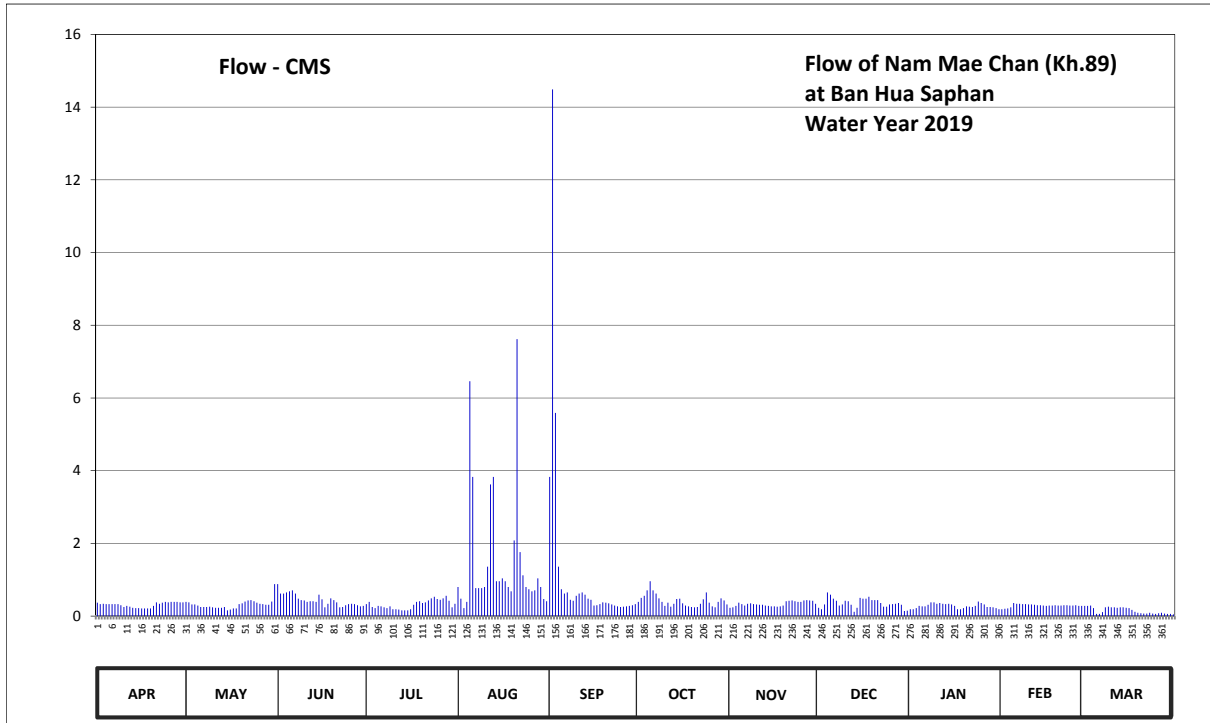
Lat 20 - 09 - 25 N Long 99 - 51 - 45 E

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
<b>Drainage Area</b>	248 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+406.385 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Temporary.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+408.840 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.67	406.69	406.91	406.63	406.90	407.13	406.69	406.53	406.53	406.49	406.49	406.58	
2	406.63	406.68	406.84	406.69	406.78	407.49	406.80	406.54	406.49	406.49	406.50	406.58	
3	406.64	406.62	406.84	406.55	406.52	407.21	406.82	406.58	406.62	406.52	406.51	406.59	
4	406.63	406.62	406.85	406.52	406.69	406.97	406.87	406.67	406.85	406.58	406.54	406.52	
5	406.63	406.59	406.86	406.58	407.24	406.88	406.92	406.63	406.83	406.57	406.66	406.36	
6	406.63	406.55	406.87	406.57	407.13	406.84	406.87	406.59	406.78	406.57	406.64	406.36	
7	406.63	406.55	406.84	406.54	406.89	406.85	406.84	406.64	406.72	406.61	406.64	406.41	
8	406.63	406.55	406.78	406.52	406.89	406.75	406.79	406.65	406.59	406.68	406.63	406.54	
9	406.60	406.56	406.74	406.57	406.89	406.72	406.69	406.63	406.62	406.68	406.63	406.56	
10	406.55	406.54	406.73	406.49	406.90	406.82	406.58	406.62	406.72	406.64	406.62	406.54	
11	406.58	406.53	406.69	406.49	406.97	406.84	406.67	406.61	406.71	406.66	406.62	406.54	
12	406.56	406.53	406.71	406.48	407.12	406.85	406.56	406.61	406.61	406.64	406.61	406.53	
13	406.53	406.53	406.71	406.46	407.13	406.83	406.64	406.59	406.42	406.63	406.60	406.54	
14	406.52	406.55	406.69	406.46	406.92	406.78	406.77	406.58	406.53	406.64	406.60	406.54	
15	406.52	406.46	406.83	406.46	406.92	406.75	406.78	406.57	406.80	406.62	406.59	406.53	
16	406.51	406.48	406.76	406.49	406.93	406.59	406.65	406.57	406.78	406.58	406.58	406.52	
17	406.51	406.51	406.54	406.61	406.92	406.60	406.59	406.56	406.78	406.49	406.59	406.47	
18	406.51	406.51	406.64	406.69	406.90	406.63	406.57	406.57	406.81	406.49	406.59	406.42	
19	406.51	406.63	406.79	406.71	406.86	406.68	406.55	406.59	406.74	406.52	406.60	406.39	
20	406.58	406.65	406.74	406.66	407.03	406.67	406.54	406.71	406.74	406.57	406.59	406.38	
21	406.68	406.70	406.68	406.68	407.28	406.65	406.55	406.72	406.74	406.56	406.59	406.37	
22	406.64	406.73	406.54	406.73	407.01	406.62	406.64	406.73	406.66	406.55	406.60	406.37	
23	406.67	406.74	406.55	406.79	406.94	406.59	406.76	406.71	406.56	406.58	406.60	406.39	
24	406.69	406.71	406.60	406.81	406.90	406.57	406.85	406.69	406.56	406.70	406.59	406.37	
25	406.68	406.67	406.63	406.77	406.88	406.55	406.67	406.69	406.62	406.66	406.59	406.36	
26	406.69	406.64	406.64	406.75	406.86	406.56	406.57	406.73	406.63	406.62	406.60	406.38	
27	406.69	406.63	406.63	406.79	406.87	406.57	406.54	406.74	406.64	406.55	406.58	406.39	
28	406.69	406.61	406.60	406.82	406.93	406.58	406.69	406.73	406.66	406.55	406.58	406.37	
29	406.68	406.61	406.57	406.72	406.90	406.60	406.79	406.72	406.61	406.54	406.57	406.36	
30	406.68	406.70	406.58	406.54	406.77	406.63	406.73	406.64	406.44	406.52	406.52	406.36	
31		406.91		406.64	406.71		406.62		406.45	406.49		406.35	
Mean	406.61	406.61	406.71	406.62	406.92	406.76	406.70	406.64	406.65	406.58	406.59	406.45	
Max	406.69	406.91	406.91	406.82	407.28	407.49	406.92	406.74	406.85	406.70	406.66	406.59	407.49
Min	406.51	406.46	406.54	406.46	406.52	406.55	406.54	406.53	406.42	406.49	406.35	406.35	
Annual Max Momentary Gage Height	407.59		m. (MSL.) ,			at 06.00 Hours ,							
Zero Gage at Bottom Elevation	406.39		m. (MSL.) ,			River Bed	406.28		m. (MSL.)				
Left Bank Elevation		411.66		m. (MSL.) ,									
Right Bank Elevation		411.70		m. (MSL.) ,		Drainage Are	248		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	0.39	0.88	0.33	0.80	3.83	0.39	0.23	0.23	0.19	0.19	0.28	
2	0.33	0.38	0.62	0.39	0.48	14.49	0.50	0.24	0.19	0.19	0.20	0.28	
3	0.34	0.32	0.62	0.25	0.22	5.59	0.56	0.28	0.32	0.22	0.21	0.29	
4	0.33	0.32	0.65	0.22	0.39	1.36	0.71	0.37	0.65	0.28	0.24	0.22	
5	0.33	0.29	0.68	0.28	6.46	0.74	0.96	0.33	0.59	0.27	0.36	0.06	
6	0.33	0.25	0.71	0.27	3.83	0.62	0.71	0.29	0.48	0.27	0.34	0.06	
7	0.33	0.25	0.62	0.24	0.77	0.65	0.62	0.34	0.42	0.31	0.34	0.11	
8	0.33	0.25	0.48	0.22	0.77	0.45	0.49	0.35	0.29	0.38	0.33	0.24	
9	0.30	0.26	0.44	0.27	0.77	0.42	0.39	0.33	0.32	0.38	0.33	0.26	
10	0.25	0.24	0.43	0.19	0.80	0.56	0.28	0.32	0.42	0.34	0.32	0.24	
11	0.28	0.23	0.39	0.19	1.36	0.62	0.37	0.31	0.41	0.36	0.32	0.24	
12	0.26	0.23	0.41	0.18	3.62	0.65	0.26	0.31	0.31	0.34	0.31	0.23	
13	0.23	0.23	0.41	0.16	3.83	0.59	0.34	0.29	0.12	0.33	0.30	0.24	
14	0.22	0.25	0.39	0.16	0.96	0.48	0.47	0.28	0.23	0.34	0.30	0.24	
15	0.22	0.16	0.59	0.16	0.96	0.45	0.48	0.27	0.50	0.32	0.29	0.23	
16	0.21	0.18	0.46	0.19	1.04	0.29	0.35	0.27	0.48	0.28	0.28	0.22	
17	0.21	0.21	0.24	0.31	0.96	0.30	0.29	0.26	0.48	0.19	0.29	0.17	
18	0.21	0.21	0.34	0.39	0.80	0.33	0.27	0.27	0.53	0.19	0.29	0.12	
19	0.21	0.33	0.49	0.41	0.68	0.38	0.25	0.29	0.44	0.22	0.30	0.09	
20	0.28	0.35	0.44	0.36	2.08	0.37	0.24	0.41	0.44	0.27	0.29	0.08	
21	0.38	0.40	0.38	0.38	7.62	0.35	0.25	0.42	0.44	0.26	0.29	0.07	
22	0.34	0.43	0.24	0.43	1.76	0.32	0.34	0.43	0.36	0.25	0.30	0.07	
23	0.37	0.44	0.25	0.49	1.12	0.29	0.46	0.41	0.26	0.28	0.30	0.09	
24	0.39	0.41	0.30	0.53	0.80	0.27	0.65	0.39	0.26	0.40	0.29	0.07	
25	0.38	0.37	0.33	0.47	0.74	0.25	0.37	0.39	0.32	0.36	0.29	0.06	
26	0.39	0.34	0.34	0.45	0.68	0.26	0.27	0.43	0.33	0.32	0.30	0.08	
27	0.39	0.33	0.33	0.49	0.71	0.27	0.24	0.44	0.34	0.25	0.28	0.09	
28	0.39	0.31	0.30	0.56	1.04	0.28	0.39	0.43	0.36	0.25	0.28	0.07	
29	0.38	0.31	0.27	0.42	0.80	0.30	0.49	0.42	0.31	0.24	0.27	0.06	
30	0.38	0.40	0.28	0.24	0.47	0.33	0.43	0.34	0.14	0.22		0.06	
31		0.88		0.34	0.41		0.32		0.15	0.19		0.05	
<b>Total</b>	9.36	9.95	13.31	9.97	47.73	36.09	13.14	10.14	11.12	8.69	8.43	4.67	182.60 CMSDAY
<b>Mean</b>	0.31	0.32	0.44	0.32	1.54	1.20	0.42	0.34	0.36	0.28	0.29	0.15	0.50 CMS
<b>Max</b>	0.39	0.88	0.88	0.56	7.62	14.49	0.96	0.44	0.65	0.40	0.36	0.29	14.49 CMS
<b>Min</b>	0.21	0.16	0.24	0.16	0.22	0.25	0.24	0.23	0.12	0.19	0.19	0.05	0.05 CMS
<b>Runoff</b>	0.81	0.86	1.15	0.86	4.12	3.12	1.14	0.88	0.96	0.75	0.73	0.40	15.78 MCM
<b>Momentary Peak</b>	18.14	CMS. at 407.59 m. (MSL.) at 06.00 Hours , on Sep 2, 2019											
<b>Runoff Yield</b>	1.96	Liters/Second/Square KM. Momentary Peak Yield 71.14 Liters/Second/Square KM.											

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Tong Khop</b>	<b>Amphoe</b>	<b>Khok Si Suphan</b>	<b>Changwat</b>	<b>Sakon Nakhon</b>
<b>Drainage Area</b>	861	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+156.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+167.908 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1996 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +163.89 m.(MSL.), and is including overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.59	159.44	159.57	159.55	159.46	162.79	159.42	159.31	159.22	159.20	159.42	159.23	
2	159.55	159.44	159.63	159.60	159.49	162.20	159.42	159.31	159.20	159.18	159.42	159.20	
3	159.53	159.39	159.59	159.76	159.43	164.48	159.42	159.30	159.20	159.18	159.42	159.33	
4	159.45	159.44	159.59	159.97	159.36	164.56	159.44	159.31	159.20	159.16	159.42	159.42	
5	159.38	159.53	159.59	159.83	159.35	163.85	159.45	159.31	159.15	159.16	159.42	159.40	
6	159.33	159.51	159.67	159.65	159.35	162.83	159.45	159.31	159.16	159.16	159.42	159.40	
7	159.33	159.49	159.63	159.59	159.32	161.78	159.47	159.30	159.18	159.15	159.40	159.41	
8	159.35	159.48	159.58	159.57	159.32	161.20	159.46	159.27	159.18	159.15	159.33	159.40	
9	159.57	159.48	159.55	159.55	159.33	160.84	159.45	159.26	159.20	159.18	159.31	159.40	
10	159.60	159.47	159.53	159.55	159.42	160.62	159.45	159.27	159.20	159.22	159.32	159.39	
11	159.59	159.49	159.49	159.55	159.41	163.44	159.45	159.27	159.20	159.23	159.31	159.32	
12	159.56	159.45	159.54	159.55	159.39	164.12	159.45	159.26	159.20	159.19	159.23	159.27	
13	159.55	159.46	159.52	159.55	159.41	162.09	159.42	159.31	159.21	159.15	159.23	159.22	
14	159.56	159.46	159.56	159.55	159.41	161.12	159.43	159.31	159.21	159.15	159.34	159.18	
15	159.55	159.46	159.57	159.55	159.40	160.64	159.43	159.29	159.20	159.15	159.38	159.17	
16	159.56	159.46	160.09	159.55	159.42	160.39	159.43	159.26	159.20	159.16	159.39	159.15	
17	159.57	159.45	159.92	159.55	159.55	160.22	159.43	159.26	159.20	159.18	159.38	159.15	
18	159.50	159.45	159.71	159.55	159.60	160.07	159.42	159.26	159.22	159.18	159.40	159.22	
19	159.52	159.44	159.62	159.45	159.52	159.99	159.42	159.25	159.24	159.20	159.38	159.40	
20	159.56	159.44	159.56	159.37	159.49	159.74	159.41	159.25	159.22	159.24	159.38	159.42	
21	159.57	159.44	159.54	159.33	159.55	159.60	159.40	159.25	159.20	159.28	159.37	159.42	
22	159.55	159.56	159.57	159.33	159.57	159.57	159.39	159.24	159.20	159.25	159.37	159.42	
23	159.54	159.64	159.60	159.33	161.29	159.54	159.36	159.24	159.18	159.20	159.31	159.42	
24	159.54	159.65	159.57	159.38	162.96	159.48	159.35	159.24	159.18	159.18	159.26	159.42	
25	159.55	159.62	159.55	159.44	162.99	159.45	159.33	159.24	159.18	159.15	159.20	159.45	
26	159.56	159.60	159.55	159.41	161.60	159.45	159.33	159.22	159.19	159.15	159.22	159.49	
27	159.60	159.61	159.55	159.39	160.86	159.46	159.33	159.22	159.19	159.15	159.35	159.47	
28	159.54	159.56	159.55	159.35	160.61	159.45	159.33	159.22	159.18	159.18	159.37	159.41	
29	159.54	159.57	159.55	159.32	160.29	159.45	159.32	159.23	159.20	159.24	159.36	159.37	
30	159.47	159.55	159.55	159.35	163.47	159.43	159.35	159.23	159.20	159.20	159.42	159.30	
31		159.45		159.35	164.20		159.32		159.20	159.39		159.25	
Mean	159.52	159.50	159.60	159.51	160.19	161.06	159.40	159.27	159.20	159.19	159.35	159.34	
Max	159.60	159.65	160.09	159.97	164.20	164.56	159.47	159.31	159.24	159.39	159.42	159.49	164.56
Min	159.33	159.39	159.49	159.32	159.32	159.43	159.32	159.22	159.15	159.15	159.20	159.15	159.15
Annual Max Momentary Gage Height	164.81		m. (MSL.) ,				at 02.00 Hours ,						on Sep 12 , 2019
Zero Gage at Bottom Elevation	156.90		m. (MSL.) ,			River Bed	158.84	m. (MSL.)					
Left Bank Elevation		164.58		m. (MSL.) ,									
Right Bank Elevation		163.88		m. (MSL.) ,		Drainage Are	861	Square Kilometers					



**WATER YEAR : 2019****KHONG RIVER BASIN**

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

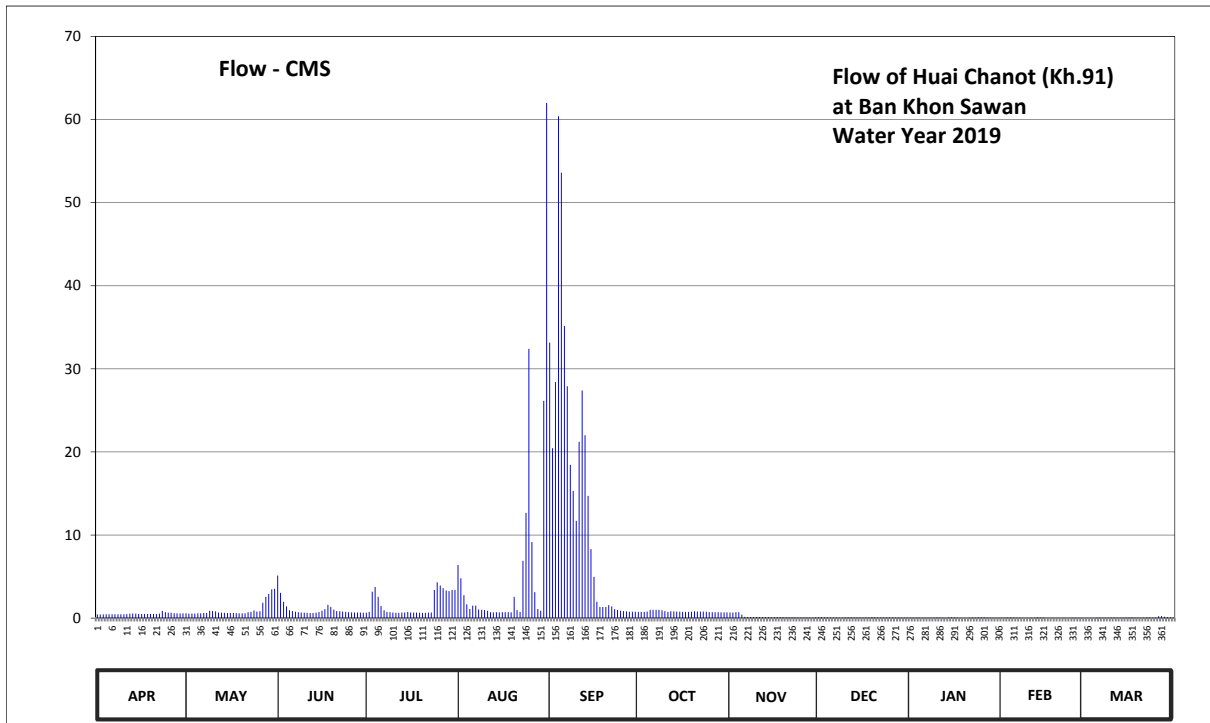
Lat 16 - 47 - 48 N Long 104 - 39 - 45 E

Location : on left bank at the bridge on highway.

	<b>Ban</b> Khon Sawan	<b>Amphoe</b> That Phanom	<b>Changwat</b> Nakhon Phanom
<b>Drainage Area</b>	172 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+149.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank at the footpath of the bridge.	<b>Elevation</b>	+158.775 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00 , 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +154.410 m.(MSL.) and is including overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.90	151.10	152.19	151.21	152.32	153.91	151.35	151.25	150.23	150.12	150.05	150.00	
2	150.90	151.05	151.92	151.35	152.15	153.35	151.35	151.26	150.23	150.10	150.06	150.00	
3	150.90	151.06	151.76	151.94	151.88	153.72	151.34	151.32	150.19	150.10	150.15	150.00	
4	150.92	151.05	151.66	152.02	151.71	154.75	151.40	151.31	150.17	150.10	150.17	150.00	
5	150.93	151.12	151.52	151.85	151.60	154.58	151.54	150.85	150.15	150.08	150.10	150.05	
6	150.93	151.12	151.45	151.67	151.68	153.99	151.55	150.29	150.15	150.05	150.07	150.09	
7	150.93	151.16	151.37	151.52	151.68	153.70	151.55	150.25	150.14	150.05	150.05	150.05	
8	150.92	151.17	151.30	151.35	151.57	153.23	151.55	150.25	150.12	150.05	150.00	150.05	
9	150.92	151.48	151.24	151.30	151.55	153.02	151.52	150.25	150.12	150.10	150.00	150.08	
10	150.92	151.45	151.22	151.24	151.53	152.77	151.45	150.25	150.18	150.14	150.00	150.10	
11	150.95	151.42	151.19	151.20	151.49	153.39	151.35	150.25	150.20	150.10	150.05	150.10	
12	151.05	151.26	151.16	151.20	151.31	153.68	151.44	150.25	150.20	150.05	150.08	150.05	
13	151.08	151.22	151.15	151.25	151.28	153.43	151.42	150.25	150.15	150.01	150.17	150.05	
14	151.05	151.20	151.23	151.26	151.31	152.98	151.40	150.25	150.15	150.15	150.11	150.10	
15	151.00	151.17	151.33	151.34	151.27	152.50	151.37	150.24	150.14	150.19	150.09	150.15	
16	151.00	151.15	151.48	151.26	151.31	152.17	151.35	150.23	150.12	150.15	150.00	150.16	
17	151.00	151.15	151.59	151.25	151.32	151.76	151.36	150.23	150.14	150.05	150.00	150.17	
18	151.00	151.14	151.70	151.25	151.31	151.65	151.36	150.23	150.16	150.00	150.00	150.10	
19	151.00	151.10	151.65	151.21	151.29	151.65	151.38	150.21	150.25	150.00	150.00	150.05	
20	151.00	151.10	151.56	151.19	151.85	151.65	151.43	150.22	150.21	150.00	150.00	150.05	
21	151.00	151.10	151.45	151.18	151.53	151.69	151.40	150.20	150.16	150.05	149.98	150.11	
22	151.06	151.32	151.43	151.24	151.33	151.66	151.40	150.20	150.15	150.14	149.95	150.19	
23	151.47	151.36	151.41	151.25	152.37	151.59	151.40	150.20	150.15	150.09	149.95	150.16	
24	151.31	151.51	151.34	151.97	152.84	151.54	151.38	150.16	150.13	150.19	150.00	150.11	
25	151.23	151.40	151.32	152.09	153.88	151.49	151.33	150.15	150.13	150.20	150.05	150.13	
26	151.22	151.44	151.28	152.04	152.57	151.45	151.30	150.15	150.13	150.18	150.05	150.45	
27	151.14	151.74	151.26	152.00	151.93	151.42	151.30	150.14	150.13	150.10	150.04	150.50	
28	151.10	151.85	151.25	151.96	151.60	151.39	151.30	150.12	150.13	150.05	150.04	150.36	
29	151.08	151.90	151.24	151.95	151.48	151.38	151.29	150.12	150.12	150.08	150.04	150.25	
30	151.10	151.98	151.22	151.97	153.63	151.37	151.29	150.20	150.12	150.07	150.00	150.20	
31		151.99		151.97	154.79		151.29		150.12	150.07		150.15	
Mean	151.03	151.33	151.43	151.53	151.91	152.56	151.39	150.38	150.16	150.09	150.04	150.13	
Max	151.47	151.99	152.19	152.09	154.79	154.75	151.55	151.32	150.25	150.20	150.17	150.50	154.79
Min	150.90	151.05	151.15	151.18	151.27	151.37	151.29	150.12	150.12	150.00	149.95	150.00	149.95
Annual Max Momentary Gage Height	154.91		m. (MSL.) ,				at 07.00 Hours ,						on Aug 31, 2019
Zero Gage at Bottom Elevation	149.00		m. (MSL.) ,			River Bed	149.51		m. (MSL.)				
Left Bank Elevation		154.40		m. (MSL.) ,									
Right Bank Elevation		157.99		m. (MSL.) ,		Drainage Are	172		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	0.57	5.12	0.65	6.40	33.15	0.75	0.68	0.12	0.06	0.03	0.00	
2	0.45	0.54	3.04	0.75	4.80	20.45	0.75	0.68	0.12	0.05	0.03	0.00	
3	0.45	0.54	1.96	3.18	2.76	28.40	0.74	0.72	0.10	0.05	0.08	0.00	
4	0.46	0.54	1.40	3.76	1.66	60.40	0.78	0.72	0.09	0.05	0.09	0.00	
5	0.47	0.58	0.94	2.55	1.10	53.60	0.98	0.43	0.08	0.04	0.05	0.03	
6	0.47	0.58	0.84	1.45	1.50	35.15	1.00	0.15	0.08	0.03	0.04	0.05	
7	0.47	0.61	0.76	0.94	1.50	27.90	1.00	0.13	0.07	0.03	0.03	0.03	
8	0.46	0.62	0.71	0.75	1.04	18.45	1.00	0.13	0.06	0.03	0.00	0.03	
9	0.46	0.88	0.67	0.71	1.00	15.30	0.94	0.13	0.06	0.05	0.00	0.04	
10	0.46	0.84	0.65	0.67	0.96	11.71	0.84	0.13	0.09	0.07	0.00	0.05	
11	0.48	0.80	0.63	0.64	0.89	21.21	0.75	0.13	0.10	0.05	0.03	0.05	
12	0.54	0.68	0.61	0.64	0.72	27.40	0.83	0.13	0.10	0.03	0.04	0.03	
13	0.56	0.65	0.61	0.68	0.70	22.00	0.80	0.13	0.08	0.01	0.09	0.03	
14	0.54	0.64	0.66	0.68	0.72	14.70	0.78	0.13	0.08	0.08	0.06	0.05	
15	0.50	0.62	0.73	0.74	0.69	8.30	0.76	0.12	0.07	0.10	0.05	0.08	
16	0.50	0.61	0.88	0.68	0.72	4.96	0.75	0.12	0.06	0.08	0.00	0.08	
17	0.50	0.61	1.08	0.68	0.72	1.96	0.75	0.12	0.07	0.03	0.00	0.09	
18	0.50	0.60	1.60	0.68	0.72	1.35	0.75	0.12	0.08	0.00	0.00	0.05	
19	0.50	0.57	1.35	0.65	0.70	1.35	0.77	0.11	0.13	0.00	0.00	0.03	
20	0.50	0.57	1.02	0.63	2.55	1.35	0.82	0.11	0.11	0.00	0.00	0.03	
21	0.50	0.57	0.84	0.63	0.96	1.55	0.78	0.10	0.08	0.03	0.00	0.06	
22	0.54	0.72	0.82	0.67	0.73	1.40	0.78	0.10	0.08	0.07	0.00	0.10	
23	0.86	0.75	0.79	0.68	6.90	1.08	0.78	0.10	0.08	0.05	0.00	0.08	
24	0.72	0.92	0.74	3.39	12.66	0.98	0.77	0.08	0.07	0.10	0.00	0.06	
25	0.66	0.78	0.72	4.32	32.40	0.89	0.73	0.08	0.07	0.10	0.03	0.07	
26	0.65	0.83	0.70	3.92	9.14	0.84	0.71	0.08	0.07	0.09	0.03	0.23	
27	0.60	1.84	0.68	3.60	3.11	0.80	0.71	0.07	0.07	0.05	0.02	0.25	
28	0.57	2.55	0.68	3.32	1.10	0.77	0.71	0.06	0.07	0.03	0.02	0.18	
29	0.56	2.90	0.67	3.25	0.88	0.77	0.70	0.06	0.06	0.04	0.02	0.13	
30	0.57	3.46	0.65	3.39	26.15	0.76	0.70	0.10	0.06	0.04	0.00	0.10	
31		3.53		3.39	62.00		0.70		0.06	0.04		0.08	
<b>Total</b>	15.95	31.50	32.55	52.67	187.88	418.93	24.61	5.95	2.52	1.48	0.74	2.09	776.87 CMSDAY
<b>Mean</b>	0.53	1.02	1.08	1.70	6.06	13.96	0.79	0.20	0.08	0.05	0.03	0.07	2.12 CMS
<b>Max</b>	0.86	3.53	5.12	4.32	62.00	60.40	1.00	0.72	0.13	0.10	0.09	0.25	62.00 CMS
<b>Min</b>	0.45	0.54	0.61	0.63	0.69	0.76	0.70	0.06	0.06	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.38	2.72	2.81	4.55	16.23	36.20	2.13	0.51	0.22	0.13	0.06	0.18	67.12 MCM
<b>Momentary Peak</b>	67.02	CMS. at 154.91 m. (MSL.) at 07.00 Hours , on Aug 31, 2019											
<b>Runoff Yield</b>	12.37	Liters/Second/Square KM. Momentary Peak Yield 389.65 Liters/Second/Square KM.											



**WATER YEAR : 2019****KHONG RIVER BASIN****Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan (Kh.92)**

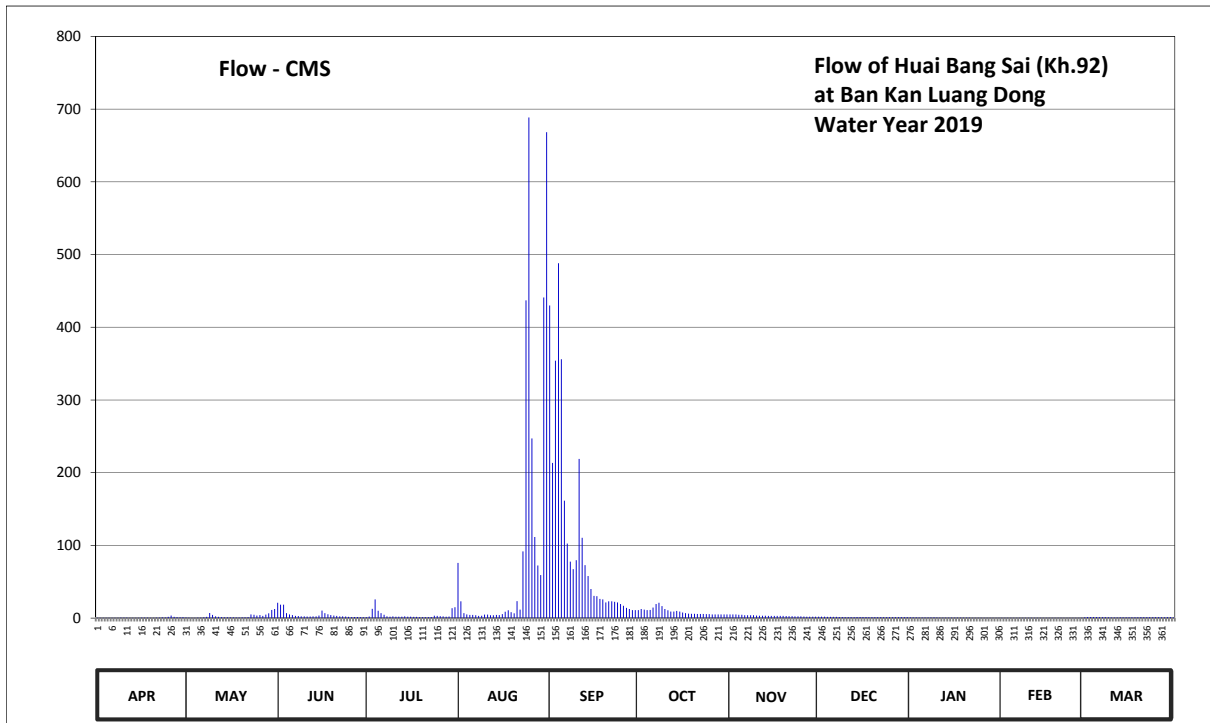
Lat 16 - 44 - 06 N Long 104 - 31 - 23 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Kan Luang Dong</b>	<b>Amphoe</b>	<b>Dong Luang</b>	<b>Changwat</b>	<b>Muk Dahan</b>
<b>Drainage Area</b>	1,119	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+148.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank at the footpath of the bridge.				<b>Elevation</b>	+159.233 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1996 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +154.780 m.(MSL.) and is including overbank flow.					
<b>General Description</b>	Records fair. The local weir situated downstream from the gage site. Stage-discharge relation defined by 31 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.65	148.80	150.04	148.90	151.54	156.23	149.70	149.30	149.00	148.83	148.70	148.85	
2	148.65	148.75	149.95	149.01	150.10	153.83	149.75	149.30	149.00	148.83	148.70	148.92	
3	148.65	148.70	149.95	149.76	149.48	155.47	149.72	149.30	149.00	148.83	148.70	148.93	
4	148.65	148.70	149.49	150.19	149.31	156.81	149.70	149.25	148.95	148.80	148.70	148.93	
5	148.65	148.75	149.30	149.66	149.24	155.49	149.71	149.25	148.95	148.80	148.70	148.92	
6	148.70	148.76	149.21	149.47	149.24	153.14	149.82	149.20	148.95	148.80	148.70	148.88	
7	148.70	148.82	149.10	149.26	149.19	152.15	149.98	149.20	148.95	148.80	148.70	148.86	
8	148.70	148.96	149.08	149.03	149.10	151.58	150.04	149.20	148.93	148.80	148.70	148.86	
9	148.71	149.50	149.03	149.00	149.12	151.34	149.88	149.20	148.93	148.84	148.70	148.84	
10	148.75	149.23	149.05	149.03	149.29	151.63	149.75	149.15	148.90	148.80	148.70	148.81	
11	148.75	149.05	149.01	149.00	149.29	153.90	149.69	149.13	148.90	148.75	148.70	148.80	
12	148.70	148.95	149.01	149.00	149.20	152.29	149.60	149.13	148.90	148.75	148.70	148.81	
13	148.70	148.90	149.04	149.00	149.20	151.47	149.60	149.13	148.90	148.75	148.70	148.82	
14	148.70	148.85	149.04	149.03	149.23	151.12	149.64	149.10	148.91	148.75	148.70	148.82	
15	148.70	148.85	149.15	149.00	149.22	150.67	149.60	149.10	148.92	148.75	148.70	148.84	
16	148.73	148.85	149.67	149.00	149.34	150.35	149.53	149.10	148.91	148.75	148.65	148.84	
17	148.73	148.83	149.48	148.95	149.59	150.34	149.49	149.10	148.91	148.75	148.65	148.85	
18	148.73	148.80	149.32	148.95	149.69	150.21	149.42	149.10	148.90	148.75	148.65	148.84	
19	148.70	148.80	149.21	148.90	149.56	150.19	149.40	149.10	148.90	148.73	148.65	148.85	
20	148.70	148.85	149.15	148.90	149.45	150.05	149.40	149.09	148.89	148.73	148.65	148.90	
21	148.75	148.85	149.10	148.90	150.11	150.10	149.38	149.07	148.89	148.73	148.65	148.90	
22	148.76	148.86	149.05	148.90	149.72	150.10	149.37	149.06	148.89	148.70	148.65	148.90	
23	148.84	149.31	149.03	148.91	151.91	150.08	149.36	149.05	148.89	148.70	148.65	148.90	
24	148.81	149.26	149.02	149.13	156.30	150.05	149.35	149.04	148.88	148.70	148.65	148.90	
25	148.94	149.14	148.95	149.10	158.25	149.98	149.35	149.03	148.88	148.70	148.65	148.87	
26	149.16	149.22	148.90	149.07	154.25	149.90	149.31	149.02	148.88	148.70	148.65	148.87	
27	148.97	149.10	148.93	149.03	152.31	149.80	149.30	149.00	148.88	148.70	148.65	148.85	
28	148.89	149.29	148.93	149.00	151.46	149.75	149.30	149.00	148.88	148.70	148.65	148.85	
29	148.85	149.46	148.90	149.02	151.15	149.70	149.30	149.00	148.87	148.70	148.65	148.86	
30	148.86	149.71	148.90	149.79	156.34	149.70	149.30	149.00	148.87	148.70	148.65	148.87	
31		149.75		149.83	158.14		149.30		148.87	148.70		148.81	
Mean	148.76	149.02	149.20	149.15	150.95	151.58	149.55	149.12	148.91	148.75	148.68	148.86	
Max	149.16	149.75	150.04	150.19	158.25	156.81	150.04	149.30	149.00	148.84	148.70	148.93	158.25
Min	148.65	148.70	148.90	148.90	149.10	149.70	149.30	149.00	148.87	148.70	148.65	148.80	148.65
Annual Max Momentary Gage Height	158.53		m. (MSL.) ,			at 07.00 Hours ,	on Aug 25 , 2019						
Zero Gage at Bottom Elevation	148.10		m. (MSL.) ,			River Bed	148.11	m. (MSL.)					
Left Bank Elevation		154.77		m. (MSL.) ,									
Right Bank Elevation		157.22		m. (MSL.) ,		Drainage Are	1,119	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.90	21.20	1.40	75.88	430.00	11.00	5.00	2.00	1.05	0.50	1.15	
2	0.35	0.70	18.50	2.10	23.00	213.40	12.50	5.00	2.00	1.05	0.50	1.52	
3	0.35	0.50	18.50	12.80	6.80	354.00	11.60	5.00	2.00	1.05	0.50	1.58	
4	0.35	0.50	6.90	25.70	5.10	488.00	11.00	4.50	1.70	0.90	0.50	1.58	
5	0.35	0.70	5.00	10.20	4.40	356.00	11.30	4.50	1.70	0.90	0.50	1.52	
6	0.50	0.74	4.10	6.70	4.40	161.40	14.60	4.00	1.70	0.90	0.50	1.30	
7	0.50	1.00	3.00	4.60	3.90	102.50	19.40	4.00	1.70	0.90	0.50	1.20	
8	0.50	1.76	2.80	2.30	3.00	77.60	21.20	4.00	1.58	0.90	0.50	1.20	
9	0.54	7.00	2.30	2.00	3.20	67.26	16.40	4.00	1.58	1.10	0.50	1.10	
10	0.70	4.30	2.50	2.30	4.90	79.75	12.50	3.50	1.40	0.90	0.50	0.95	
11	0.70	2.50	2.10	2.00	4.90	219.00	10.80	3.30	1.40	0.70	0.50	0.90	
12	0.50	1.70	2.10	2.00	4.00	110.40	9.00	3.30	1.40	0.70	0.50	0.95	
13	0.50	1.40	2.40	2.00	4.00	72.86	9.00	3.30	1.40	0.70	0.50	1.00	
14	0.50	1.15	2.40	2.30	4.30	57.79	9.80	3.00	1.46	0.70	0.50	1.00	
15	0.50	1.15	3.50	2.00	4.20	40.10	9.00	3.00	1.52	0.70	0.50	1.10	
16	0.62	1.15	10.40	2.00	5.40	30.50	7.60	3.00	1.46	0.70	0.35	1.10	
17	0.62	1.05	6.80	1.70	8.80	30.20	6.90	3.00	1.46	0.70	0.35	1.15	
18	0.62	0.90	5.20	1.70	10.80	26.30	6.20	3.00	1.40	0.70	0.35	1.10	
19	0.50	0.90	4.10	1.40	8.20	25.70	6.00	3.00	1.40	0.62	0.35	1.15	
20	0.50	1.15	3.50	1.40	6.50	21.50	6.00	2.90	1.35	0.62	0.35	1.40	
21	0.70	1.15	3.00	1.40	23.30	23.00	5.80	2.70	1.35	0.62	0.35	1.40	
22	0.74	1.20	2.50	1.40	11.60	23.00	5.70	2.60	1.35	0.50	0.35	1.40	
23	1.10	5.10	2.30	1.46	91.82	22.40	5.60	2.50	1.35	0.50	0.35	1.40	
24	0.95	4.60	2.20	3.30	437.00	21.50	5.50	2.40	1.30	0.50	0.35	1.40	
25	1.64	3.40	1.70	3.00	688.50	19.40	5.50	2.30	1.30	0.50	0.35	1.25	
26	3.60	4.20	1.40	2.70	247.00	17.00	5.10	2.20	1.30	0.50	0.35	1.25	
27	1.82	3.00	1.58	2.30	111.60	14.00	5.00	2.00	1.30	0.50	0.35	1.15	
28	1.35	4.90	1.58	2.00	72.43	12.50	5.00	2.00	1.30	0.50	0.35	1.15	
29	1.15	6.60	1.40	2.20	59.08	11.00	5.00	2.00	1.25	0.50	0.35	1.20	
30	1.20	11.30	1.40	13.70	441.00	11.00	5.00	2.00	1.25	0.50		1.25	
31		12.50		14.90	668.20		5.00		1.25	0.50		0.95	
<b>Total</b>	<b>24.30</b>	<b>89.10</b>	<b>146.36</b>	<b>136.96</b>	<b>3047.21</b>	<b>3139.06</b>	<b>280.00</b>	<b>97.00</b>	<b>45.91</b>	<b>22.11</b>	<b>12.40</b>	<b>37.75</b>	<b>7078.16</b> CMSDAY
<b>Mean</b>	<b>0.81</b>	<b>2.87</b>	<b>4.88</b>	<b>4.42</b>	<b>98.30</b>	<b>104.64</b>	<b>9.03</b>	<b>3.23</b>	<b>1.48</b>	<b>0.71</b>	<b>0.43</b>	<b>1.22</b>	<b>19.34</b> CMS
<b>Max</b>	<b>3.60</b>	<b>12.50</b>	<b>21.20</b>	<b>25.70</b>	<b>688.50</b>	<b>488.00</b>	<b>21.20</b>	<b>5.00</b>	<b>2.00</b>	<b>1.10</b>	<b>0.50</b>	<b>1.58</b>	<b>688.50</b> CMS
<b>Min</b>	<b>0.35</b>	<b>0.50</b>	<b>1.40</b>	<b>1.40</b>	<b>3.00</b>	<b>11.00</b>	<b>5.00</b>	<b>2.00</b>	<b>1.25</b>	<b>0.50</b>	<b>0.35</b>	<b>0.90</b>	<b>0.35</b> CMS
<b>Runoff</b>	<b>2.10</b>	<b>7.70</b>	<b>12.65</b>	<b>11.83</b>	<b>263.28</b>	<b>271.21</b>	<b>24.19</b>	<b>8.38</b>	<b>3.97</b>	<b>1.91</b>	<b>1.07</b>	<b>3.26</b>	<b>611.55</b> MCM
<b>Momentary Peak</b>	744.00 CMS. at 158.53 m. (MSL.) at 07.00 Hours , on Aug 25 , 2019												
<b>Runoff Yield</b>	17.33 Liters/Second/Square KM.			Momentary Peak Yield 664.88			Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

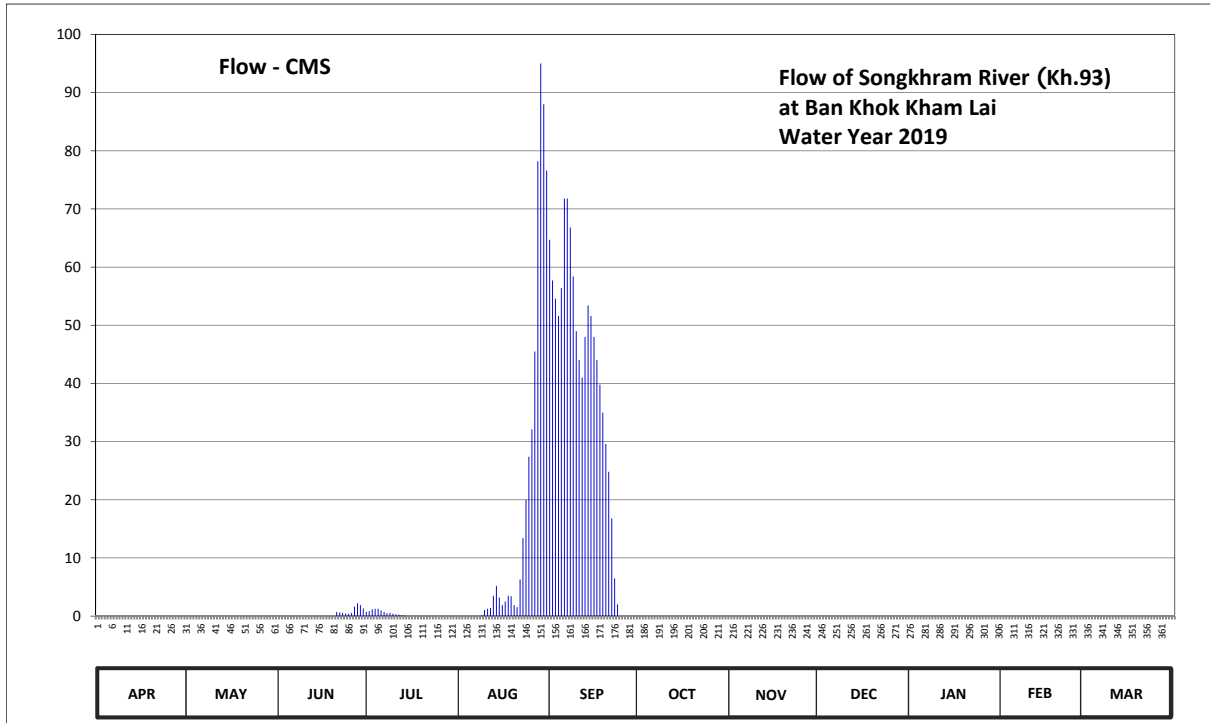
Lat 17 - 33 - 22 N Long 103 - 20 - 20 E

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

	<b>Ban</b>	<b>Khok Kham Lai</b>	<b>Amphoe</b>	<b>Ban Dung</b>	<b>Changwat</b>	<b>Udon Thani</b>
<b>Drainage Area</b>	760	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+153.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.				<b>Elevation</b>	+161.354 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1997 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1997 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1997 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +156.680 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records fair. The weir situated downstream from the gage site. Stage-discharge relation defined by 11 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.42	154.33	154.32	155.35	155.16	158.31	155.24	155.03	154.88	154.52	154.03	153.59	
2	154.42	154.34	154.34	155.37	155.17	158.21	155.21	155.03	154.85	154.51	154.02	153.57	
3	154.42	154.34	154.34	155.43	155.18	158.16	155.18	155.03	154.84	154.51	154.01	153.58	
4	154.42	154.34	154.35	155.45	155.17	158.11	155.17	155.02	154.83	154.50	153.99	153.61	
5	154.42	154.34	154.35	155.45	155.15	158.19	155.17	155.02	154.81	154.47	153.97	153.64	
6	154.42	154.34	154.35	155.40	155.15	158.41	155.24	155.02	154.80	154.46	153.95	153.66	
7	154.42	154.34	154.35	155.34	155.18	158.41	155.30	155.03	154.79	154.45	153.95	153.67	
8	154.43	154.34	154.35	155.30	155.17	158.34	155.33	155.02	154.78	154.44	153.93	153.67	
9	154.43	154.34	154.35	155.31	155.23	158.22	155.33	155.03	154.76	154.42	153.91	153.67	
10	154.42	154.36	154.35	155.28	155.41	158.06	155.31	155.03	154.76	154.40	153.89	153.68	
11	154.42	154.36	154.34	155.26	155.45	157.96	155.30	155.02	154.75	154.38	153.87	153.67	
12	154.41	154.36	154.35	155.25	155.48	157.90	155.30	155.02	154.74	154.37	153.86	153.67	
13	154.41	154.36	154.35	155.24	155.75	158.04	155.27	155.02	154.74	154.38	153.84	153.66	
14	154.40	154.36	154.34	155.22	155.92	158.14	155.25	155.02	154.74	154.35	153.83	153.66	
15	154.40	154.36	154.38	155.18	155.72	158.11	155.24	155.02	154.72	154.31	153.82	153.65	
16	154.39	154.36	154.45	155.18	155.58	158.04	155.21	155.02	154.71	154.30	153.80	153.65	
17	154.39	154.36	154.55	155.17	155.65	157.96	155.22	155.02	154.70	154.30	153.77	153.64	
18	154.39	154.36	154.69	155.16	155.75	157.87	155.22	155.01	154.70	154.30	153.77	153.63	
19	154.38	154.36	155.01	155.15	155.74	157.75	155.25	155.01	154.68	154.29	153.76	153.62	
20	154.38	154.35	155.32	155.14	155.58	157.58	155.25	155.00	154.66	154.26	153.75	153.61	
21	154.38	154.35	155.34	155.13	155.51	157.34	155.22	155.00	154.65	154.23	153.72	153.61	
22	154.37	154.34	155.32	155.13	156.03	156.94	155.17	154.99	154.63	154.21	153.70	153.61	
23	154.37	154.34	155.31	155.13	156.74	156.05	155.14	154.98	154.62	154.18	153.68	153.61	
24	154.37	154.33	155.29	155.16	157.10	155.60	155.11	154.97	154.61	154.16	153.67	153.62	
25	154.36	154.33	155.28	155.17	157.47	155.49	155.09	154.97	154.60	154.15	153.65	153.65	
26	154.36	154.32	155.31	155.18	157.67	155.41	155.08	154.96	154.59	154.14	153.63	153.65	
27	154.36	154.31	155.53	155.18	157.99	155.36	155.07	154.94	154.58	154.12	153.63	153.65	
28	154.35	154.31	155.62	155.18	158.49	155.32	155.06	154.93	154.57	154.10	153.62	153.65	
29	154.34	154.31	155.58	155.17	158.67	155.29	155.05	154.92	154.56	154.08	153.60	153.65	
30	154.33	154.32	155.46	155.15	158.60	155.27	155.04	154.90	154.54	154.06	153.60	153.65	
31		154.32		155.14	158.47		155.03		154.53	154.04		153.65	
Mean	154.39	154.34	154.78	155.24	156.17	157.33	155.20	155.00	154.70	154.30	153.81	153.64	
Max	154.43	154.36	155.62	155.45	158.67	158.41	155.33	155.03	154.88	154.52	154.03	153.68	158.67
Min	154.33	154.31	154.32	155.13	155.15	155.27	155.03	154.90	154.53	154.04	153.60	153.57	153.57
Annual Max Momentary Gage Height	158.68		m. (MSL.) ,			at 06.00 Hours ,							
Zero Gage at Bottom Elevation	153.10		m. (MSL.) ,			River Bed	152.41		m. (MSL.)				
Left Bank Elevation		160.30		m. (MSL.) ,									
Right Bank Elevation		156.67		m. (MSL.) ,		Drainage Are	760		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.75	0.00	64.70	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.85	0.00	57.70	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	1.15	0.00	54.60	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	1.25	0.00	51.60	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.25	0.00	56.40	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.00	0.00	71.80	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.70	0.00	71.80	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.50	0.00	66.80	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.55	0.15	58.40	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.40	1.05	49.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.30	1.25	44.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.25	1.40	41.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.20	3.50	48.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.10	5.20	53.40	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	3.20	51.60	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	1.90	48.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	2.50	44.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	3.50	39.80	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	3.40	35.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	1.90	29.60	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.70	0.00	1.55	24.80	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.60	0.00	6.30	16.80	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.55	0.00	13.40	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.45	0.00	20.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.40	0.00	27.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.55	0.00	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.65	0.00	45.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.20	0.00	78.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	1.90	0.00	95.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	1.30	0.00	88.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	76.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	10.30	9.25	513.00	1087.30	0.00	0.00	0.00	0.00	0.00	0.00	1619.85 CMSDAY
<b>Mean</b>	0.00	0.00	0.34	0.30	16.55	36.24	0.00	0.00	0.00	0.00	0.00	0.00	4.43 CMS
<b>Max</b>	0.00	0.00	2.20	1.25	95.00	71.80	0.00	0.00	0.00	0.00	0.00	0.00	95.00 CMS
<b>Min</b>	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
<b>Runoff</b>	0.00	0.00	0.89	0.80	44.32	93.94	0.00	0.00	0.00	0.00	0.00	0.00	139.96 MCM
<b>Momentary Peak</b>	96.00	CMS.	at 158.68 m. (MSL.)	at 06.00 Hours	, on Aug 29, 2019								
<b>Runoff Yield</b>	5.84	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	126.32	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

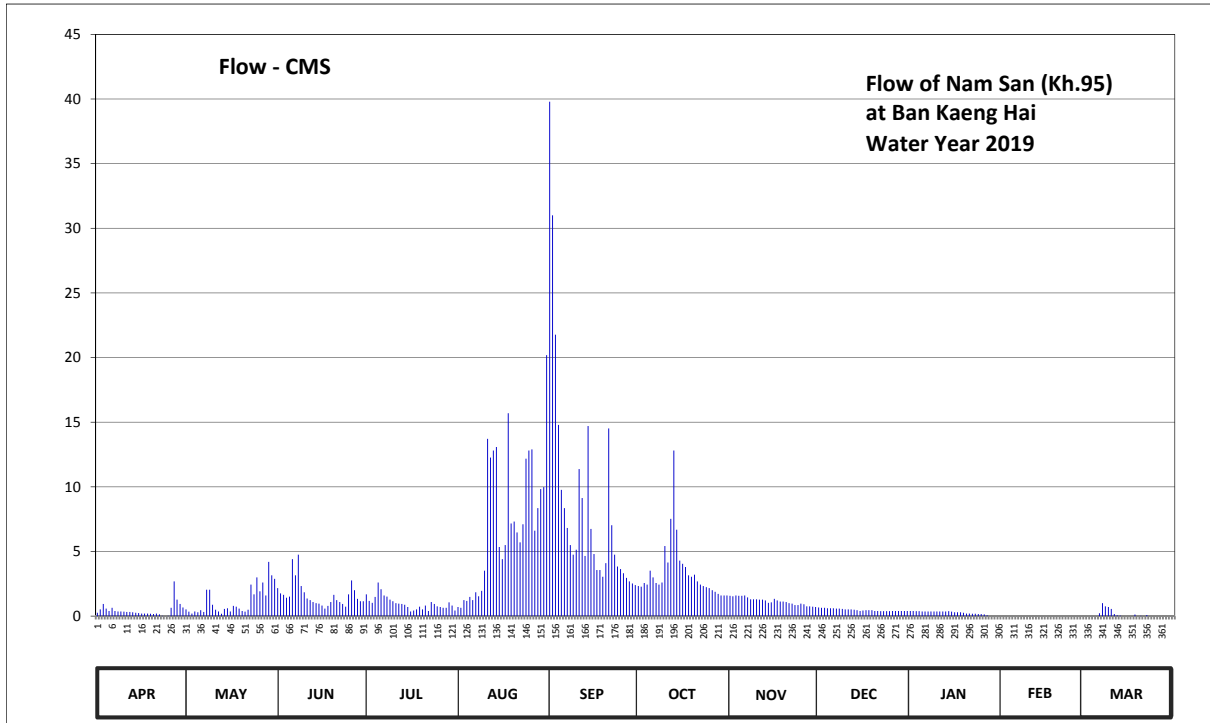
Lat 17 - 26 - 20 N Long 101 - 19 - 50 E

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

	Ban Kaeng Hai	Amphoe Phu Rua	Changwat Loei
<b>Drainage Area</b>	352 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+593.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank upstream side at the footpath of the bridge.	<b>Elevation</b>	+605.713 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1998 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	595.73	595.84	596.34	596.22	595.90	600.60	596.38	596.19	595.89	595.80	595.58	595.50	
2	595.84	595.77	596.24	596.06	595.88	599.91	596.37	596.18	595.88	595.80	595.58	595.46	
3	595.98	595.70	596.21	596.01	596.08	599.07	596.44	596.20	595.88	595.79	595.57	595.48	
4	595.86	595.78	596.14	596.16	596.06	598.31	596.41	596.19	595.87	595.79	595.57	595.58	
5	595.80	595.75	596.17	596.45	596.16	597.68	596.68	596.19	595.87	595.78	595.57	595.54	
6	595.88	595.82	596.88	596.32	596.08	597.48	596.55	596.20	595.87	595.78	595.57	595.71	
7	595.80	595.76	596.59	596.20	596.26	597.26	596.44	596.15	595.86	595.78	595.57	596.00	
8	595.78	596.31	596.95	596.17	596.18	597.07	596.41	596.10	595.86	595.78	595.57	595.92	
9	595.78	596.31	596.38	596.09	596.29	596.95	596.45	596.10	595.85	595.78	595.57	595.90	
10	595.77	595.96	596.26	596.05	596.68	597.02	597.06	596.10	595.84	595.78	595.56	595.85	
11	595.76	595.83	596.12	596.00	598.19	597.91	596.83	596.09	595.84	595.78	595.56	595.68	
12	595.76	595.78	596.08	595.99	598.03	597.59	597.36	596.09	595.84	595.78	595.54	595.63	
13	595.75	595.69	596.03	595.98	598.09	596.93	598.09	596.07	595.83	595.78	595.47	595.62	
14	595.73	595.85	596.00	595.96	598.12	598.30	597.24	596.01	595.82	595.79	595.40	595.60	
15	595.72	595.87	595.99	595.90	597.05	597.25	596.86	596.02	595.80	595.77	595.38	595.59	
16	595.70	595.78	595.94	595.78	596.88	596.96	596.81	596.11	595.81	595.75	595.39	595.55	
17	595.70	595.93	595.86	595.81	597.07	596.69	596.75	596.07	595.82	595.75	595.41	595.49	
18	595.70	595.91	595.93	595.84	598.41	596.69	596.59	596.04	595.82	595.75	595.42	595.66	
19	595.69	595.86	596.03	595.91	597.31	596.56	596.56	596.04	595.82	595.73	595.42	595.56	
20	595.68	595.80	596.21	595.84	597.33	596.82	596.60	596.03	595.80	595.70	595.41	595.61	
21	595.70	595.77	596.08	595.94	597.21	598.28	596.47	596.00	595.80	595.70	595.41	595.54	
22	595.67	595.83	596.03	595.80	597.10	597.29	596.41	595.99	595.79	595.69	595.40	595.64	
23	595.61	596.41	595.98	596.03	597.30	596.95	596.38	595.95	595.79	595.69	595.38	595.57	
24	595.60	596.22	595.91	595.98	598.02	596.76	596.36	595.95	595.79	595.68	595.38	595.59	
25	595.61	596.55	596.22	595.92	598.09	596.71	596.34	595.99	595.79	595.68	595.38	595.56	
26	595.88	596.28	596.49	595.90	598.10	596.63	596.30	595.97	595.80	595.67	595.37	595.60	
27	596.47	596.45	596.30	595.88	597.23	596.54	596.27	595.92	595.80	595.63	595.37	595.58	
28	596.09	596.20	596.11	595.88	597.48	596.47	596.23	595.92	595.80	595.60	595.37	595.58	
29	595.98	596.84	596.05	596.02	597.69	596.43	596.20	595.91	595.80	595.59	595.38	595.58	
30	595.89	596.59	596.05	595.94	597.71	596.40	596.20	595.90	595.80	595.59	595.38	595.58	
31		596.52		595.81	598.91		596.20		595.80	595.58		595.56	
Mean	595.80	596.03	596.19	595.99	597.19	597.38	596.59	596.06	595.83	595.73	595.47	595.62	
Max	596.47	596.84	596.95	596.45	598.91	600.60	598.09	596.20	595.89	595.80	595.58	596.00	600.60
Min	595.60	595.69	595.86	595.78	595.88	596.40	596.20	595.90	595.79	595.58	595.37	595.46	595.37
Annual Max Momentary Gage Height	600.77		m. (MSL.) ,				at 14.00 Hours ,						on Sep 1 , 2019
Zero Gage at Bottom Elevation	593.90		m. (MSL.) ,			River Bed	594.74		m. (MSL.)				
Left Bank Elevation		605.19		m. (MSL.) ,									
Right Bank Elevation		604.69		m. (MSL.) ,		Drainage Are	352		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.52	2.16	1.68	0.70	39.80	2.32	1.57	0.67	0.40	0.00	0.00	
2	0.52	0.34	1.76	1.18	0.64	31.01	2.28	1.54	0.64	0.40	0.00	0.00	
3	0.94	0.20	1.64	1.03	1.24	21.77	2.56	1.60	0.64	0.38	0.00	0.00	
4	0.58	0.36	1.42	1.48	1.18	14.79	2.44	1.57	0.61	0.38	0.00	0.00	
5	0.40	0.30	1.51	2.60	1.48	9.76	3.52	1.57	0.61	0.36	0.00	0.00	
6	0.64	0.46	4.40	2.08	1.24	8.36	3.00	1.60	0.61	0.36	0.00	0.22	
7	0.40	0.32	3.16	1.60	1.84	6.82	2.56	1.45	0.58	0.36	0.00	1.00	
8	0.36	2.04	4.75	1.51	1.54	5.49	2.44	1.30	0.58	0.36	0.00	0.76	
9	0.36	2.04	2.32	1.27	1.96	4.75	2.60	1.30	0.55	0.36	0.00	0.70	
10	0.34	0.88	1.84	1.15	3.52	5.14	5.42	1.30	0.52	0.36	0.00	0.55	
11	0.32	0.49	1.36	1.00	13.71	11.37	4.15	1.27	0.52	0.36	0.00	0.16	
12	0.32	0.36	1.24	0.97	12.27	9.13	7.52	1.27	0.52	0.36	0.00	0.06	
13	0.30	0.18	1.09	0.94	12.81	4.65	12.81	1.21	0.49	0.36	0.00	0.04	
14	0.26	0.55	1.00	0.88	13.08	14.70	6.68	1.03	0.46	0.38	0.00	0.00	
15	0.24	0.61	0.97	0.70	5.35	6.75	4.30	1.06	0.40	0.34	0.00	0.00	
16	0.20	0.36	0.82	0.36	4.40	4.80	4.05	1.33	0.43	0.30	0.00	0.00	
17	0.20	0.79	0.58	0.43	5.49	3.56	3.80	1.21	0.46	0.30	0.00	0.00	
18	0.20	0.73	0.79	0.52	15.69	3.56	3.16	1.12	0.46	0.30	0.00	0.12	
19	0.18	0.58	1.09	0.73	7.17	3.04	3.04	1.12	0.46	0.26	0.00	0.00	
20	0.16	0.40	1.64	0.52	7.31	4.10	3.20	1.09	0.40	0.20	0.00	0.02	
21	0.20	0.34	1.24	0.82	6.47	14.52	2.68	1.00	0.40	0.20	0.00	0.00	
22	0.14	0.49	1.09	0.40	5.70	7.03	2.44	0.97	0.38	0.18	0.00	0.08	
23	0.02	2.44	0.94	1.09	7.10	4.75	2.32	0.85	0.38	0.18	0.00	0.00	
24	0.00	1.68	0.73	0.94	12.18	3.84	2.24	0.85	0.38	0.16	0.00	0.00	
25	0.02	3.00	1.68	0.76	12.81	3.64	2.16	0.97	0.38	0.16	0.00	0.00	
26	0.64	1.92	2.76	0.70	12.90	3.32	2.00	0.91	0.40	0.14	0.00	0.00	
27	2.68	2.60	2.00	0.64	6.61	2.96	1.88	0.76	0.40	0.06	0.00	0.00	
28	1.27	1.60	1.33	0.64	8.36	2.68	1.72	0.76	0.40	0.00	0.00	0.00	
29	0.94	4.20	1.15	1.06	9.83	2.52	1.60	0.73	0.40	0.00	0.00	0.00	
30	0.67	3.16	1.15	0.82	9.97	2.40	1.60	0.70	0.40	0.00	0.00	0.00	
31		2.88		0.43	20.19		1.60		0.40	0.00		0.00	
Total	13.76	36.82	49.61	30.93	224.74	261.01	104.09	35.01	14.93	7.96	0.00	3.71	782.57 CMSDAY
Mean	0.46	1.19	1.65	1.00	7.25	8.70	3.36	1.17	0.48	0.26	0.00	0.12	2.14 CMS
Max	2.68	4.20	4.75	2.60	20.19	39.80	12.81	1.60	0.67	0.40	0.00	1.00	39.80 CMS
Min	0.00	0.18	0.58	0.36	0.64	2.40	1.60	0.70	0.38	0.00	0.00	0.00	0.00 CMS
Runoff	1.19	3.18	4.29	2.67	19.42	22.55	8.99	3.02	1.29	0.69	0.00	0.32	67.61 MCM
Momentary Peak	42.01	CMS. at 600.77 m. (MSL.) at 14.00 Hours , on Sep 1, 2019											
Runoff Yield	6.09	Liters/Second/Square KM.		Momentary Peak Yield		119.35	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

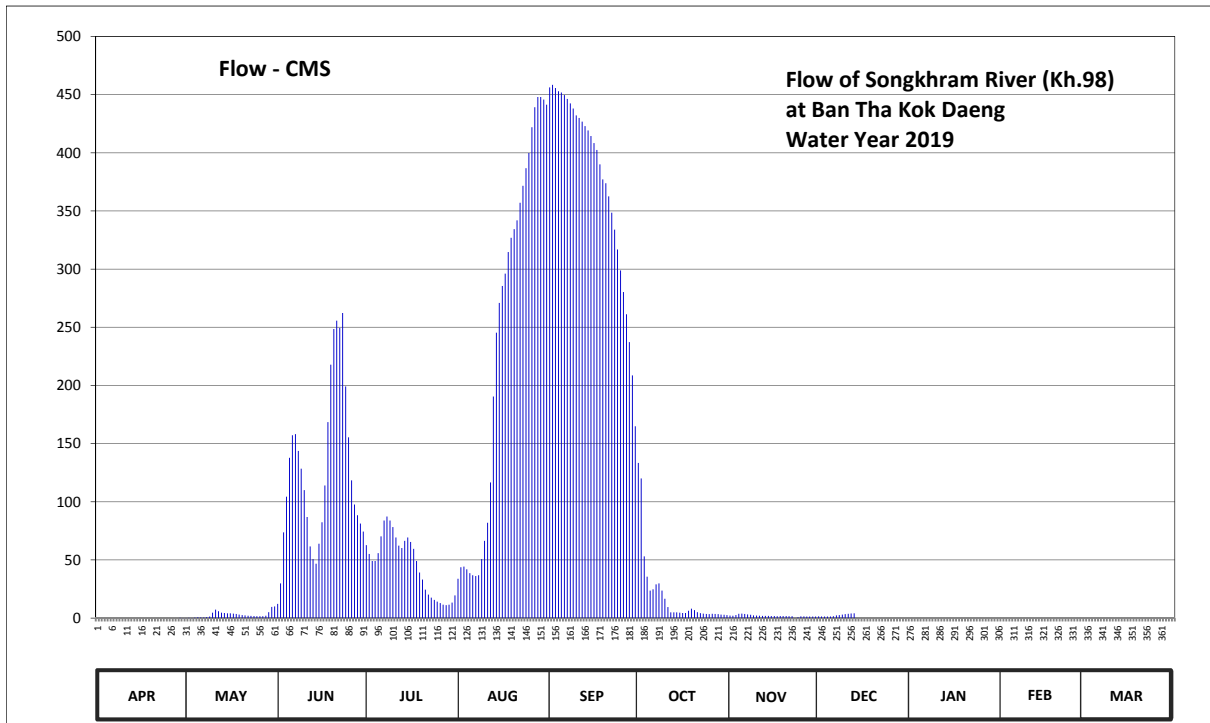
Lat 17 - 51 - 04 N Long 103 - 46 - 52 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Kok Daeng</b>	<b>Amphoe</b>	<b>Se Ka</b>	<b>Changwat</b>	<b>Bueng Kan</b>
<b>Drainage Area</b>	5,089	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+136.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+153.927 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	137.38	137.32	138.49	140.26	139.36	148.35	142.03	137.61	137.51	137.75	137.69	137.60		
2	137.38	137.33	139.23	140.04	139.69	148.39	141.73	137.59	137.50	137.75	137.69	137.60		
3	137.38	137.32	140.57	139.86	139.71	148.34	139.98	137.68	137.50	137.74	137.69	137.62		
4	137.38	137.35	141.36	139.86	139.63	148.29	139.42	137.83	137.50	137.73	137.69	137.63		
5	137.38	137.39	142.13	140.06	139.52	148.27	139.02	137.84	137.50	137.72	137.68	137.64		
6	137.38	137.38	142.56	140.48	139.46	148.23	139.06	137.80	137.54	137.72	137.68	137.65		
7	137.44	137.38	142.58	140.84	139.44	148.17	139.20	137.75	137.63	137.70	137.67	137.66		
8	137.48	137.42	142.26	140.93	139.46	148.10	139.23	137.71	137.68	137.68	137.67	137.66		
9	137.47	137.49	141.92	140.84	139.91	148.02	139.02	137.64	137.74	137.67	137.67	137.65		
10	137.45	137.97	141.50	140.69	140.37	147.91	138.73	137.61	137.78	137.68	137.67	137.65		
11	137.48	138.18	140.92	140.45	140.79	147.87	138.32	137.60	137.83	137.69	137.67	137.65		
12	137.50	138.09	140.23	140.25	141.65	147.81	138.00	137.58	137.87	137.69	137.66	137.65		
13	137.54	137.97	139.91	140.19	143.28	147.74	138.00	137.58	137.89	137.70	137.66	137.64		
14	137.52	137.92	139.79	140.37	144.40	147.67	138.00	137.58	137.89	137.71	137.66	137.63		
15	137.49	137.89	140.30	140.45	144.90	147.58	137.97	137.56	137.89	137.71	137.66	137.63		
16	137.49	137.88	140.80	140.34	145.18	147.47	137.93	137.55	137.82	137.70	137.65	137.62		
17	137.44	137.84	141.59	140.17	145.38	147.36	137.93	137.54	137.81	137.70	137.65	137.61		
18	137.41	137.80	142.81	139.86	145.73	147.13	138.12	137.55	137.80	137.70	137.64	137.61		
19	137.40	137.73	143.85	139.54	145.96	146.89	138.23	137.55	137.79	137.70	137.64	137.63		
20	137.39	137.68	144.46	139.34	146.10	146.83	138.15	137.55	137.78	137.69	137.63	137.62		
21	137.38	137.64	144.60	139.05	146.24	146.62	138.02	137.54	137.76	137.69	137.63	137.61		
22	137.38	137.59	144.48	138.89	146.52	146.36	137.90	137.53	137.76	137.69	137.63	137.61		
23	137.38	137.57	144.73	138.78	146.79	146.09	137.85	137.28	137.76	137.69	137.62	137.63		
24	137.36	137.55	143.46	138.68	147.07	145.77	137.81	137.40	137.75	137.69	137.62	137.63		
25	137.34	137.54	142.52	138.61	147.31	145.43	137.79	137.52	137.75	137.69	137.62	137.63		
26	137.34	137.54	141.69	138.53	147.72	145.08	137.82	137.51	137.75	137.70	137.61	137.65		
27	137.33	137.53	141.19	138.45	148.04	144.71	137.80	137.50	137.75	137.70	137.61	137.65		
28	137.33	137.60	140.96	138.42	148.20	144.24	137.78	137.50	137.75	137.70	137.60	137.65		
29	137.33	138.02	140.77	138.45	148.20	143.66	137.74	137.50	137.74	137.70	137.60	137.64		
30	137.32	138.33	140.59	138.56	148.16	142.73	137.72	137.50	137.74	137.69	137.64	137.64		
31		138.35		138.86	148.08		137.68		137.74	137.69	137.63	137.63		
Mean	137.41	137.70	141.74	139.68	143.94	146.90	138.52	137.58	137.73	137.70	137.65	137.63		
Max	137.54	138.35	144.73	140.93	148.20	148.39	142.03	137.84	137.89	137.75	137.69	137.66	148.39	
Min	137.32	137.32	138.49	138.42	139.36	142.73	137.68	137.28	137.50	137.67	137.60	137.60	137.28	
Annual Max Momentary Gage Height	148.40		m. (MSL.) ,				at 06.00 Hours ,							on Sep 2 , 2019
Zero Gage at Bottom Elevation	136.00		m. (MSL.) ,				River Bed	136.55		m. (MSL.)				
Left Bank Elevation		151.54		m. (MSL.) ,										
Right Bank Elevation		152.30		m. (MSL.) ,			Drainage Are	5,089		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.14	12.24	62.64	33.80	456.25	133.35	2.17	1.47	0.00	0.00	0.00	
2	0.00	0.21	29.90	55.16	43.70	458.45	120.12	2.03	1.40	0.00	0.00	0.00	
3	0.00	0.14	73.66	49.04	44.30	455.70	53.12	2.66	1.40	0.00	0.00	0.00	
4	0.00	0.35	104.40	49.04	41.90	452.95	35.60	3.71	1.40	0.00	0.00	0.00	
5	0.00	0.63	137.85	55.84	38.60	451.85	23.60	3.78	1.40	0.00	0.00	0.00	
6	0.00	0.56	157.20	70.30	36.80	449.65	24.80	3.50	1.68	0.00	0.00	0.00	
7	0.00	0.56	158.10	83.92	36.20	446.35	29.00	3.15	2.31	0.00	0.00	0.00	
8	0.00	0.84	143.70	87.34	36.80	442.50	29.90	2.87	2.66	0.00	0.00	0.00	
9	0.00	1.33	128.48	83.92	50.74	438.10	23.60	2.38	3.08	0.00	0.00	0.00	
10	0.00	4.69	110.00	78.22	66.45	432.14	16.60	2.17	3.36	0.00	0.00	0.00	
11	0.00	7.28	86.96	69.25	82.02	429.98	9.52	2.10	3.71	0.00	0.00	0.00	
12	0.00	5.89	61.62	62.30	116.60	426.74	4.90	1.96	3.99	0.00	0.00	0.00	
13	0.00	4.69	50.74	60.26	190.44	422.96	4.90	1.96	4.13	0.00	0.00	0.00	
14	0.00	4.34	46.70	66.45	245.40	419.18	4.90	1.96	0.00	0.00	0.00	0.00	
15	0.00	4.13	64.00	69.25	270.90	414.32	4.69	1.82	0.00	0.00	0.00	0.00	
16	0.00	4.06	82.40	65.40	285.54	408.38	4.41	1.75	0.00	0.00	0.00	0.00	
17	0.00	3.78	113.96	59.58	296.14	402.44	4.41	1.68	0.00	0.00	0.00	0.00	
18	0.00	3.50	168.45	49.04	314.69	390.02	6.32	1.75	0.00	0.00	0.00	0.00	
19	0.00	3.01	217.80	39.20	326.88	377.06	8.08	1.75	0.00	0.00	0.00	0.00	
20	0.00	2.66	248.46	33.20	334.40	373.82	6.80	1.75	0.00	0.00	0.00	0.00	
21	0.00	2.38	255.60	24.50	341.96	362.48	5.12	1.68	0.00	0.00	0.00	0.00	
22	0.00	2.03	249.48	20.25	357.08	348.44	4.20	1.61	0.00	0.00	0.00	0.00	
23	0.00	1.89	262.23	17.60	371.66	333.86	3.85	0.00	0.00	0.00	0.00	0.00	
24	0.00	1.75	199.08	15.60	386.78	316.81	3.57	0.70	0.00	0.00	0.00	0.00	
25	0.00	1.68	155.40	14.20	399.74	298.79	3.43	1.54	0.00	0.00	0.00	0.00	
26	0.00	1.68	118.36	12.88	421.88	280.24	3.64	1.47	0.00	0.00	0.00	0.00	
27	0.00	1.61	97.60	11.60	439.20	261.21	3.50	1.40	0.00	0.00	0.00	0.00	
28	0.00	2.10	88.48	11.12	448.00	237.24	3.36	1.40	0.00	0.00	0.00	0.00	
29	0.21	5.12	81.26	11.60	448.00	208.68	3.08	1.40	0.00	0.00	0.00	0.00	
30	0.14	9.68	74.42	13.36	445.80	164.85	2.94	1.40	0.00	0.00	0.00	0.00	
31	10.00			19.50	441.40		2.66		0.00	0.00		0.00	
Total	0.35	92.71	3778.53	1421.56	7393.80	11361.44	587.97	59.50	31.99	0.00	0.00	0.00	24727.85 CMSDAY
Mean	0.01	2.99	125.95	45.86	238.51	378.71	18.97	1.98	1.03	0.00	0.00	0.00	67.56 CMS
Max	0.21	10.00	262.23	87.34	448.00	458.45	133.35	3.78	4.13	0.00	0.00	0.00	458.45 CMS
Min	0.00	0.14	12.24	11.12	33.80	164.85	2.66	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.03	8.01	326.46	122.82	638.82	981.63	50.80	5.14	2.76	0.00	0.00	0.00	2136.49 MCM
Momentary Peak	459.00	CMS.	at 148.40 m. (MSL.)	at 06.00 Hours	on Sep 2, 2019								
Runoff Yield	13.31	Liters/Second/Square KM.		Momentary Peak Yield	90.19	Liters/Second/Square KM.							



## WATER YEAR : 2019

## KHONG RIVER BASIN

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

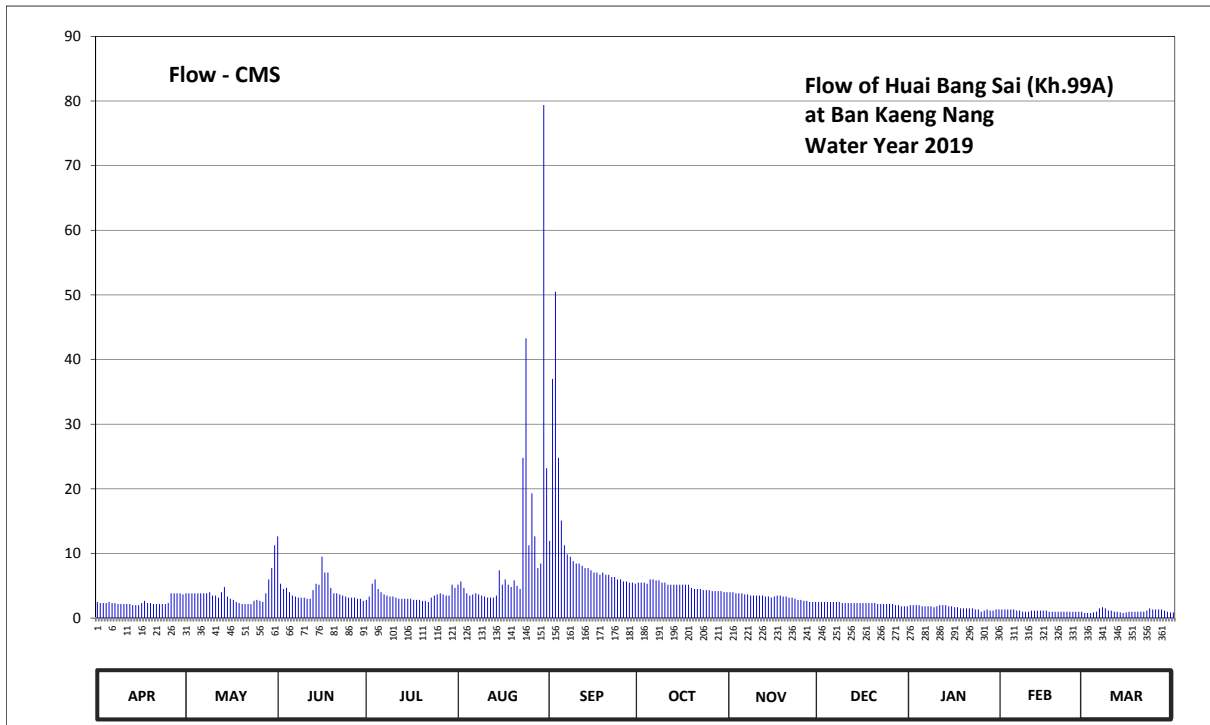
Lat 16 - 42 - 05 N Long 104 - 14 - 46 E

Location : on right bank at Ban Kaeng Nang

	Ban Kaeng Nang	Amphoe Dong Luang	Changwat Mukdahan
<b>Drainage Area</b>	115 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+254.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +259.628 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.59	256.67	256.99	256.61	256.75	256.97	256.77	256.68	256.59	256.56	256.52	256.48	
2	256.58	256.67	256.76	256.64	256.78	257.30	256.77	256.68	256.59	256.56	256.52	256.48	
3	256.58	256.67	256.71	256.76	256.72	257.45	256.77	256.67	256.59	256.56	256.52	256.48	
4	256.58	256.67	256.72	256.80	256.67	257.16	256.76	256.67	256.59	256.56	256.52	256.49	
5	256.59	256.67	256.68	256.71	256.65	257.03	256.80	256.67	256.59	256.55	256.52	256.50	
6	256.58	256.67	256.65	256.68	256.66	256.95	256.80	256.66	256.59	256.55	256.51	256.53	
7	256.58	256.67	256.64	256.66	256.67	256.91	256.79	256.66	256.59	256.55	256.51	256.54	
8	256.57	256.67	256.63	256.65	256.66	256.90	256.79	256.65	256.59	256.55	256.50	256.53	
9	256.57	256.68	256.63	256.64	256.65	256.88	256.77	256.65	256.58	256.54	256.50	256.51	
10	256.57	256.65	256.63	256.64	256.64	256.87	256.77	256.65	256.58	256.55	256.50	256.51	
11	256.57	256.65	256.62	256.63	256.63	256.87	256.75	256.65	256.58	256.56	256.51	256.50	
12	256.57	256.63	256.62	256.62	256.63	256.86	256.75	256.65	256.58	256.56	256.51	256.50	
13	256.56	256.68	256.70	256.62	256.63	256.85	256.75	256.64	256.58	256.56	256.51	256.49	
14	256.56	256.73	256.76	256.62	256.65	256.85	256.75	256.64	256.58	256.55	256.51	256.48	
15	256.56	256.64	256.75	256.62	256.84	256.84	256.75	256.63	256.58	256.55	256.51	256.49	
16	256.58	256.62	256.90	256.62	256.75	256.83	256.75	256.64	256.58	256.54	256.51	256.50	
17	256.60	256.61	256.83	256.61	256.80	256.83	256.75	256.65	256.58	256.54	256.50	256.50	
18	256.58	256.59	256.83	256.61	256.75	256.82	256.75	256.65	256.58	256.53	256.50	256.50	
19	256.58	256.58	256.72	256.61	256.73	256.83	256.72	256.64	256.58	256.53	256.50	256.50	
20	256.57	256.57	256.67	256.60	256.79	256.82	256.71	256.64	256.58	256.53	256.50	256.50	
21	256.57	256.57	256.67	256.60	256.74	256.82	256.71	256.63	256.57	256.53	256.50	256.50	
22	256.57	256.57	256.66	256.59	256.71	256.81	256.71	256.63	256.57	256.53	256.50	256.51	
23	256.57	256.57	256.65	256.63	257.16	256.81	256.70	256.62	256.57	256.52	256.50	256.53	
24	256.57	256.60	256.64	256.65	257.37	256.80	256.70	256.61	256.57	256.52	256.50	256.52	
25	256.58	256.61	256.63	256.66	256.95	256.80	256.70	256.61	256.57	256.50	256.50	256.52	
26	256.67	256.60	256.63	256.67	257.09	256.78	256.69	256.60	256.57	256.51	256.50	256.52	
27	256.67	256.59	256.63	256.66	256.99	256.78	256.69	256.60	256.56	256.52	256.50	256.52	
28	256.67	256.67	256.62	256.65	256.85	256.77	256.69	256.59	256.56	256.51	256.50	256.51	
29	256.67	256.80	256.62	256.65	256.87	256.77	256.69	256.59	256.55	256.51	256.50	256.50	
30	256.66	256.85	256.60	256.75	257.74	256.76	256.68	256.59	256.55	256.52	256.49	256.49	
31		256.95		256.72	257.14		256.68		256.55	256.52		256.49	
Mean	256.59	256.66	256.69	256.65	256.83	256.89	256.74	256.64	256.58	256.54	256.51	256.50	
Max	256.67	256.95	256.99	256.80	257.74	257.45	256.80	256.68	256.59	256.56	256.52	256.54	257.74
Min	256.56	256.57	256.60	256.59	256.63	256.76	256.68	256.59	256.55	256.50	256.50	256.48	256.48
Annual Max Momentary Gage Height	258.10		m. (MSL.) ,				at 06.00 Hours ,						on Aug 30 , 2019
Zero Gage at Bottom Elevation	254.30		m. (MSL.) ,			River Bed	255.06		m. (MSL.)				
Left Bank Elevation		261.87		m. (MSL.) ,									
Right Bank Elevation		260.01		m. (MSL.) ,		Drainage Are	115		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	3.83	12.65	2.83	5.17	11.95	5.50	4.00	2.50	2.00	1.33	0.80	
2	2.33	3.83	5.33	3.33	5.67	37.00	5.50	4.00	2.50	2.00	1.33	0.80	
3	2.33	3.83	4.50	5.33	4.67	50.50	5.50	3.83	2.50	2.00	1.33	0.80	
4	2.33	3.83	4.67	6.00	3.83	24.80	5.33	3.83	2.50	2.00	1.33	0.90	
5	2.50	3.83	4.00	4.50	3.50	15.10	6.00	3.83	2.50	1.83	1.33	1.00	
6	2.33	3.83	3.50	4.00	3.67	11.25	6.00	3.67	2.50	1.83	1.17	1.50	
7	2.33	3.83	3.33	3.67	3.83	9.85	5.83	3.67	2.50	1.83	1.17	1.67	
8	2.17	3.83	3.17	3.50	3.67	9.50	5.83	3.50	2.50	1.83	1.00	1.50	
9	2.17	4.00	3.17	3.33	3.50	8.80	5.50	3.50	2.33	1.67	1.00	1.17	
10	2.17	3.50	3.17	3.33	3.33	8.45	5.50	3.50	2.33	1.83	1.00	1.17	
11	2.17	3.50	3.00	3.17	3.17	8.45	5.17	3.50	2.33	2.00	1.17	1.00	
12	2.17	3.17	3.00	3.00	3.17	8.10	5.17	3.50	2.33	2.00	1.17	1.00	
13	2.00	4.00	4.33	3.00	3.17	7.75	5.17	3.33	2.33	2.00	1.17	0.90	
14	2.00	4.83	5.33	3.00	3.50	7.75	5.17	3.33	2.33	1.83	1.17	0.80	
15	2.00	3.33	5.17	3.00	7.40	7.40	5.17	3.17	2.33	1.83	1.17	0.90	
16	2.33	3.00	9.50	3.00	5.17	7.05	5.17	3.33	2.33	1.67	1.17	1.00	
17	2.67	2.83	7.05	2.83	6.00	7.05	5.17	3.50	2.33	1.67	1.00	1.00	
18	2.33	2.50	7.05	2.83	5.17	6.70	5.17	3.50	2.33	1.50	1.00	1.00	
19	2.33	2.33	4.67	2.83	4.83	7.05	4.67	3.33	2.33	1.50	1.00	1.00	
20	2.17	2.17	3.83	2.67	5.83	6.70	4.50	3.33	2.33	1.50	1.00	1.00	
21	2.17	2.17	3.83	2.67	5.00	6.70	4.50	3.17	2.17	1.50	1.00	1.00	
22	2.17	2.17	3.67	2.50	4.50	6.35	4.50	3.17	2.17	1.50	1.00	1.17	
23	2.17	2.17	3.50	3.17	24.80	6.35	4.33	3.00	2.17	1.33	1.00	1.50	
24	2.17	2.67	3.33	3.50	43.30	6.00	4.33	2.83	2.17	1.33	1.00	1.33	
25	2.33	2.83	3.17	3.67	11.25	6.00	4.33	2.83	2.17	1.00	1.00	1.33	
26	3.83	2.67	3.17	3.83	19.30	5.67	4.17	2.67	2.17	1.17	1.00	1.33	
27	3.83	2.50	3.17	3.67	12.65	5.67	4.17	2.67	2.00	1.33	1.00	1.33	
28	3.83	3.83	3.00	3.50	7.75	5.50	4.17	2.50	2.00	1.17	1.00	1.17	
29	3.83	6.00	3.00	3.50	8.45	5.50	4.17	2.50	1.83	1.17	1.00	1.00	
30	3.67	7.75	2.67	5.17	79.40	5.33	4.00	2.50	1.83	1.33		0.90	
31		11.25		4.67	23.20		4.00		1.83	1.33		0.90	
<b>Total</b>	75.33	115.81	132.93	109.00	327.85	320.27	153.69	98.99	70.47	50.48	32.01	33.87	1520.70 CMSDAY
<b>Mean</b>	2.51	3.74	4.43	3.52	10.58	10.68	4.96	3.30	2.27	1.63	1.10	1.09	4.15 CMS
<b>Max</b>	3.83	11.25	12.65	6.00	79.40	50.50	6.00	4.00	2.50	2.00	1.33	1.67	79.40 CMS
<b>Min</b>	2.00	2.17	2.67	2.50	3.17	5.33	4.00	2.50	1.83	1.00	1.00	0.80	0.80 CMS
<b>Runoff</b>	6.51	10.01	11.49	9.42	28.33	27.67	13.28	8.55	6.09	4.36	2.77	2.93	131.39 MCM
<b>Momentary Peak</b>	119.00 CMS. at 258.10 m. (MSL.) at 06.00 Hours , on Aug 30, 2019												
<b>Runoff Yield</b>	36.23 Liters/Second/Square KM.			Momentary Peak Yield			1034.78 Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

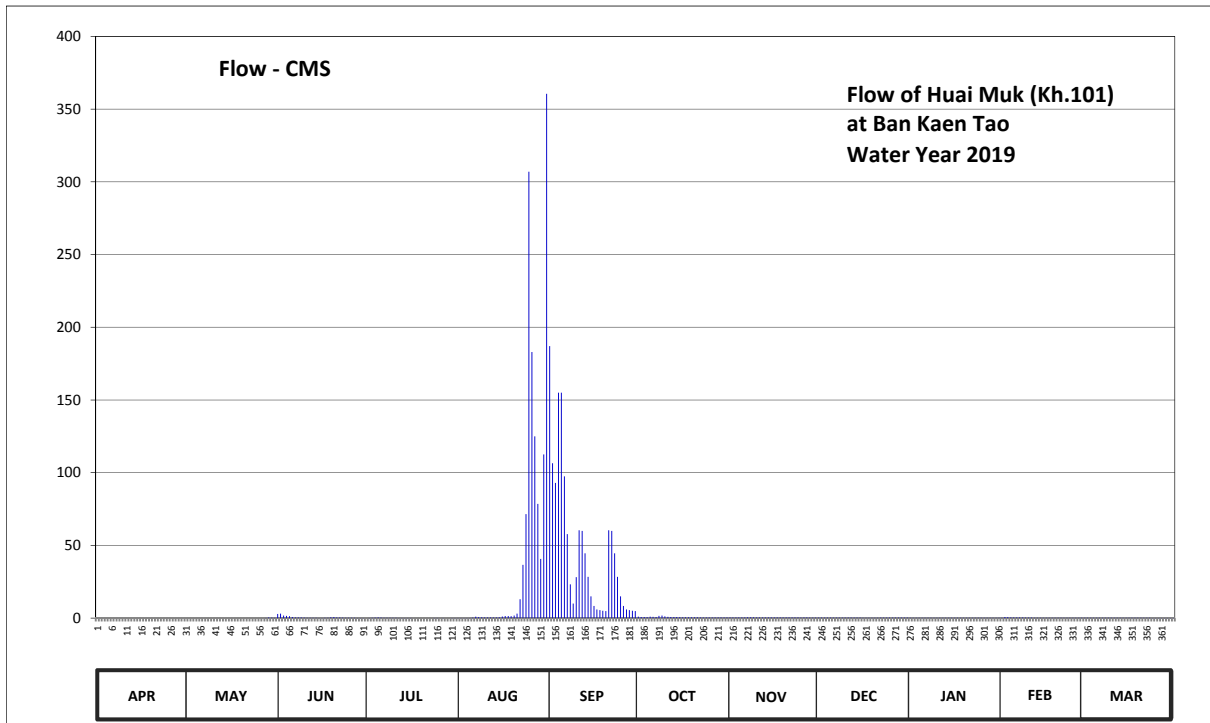
Lat 16 - 35 - 07 N Long 104 - 37 - 13 E

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

	Ban Kaen Tao	Amphoe Mueang	Changwat Mukdahan
<b>Drainage Area</b>	414 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+136.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank about 1 meter from the top staff gage.	<b>Elevation</b>	+146.237 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +143.100 m.(MSL.) and is including overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.57	137.48	138.64	137.70	137.75	144.35	138.11	137.89	137.86	137.83	137.81	137.79	
2	137.57	137.48	138.69	137.75	137.76	143.93	138.05	137.89	137.85	137.83	138.05	137.80	
3	137.56	137.47	138.38	137.80	137.75	143.84	138.05	137.91	137.85	137.83	138.03	137.80	
4	137.56	137.47	138.32	137.86	137.75	144.19	138.03	137.91	137.85	137.83	137.93	137.80	
5	137.57	137.46	138.23	137.90	137.74	144.19	138.13	137.91	137.84	137.82	137.92	137.80	
6	137.57	137.45	138.06	137.86	137.87	143.87	138.08	137.94	137.84	137.82	137.90	137.81	
7	137.58	137.46	137.93	137.81	138.14	143.17	138.07	137.97	137.84	137.82	137.90	137.81	
8	137.58	137.49	137.90	137.81	138.02	140.85	138.32	137.98	137.84	137.81	137.91	137.81	
9	137.60	137.60	137.89	137.81	137.96	139.63	138.40	137.95	137.84	137.81	137.85	137.80	
10	137.60	137.62	137.85	137.79	137.93	141.26	138.20	137.92	137.84	137.81	137.85	137.80	
11	137.60	137.62	137.81	137.78	137.93	143.29	138.10	137.92	137.84	137.80	137.85	137.80	
12	137.59	137.63	137.80	137.76	137.94	143.27	138.04	137.91	137.84	137.80	137.83	137.80	
13	137.59	137.63	137.80	137.76	137.93	142.41	138.04	137.91	137.84	137.80	137.83	137.80	
14	137.59	137.63	137.78	137.75	137.94	141.28	138.06	137.91	137.84	137.80	137.82	137.80	
15	137.58	137.62	137.76	137.74	137.97	140.16	138.01	137.91	137.84	137.80	137.82	137.80	
16	137.58	137.62	137.77	137.74	138.16	139.42	137.98	137.90	137.83	137.80	137.82	137.80	
17	137.57	137.62	137.79	137.72	138.28	139.11	137.98	137.90	137.83	137.80	137.82	137.79	
18	137.57	137.61	137.80	137.71	138.26	139.06	137.98	137.90	137.83	137.80	137.82	137.79	
19	137.57	137.61	137.95	137.70	138.22	139.01	137.97	137.90	137.83	137.80	137.81	137.79	
20	137.57	137.60	138.05	137.69	138.40	138.97	137.96	137.90	137.83	137.80	137.81	137.78	
21	137.56	137.60	137.94	137.69	138.70	143.29	137.95	137.90	137.83	137.81	137.81	137.78	
22	137.56	137.60	137.91	137.68	139.99	143.27	137.94	137.89	137.84	137.81	137.81	137.78	
23	137.56	137.61	137.88	137.69	141.90	142.41	137.91	137.89	137.84	137.81	137.81	137.78	
24	137.55	137.61	137.83	137.73	143.65	141.28	137.92	137.89	137.84	137.81	137.80	137.76	
25	137.54	137.61	137.82	137.73	144.86	140.16	137.93	137.88	137.84	137.81	137.80	137.76	
26	137.54	137.62	137.80	137.72	144.33	139.42	137.92	137.90	137.84	137.81	137.80	137.76	
27	137.53	137.62	137.79	137.73	144.04	139.11	137.91	137.90	137.84	137.81	137.80	137.76	
28	137.51	137.74	137.75	137.72	143.73	139.06	137.90	137.88	137.85	137.81	137.79	137.75	
29	137.50	137.92	137.75	137.72	142.17	139.01	137.90	137.86	137.85	137.81	137.79	137.75	
30	137.48	137.86	137.75	137.73	143.97	138.97	137.90	137.86	137.85	137.81	137.75	137.75	
31		137.80		137.73	145.06		137.90		137.85	137.81		137.75	
Mean	137.56	137.61	137.95	137.75	139.75	141.37	138.02	137.91	137.84	137.81	137.85	137.79	
Max	137.60	137.92	138.69	137.90	145.06	144.35	138.40	137.98	137.86	137.83	138.05	137.81	145.06
Min	137.48	137.45	137.75	137.68	137.74	138.97	137.90	137.86	137.83	137.80	137.79	137.75	137.45
Annual Max Momentary Gage Height	145.19		m. (MSL.) ,				at 09.00 Hours , on Aug 31 , 2019						
Zero Gage at Bottom Elevation	136.90		m. (MSL.) ,			River Bed	135.74	m. (MSL.)					
Left Bank Elevation		143.49		m. (MSL.) ,									
Right Bank Elevation		143.09		m. (MSL.) ,		Drainage Are	414	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.80	0.00	0.10	187.00	0.93	0.38	0.32	0.26	0.22	0.18	
2	0.00	0.00	3.05	0.10	0.12	106.50	0.75	0.38	0.30	0.26	0.75	0.20	
3	0.00	0.00	1.74	0.20	0.10	93.00	0.75	0.42	0.30	0.26	0.69	0.20	
4	0.00	0.00	1.56	0.32	0.10	155.00	0.69	0.42	0.30	0.26	0.46	0.20	
5	0.00	0.00	1.29	0.40	0.08	155.00	0.99	0.42	0.28	0.24	0.44	0.20	
6	0.00	0.00	0.78	0.32	0.34	97.50	0.84	0.48	0.28	0.24	0.40	0.22	
7	0.00	0.00	0.46	0.22	1.02	57.74	0.81	0.54	0.28	0.24	0.40	0.22	
8	0.00	0.00	0.40	0.22	0.66	23.20	1.56	0.56	0.28	0.22	0.42	0.22	
9	0.00	0.00	0.38	0.22	0.52	10.04	1.80	0.50	0.28	0.22	0.30	0.20	
10	0.00	0.00	0.30	0.18	0.46	28.12	1.20	0.44	0.28	0.22	0.30	0.20	
11	0.00	0.00	0.22	0.16	0.46	60.38	0.90	0.44	0.28	0.20	0.30	0.20	
12	0.00	0.00	0.20	0.12	0.48	59.94	0.72	0.42	0.28	0.20	0.26	0.20	
13	0.00	0.00	0.20	0.12	0.46	44.56	0.72	0.42	0.28	0.20	0.26	0.20	
14	0.00	0.00	0.16	0.10	0.48	28.36	0.78	0.42	0.28	0.20	0.24	0.20	
15	0.00	0.00	0.12	0.08	0.54	14.92	0.63	0.42	0.28	0.20	0.24	0.20	
16	0.00	0.00	0.14	0.08	1.08	8.36	0.56	0.40	0.26	0.20	0.24	0.20	
17	0.00	0.00	0.18	0.04	1.44	5.88	0.56	0.40	0.26	0.20	0.24	0.18	
18	0.00	0.00	0.20	0.02	1.38	5.48	0.56	0.40	0.26	0.20	0.24	0.18	
19	0.00	0.00	0.50	0.00	1.26	5.08	0.54	0.40	0.26	0.20	0.22	0.18	
20	0.00	0.00	0.75	0.00	1.80	4.79	0.52	0.40	0.26	0.20	0.22	0.16	
21	0.00	0.00	0.48	0.00	3.10	60.38	0.50	0.40	0.26	0.22	0.22	0.16	
22	0.00	0.00	0.42	0.00	12.92	59.94	0.48	0.38	0.28	0.22	0.22	0.16	
23	0.00	0.00	0.36	0.00	36.60	44.56	0.42	0.38	0.28	0.22	0.22	0.16	
24	0.00	0.00	0.26	0.06	71.50	28.36	0.44	0.38	0.28	0.22	0.20	0.12	
25	0.00	0.00	0.24	0.06	307.00	14.92	0.46	0.36	0.28	0.22	0.20	0.12	
26	0.00	0.00	0.20	0.04	183.00	8.36	0.44	0.40	0.28	0.22	0.20	0.12	
27	0.00	0.00	0.18	0.06	125.00	5.88	0.42	0.40	0.28	0.22	0.20	0.12	
28	0.00	0.08	0.10	0.04	78.60	5.48	0.40	0.36	0.30	0.22	0.18	0.10	
29	0.00	0.44	0.10	0.04	40.72	5.08	0.40	0.32	0.30	0.22	0.18	0.10	
30	0.00	0.32	0.10	0.06	112.50	4.79	0.40	0.32	0.30	0.22		0.10	
31		0.20		0.06	360.60		0.40		0.30	0.22		0.10	
Total	0.00	1.04	17.87	3.32	1344.42	1388.60	21.57	12.36	8.74	6.84	8.66	5.30	2818.72 CMSDAY
Mean	0.00	0.03	0.60	0.11	43.37	46.29	0.70	0.41	0.28	0.22	0.30	0.17	7.70 CMS
Max	0.00	0.44	3.05	0.40	360.60	187.00	1.80	0.56	0.32	0.26	0.75	0.22	360.60 CMS
Min	0.00	0.00	0.10	0.00	0.08	4.79	0.40	0.32	0.26	0.20	0.18	0.10	0.00 CMS
Runoff	0.00	0.09	1.54	0.29	116.16	119.98	1.86	1.07	0.76	0.59	0.75	0.46	243.54 MCM
Momentary Peak	401.80	CMS. at 145.19 m. (MSL.) at 09.00 Hours , on Aug 31 , 2019											
Runoff Yield	18.65	Liters/Second/Square KM. Momentary Peak Yield 970.53 Liters/Second/Square KM.											

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

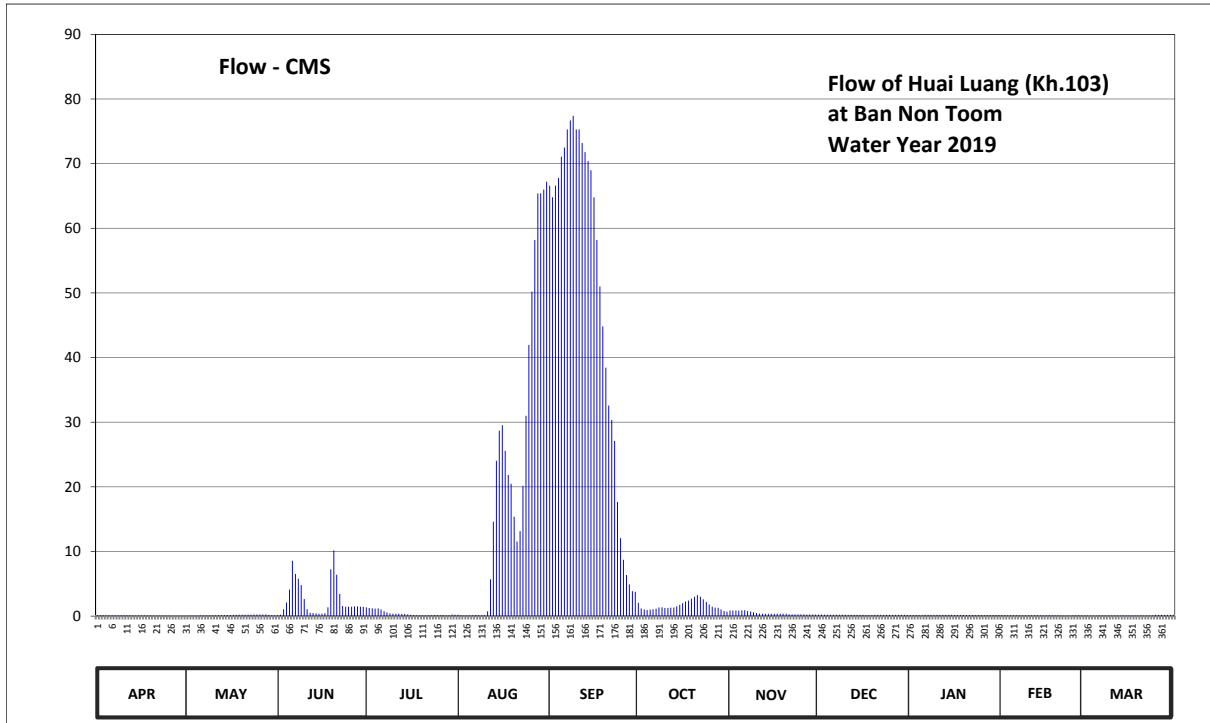
Lat 17 - 28 - 56 N Long 102 - 47 - 49 E

Location : on right bank at the bridge on highway.

	<b>Ban Non Toom</b>	<b>Amphoe Mueang</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	1,235 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+166.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+172.486 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.75	166.66	166.74	167.29	166.81	171.36	167.43	167.12	166.84	166.78	166.76	166.69	
2	166.74	166.67	166.83	167.25	166.74	171.33	167.23	167.12	166.84	166.78	166.76	166.69	
3	166.74	166.67	167.19	167.24	166.70	171.36	167.17	167.12	166.83	166.78	166.75	166.68	
4	166.73	166.68	167.44	167.22	166.69	171.38	167.15	167.11	166.83	166.78	166.75	166.68	
5	166.73	166.68	167.84	167.23	166.71	171.43	167.17	167.13	166.82	166.78	166.74	166.68	
6	166.73	166.69	168.61	167.18	166.75	171.45	167.19	167.14	166.82	166.79	166.74	166.69	
7	166.72	166.70	168.32	167.09	166.76	171.49	167.22	167.10	166.81	166.79	166.73	166.70	
8	166.72	166.70	168.18	167.02	166.75	171.51	167.28	167.07	166.81	166.79	166.73	166.70	
9	166.72	166.71	167.98	166.96	166.73	171.52	167.29	167.03	166.81	166.79	166.73	166.70	
10	166.71	166.72	167.55	166.94	166.73	171.49	167.25	166.98	166.81	166.79	166.73	166.70	
11	166.71	166.73	167.19	166.94	167.08	171.49	167.25	166.95	166.80	166.79	166.73	166.70	
12	166.71	166.74	167.01	166.94	168.16	171.46	167.27	166.94	166.80	166.79	166.73	166.70	
13	166.70	166.75	166.98	166.92	169.36	171.44	167.28	166.94	166.80	166.79	166.72	166.70	
14	166.70	166.76	166.96	166.92	170.02	171.42	167.32	166.94	166.79	166.79	166.72	166.70	
15	166.70	166.77	166.94	166.88	170.28	171.40	167.37	166.94	166.79	166.79	166.72	166.70	
16	166.69	166.78	166.93	166.80	170.32	171.33	167.42	166.94	166.79	166.78	166.71	166.70	
17	166.69	166.79	166.97	166.76	170.11	171.22	167.47	166.94	166.78	166.78	166.71	166.70	
18	166.69	166.80	167.29	166.71	169.89	171.05	167.50	166.94	166.78	166.77	166.71	166.70	
19	166.69	166.81	168.42	166.73	169.81	170.87	167.56	166.94	166.78	166.77	166.72	166.70	
20	166.68	166.81	168.84	166.71	169.43	170.67	167.62	166.93	166.79	166.78	166.72	166.70	
21	166.68	166.82	168.30	166.71	169.01	170.46	167.67	166.90	166.79	166.78	166.70	166.70	
22	166.68	166.83	167.71	166.73	169.20	170.36	167.62	166.88	166.79	166.78	166.70	166.70	
23	166.67	166.83	167.33	166.74	169.79	170.20	167.54	166.86	166.79	166.78	166.70	166.70	
24	166.67	166.84	167.31	166.76	170.39	169.62	167.46	166.86	166.80	166.78	166.70	166.73	
25	166.67	166.84	167.31	166.76	170.78	169.07	167.38	166.86	166.80	166.78	166.71	166.82	
26	166.66	166.85	167.31	166.77	171.03	168.63	167.31	166.86	166.80	166.78	166.71	166.79	
27	166.66	166.85	167.32	166.76	171.22	168.29	167.27	166.85	166.80	166.78	166.71	166.79	
28	166.66	166.88	167.32	166.73	171.34	168.00	167.26	166.85	166.79	166.77	166.70	166.79	
29	166.66	166.79	167.31	166.73	171.34	167.79	167.18	166.85	166.79	166.77	166.71	166.79	
30	166.66	166.74	167.31	166.84	171.35	167.77	167.10	166.85	166.79	166.77	166.72	166.79	
31		166.72		166.82	171.37		167.06		166.78	166.77		166.79	
Mean	166.70	166.76	167.49	166.91	168.99	170.56	167.33	166.96	166.80	166.78	166.72	166.72	
Max	166.75	166.88	168.84	167.29	171.37	171.52	167.67	167.14	166.84	166.79	166.76	166.82	171.52
Min	166.66	166.66	166.74	166.71	166.69	167.77	167.06	166.85	166.78	166.77	166.70	166.68	166.66
Annual Max Momentary Gage Height	171.53		m. (MSL.) ,			at 06.00 Hours ,	on Sep 9 , 2019						
Zero Gage at Bottom Elevation	166.50		m. (MSL.) ,			River Bed	166.52	m. (MSL.)					
Left Bank Elevation		172.65		m. (MSL.) ,									
Right Bank Elevation		172.20		m. (MSL.) ,		Drainage Are	1,235	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.06	0.14	1.37	0.21	66.60	2.05	0.86	0.24	0.18	0.16	0.09	
2	0.14	0.07	0.23	1.25	0.14	64.80	1.19	0.86	0.24	0.18	0.16	0.09	
3	0.14	0.07	1.07	1.22	0.10	66.60	1.01	0.86	0.23	0.18	0.15	0.08	
4	0.13	0.08	2.10	1.16	0.09	67.80	0.95	0.83	0.23	0.18	0.15	0.08	
5	0.13	0.08	4.10	1.19	0.11	71.10	1.01	0.89	0.22	0.18	0.14	0.08	
6	0.13	0.09	8.57	1.04	0.15	72.50	1.07	0.92	0.22	0.19	0.14	0.09	
7	0.12	0.10	6.54	0.77	0.16	75.30	1.16	0.80	0.21	0.19	0.13	0.10	
8	0.12	0.10	5.80	0.56	0.15	76.70	1.34	0.71	0.21	0.19	0.13	0.10	
9	0.12	0.11	4.80	0.42	0.13	77.40	1.37	0.59	0.21	0.19	0.13	0.10	
10	0.11	0.12	2.65	0.38	0.13	75.30	1.25	0.46	0.21	0.19	0.13	0.10	
11	0.11	0.13	1.07	0.38	0.74	75.30	1.25	0.40	0.20	0.19	0.13	0.10	
12	0.11	0.14	0.53	0.38	5.70	73.20	1.31	0.38	0.20	0.19	0.13	0.10	
13	0.10	0.15	0.46	0.34	14.60	71.80	1.34	0.38	0.20	0.19	0.12	0.10	
14	0.10	0.16	0.42	0.34	24.04	70.40	1.50	0.38	0.19	0.19	0.12	0.10	
15	0.10	0.17	0.38	0.28	28.70	69.00	1.75	0.38	0.19	0.19	0.12	0.10	
16	0.09	0.18	0.36	0.20	29.52	64.80	2.00	0.38	0.19	0.18	0.11	0.10	
17	0.09	0.19	0.44	0.16	25.57	58.20	2.25	0.38	0.18	0.18	0.11	0.10	
18	0.09	0.20	1.37	0.11	21.83	51.00	2.40	0.38	0.18	0.17	0.11	0.10	
19	0.09	0.21	7.24	0.13	20.47	44.84	2.70	0.38	0.18	0.17	0.12	0.10	
20	0.08	0.21	10.18	0.11	15.36	38.44	3.00	0.36	0.19	0.18	0.12	0.10	
21	0.08	0.22	6.40	0.11	11.54	32.58	3.25	0.30	0.19	0.18	0.10	0.10	
22	0.08	0.23	3.45	0.13	13.15	30.36	3.00	0.28	0.19	0.18	0.10	0.10	
23	0.07	0.23	1.55	0.14	20.15	27.10	2.60	0.26	0.19	0.18	0.10	0.10	
24	0.07	0.24	1.45	0.16	30.99	17.68	2.20	0.26	0.20	0.18	0.10	0.13	
25	0.07	0.24	1.45	0.16	41.96	12.05	1.80	0.26	0.20	0.18	0.11	0.22	
26	0.06	0.25	1.45	0.17	50.20	8.71	1.45	0.26	0.20	0.18	0.11	0.19	
27	0.06	0.25	1.50	0.16	58.20	6.35	1.31	0.25	0.20	0.18	0.11	0.19	
28	0.06	0.28	1.50	0.13	65.40	4.90	1.28	0.25	0.19	0.17	0.10	0.19	
29	0.06	0.19	1.45	0.13	65.40	3.85	1.04	0.25	0.19	0.17	0.11	0.19	
30	0.06	0.14	1.45	0.24	66.00	3.75	0.80	0.25	0.19	0.17	0.11	0.19	
31		0.12		0.22	67.20		0.68		0.18	0.17		0.19	
<b>Total</b>	2.92	5.01	80.10	13.54	678.09	1478.41	51.31	14.20	6.24	5.62	3.55	3.70	2342.69 CMSDAY
<b>Mean</b>	0.10	0.16	2.67	0.44	21.87	49.28	1.66	0.47	0.20	0.18	0.12	0.12	6.40 CMS
<b>Max</b>	0.15	0.28	10.18	1.37	67.20	77.40	3.25	0.92	0.24	0.19	0.16	0.22	77.40 CMS
<b>Min</b>	0.06	0.06	0.14	0.11	0.09	3.75	0.68	0.25	0.18	0.17	0.10	0.08	0.06 CMS
<b>Runoff</b>	0.25	0.43	6.92	1.17	58.59	127.73	4.43	1.23	0.54	0.49	0.31	0.32	202.41 MCM
<b>Momentary Peak</b>	78.10 CMS. at 171.53 m. (MSL.) at 06.00 Hours , on Sep 9 , 2019												
<b>Runoff Yield</b>	5.20 Liters/Second/Square KM.			Momentary Peak Yield				63.24 Liters/Second/Square KM.					

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

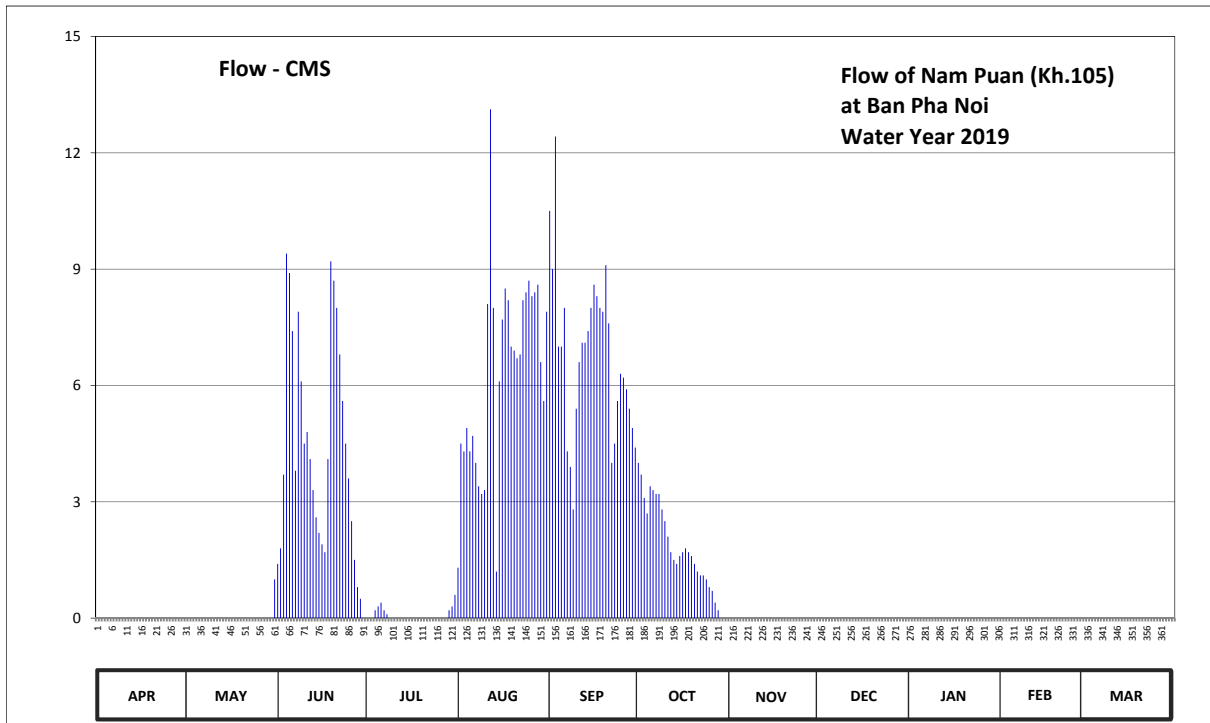
Lat 17 - 21 - 43 N Long 101 - 49 - 46 E

Location : on right bank at the bridge on highway.

	Ban Pha Noi	Amphoe Wang Saphung	Changwat Loei
<b>Drainage Area</b>	948 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+247.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+258.341 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.73	249.63	250.94	250.75	250.93	251.85	251.20	250.76	250.58	250.06	249.63	249.33	
2	249.72	249.62	250.98	250.76	251.25	251.70	251.17	250.76	250.57	250.05	249.62	249.31	
3	249.71	249.62	251.17	250.79	251.23	252.03	251.11	250.75	250.55	250.04	249.60	249.31	
4	249.71	249.61	251.74	250.82	251.29	251.50	251.07	250.74	250.50	250.04	249.57	249.35	
5	249.70	249.61	251.69	250.83	251.23	251.50	251.14	250.74	250.47	250.02	249.54	249.33	
6	249.70	249.60	251.54	250.84	251.27	251.60	251.13	250.74	250.45	250.01	249.52	249.45	
7	249.70	249.63	251.18	250.82	251.20	251.23	251.12	250.74	250.41	250.00	249.50	249.52	
8	249.70	249.63	251.59	250.81	251.14	251.19	251.12	250.74	250.38	249.98	249.47	249.56	
9	249.69	249.63	251.41	250.79	251.12	251.08	251.08	250.73	250.37	249.97	249.45	249.58	
10	249.69	249.63	251.25	250.78	251.13	251.34	251.05	250.73	250.36	249.94	249.43	249.60	
11	249.68	249.63	251.28	250.75	251.61	251.46	251.01	250.73	250.35	249.92	249.41	249.62	
12	249.68	249.62	251.21	250.71	252.08	251.51	250.97	250.73	250.34	249.90	249.39	249.63	
13	249.67	249.62	251.13	250.68	251.60	251.51	250.95	250.73	250.32	249.89	249.37	249.64	
14	249.67	249.61	251.06	250.64	250.92	251.54	250.94	250.73	250.31	249.89	249.35	249.65	
15	249.68	249.62	251.02	250.60	251.41	251.60	250.96	250.73	250.29	249.88	249.33	249.65	
16	249.69	249.62	250.99	250.58	251.57	251.66	250.97	250.73	250.28	249.85	249.30	249.66	
17	249.69	249.62	250.97	250.58	251.65	251.63	250.98	250.73	250.27	249.85	249.27	249.68	
18	249.69	249.61	251.21	250.56	251.62	251.60	250.97	250.73	250.25	249.83	249.25	249.68	
19	249.68	249.60	251.72	250.52	251.50	251.59	250.96	250.73	250.24	249.81	249.28	249.68	
20	249.68	249.59	251.67	250.50	251.49	251.71	250.94	250.73	250.23	249.79	249.32	249.67	
21	249.67	249.58	251.60	250.52	251.47	251.56	250.92	250.72	250.22	249.77	249.31	249.67	
22	249.67	249.61	251.48	250.56	251.48	251.20	250.91	250.70	250.21	249.75	249.31	249.67	
23	249.66	249.62	251.36	250.59	251.62	251.25	250.91	250.68	250.21	249.75	249.33	249.66	
24	249.66	249.65	251.25	250.62	251.64	251.36	250.90	250.66	250.20	249.74	249.36	249.67	
25	249.65	249.65	251.16	250.67	251.67	251.43	250.88	250.64	250.16	249.73	249.36	249.67	
26	249.65	249.65	251.05	250.73	251.63	251.42	250.87	250.63	250.14	249.71	249.35	249.68	
27	249.65	249.65	250.95	250.76	251.64	251.39	250.84	250.62	250.12	249.69	249.34	249.68	
28	249.64	249.65	250.88	250.79	251.66	251.34	250.82	250.61	250.10	249.68	249.34	249.67	
29	249.64	249.76	250.85	250.82	251.46	251.29	250.80	250.59	250.09	249.67	249.33	249.67	
30	249.64	250.61	250.80	250.83	251.36	251.24	250.78	250.59	250.08	249.65	249.65	249.66	
31		250.90		250.86	251.59		250.77		250.08	249.63		249.65	
Mean	249.68	249.70	251.24	250.71	251.43	251.48	250.98	250.71	250.29	249.85	249.40	249.59	
Max	249.73	250.90	251.74	250.86	252.08	252.03	251.20	250.76	250.58	250.06	249.63	249.68	252.08
Min	249.64	249.58	250.80	250.50	250.92	251.08	250.77	250.59	250.08	249.63	249.25	249.31	249.25
Annual Max Momentary Gage Height	252.33		m. (MSL.) ,				at 07.00 Hours ,						on Sep 3 , 2019
Zero Gage at Bottom Elevation	247.50		m. (MSL.) ,				River Bed 247.68						m. (MSL.)
Left Bank Elevation		258.30		m. (MSL.) ,									
Right Bank Elevation		258.30		m. (MSL.) ,		Drainage Are	948						Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.40	0.00	1.30	10.50	4.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.80	0.00	4.50	9.00	3.70	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	3.70	0.00	4.30	12.42	3.10	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	9.40	0.20	4.90	7.00	2.70	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	8.90	0.30	4.30	7.00	3.40	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	7.40	0.40	4.70	8.00	3.30	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	3.80	0.20	4.00	4.30	3.20	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	7.90	0.10	3.40	3.90	3.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	6.10	0.00	3.20	2.80	2.80	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	4.50	0.00	3.30	5.40	2.50	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	4.80	0.00	8.10	6.60	2.10	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	4.10	0.00	13.12	7.10	1.70	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	3.30	0.00	8.00	7.10	1.50	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.60	0.00	1.20	7.40	1.40	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	2.20	0.00	6.10	8.00	1.60	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.90	0.00	7.70	8.60	1.70	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.70	0.00	8.50	8.30	1.80	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	4.10	0.00	8.20	8.00	1.70	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	9.20	0.00	7.00	7.90	1.60	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	8.70	0.00	6.90	9.10	1.40	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	8.00	0.00	6.70	7.60	1.20	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	6.80	0.00	6.80	4.00	1.10	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	5.60	0.00	8.20	4.50	1.10	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	4.50	0.00	8.40	5.60	1.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.60	0.00	8.70	6.30	0.80	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	2.50	0.00	8.30	6.20	0.70	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.50	0.00	8.40	5.90	0.40	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.80	0.00	8.60	5.40	0.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.50	0.20	6.60	4.90	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.30	5.60	4.40	0.00	0.00	0.00	0.00	0.00	0.00	
31		1.00		0.60	7.90		0.00		0.00	0.00		0.00	
<b>Total</b>	0.00	1.00	131.30	2.30	196.92	203.22	54.90	0.00	0.00	0.00	0.00	0.00	589.64 CMSDAY
<b>Mean</b>	0.00	0.03	4.38	0.07	6.35	6.77	1.77	0.00	0.00	0.00	0.00	0.00	1.61 CMS
<b>Max</b>	0.00	1.00	9.40	0.60	13.12	12.42	4.00	0.00	0.00	0.00	0.00	0.00	13.12 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	1.20	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.09	11.34	0.20	17.01	17.56	4.74	0.00	0.00	0.00	0.00	0.00	50.94 MCM
<b>Momentary Peak</b>	16.62 CMS. at 252.33 m. (MSL.) at 07.00 Hours , on Sep 3 , 2019												
<b>Runoff Yield</b>	1.70 Liters/Second/Square KM.			Momentary Peak Yield			17.53 Liters/Second/Square KM.						



## WATER YEAR : 2019

## KHONG RIVER BASIN

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

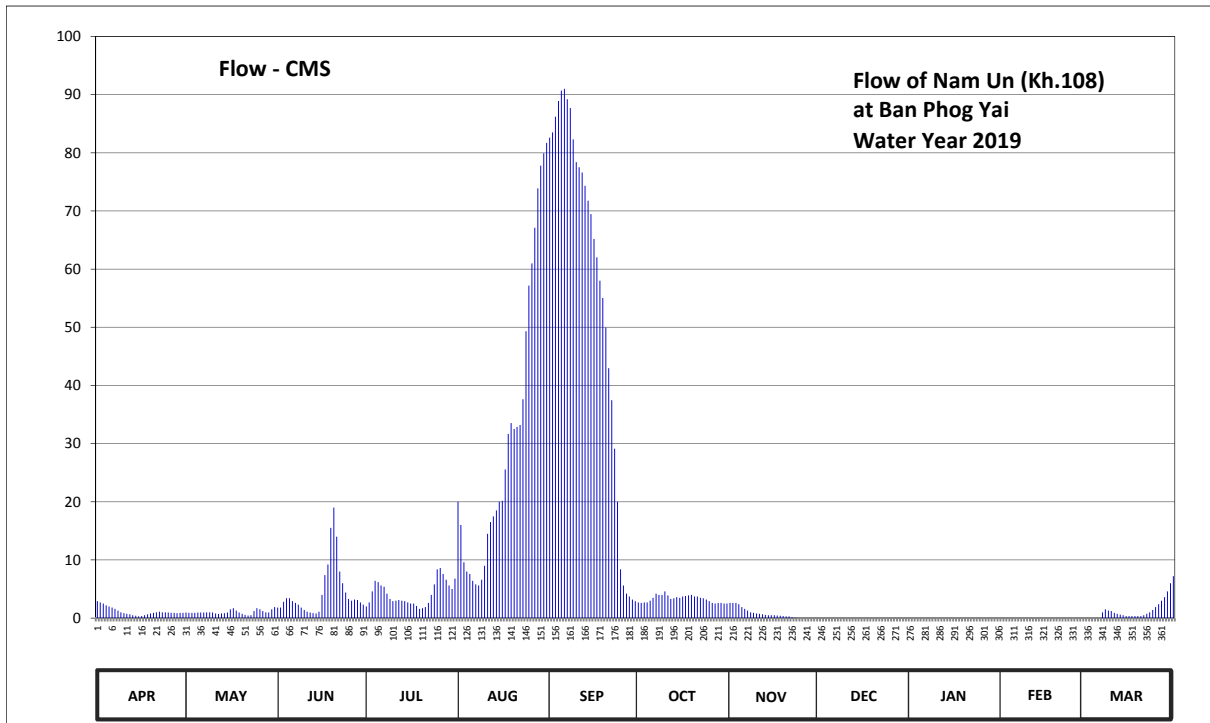
Lat 17 - 19 - 22 N Long 103 - 58 - 45 E

Location : on right bank Ban Phog Yai.

	<b>Ban Phog Yai</b>	<b>Amphoe Phanna Nikhom</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	2,160 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+150.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+158.093 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.19	152.99	153.08	153.10	153.80	156.92	153.17	153.16	152.60	152.47	151.11	151.20	
2	153.17	152.98	153.08	153.17	153.72	156.95	153.16	153.16	152.58	152.45	151.14	151.24	
3	153.15	152.98	153.18	153.33	153.58	157.04	153.17	153.16	152.56	152.42	151.16	151.29	
4	153.12	152.98	153.24	153.42	153.50	157.13	153.17	153.14	152.54	152.38	151.18	151.42	
5	153.10	152.99	153.24	153.41	153.48	157.19	153.20	153.09	152.51	152.36	151.19	151.85	
6	153.08	152.99	153.19	153.38	153.42	157.20	153.25	153.06	152.48	152.34	151.20	152.72	
7	153.06	152.99	153.16	153.37	153.39	157.14	153.31	153.03	152.45	152.31	151.23	153.00	
8	153.03	153.00	153.13	153.31	153.38	157.09	153.30	153.00	152.42	152.27	151.28	153.05	
9	153.00	153.00	153.08	153.23	153.43	156.91	153.30	152.98	152.39	152.23	151.34	153.03	
10	152.97	152.99	153.04	153.19	153.55	156.78	153.33	152.96	152.36	152.21	151.39	153.02	
11	152.95	152.96	153.01	153.20	153.69	156.75	153.29	152.95	152.34	152.17	151.40	152.98	
12	152.93	152.94	152.99	153.21	153.73	156.72	153.23	152.93	152.31	152.12	151.40	152.95	
13	152.90	152.96	152.97	153.20	153.75	156.62	153.24	152.91	152.27	152.08	151.38	152.92	
14	152.88	152.97	152.96	153.19	153.77	156.50	153.26	152.90	152.26	152.03	151.34	152.90	
15	152.86	152.99	153.01	153.17	153.80	156.39	153.25	152.90	152.25	152.00	151.32	152.87	
16	152.87	153.05	153.30	153.15	153.81	156.19	153.27	152.90	152.24	151.94	151.31	152.87	
17	152.90	153.07	153.47	153.15	154.15	156.04	153.28	152.89	152.25	151.89	151.30	152.87	
18	152.93	153.03	153.56	153.11	154.51	155.85	153.29	152.88	152.26	151.83	151.29	152.87	
19	152.96	152.99	153.71	153.06	154.62	155.71	153.30	152.87	152.27	151.76	151.27	152.87	
20	152.98	152.95	153.78	153.07	154.56	155.47	153.27	152.86	152.30	151.68	151.25	152.87	
21	153.00	152.91	153.68	153.09	154.58	155.14	153.27	152.86	152.35	151.58	151.24	152.90	
22	153.01	152.89	153.50	153.16	154.60	154.85	153.25	152.83	152.38	151.48	151.22	152.95	
23	153.00	152.90	153.40	153.30	154.86	154.36	153.24	152.81	152.39	151.38	151.21	153.00	
24	153.00	153.02	153.32	153.39	155.44	153.80	153.22	152.79	152.42	151.28	151.21	153.04	
25	152.99	153.07	153.23	153.52	155.81	153.52	153.19	152.76	152.49	151.21	151.17	153.09	
26	152.98	153.05	153.20	153.53	155.99	153.38	153.16	152.75	152.54	151.21	151.16	153.14	
27	152.98	153.02	153.22	153.48	156.28	153.31	153.15	152.71	152.54	151.20	151.15	153.20	
28	152.97	153.00	153.21	153.43	156.60	153.27	153.16	152.69	152.54	151.19	151.14	153.26	
29	152.98	152.99	153.17	153.38	156.76	153.22	153.16	152.67	152.52	151.17	151.16	153.33	
30	152.98	153.05	153.13	153.35	156.83	153.19	153.15	152.63	152.51	151.15	151.15	153.40	
31		153.09		153.44	156.89		153.15		152.49	151.12		153.46	
Mean	153.00	152.99	153.24	153.27	154.53	155.69	153.23	152.91	152.41	151.84	151.25	152.76	
Max	153.19	153.09	153.78	153.53	156.89	157.20	153.33	153.16	152.60	152.47	151.40	153.46	157.20
Min	152.86	152.89	152.96	153.06	153.38	153.19	153.15	152.63	152.24	151.12	151.11	151.20	151.11
Annual Max Momentary Gage Height	157.20		m. (MSL.) ,			at 18.00 Hours ,	on Sep 5 , 2019						
Zero Gage at Bottom Elevation	150.00		m. (MSL.) ,			River Bed	150.03	m. (MSL.)					
Left Bank Elevation	158.35		m. (MSL.) ,										
Right Bank Elevation	158.45		m. (MSL.) ,			Drainage Are	2,160	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.90	0.95	1.80	2.00	20.00	82.60	2.70	2.60	0.00	0.00	0.00	0.00	
2	2.70	0.90	1.80	2.70	16.00	83.50	2.60	2.60	0.00	0.00	0.00	0.00	
3	2.50	0.90	2.80	4.60	9.60	86.20	2.70	2.60	0.00	0.00	0.00	0.00	
4	2.20	0.90	3.40	6.40	8.00	88.90	2.70	2.40	0.00	0.00	0.00	0.00	
5	2.00	0.95	3.40	6.20	7.60	90.70	3.00	1.90	0.00	0.00	0.00	0.00	
6	1.80	0.95	2.90	5.60	6.40	91.00	3.50	1.60	0.00	0.00	0.00	0.00	
7	1.60	0.95	2.60	5.40	5.80	89.20	4.20	1.30	0.00	0.00	0.00	1.00	
8	1.30	1.00	2.30	4.20	5.60	87.70	4.00	1.00	0.00	0.00	0.00	1.50	
9	1.00	1.00	1.80	3.30	6.60	82.30	4.00	0.90	0.00	0.00	0.00	1.30	
10	0.85	0.95	1.40	2.90	9.00	78.40	4.60	0.80	0.00	0.00	0.00	1.20	
11	0.75	0.80	1.10	3.00	14.50	77.50	3.90	0.75	0.00	0.00	0.00	0.90	
12	0.65	0.70	0.95	3.10	16.50	76.60	3.30	0.65	0.00	0.00	0.00	0.75	
13	0.50	0.80	0.85	3.00	17.50	74.31	3.40	0.55	0.00	0.00	0.00	0.60	
14	0.40	0.85	0.80	2.90	18.50	71.77	3.60	0.50	0.00	0.00	0.00	0.50	
15	0.30	0.95	1.10	2.70	20.00	69.44	3.50	0.50	0.00	0.00	0.00	0.35	
16	0.35	1.50	4.00	2.50	20.15	65.20	3.70	0.50	0.00	0.00	0.00	0.35	
17	0.50	1.70	7.40	2.50	25.55	62.02	3.80	0.45	0.00	0.00	0.00	0.35	
18	0.65	1.30	9.20	2.10	31.67	58.00	3.90	0.40	0.00	0.00	0.00	0.35	
19	0.80	0.95	15.50	1.60	33.54	55.04	4.00	0.35	0.00	0.00	0.00	0.35	
20	0.90	0.75	19.00	1.70	32.52	49.95	3.70	0.30	0.00	0.00	0.00	0.35	
21	1.00	0.55	14.00	1.90	32.86	42.97	3.70	0.30	0.00	0.00	0.00	0.50	
22	1.10	0.45	8.00	2.60	33.20	37.45	3.50	0.15	0.00	0.00	0.00	0.75	
23	1.00	0.50	6.00	4.00	37.62	29.12	3.40	0.05	0.00	0.00	0.00	1.00	
24	1.00	1.20	4.40	5.80	49.32	20.00	3.20	0.00	0.00	0.00	0.00	1.40	
25	0.95	1.70	3.30	8.40	57.15	8.40	2.90	0.00	0.00	0.00	0.00	1.90	
26	0.90	1.50	3.00	8.60	60.97	5.60	2.60	0.00	0.00	0.00	0.00	2.40	
27	0.90	1.20	3.20	7.60	67.11	4.20	2.50	0.00	0.00	0.00	0.00	3.00	
28	0.85	1.00	3.10	6.60	73.88	3.70	2.60	0.00	0.00	0.00	0.00	3.60	
29	0.90	0.95	2.70	5.60	77.80	3.20	2.60	0.00	0.00	0.00	0.00	4.60	
30	0.90	1.50	2.30	5.00	79.90	2.90	2.50	0.00	0.00	0.00	0.00	6.00	
31		1.90		6.80	81.70		2.50		0.00	0.00		7.20	
<b>Total</b>	<b>34.15</b>	<b>32.20</b>	<b>134.10</b>	<b>131.30</b>	<b>976.54</b>	<b>1677.87</b>	<b>102.80</b>	<b>23.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>42.20</b>	<b>3154.31</b> CMSDAY
<b>Mean</b>	<b>1.14</b>	<b>1.04</b>	<b>4.47</b>	<b>4.24</b>	<b>31.50</b>	<b>55.93</b>	<b>3.32</b>	<b>0.77</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.36</b>	<b>8.62</b> CMS
<b>Max</b>	<b>2.90</b>	<b>1.90</b>	<b>19.00</b>	<b>8.60</b>	<b>81.70</b>	<b>91.00</b>	<b>4.60</b>	<b>2.60</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.20</b>	<b>91.00</b> CMS
<b>Min</b>	<b>0.30</b>	<b>0.45</b>	<b>0.80</b>	<b>1.60</b>	<b>5.60</b>	<b>2.90</b>	<b>2.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>2.95</b>	<b>2.78</b>	<b>11.59</b>	<b>11.34</b>	<b>84.37</b>	<b>144.97</b>	<b>8.88</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.65</b>	<b>272.53</b> MCM
<b>Momentary Peak</b>	<b>91.00 CMS. at 157.20 m. (MSL.) at 18.00 Hours , on Sep 5, 2019</b>												
<b>Runoff Yield</b>	<b>4.00</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>		<b>42.13</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

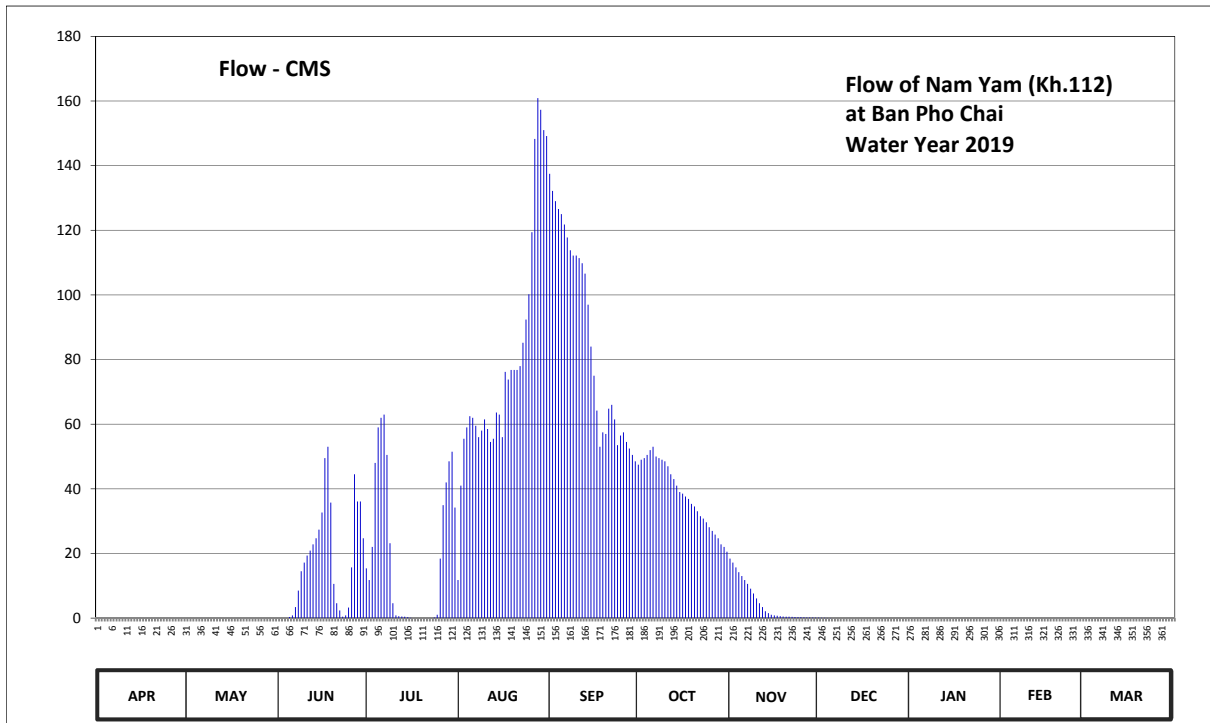
Lat 17 - 35 - 59 N Long 103 - 58 - 51 E

Location : on left bank Ban Pho Chai.

	<b>Ban Pho Chai</b>	<b>Amphoe Akat Annuai</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	1,448 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+141.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the automatic gage building.	<b>Elevation</b>	+149.186 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 10 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.75	143.29	143.46	145.88	145.76	148.05	146.69	145.98	144.26	142.80	142.34	142.28	
2	143.74	143.29	143.54	145.76	146.56	147.99	146.72	145.94	144.23	142.77	142.34	142.27	
3	143.73	143.29	143.58	146.08	146.85	147.95	146.73	145.89	144.18	142.83	142.33	142.26	
4	143.72	143.34	143.73	146.70	146.92	147.92	146.75	145.84	144.12	142.93	142.32	142.32	
5	143.62	143.34	144.65	146.92	146.99	147.90	146.78	145.80	144.05	142.99	142.31	142.41	
6	143.53	143.35	145.17	146.98	146.98	147.86	146.80	145.76	143.99	142.98	142.31	142.43	
7	143.52	143.35	145.46	147.00	146.93	147.81	146.74	145.72	143.92	142.95	142.30	142.41	
8	143.51	143.34	145.65	146.75	146.86	147.76	146.73	145.67	143.85	142.92	142.30	142.42	
9	143.50	143.34	145.85	146.11	146.90	147.74	146.72	145.62	143.81	142.89	142.29	142.43	
10	143.50	143.33	145.94	145.52	146.97	147.74	146.71	145.57	143.75	142.86	142.29	142.42	
11	143.49	143.32	146.01	145.18	146.91	147.73	146.68	145.52	143.70	142.83	142.28	142.42	
12	143.47	143.32	146.05	145.05	146.83	147.71	146.63	145.46	143.63	142.80	142.29	142.41	
13	143.46	143.33	146.10	144.98	146.85	147.67	146.60	145.37	143.59	142.77	142.31	142.39	
14	143.45	143.33	146.15	144.85	147.01	147.55	146.56	145.32	143.54	142.74	142.33	142.40	
15	143.44	143.34	146.22	144.56	147.00	147.35	146.52	145.24	143.49	142.71	142.35	142.40	
16	143.43	143.33	146.36	144.15	146.86	147.20	146.51	145.17	143.46	142.67	142.37	142.41	
17	143.42	143.32	146.73	143.85	147.22	147.02	146.49	145.12	143.42	142.64	142.41	142.40	
18	143.41	143.31	146.80	143.25	147.18	146.80	146.47	145.05	143.37	142.61	142.43	142.39	
19	143.40	143.31	146.44	143.09	147.23	146.89	146.43	144.99	143.33	142.58	142.41	142.39	
20	143.39	143.30	145.72	143.30	147.23	146.88	146.41	144.92	143.27	142.55	142.38	142.38	
21	143.38	143.30	145.52	143.50	147.23	147.03	146.37	144.85	143.24	142.52	142.37	142.37	
22	143.37	143.29	145.39	143.72	147.25	147.05	146.33	144.76	143.21	142.49	142.35	142.36	
23	143.36	143.31	144.89	144.04	147.37	146.97	146.31	144.69	143.16	142.46	142.34	142.35	
24	143.35	143.32	145.17	144.35	147.49	146.81	146.28	144.61	143.09	142.43	142.33	142.34	
25	143.34	143.32	145.45	145.24	147.59	146.87	146.24	144.53	143.05	142.40	142.32	142.34	
26	143.33	143.32	145.89	145.98	147.83	146.89	146.21	144.47	143.02	142.40	142.31	142.34	
27	143.32	143.34	146.63	146.42	148.17	146.83	146.18	144.42	142.99	142.40	142.31	142.33	
28	143.31	143.35	146.45	146.58	148.31	146.79	146.15	144.38	142.95	142.39	142.30	142.33	
29	143.30	143.34	146.45	146.71	148.27	146.75	146.10	144.34	142.91	142.38	142.29	142.33	
30	143.29	143.36	146.15	146.77	148.20	146.71	146.08	144.31	142.87	142.36	142.28	142.32	
31		143.41		146.40	148.18		146.04		142.83	142.35		142.32	
Mean	143.46	143.33	145.59	145.34	147.22	147.34	146.48	145.18	143.49	142.66	142.33	142.37	
Max	143.75	143.41	146.80	147.00	148.31	148.05	146.80	145.98	144.26	142.99	142.43	142.43	148.31
Min	143.29	143.29	143.46	143.09	145.76	146.71	146.04	144.31	142.83	142.35	142.28	142.26	142.26
Annual Max Momentary Gage Height	148.32		m. (MSL.) ,				at 06.00 Hours ,		on Aug 28 , 2019				
Zero Gage at Bottom Elevation	141.00		m. (MSL.) ,				River Bed	140.03		m. (MSL.)			
Left Bank Elevation		150.81		m. (MSL.) ,									
Right Bank Elevation		151.41		m. (MSL.) ,			Drainage Are	1,448		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	15.40	11.80	137.50	47.50	18.40	0.13	0.00	0.00	0.00	
2	0.00	0.00	0.00	11.80	41.00	132.20	49.00	17.20	0.12	0.00	0.00	0.00	
3	0.00	0.00	0.00	22.04	55.50	129.00	49.50	15.70	0.09	0.00	0.00	0.00	
4	0.00	0.00	0.00	48.00	59.00	126.60	50.50	14.20	0.06	0.00	0.00	0.00	
5	0.00	0.00	0.33	59.00	62.50	125.00	52.00	13.00	0.03	0.00	0.00	0.00	
6	0.00	0.00	0.84	62.00	62.00	121.80	53.00	11.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	3.40	63.00	59.50	117.80	50.00	10.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	8.50	50.50	56.00	113.80	49.50	9.10	0.00	0.00	0.00	0.00	
9	0.00	0.00	14.50	23.18	58.00	112.20	49.00	7.60	0.00	0.00	0.00	0.00	
10	0.00	0.00	17.20	4.60	61.50	112.20	48.50	6.10	0.00	0.00	0.00	0.00	
11	0.00	0.00	19.38	0.86	58.50	111.40	47.00	4.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	20.90	0.60	54.50	109.80	44.50	3.40	0.00	0.00	0.00	0.00	
13	0.00	0.00	22.80	0.49	55.50	106.60	43.00	2.14	0.00	0.00	0.00	0.00	
14	0.00	0.00	24.70	0.43	63.60	97.00	41.00	1.54	0.00	0.00	0.00	0.00	
15	0.00	0.00	27.36	0.28	63.00	84.00	39.00	1.06	0.00	0.00	0.00	0.00	
16	0.00	0.00	32.68	0.08	56.00	75.00	38.50	0.84	0.00	0.00	0.00	0.00	
17	0.00	0.00	49.50	0.00	76.20	64.20	37.62	0.74	0.00	0.00	0.00	0.00	
18	0.00	0.00	53.00	0.00	73.80	53.00	36.86	0.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	35.72	0.00	76.80	57.50	35.34	0.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	10.60	0.00	76.80	57.00	34.58	0.46	0.00	0.00	0.00	0.00	
21	0.00	0.00	4.60	0.00	76.80	64.80	33.06	0.43	0.00	0.00	0.00	0.00	
22	0.00	0.00	2.38	0.00	78.00	66.00	31.54	0.38	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.45	0.02	85.20	61.50	30.78	0.35	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.84	0.18	92.40	53.50	29.64	0.31	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.25	1.06	100.20	56.50	28.12	0.27	0.00	0.00	0.00	0.00	
26	0.00	0.00	15.70	18.40	119.40	57.50	26.98	0.24	0.00	0.00	0.00	0.00	
27	0.00	0.00	44.50	34.96	148.30	54.50	25.84	0.21	0.00	0.00	0.00	0.00	
28	0.00	0.00	36.10	42.00	160.90	52.50	24.70	0.19	0.00	0.00	0.00	0.00	
29	0.00	0.00	36.10	48.50	157.30	50.50	22.80	0.17	0.00	0.00	0.00	0.00	
30	0.00	0.00	24.70	51.50	151.00	48.50	22.04	0.16	0.00	0.00	0.00	0.00	
31	0.00	0.00		34.20	149.20		20.52		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	510.03	593.08	2500.20	2609.40	1191.92	142.29	0.43	0.00	0.00	0.00	7547.35 CMSDAY
<b>Mean</b>	0.00	0.00	17.00	19.13	80.65	86.98	38.45	4.74	0.01	0.00	0.00	0.00	20.62 CMS
<b>Max</b>	0.00	0.00	53.00	63.00	160.90	137.50	53.00	18.40	0.13	0.00	0.00	0.00	160.90 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	11.80	48.50	20.52	0.16	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	44.07	51.24	216.02	225.45	102.98	12.29	0.04	0.00	0.00	0.00	652.09 MCM
<b>Momentary Peak</b>	161.80	CMS.	at 148.32 m. (MSL.)	at 06.00 Hours	on Aug 28, 2019								
<b>Runoff Yield</b>	14.28	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	111.74	Liters/Second/Square KM.						

## WATER YEAR : 2019

## KHONG RIVER BASIN

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

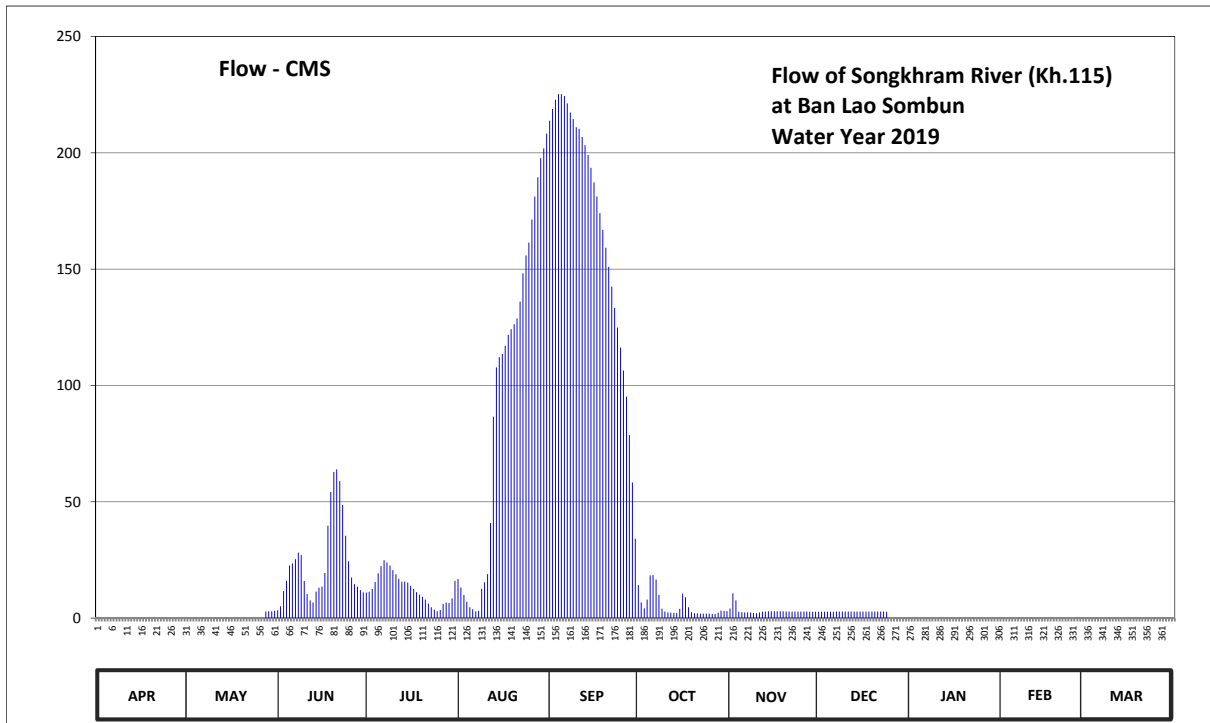
Lat 18 - 00 - 20 N Long 103 - 28 - 20 E

Location : on right bank Ban Lao Sombun.

	<b>Ban Lao Sombun</b>	<b>Amphoe Ban Muang</b>	<b>Changwat Sakon Nakhon</b>
<b>Drainage Area</b>	2,852 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+143.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b>	+156.671 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.58	143.60	143.75	145.27	146.22	153.74	145.85	143.91	143.61	143.60	143.54	143.49	
2	143.58	143.60	144.12	145.33	145.66	153.81	144.44	145.21	143.61	143.60	143.54	143.49	
3	143.59	143.60	145.38	145.55	145.08	153.86	143.93	144.63	143.61	143.59	143.53	143.49	
4	143.60	143.60	146.13	146.07	144.50	153.89	144.70	143.61	143.61	143.59	143.53	143.49	
5	143.61	143.60	146.95	146.53	144.04	153.89	146.42	143.56	143.61	143.59	143.52	143.49	
6	143.62	143.60	147.05	146.92	143.86	153.88	146.44	143.55	143.61	143.59	143.52	143.49	
7	143.63	143.60	147.23	147.19	143.64	153.84	146.20	143.55	143.62	143.59	143.52	143.49	
8	143.63	143.63	147.51	147.09	143.70	153.79	145.08	143.53	143.62	143.59	143.52	143.49	
9	143.63	143.68	147.41	146.95	145.56	153.75	143.90	143.49	143.62	143.59	143.52	143.49	
10	143.63	143.66	146.12	146.70	146.05	153.70	143.62	143.47	143.62	143.59	143.52	143.49	
11	143.62	143.61	145.15	146.48	146.49	153.69	143.55	143.53	143.63	143.59	143.52	143.49	
12	143.62	143.60	144.63	146.24	148.56	153.64	143.52	143.61	143.63	143.59	143.52	143.49	
13	143.62	143.60	144.44	146.08	150.94	153.59	143.50	143.63	143.63	143.59	143.52	143.49	
14	143.62	143.60	145.35	146.09	151.64	153.53	143.50	143.66	143.63	143.58	143.51	143.49	
15	143.61	143.59	145.65	146.03	151.77	153.45	143.89	143.65	143.63	143.58	143.51	143.49	
16	143.61	143.59	145.73	145.80	151.81	153.35	145.18	143.65	143.62	143.58	143.50	143.50	
17	143.61	143.58	146.55	145.56	151.91	153.24	144.89	143.65	143.62	143.58	143.50	143.50	
18	143.60	143.57	148.48	145.30	152.05	153.11	144.04	143.65	143.62	143.58	143.49	143.50	
19	143.60	143.56	149.40	145.11	152.12	152.98	143.57	143.65	143.62	143.58	143.49	143.50	
20	143.60	143.56	149.88	144.93	152.18	152.84	143.46	143.64	143.62	143.58	143.49	143.50	
21	143.59	143.56	149.94	144.70	152.24	152.69	143.45	143.63	143.62	143.57	143.49	143.50	
22	143.59	143.58	149.66	144.35	152.40	152.53	143.43	143.63	143.62	143.57	143.49	143.50	
23	143.58	143.58	149.09	144.04	152.64	152.34	143.43	143.63	143.62	143.57	143.49	143.50	
24	143.58	143.59	148.17	143.81	152.78	152.14	143.43	143.63	143.61	143.57	143.49	143.49	
25	143.58	143.60	147.14	143.66	152.88	151.89	143.43	143.63	143.61	143.57	143.48	143.49	
26	143.58	143.60	146.31	143.77	153.06	151.60	143.40	143.62	143.61	143.56	143.48	143.49	
27	143.59	143.60	145.92	144.32	153.24	151.24	143.40	143.62	143.60	143.55	143.48	143.49	
28	143.59	143.62	145.72	144.43	153.39	150.61	143.52	143.61	143.60	143.55	143.48	143.49	
29	143.59	143.65	145.46	144.39	153.51	149.63	143.71	143.61	143.60	143.55	143.48	143.49	
30	143.60	143.66	145.29	144.79	153.57	148.08	143.69	143.61	143.60	143.55	143.48	143.49	
31		143.70		146.13	153.66		143.67		143.60	143.55	143.48	143.49	
Mean	143.60	143.61	146.65	145.47	149.71	152.81	144.14	143.70	143.62	143.58	143.51	143.49	
Max	143.63	143.70	149.94	147.19	153.66	153.89	146.44	145.21	143.63	143.60	143.54	143.50	153.89
Min	143.58	143.56	143.75	143.66	143.64	148.08	143.40	143.47	143.60	143.55	143.48	143.49	143.40
Annual Max Momentary Gage Height	153.89		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	143.00		m. (MSL.) ,			River Bed	142.99		m. (MSL.)				
Left Bank Elevation		155.85		m. (MSL.) ,									
Right Bank Elevation		156.96		m. (MSL.) ,		Drainage Are	2,852		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.38	10.99	16.76	213.80	14.18	4.10	2.75	0.00	0.00	0.00	
2	0.00	0.00	5.10	11.32	13.13	218.80	6.70	10.66	2.75	0.00	0.00	0.00	
3	0.00	0.00	11.59	12.53	9.94	222.80	4.19	7.65	2.75	0.00	0.00	0.00	
4	0.00	0.00	16.04	15.56	7.00	225.20	8.00	2.75	2.75	0.00	0.00	0.00	
5	0.00	0.00	22.60	19.24	4.70	225.20	18.36	2.52	2.75	0.00	0.00	0.00	
6	0.00	0.00	23.50	22.36	3.87	224.40	18.52	2.48	2.75	0.00	0.00	0.00	
7	0.00	0.00	25.30	24.90	2.88	221.20	16.60	2.48	2.79	0.00	0.00	0.00	
8	0.00	0.00	28.10	23.90	3.15	217.30	9.94	2.39	2.79	0.00	0.00	0.00	
9	0.00	0.00	27.10	22.60	12.58	214.50	4.05	2.21	2.79	0.00	0.00	0.00	
10	0.00	0.00	15.96	20.60	15.40	211.00	2.79	2.12	2.79	0.00	0.00	0.00	
11	0.00	0.00	10.33	18.84	18.92	210.30	2.48	2.39	2.84	0.00	0.00	0.00	
12	0.00	0.00	7.65	16.92	40.84	206.80	2.34	2.75	2.84	0.00	0.00	0.00	
13	0.00	0.00	6.70	15.64	86.56	203.30	2.25	2.84	2.84	0.00	0.00	0.00	
14	0.00	0.00	11.43	15.72	107.76	199.10	2.25	2.97	2.84	0.00	0.00	0.00	
15	0.00	0.00	13.08	15.24	112.18	193.50	4.01	2.93	2.84	0.00	0.00	0.00	
16	0.00	0.00	13.52	13.90	113.54	187.25	10.49	2.93	2.79	0.00	0.00	0.00	
17	0.00	0.00	19.40	12.58	116.94	181.20	8.95	2.93	2.79	0.00	0.00	0.00	
18	0.00	0.00	39.72	11.15	121.75	174.05	4.70	2.93	2.79	0.00	0.00	0.00	
19	0.00	0.00	54.20	10.11	124.20	166.90	2.57	2.93	2.79	0.00	0.00	0.00	
20	0.00	0.00	62.84	9.15	126.30	159.20	2.07	2.88	2.79	0.00	0.00	0.00	
21	0.00	0.00	63.92	8.00	128.80	150.95	2.03	2.84	2.79	0.00	0.00	0.00	
22	0.00	0.00	58.88	6.25	136.00	142.50	1.94	2.84	2.79	0.00	0.00	0.00	
23	0.00	0.00	48.62	4.70	148.20	133.30	1.94	2.84	2.79	0.00	0.00	0.00	
24	0.00	0.00	35.38	3.65	155.90	124.90	1.94	2.84	2.75	0.00	0.00	0.00	
25	0.00	0.00	24.40	2.97	161.40	116.26	1.94	2.84	0.00	0.00	0.00	0.00	
26	0.00	0.00	17.48	3.47	171.30	106.40	1.80	2.79	0.00	0.00	0.00	0.00	
27	0.00	0.00	14.56	6.10	181.20	95.20	1.80	2.79	0.00	0.00	0.00	0.00	
28	0.00	2.79	13.46	6.65	189.45	78.64	2.34	2.75	0.00	0.00	0.00	0.00	
29	0.00	2.93	12.03	6.45	197.70	58.34	3.20	2.75	0.00	0.00	0.00	0.00	
30	0.00	2.97	11.10	8.45	201.90	34.12	3.11	2.75	0.00	0.00	0.00	0.00	
31		3.15		16.04	208.20		3.02		0.00	0.00		0.00	
<b>Total</b>	0.00	11.84	717.37	395.98	2938.45	5116.41	170.50	95.87	66.93	0.00	0.00	0.00	9513.35 CMSDAY
<b>Mean</b>	0.00	0.38	23.91	12.77	94.79	170.55	5.50	3.20	2.16	0.00	0.00	0.00	25.99 CMS
<b>Max</b>	0.00	3.15	63.92	24.90	208.20	225.20	18.52	10.66	2.84	0.00	0.00	0.00	225.20 CMS
<b>Min</b>	0.00	0.00	3.38	2.97	2.88	34.12	1.80	2.12	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	1.02	61.98	34.21	253.88	442.06	14.73	8.28	5.78	0.00	0.00	0.00	821.95 MCM
<b>Momentary Peak</b>	225.20	CMS.	at 153.89 m. (MSL.)	at 06.00 Hours ,	on Sep 4 , 2019								
<b>Runoff Yield</b>	9.14	Liters/Second/Square KM.			Momentary Peak Yield	78.96	Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAM MAE ING RIVER BASIN

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

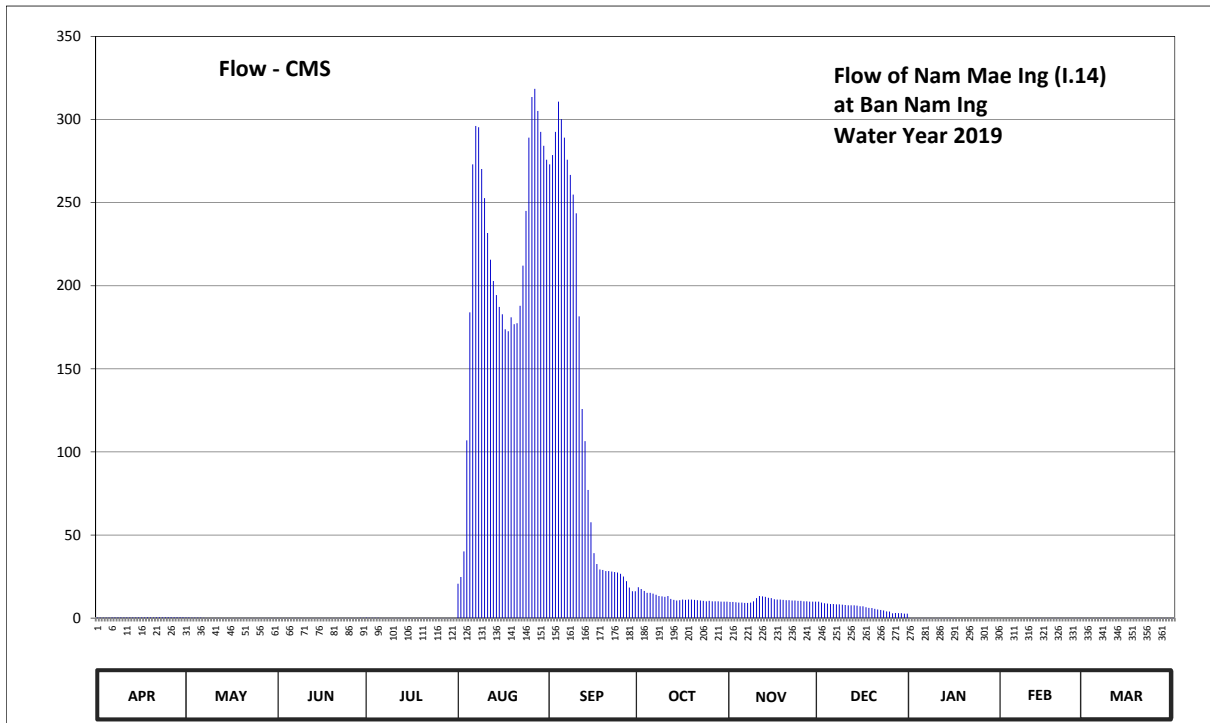
Lat 19 - 49 - 56 N Long 100 - 12 - 15 E

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

	<b>Ban Nam Ing</b>	<b>Amphoe Khun Tan</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	6,266 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+351.430 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank downstream side at the approach of the bridge.	<b>Elevation</b>	+361.805 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.35	352.51	352.07	352.37	352.73	357.50	352.65	352.26	352.27	351.94	351.82	352.00	
2	352.37	352.43	352.08	352.33	352.88	357.58	352.61	352.26	352.24	352.00	351.81	352.05	
3	352.36	352.40	352.09	352.29	353.36	357.78	352.56	352.25	352.22	352.03	351.80	352.09	
4	352.39	352.39	352.10	352.28	354.90	358.04	352.51	352.24	352.21	352.01	351.79	352.12	
5	352.38	352.37	352.11	352.26	356.20	357.89	352.51	352.24	352.20	351.98	351.78	352.13	
6	352.45	352.35	352.13	352.21	357.50	357.73	352.49	352.23	352.20	351.97	351.78	352.13	
7	352.48	352.24	352.15	352.17	357.83	357.54	352.46	352.23	352.19	351.93	351.78	352.13	
8	352.49	352.15	352.17	352.12	357.82	357.41	352.43	352.24	352.19	351.92	351.79	352.13	
9	352.45	352.14	352.16	352.11	357.46	357.24	352.42	352.28	352.18	351.92	351.82	352.12	
10	352.43	352.13	352.15	352.07	357.21	357.08	352.41	352.37	352.17	351.93	351.83	352.12	
11	352.43	352.13	352.10	352.06	356.91	356.16	352.43	352.43	352.16	351.92	351.87	352.11	
12	352.43	352.13	352.09	352.05	356.68	355.23	352.35	352.42	352.16	351.91	351.92	352.11	
13	352.45	352.11	352.05	352.05	356.49	354.89	352.32	352.41	352.16	351.89	351.98	352.11	
14	352.47	352.11	352.07	352.04	356.36	354.28	352.30	352.38	352.15	351.88	352.00	352.10	
15	352.48	352.10	352.09	352.06	356.25	353.83	352.31	352.37	352.13	351.85	352.02	352.10	
16	352.51	352.10	352.10	352.08	356.18	353.33	352.33	352.34	352.13	351.85	352.03	352.10	
17	352.52	352.09	352.11	352.07	356.03	353.14	352.32	352.33	352.10	351.84	352.04	352.10	
18	352.53	352.09	352.10	352.06	356.01	353.04	352.33	352.33	352.08	351.84	352.05	352.09	
19	352.51	352.08	352.10	352.05	356.15	353.03	352.33	352.32	352.07	351.83	352.06	352.09	
20	352.50	352.08	352.09	352.05	356.08	353.01	352.32	352.31	352.04	351.83	352.07	352.09	
21	352.53	352.09	352.10	352.03	356.09	353.01	352.31	352.31	352.02	351.83	352.08	352.09	
22	352.57	352.11	352.09	352.04	356.26	353.00	352.30	352.30	352.00	351.83	352.09	352.08	
23	352.55	352.13	352.08	352.07	356.63	352.99	352.29	352.30	351.98	351.83	352.09	352.08	
24	352.56	352.11	352.08	352.11	357.10	352.98	352.28	352.29	351.94	351.83	352.08	352.08	
25	352.57	352.12	352.09	352.13	357.73	352.95	352.29	352.29	351.93	351.83	352.07	352.07	
26	352.58	352.13	352.16	352.13	358.08	352.89	352.28	352.28	351.84	351.83	352.07	352.07	
27	352.58	352.12	352.18	352.14	358.15	352.79	352.28	352.28	351.86	351.83	352.07	352.07	
28	352.58	352.09	352.22	352.12	357.96	352.64	352.28	352.27	351.85	351.83	352.07	352.06	
29	352.58	352.08	352.25	352.09	357.78	352.55	352.27	352.27	351.85	351.83	352.07	352.06	
30	352.58	352.07	352.33	352.07	357.66	352.55	352.27	352.27	351.83	351.83	352.07	352.06	
31		352.07		352.06	357.54		352.27		351.83	351.83		352.06	
Mean	352.49	352.17	352.12	352.12	356.52	354.80	352.37	352.30	352.07	351.88	351.96	352.09	
Max	352.58	352.51	352.33	352.37	358.15	358.04	352.65	352.43	352.27	352.03	352.09	352.13	358.15
Min	352.35	352.07	352.05	352.03	352.73	352.55	352.27	352.23	351.83	351.83	351.78	352.00	351.78
Annual Max Momentary Gage Height	358.18		m. (MSL.) ,			at 06.00 Hours ,	on Aug 27 , 2019						
Zero Gage at Bottom Elevation	351.43		m. (MSL.) ,			River Bed	350.40	m. (MSL.)					
Left Bank Elevation		362.11		m. (MSL.) ,									
Right Bank Elevation		362.07		m. (MSL.) ,		Drainage Are	6,266	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.41	0.07	0.27	20.68	273.00	18.60	9.73	9.94	0.05	0.04	0.06	
2	0.27	0.33	0.08	0.23	24.70	278.60	17.56	9.73	9.32	0.06	0.04	0.07	
3	0.26	0.30	0.08	0.19	40.10	292.60	16.36	9.53	8.91	0.07	0.04	0.08	
4	0.29	0.29	0.08	0.18	107.00	310.80	15.19	9.32	8.71	0.06	0.04	0.08	
5	0.28	0.27	0.08	0.16	184.00	300.30	15.19	9.32	8.50	0.06	0.04	0.09	
6	0.35	0.25	0.09	0.11	273.00	289.10	14.72	9.12	8.50	0.06	0.04	0.09	
7	0.38	0.14	0.09	0.09	296.10	275.80	14.01	9.12	8.30	0.05	0.04	0.09	
8	0.39	0.09	0.09	0.08	295.40	266.70	13.31	9.32	8.30	0.05	0.04	0.09	
9	0.35	0.09	0.09	0.08	270.20	254.80	13.07	10.14	8.10	0.05	0.04	0.08	
10	0.33	0.09	0.09	0.07	252.70	243.60	12.84	11.99	7.90	0.05	0.04	0.08	
11	0.33	0.09	0.08	0.07	231.70	181.60	13.31	13.31	7.70	0.05	0.05	0.08	
12	0.33	0.09	0.08	0.07	215.60	125.80	11.58	13.07	7.70	0.05	0.05	0.08	
13	0.35	0.08	0.07	0.07	202.85	106.50	10.96	12.84	7.70	0.05	0.06	0.08	
14	0.37	0.08	0.07	0.07	194.40	77.10	10.55	12.19	7.50	0.05	0.06	0.08	
15	0.38	0.08	0.08	0.07	187.25	57.70	10.76	11.99	7.10	0.05	0.06	0.08	
16	0.41	0.08	0.08	0.08	182.80	39.05	11.17	11.37	7.10	0.05	0.07	0.08	
17	0.42	0.08	0.08	0.07	173.80	32.55	10.96	11.17	6.50	0.04	0.07	0.08	
18	0.43	0.08	0.08	0.07	172.60	29.30	11.17	11.17	6.18	0.04	0.07	0.08	
19	0.41	0.08	0.08	0.07	181.00	28.98	11.17	10.96	6.02	0.04	0.07	0.08	
20	0.40	0.08	0.08	0.07	176.80	28.33	10.96	10.76	5.54	0.04	0.07	0.08	
21	0.43	0.08	0.08	0.07	177.40	28.33	10.76	10.76	5.22	0.04	0.08	0.08	
22	0.47	0.08	0.08	0.07	187.90	28.00	10.55	10.55	4.90	0.04	0.08	0.08	
23	0.45	0.09	0.08	0.07	212.10	27.73	10.35	10.55	4.62	0.04	0.08	0.08	
24	0.46	0.08	0.08	0.08	245.00	27.45	10.14	10.35	4.06	0.04	0.08	0.08	
25	0.47	0.08	0.08	0.09	289.10	26.63	10.35	10.35	3.92	0.04	0.07	0.07	
26	0.48	0.09	0.09	0.09	313.60	24.98	10.14	10.14	2.84	0.04	0.07	0.07	
27	0.48	0.08	0.10	0.09	318.50	22.24	10.14	10.14	3.06	0.04	0.07	0.07	
28	0.48	0.08	0.12	0.08	305.20	18.34	10.14	9.94	2.95	0.04	0.07	0.07	
29	0.48	0.08	0.15	0.08	292.60	16.13	9.94	9.94	2.95	0.04	0.07	0.07	
30	0.48	0.07	0.23	0.07	284.20	16.13	9.94	9.94	2.73	0.04		0.07	
31		0.07		0.07	275.80		9.94		2.73	0.04		0.07	
Total	11.66	3.96	2.71	3.03	6584.08	3728.17	375.83	318.81	195.50	1.46	1.70	2.42	11229.33 CMSDAY
Mean	0.39	0.13	0.09	0.10	212.39	124.27	12.12	10.63	6.31	0.05	0.06	0.08	30.68 CMS
Max	0.48	0.41	0.23	0.27	318.50	310.80	18.60	13.31	9.94	0.07	0.08	0.09	318.50 CMS
Min	0.25	0.07	0.07	0.07	20.68	16.13	9.94	9.12	2.73	0.04	0.04	0.06	0.04 CMS
Runoff	1.01	0.34	0.23	0.26	568.86	322.11	32.47	27.55	16.89	0.13	0.15	0.21	970.21 MCM
Momentary Peak	320.60	CMS.	at 358.18 m. (MSL.)	at 06.00 Hours	on Aug 27, 2019								
Runoff Yield	5.00	Liters/Second/Square KM.		Momentary Peak Yield	52.09	Liters/Second/Square KM.							



## WATER YEAR : 2019

## NAM MAE ING RIVER BASIN

Nam Mae Ing at Ban Jae Dee Ngam , Phayao (I.17)

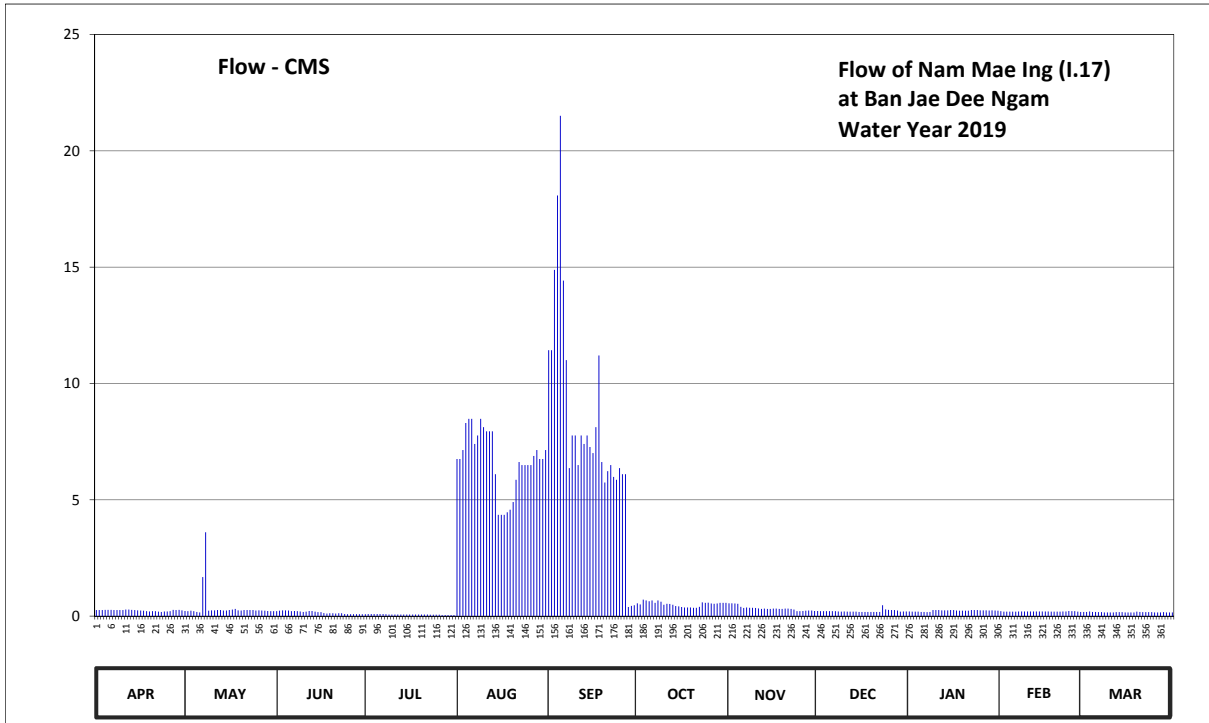
Lat 19 - 10 - 11 N Long 99 - 56 - 13 E

Location : on left bank at Ban Jae Dee Ngam.

	<b>Ban</b>	<b>Jae Dee Ngam</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	1,167	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+386.266 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.				<b>Elevation</b>	+390.690 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2003 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Fairly Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	387.31	387.23	387.21	386.43	387.55	387.81	387.75	387.75	387.23	387.19	387.22	387.14	
2	387.31	387.22	387.25	386.49	387.55	387.81	387.70	387.75	387.21	387.17	387.17	387.16	
3	387.31	387.25	387.29	386.49	387.58	387.96	387.91	387.74	387.21	387.17	387.17	387.19	
4	387.33	387.21	387.30	386.49	387.65	388.08	387.87	387.73	387.21	387.17	387.17	387.15	
5	387.33	387.15	387.27	386.49	387.66	388.20	387.84	387.60	387.21	387.16	387.18	387.14	
6	387.33	387.08	387.21	386.49	387.66	387.94	387.87	387.50	387.21	387.16	387.18	387.13	
7	387.31	387.03	387.23	386.47	387.60	387.79	387.77	387.53	387.21	387.13	387.20	387.12	
8	387.31	387.28	387.21	386.42	387.62	387.52	387.87	387.52	387.19	387.14	387.19	387.10	
9	387.31	387.26	387.19	386.32	387.66	387.62	387.82	387.51	387.17	387.31	387.19	387.09	
10	387.31	387.29	387.15	386.27	387.64	387.62	387.69	387.50	387.20	387.31	387.19	387.09	
11	387.35	387.29	387.17	386.27	387.63	387.53	387.73	387.45	387.17	387.31	387.20	387.10	
12	387.35	387.31	387.23	386.27	387.63	387.62	387.72	387.41	387.17	387.30	387.19	387.13	
13	387.33	387.31	387.24	386.27	387.63	387.60	387.69	387.43	387.17	387.30	387.20	387.13	
14	387.31	387.27	387.18	386.27	387.50	387.62	387.63	387.42	387.17	387.29	387.19	387.12	
15	387.29	387.28	387.13	386.28	387.35	387.59	387.62	387.41	387.16	387.31	387.19	387.10	
16	387.27	387.31	387.12	386.28	387.35	387.57	387.58	387.43	387.16	387.31	387.20	387.09	
17	387.25	387.36	386.93	386.28	387.35	387.64	387.53	387.43	387.15	387.28	387.19	387.09	
18	387.22	387.41	386.71	386.28	387.36	387.80	387.54	387.42	387.15	387.25	387.18	387.09	
19	387.19	387.29	386.75	386.28	387.37	387.54	387.53	387.41	387.15	387.25	387.17	387.17	
20	387.22	387.28	386.77	386.27	387.40	387.47	387.52	387.43	387.15	387.25	387.17	387.14	
21	387.21	387.31	386.73	386.27	387.48	387.51	387.51	387.44	387.15	387.26	387.17	387.13	
22	387.17	387.31	386.76	386.26	387.54	387.53	387.60	387.41	387.15	387.31	387.19	387.13	
23	387.16	387.31	386.81	386.22	387.53	387.49	387.79	387.36	387.67	387.32	387.19	387.13	
24	387.19	387.31	386.52	386.22	387.53	387.48	387.77	387.21	387.37	387.31	387.23	387.12	
25	387.19	387.27	386.42	386.20	387.53	387.52	387.78	387.21	387.33	387.30	387.22	387.09	
26	387.22	387.29	386.42	386.17	387.53	387.50	387.74	387.23	387.32	387.29	387.21	387.11	
27	387.33	387.27	386.42	386.07	387.56	387.50	387.73	387.25	387.32	387.29	387.18	387.11	
28	387.32	387.25	386.41	386.07	387.58	387.58	387.74	387.27	387.27	387.27	387.16	387.12	
29	387.33	387.23	386.41	386.07	387.55	387.64	387.77	387.27	387.17	387.29	387.15	387.10	
30	387.29	387.21	386.39	386.07	387.55	387.67	387.77	387.24	387.20	387.28	387.28	387.08	
31		387.22		386.07	387.58		387.77		387.20	387.25		387.11	
Mean	387.28	387.26	386.93	386.28	387.54	387.66	387.71	387.44	387.22	387.26	387.19	387.12	
Max	387.35	387.41	387.30	386.49	387.66	388.20	387.91	387.75	387.67	387.32	387.23	387.19	388.20
Min	387.16	387.03	386.39	386.07	387.35	387.47	387.51	387.21	387.15	387.13	387.15	387.08	386.07
Annual Max Momentary Gage Height	388.43		m. (MSL.) ,										at 06.00 Hours , on Sep 5, 2019
Zero Gage at Bottom Elevation	386.27		m. (MSL.) ,				384.44		m. (MSL.)				
Left Bank Elevation		390.57		m. (MSL.) ,									
Right Bank Elevation		390.58		m. (MSL.) ,		Drainage Are	1,167		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual												
1	0.26	0.22	0.21	0.08	6.75	11.43	0.55	0.55	0.22	0.20	0.21	0.18													
2	0.26	0.21	0.23	0.09	6.75	11.43	0.50	0.55	0.21	0.19	0.19	0.18													
3	0.26	0.23	0.25	0.09	7.14	14.88	0.71	0.54	0.21	0.19	0.19	0.20													
4	0.27	0.21	0.25	0.09	8.30	18.08	0.67	0.53	0.21	0.19	0.19	0.18													
5	0.27	0.18	0.24	0.09	8.48	21.50	0.64	0.40	0.21	0.18	0.19	0.18													
6	0.27	0.16	0.21	0.09	8.48	14.42	0.67	0.35	0.21	0.18	0.19	0.17													
7	0.26	1.68	0.22	0.09	7.40	11.00	0.57	0.37	0.21	0.17	0.20	0.17													
8	0.26	3.60	0.21	0.08	7.76	6.36	0.67	0.36	0.20	0.18	0.20	0.16													
9	0.26	0.23	0.20	0.07	8.48	7.76	0.62	0.36	0.19	0.26	0.20	0.16													
10	0.26	0.25	0.18	0.07	8.12	7.76	0.49	0.35	0.20	0.26	0.20	0.16													
11	0.28	0.25	0.19	0.07	7.94	6.49	0.53	0.33	0.19	0.26	0.20	0.16													
12	0.28	0.26	0.22	0.07	7.94	7.76	0.52	0.31	0.19	0.25	0.20	0.17													
13	0.27	0.26	0.22	0.07	7.94	7.40	0.49	0.32	0.19	0.25	0.20	0.17													
14	0.26	0.24	0.19	0.07	6.10	7.76	0.43	0.31	0.19	0.25	0.20	0.17													
15	0.25	0.24	0.17	0.07	4.35	7.27	0.42	0.31	0.18	0.26	0.20	0.16													
16	0.24	0.26	0.17	0.07	4.35	7.01	0.39	0.32	0.18	0.26	0.20	0.16													
17	0.23	0.28	0.13	0.07	4.35	8.12	0.37	0.32	0.18	0.24	0.20	0.16													
18	0.21	0.31	0.11	0.07	4.46	11.20	0.37	0.31	0.18	0.23	0.19	0.16													
19	0.20	0.25	0.12	0.07	4.57	6.62	0.37	0.31	0.18	0.23	0.19	0.19													
20	0.21	0.24	0.12	0.07	4.90	5.74	0.36	0.32	0.18	0.23	0.19	0.18													
21	0.21	0.26	0.11	0.07	5.86	6.23	0.36	0.32	0.18	0.23	0.19	0.17													
22	0.19	0.26	0.12	0.07	6.62	6.49	0.40	0.31	0.18	0.26	0.20	0.17													
23	0.18	0.26	0.12	0.06	6.49	5.98	0.59	0.28	0.47	0.26	0.20	0.17													
24	0.20	0.26	0.09	0.06	6.49	5.86	0.57	0.21	0.29	0.26	0.22	0.17													
25	0.20	0.24	0.08	0.06	6.49	6.36	0.58	0.21	0.27	0.25	0.21	0.16													
26	0.21	0.25	0.08	0.06	6.49	6.10	0.54	0.22	0.26	0.25	0.21	0.16													
27	0.27	0.24	0.08	0.05	6.88	6.10	0.53	0.23	0.26	0.25	0.19	0.16													
28	0.26	0.23	0.08	0.05	7.14	0.39	0.54	0.24	0.24	0.24	0.18	0.17													
29	0.27	0.22	0.08	0.05	6.75	0.44	0.57	0.24	0.19	0.25	0.18	0.16													
30	0.25	0.21	0.08	0.05	6.75	0.47	0.57	0.22	0.20	0.24		0.16													
31		0.21		0.05	7.14		0.57		0.20	0.23		0.16													
Total	7.30	12.20	4.76	2.17	207.66	244.41	16.16	10.00	6.65	7.18	5.71	5.23	529.43 CMSDAY												
Mean	0.24	0.39	0.16	0.07	6.70	8.15	0.52	0.33	0.21	0.23	0.20	0.17	1.45 CMS												
Max	0.28	3.60	0.25	0.09	8.48	21.50	0.71	0.55	0.47	0.26	0.22	0.20	21.50 CMS												
Min	0.18	0.16	0.08	0.05	4.35	0.39	0.36	0.21	0.18	0.17	0.18	0.16	0.05 CMS												
Runoff	0.63	1.05	0.41	0.19	17.94	21.12	1.40	0.86	0.57	0.62	0.49	0.45	45.74 MCM												
Momentary Peak	30.79	CMS. at 388.43 m. (MSL.) at 06.00 Hours , on Sep 5 , 2019																							
Runoff Yield	1.24	Liters/Second/Square KM.											Momentary Peak Yield	26.38	Liters/Second/Square KM.										

## WATER YEAR : 2019

## NAM MAE KOK RIVER BASIN

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

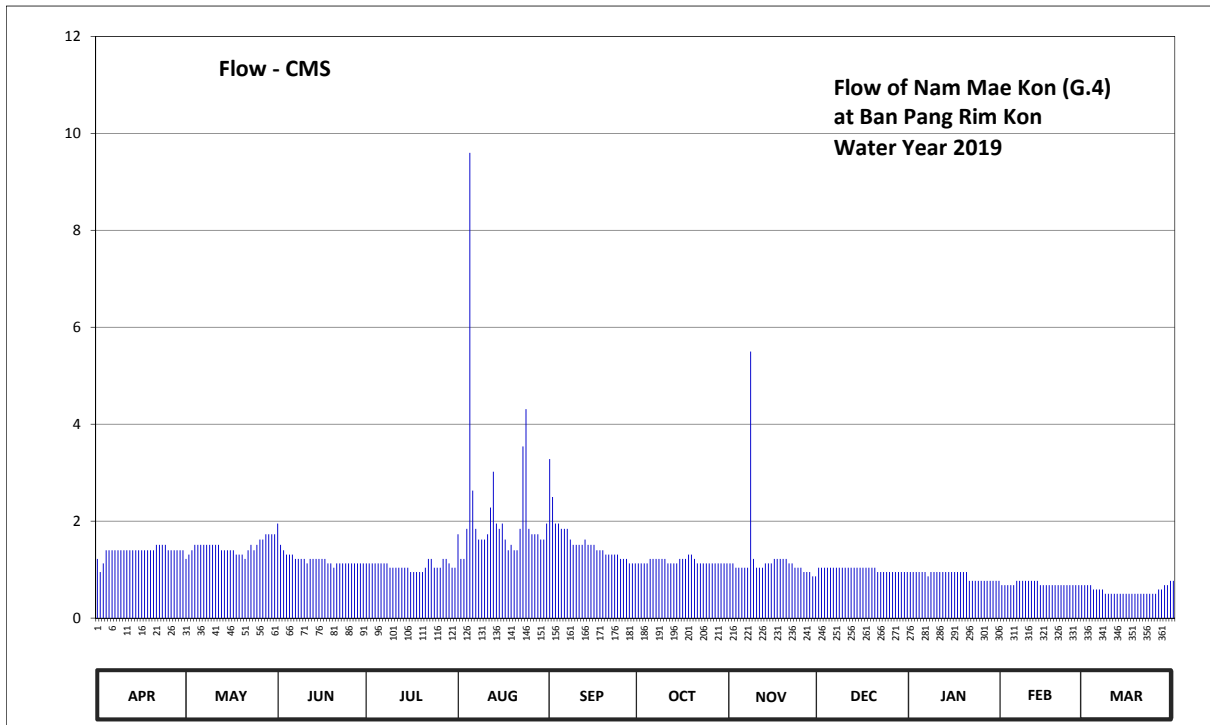
Lat 19 - 50 - 23 N Long 99 - 40 - 27 E

Location : on left bank at Ban Pang Rim Kon.

	<b>Ban</b>	<b>Pang Rim Kon</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Chiang Rai</b>
<b>Drainage Area</b>	49	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+461.700 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 66.50 meters from the top staff gage.				<b>Elevation</b>	+465.100 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2000 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2000 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.88	462.88	462.95	462.87	462.93	463.06	462.87	462.87	462.86	462.85	462.82	462.82	
2	462.85	462.89	462.91	462.87	462.88	463.00	462.87	462.87	462.86	462.85	462.82	462.82	
3	462.87	462.90	462.90	462.87	462.88	462.95	462.87	462.86	462.86	462.85	462.82	462.82	
4	462.90	462.91	462.89	462.87	462.94	462.95	462.87	462.86	462.86	462.85	462.82	462.81	
5	462.90	462.91	462.89	462.87	463.40	462.94	462.88	462.86	462.86	462.85	462.82	462.81	
6	462.90	462.91	462.89	462.87	463.01	462.94	462.88	462.86	462.86	462.85	462.83	462.81	
7	462.90	462.91	462.88	462.87	462.94	462.94	462.88	462.86	462.86	462.84	462.83	462.81	
8	462.90	462.91	462.88	462.87	462.92	462.92	462.88	463.20	462.86	462.85	462.83	462.80	
9	462.90	462.91	462.88	462.86	462.92	462.91	462.88	462.88	462.86	462.85	462.83	462.80	
10	462.90	462.91	462.88	462.86	462.92	462.91	462.88	462.86	462.86	462.85	462.83	462.80	
11	462.90	462.91	462.87	462.86	462.93	462.91	462.87	462.86	462.86	462.85	462.83	462.80	
12	462.90	462.91	462.88	462.86	462.98	462.91	462.87	462.86	462.86	462.85	462.83	462.80	
13	462.90	462.90	462.88	462.86	463.04	462.92	462.87	462.87	462.86	462.85	462.83	462.80	
14	462.90	462.90	462.88	462.86	462.95	462.91	462.87	462.87	462.86	462.85	462.82	462.80	
15	462.90	462.90	462.88	462.86	462.94	462.91	462.88	462.87	462.86	462.85	462.82	462.80	
16	462.90	462.90	462.88	462.85	462.95	462.91	462.88	462.88	462.86	462.85	462.82	462.80	
17	462.90	462.90	462.88	462.85	462.92	462.90	462.88	462.88	462.86	462.85	462.82	462.80	
18	462.90	462.89	462.87	462.85	462.90	462.90	462.89	462.88	462.86	462.85	462.82	462.80	
19	462.90	462.89	462.87	462.85	462.91	462.90	462.89	462.88	462.86	462.85	462.82	462.80	
20	462.90	462.89	462.86	462.85	462.90	462.89	462.88	462.88	462.86	462.85	462.82	462.80	
21	462.91	462.88	462.87	462.86	462.90	462.89	462.87	462.87	462.85	462.83	462.82	462.80	
22	462.91	462.90	462.87	462.88	462.94	462.89	462.87	462.87	462.85	462.83	462.82	462.80	
23	462.91	462.91	462.87	462.88	463.08	462.89	462.87	462.86	462.85	462.83	462.82	462.80	
24	462.91	462.90	462.87	462.86	463.13	462.89	462.87	462.86	462.85	462.83	462.82	462.80	
25	462.90	462.91	462.87	462.86	462.94	462.88	462.87	462.86	462.85	462.83	462.82	462.80	
26	462.90	462.92	462.87	462.86	462.93	462.88	462.87	462.85	462.85	462.83	462.82	462.81	
27	462.90	462.92	462.87	462.88	462.93	462.88	462.87	462.85	462.85	462.83	462.82	462.81	
28	462.90	462.93	462.87	462.88	462.93	462.87	462.87	462.85	462.85	462.83	462.82	462.82	
29	462.90	462.93	462.87	462.87	462.92	462.87	462.87	462.84	462.85	462.83	462.82	462.82	
30	462.90	462.93	462.87	462.86	462.92	462.87	462.87	462.84	462.85	462.83	462.82	462.83	
31		462.93		462.86	462.95		462.87		462.85	462.83		462.83	
Mean	462.90	462.91	462.88	462.86	462.96	462.91	462.87	462.88	462.86	462.84	462.82	462.81	
Max	462.91	462.93	462.95	462.88	463.40	463.06	462.89	463.20	462.86	462.85	462.83	462.83	463.40
Min	462.85	462.88	462.86	462.85	462.88	462.87	462.87	462.84	462.85	462.83	462.82	462.80	462.80
Annual Max Momentary Gage Height	463.50		m. (MSL.) ,			at 06.00 Hours ,	on Aug 5 ,	2019					
Zero Gage at Bottom Elevation	461.70		m. (MSL.) ,			River Bed	462.61	m. (MSL.)					
Left Bank Elevation		465.77		m. (MSL.) ,									
Right Bank Elevation		465.77		m. (MSL.) ,		Drainage Are	49	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	1.22	1.95	1.13	1.73	3.28	1.13	1.13	1.04	0.95	0.68	0.68	
2	0.95	1.31	1.51	1.13	1.22	2.50	1.13	1.13	1.04	0.95	0.68	0.68	
3	1.13	1.40	1.40	1.13	1.22	1.95	1.13	1.04	1.04	0.95	0.68	0.68	
4	1.40	1.51	1.31	1.13	1.84	1.95	1.13	1.04	1.04	0.95	0.68	0.59	
5	1.40	1.51	1.31	1.13	9.60	1.84	1.22	1.04	1.04	0.95	0.68	0.59	
6	1.40	1.51	1.31	1.13	2.63	1.84	1.22	1.04	1.04	0.95	0.77	0.59	
7	1.40	1.51	1.22	1.13	1.84	1.84	1.22	1.04	1.04	0.86	0.77	0.59	
8	1.40	1.51	1.22	1.13	1.62	1.62	1.22	5.50	1.04	0.95	0.77	0.50	
9	1.40	1.51	1.22	1.04	1.62	1.51	1.22	1.22	1.04	0.95	0.77	0.50	
10	1.40	1.51	1.22	1.04	1.62	1.51	1.22	1.04	1.04	0.95	0.77	0.50	
11	1.40	1.51	1.13	1.04	1.73	1.51	1.13	1.04	1.04	0.95	0.77	0.50	
12	1.40	1.51	1.22	1.04	2.28	1.51	1.13	1.04	1.04	0.95	0.77	0.50	
13	1.40	1.40	1.22	1.04	3.02	1.62	1.13	1.13	1.04	0.95	0.77	0.50	
14	1.40	1.40	1.22	1.04	1.95	1.51	1.13	1.13	1.04	0.95	0.68	0.50	
15	1.40	1.40	1.22	1.04	1.84	1.51	1.22	1.13	1.04	0.95	0.68	0.50	
16	1.40	1.40	1.22	0.95	1.95	1.51	1.22	1.22	1.04	0.95	0.68	0.50	
17	1.40	1.40	1.22	0.95	1.62	1.40	1.22	1.22	1.04	0.95	0.68	0.50	
18	1.40	1.31	1.13	0.95	1.40	1.40	1.31	1.22	1.04	0.95	0.68	0.50	
19	1.40	1.31	1.13	0.95	1.51	1.40	1.31	1.22	1.04	0.95	0.68	0.50	
20	1.40	1.31	1.04	0.95	1.40	1.31	1.22	1.22	1.04	0.95	0.68	0.50	
21	1.51	1.22	1.13	1.04	1.40	1.31	1.13	1.13	0.95	0.77	0.68	0.50	
22	1.51	1.40	1.13	1.22	1.84	1.31	1.13	1.13	0.95	0.77	0.68	0.50	
23	1.51	1.51	1.13	1.22	3.54	1.31	1.13	1.04	0.95	0.77	0.68	0.50	
24	1.51	1.40	1.13	1.04	4.31	1.31	1.13	1.04	0.95	0.77	0.68	0.50	
25	1.40	1.51	1.13	1.04	1.84	1.22	1.13	1.04	0.95	0.77	0.68	0.50	
26	1.40	1.62	1.13	1.04	1.73	1.22	1.13	0.95	0.95	0.77	0.68	0.59	
27	1.40	1.62	1.13	1.22	1.73	1.22	1.13	0.95	0.95	0.77	0.68	0.59	
28	1.40	1.73	1.13	1.22	1.73	1.13	1.13	0.95	0.95	0.77	0.68	0.68	
29	1.40	1.73	1.13	1.13	1.62	1.13	1.13	0.86	0.95	0.77	0.68	0.68	
30	1.40	1.73	1.13	1.04	1.62	1.13	1.13	0.86	0.95	0.77	0.68	0.77	
31		1.73		1.04	1.95		1.13		0.95	0.77		0.77	
Total	41.54	45.65	36.72	33.32	66.95	46.81	36.29	36.74	31.25	27.38	20.44	17.48	440.57 CMSDAY
Mean	1.38	1.47	1.22	1.07	2.16	1.56	1.17	1.22	1.01	0.88	0.70	0.56	1.20 CMS
Max	1.51	1.73	1.95	1.22	9.60	3.28	1.31	5.50	1.04	0.95	0.77	0.77	9.60 CMS
Min	0.95	1.22	1.04	0.95	1.22	1.13	1.13	0.86	0.95	0.77	0.68	0.50	0.50 CMS
Runoff	3.59	3.94	3.17	2.88	5.78	4.04	3.14	3.17	2.70	2.37	1.77	1.51	38.07 MCM
Momentary Peak	11.90	CMS. at 463.50 m. (MSL.) at 06.00 Hours , on Aug 5, 2019											
Runoff Yield	24.14	Liters/Second/Square KM. Momentary Peak Yield 238.00 Liters/Second/Square KM.											

## WATER YEAR : 2019

## NAM MAE KOK RIVER BASIN

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

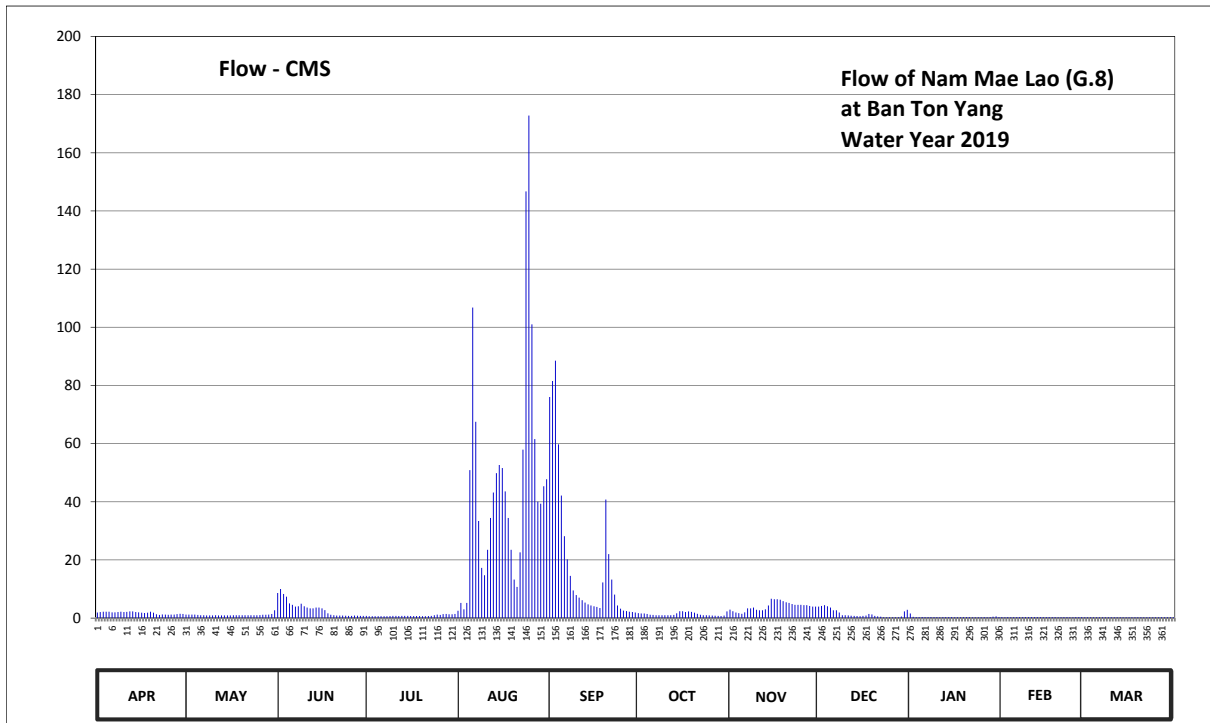
Lat 19 - 47 - 32 N Long 99 - 45 - 11 E

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

	<b>Ban Ton Yang</b>	<b>Amphoe Mae Lao</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,909 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+405.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 8 meters from the top staff gage.	<b>Elevation</b>	+410.832 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 34 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	405.06	404.94	405.58	404.83	405.14	407.48	405.03	405.19	405.28	405.01	404.68	404.67	
2	405.08	404.94	405.64	404.80	405.38	407.59	405.01	405.12	405.30	404.72	404.67	404.67	
3	405.10	404.94	405.56	404.80	405.20	407.73	405.01	405.06	405.32	404.70	404.68	404.66	
4	405.10	404.94	405.51	404.80	405.38	407.15	404.98	405.03	405.29	404.69	404.67	404.65	
5	405.10	404.92	405.37	404.80	406.94	406.69	404.93	405.00	405.25	404.71	404.68	404.66	
6	405.07	404.89	405.33	404.80	408.04	406.29	404.92	405.07	405.16	404.70	404.68	404.65	
7	405.07	404.89	405.28	404.80	407.31	406.04	404.90	405.23	405.16	404.69	404.68	404.66	
8	405.08	404.88	405.29	404.80	406.44	405.82	404.90	405.23	405.06	404.69	404.68	404.66	
9	405.10	404.88	405.36	404.81	405.93	405.62	404.90	405.25	404.90	404.68	404.70	404.66	
10	405.08	404.88	405.29	404.83	405.83	405.54	404.90	405.18	404.90	404.68	404.69	404.66	
11	405.09	404.89	405.25	404.83	406.15	405.49	404.89	405.16	404.88	404.67	404.69	404.66	
12	405.11	404.88	405.23	404.82	406.47	405.44	404.89	405.16	404.85	404.69	404.68	404.66	
13	405.11	404.88	405.23	404.83	406.72	405.39	404.92	405.20	404.84	404.69	404.68	404.67	
14	405.08	404.88	405.25	404.83	406.91	405.34	405.02	405.31	404.81	404.68	404.69	404.66	
15	405.07	404.88	405.25	404.83	406.99	405.31	405.12	405.47	404.80	404.68	404.70	404.67	
16	405.05	404.88	405.23	404.82	406.96	405.29	405.12	405.46	404.83	404.67	404.69	404.66	
17	405.04	404.89	405.17	404.82	406.73	405.27	405.08	405.46	404.86	404.67	404.68	404.67	
18	405.05	404.90	405.02	404.82	406.47	405.24	405.11	405.45	404.99	404.67	404.68	404.67	
19	405.10	404.90	404.93	404.82	406.15	405.73	405.09	405.42	404.95	404.68	404.68	404.67	
20	405.05	404.90	404.90	404.80	405.77	406.65	405.05	405.40	404.83	404.68	404.67	404.66	
21	404.96	404.90	404.87	404.80	405.67	406.10	405.00	405.38	404.78	404.68	404.67	404.66	
22	404.92	404.90	404.86	404.81	406.12	405.77	404.93	405.35	404.74	404.67	404.68	404.66	
23	404.95	404.90	404.86	404.83	407.11	405.55	404.90	405.33	404.66	404.67	404.68	404.66	
24	404.94	404.90	404.85	404.90	408.61	405.31	404.89	405.33	404.66	404.67	404.67	404.66	
25	404.93	404.90	404.83	404.94	408.96	405.22	404.88	405.33	404.66	404.67	404.67	404.65	
26	404.94	404.91	404.84	404.92	407.95	405.15	404.87	405.32	404.65	404.68	404.68	404.66	
27	404.94	404.93	404.87	404.97	407.19	405.13	404.85	405.32	404.66	404.67	404.68	404.66	
28	404.97	404.93	404.85	404.99	406.63	405.10	404.84	405.30	404.66	404.68	404.68	404.65	
29	405.00	404.94	404.83	404.96	406.61	405.08	404.82	405.28	404.77	404.74	404.67	404.66	
30	404.98	404.98	404.83	404.96	406.78	405.06	404.86	405.28	405.11	404.78	404.67	404.66	
31		405.16		404.99	406.85		405.11		405.18	404.70		404.65	
Mean	405.04	404.91	405.14	404.85	406.63	405.82	404.96	405.27	404.93	404.70	404.68	404.66	
Max	405.11	405.16	405.64	404.99	408.96	407.73	405.12	405.47	405.32	405.01	404.70	404.67	408.96
Min	404.92	404.88	404.83	404.80	405.14	405.06	404.82	405.00	404.65	404.67	404.67	404.65	404.65
Annual Max Momentary Gage Height	409.25		m. (MSL.) ,			at 07.00 Hours ,		on Aug 25 , 2019					
Zero Gage at Bottom Elevation	405.10		m. (MSL.) ,			River Bed	404.27	m. (MSL.)					
Left Bank Elevation		410.61		m. (MSL.) ,									
Right Bank Elevation		410.59		m. (MSL.) ,		Drainage Are	2,909	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.92	1.20	8.64	0.76	2.52	76.00	1.71	2.92	3.96	1.57	0.31	0.29	
2	2.06	1.20	10.00	0.65	5.20	81.50	1.57	2.36	4.20	0.41	0.29	0.29	
3	2.20	1.20	8.28	0.65	3.00	88.50	1.57	1.92	4.45	0.35	0.31	0.27	
4	2.20	1.20	7.38	0.65	5.20	59.75	1.40	1.71	4.08	0.33	0.29	0.25	
5	2.20	1.10	5.08	0.65	50.90	42.15	1.15	1.50	3.60	0.38	0.31	0.27	
6	1.99	0.97	4.58	0.65	106.80	28.15	1.10	1.99	2.68	0.35	0.31	0.25	
7	1.99	0.97	3.96	0.65	67.50	20.20	1.00	3.36	2.68	0.33	0.31	0.27	
8	2.06	0.93	4.08	0.65	33.40	14.50	1.00	3.36	1.92	0.33	0.31	0.27	
9	2.20	0.93	4.95	0.69	17.25	9.50	1.00	3.60	1.00	0.31	0.35	0.27	
10	2.06	0.93	4.08	0.76	14.75	7.92	1.00	2.84	1.00	0.31	0.33	0.27	
11	2.13	0.97	3.60	0.76	23.50	7.03	0.97	2.68	0.93	0.29	0.33	0.27	
12	2.28	0.93	3.36	0.72	34.45	6.15	0.97	2.68	0.83	0.33	0.31	0.27	
13	2.28	0.93	3.36	0.76	43.20	5.33	1.10	3.00	0.79	0.33	0.31	0.29	
14	2.06	0.93	3.60	0.76	49.85	4.70	1.64	4.33	0.69	0.31	0.33	0.27	
15	1.99	0.93	3.60	0.76	52.65	4.33	2.36	6.68	0.65	0.31	0.35	0.29	
16	1.85	0.93	3.36	0.72	51.60	4.08	2.36	6.50	0.76	0.29	0.33	0.27	
17	1.78	0.97	2.76	0.72	43.55	3.84	2.06	6.50	0.86	0.29	0.31	0.29	
18	1.85	1.00	1.64	0.72	34.45	3.48	2.28	6.33	1.45	0.29	0.31	0.29	
19	2.20	1.00	1.15	0.72	23.50	12.25	2.13	5.80	1.25	0.31	0.31	0.29	
20	1.85	1.00	1.00	0.65	13.25	40.75	1.85	5.45	0.76	0.31	0.29	0.27	
21	1.30	1.00	0.90	0.65	10.75	22.00	1.50	5.20	0.59	0.31	0.29	0.27	
22	1.10	1.00	0.86	0.69	22.60	13.25	1.15	4.83	0.47	0.29	0.31	0.27	
23	1.25	1.00	0.86	0.76	57.95	8.10	1.00	4.58	0.27	0.29	0.31	0.27	
24	1.20	1.00	0.83	1.00	146.70	4.33	0.97	4.58	0.27	0.29	0.29	0.27	
25	1.15	1.00	0.76	1.20	172.80	3.24	0.93	4.58	0.27	0.29	0.29	0.25	
26	1.20	1.05	0.79	1.10	101.00	2.60	0.90	4.45	0.25	0.31	0.31	0.27	
27	1.20	1.15	0.90	1.35	61.55	2.44	0.83	4.45	0.27	0.29	0.31	0.27	
28	1.35	1.15	0.83	1.45	40.05	2.20	0.79	4.20	0.27	0.31	0.31	0.25	
29	1.50	1.20	0.76	1.30	39.35	2.06	0.72	3.96	0.56	0.47	0.29	0.27	
30	1.40	1.40	0.76	1.30	45.30	1.92	0.86	3.96	2.28	0.59		0.27	
31		2.68		1.45	47.75		2.28		2.84	0.35		0.25	
<b>Total</b>	53.80	33.85	96.71	26.30	1422.32	582.25	42.15	120.30	46.88	11.52	9.01	8.41	2453.50 CMSDAY
<b>Mean</b>	1.79	1.09	3.22	0.85	45.88	19.41	1.36	4.01	1.51	0.37	0.31	0.27	6.70 CMS
<b>Max</b>	2.28	2.68	10.00	1.45	172.80	88.50	2.36	6.68	4.45	1.57	0.35	0.29	172.80 CMS
<b>Min</b>	1.10	0.93	0.76	0.65	2.52	1.92	0.72	1.50	0.25	0.29	0.29	0.25	0.25 CMS
<b>Runoff</b>	4.65	2.92	8.36	2.27	122.89	50.31	3.64	10.39	4.05	1.00	0.78	0.73	211.98 MCM
<b>Momentary Peak</b>	198.50 CMS. at 409.25 m. (MSL.) at 07.00 Hours , on Aug 25 , 2019												
<b>Runoff Yield</b>	2.31 Liters/Second/Square KM.			Momentary Peak Yield			68.24 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAM MAE KOK RIVER BASIN

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

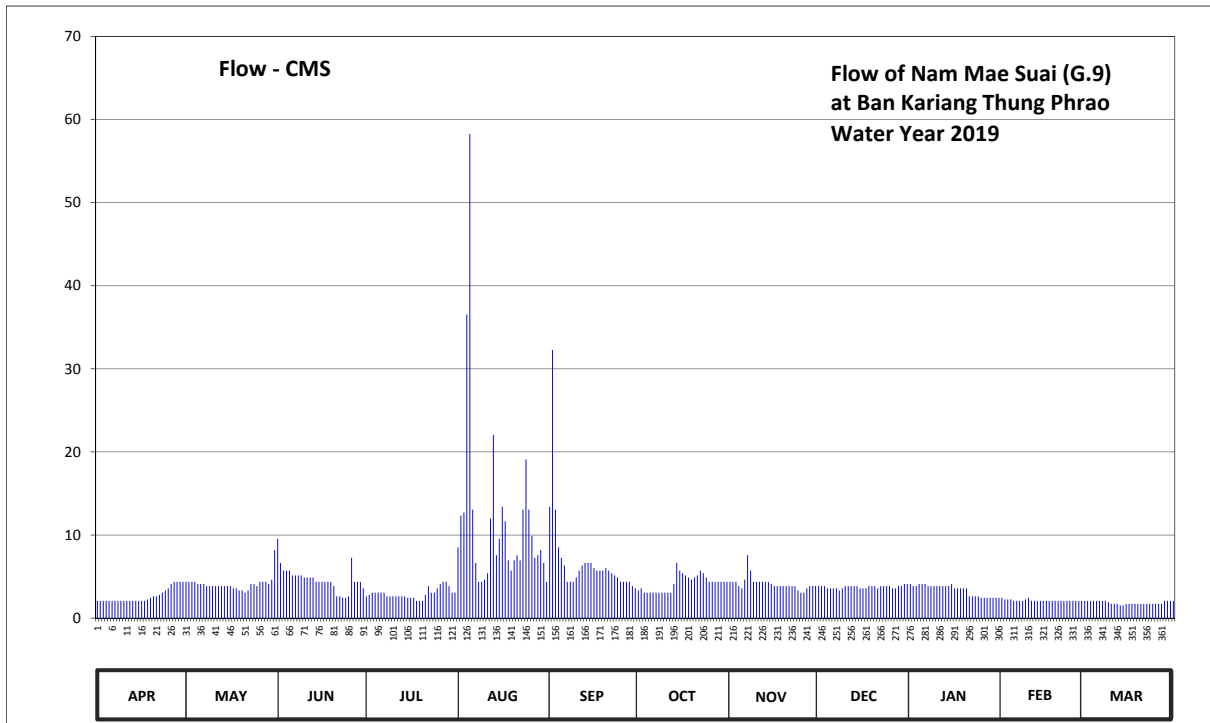
Lat 19 - 44 - 51 N Long 99 - 30 - 27 E

Location : on right bank at the bridge on road.

	<b>Ban</b>	Kariang Thung Phrao	<b>Amphoe</b>	Mae Suai	<b>Changwat</b>	Chiang Rai
<b>Drainage Area</b>	386	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+514.656 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.				<b>Elevation</b>	+522.091 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.46	515.56	515.73	515.49	515.70	515.84	515.52	515.56	515.54	515.55	515.48	515.46	
2	515.46	515.56	515.64	515.50	515.81	516.29	515.53	515.56	515.54	515.54	515.47	515.46	
3	515.46	515.56	515.61	515.51	515.82	515.83	515.51	515.56	515.54	515.54	515.47	515.46	
4	515.46	515.56	515.61	515.51	516.38	515.70	515.51	515.54	515.53	515.55	515.47	515.46	
5	515.46	515.55	515.61	515.51	516.77	515.66	515.51	515.53	515.53	515.55	515.46	515.46	
6	515.46	515.55	515.59	515.51	515.83	515.63	515.51	515.57	515.53	515.55	515.46	515.46	
7	515.46	515.55	515.59	515.51	515.64	515.56	515.51	515.67	515.53	515.54	515.46	515.46	
8	515.46	515.54	515.59	515.49	515.56	515.56	515.51	515.61	515.52	515.54	515.46	515.46	
9	515.46	515.54	515.59	515.49	515.56	515.56	515.51	515.56	515.53	515.54	515.47	515.45	
10	515.46	515.54	515.58	515.49	515.57	515.58	515.51	515.56	515.54	515.54	515.48	515.44	
11	515.46	515.54	515.58	515.49	515.60	515.61	515.51	515.56	515.54	515.54	515.46	515.44	
12	515.46	515.54	515.58	515.49	515.80	515.63	515.51	515.56	515.54	515.54	515.46	515.44	
13	515.46	515.54	515.58	515.49	516.06	515.64	515.55	515.56	515.54	515.54	515.46	515.43	
14	515.46	515.54	515.56	515.49	515.67	515.64	515.64	515.56	515.54	515.54	515.46	515.43	
15	515.46	515.54	515.56	515.48	515.73	515.64	515.61	515.55	515.53	515.55	515.46	515.44	
16	515.46	515.54	515.56	515.48	515.84	515.62	515.60	515.54	515.53	515.53	515.46	515.44	
17	515.46	515.53	515.56	515.48	515.79	515.61	515.59	515.54	515.53	515.53	515.46	515.44	
18	515.47	515.53	515.56	515.46	515.65	515.61	515.58	515.54	515.54	515.53	515.46	515.44	
19	515.48	515.52	515.56	515.46	515.61	515.61	515.57	515.54	515.54	515.53	515.46	515.44	
20	515.49	515.52	515.54	515.46	515.65	515.62	515.58	515.54	515.54	515.53	515.46	515.44	
21	515.49	515.51	515.49	515.50	515.67	515.61	515.59	515.54	515.53	515.49	515.46	515.44	
22	515.50	515.52	515.49	515.54	515.65	515.60	515.61	515.54	515.54	515.49	515.46	515.44	
23	515.51	515.55	515.48	515.51	515.83	515.59	515.60	515.54	515.54	515.49	515.46	515.44	
24	515.52	515.55	515.48	515.51	515.99	515.58	515.58	515.52	515.54	515.49	515.46	515.44	
25	515.53	515.54	515.49	515.53	515.83	515.56	515.56	515.51	515.54	515.48	515.46	515.44	
26	515.55	515.56	515.66	515.55	515.74	515.56	515.56	515.51	515.53	515.48	515.46	515.44	
27	515.56	515.56	515.56	515.56	515.66	515.56	515.56	515.53	515.53	515.48	515.46	515.44	
28	515.56	515.56	515.56	515.56	515.67	515.56	515.56	515.54	515.54	515.48	515.46	515.46	
29	515.56	515.55	515.56	515.54	515.69	515.54	515.56	515.54	515.54	515.48	515.46	515.46	
30	515.56	515.57	515.53	515.51	515.64	515.53	515.56	515.54	515.55	515.48	515.46	515.46	
31		515.69		515.51	515.56		515.56		515.55	515.48		515.46	
Mean	515.49	515.55	515.57	515.50	515.77	515.64	515.55	515.55	515.54	515.52	515.46	515.45	
Max	515.56	515.69	515.73	515.56	516.77	516.29	515.64	515.67	515.55	515.55	515.48	515.46	516.77
Min	515.46	515.51	515.48	515.46	515.56	515.53	515.51	515.51	515.52	515.48	515.46	515.43	515.43
Annual Max Momentary Gage Height	517.11		m. (MSL.) ,			at 10.00 Hours ,	on Aug 5 , 2019						
Zero Gage at Bottom Elevation	514.66		m. (MSL.) ,			River Bed	515.20	m. (MSL.)					
Left Bank Elevation		521.61		m. (MSL.) ,									
Right Bank Elevation		521.61		m. (MSL.) ,		Drainage Are	386	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.08	4.36	9.55	2.62	8.50	13.40	3.32	4.36	3.84	4.10	2.44	2.08	
2	2.08	4.36	6.64	2.80	12.35	32.27	3.58	4.36	3.84	3.84	2.26	2.08	
3	2.08	4.36	5.71	3.06	12.70	13.05	3.06	4.36	3.84	3.84	2.26	2.08	
4	2.08	4.36	5.71	3.06	36.55	8.50	3.06	3.84	3.58	4.10	2.26	2.08	
5	2.08	4.10	5.71	3.06	58.28	7.26	3.06	3.58	3.58	4.10	2.08	2.08	
6	2.08	4.10	5.14	3.06	13.05	6.33	3.06	4.62	3.58	4.10	2.08	2.08	
7	2.08	4.10	5.14	3.06	6.64	4.36	3.06	7.57	3.58	3.84	2.08	2.08	
8	2.08	3.84	5.14	2.62	4.36	4.36	3.06	5.71	3.32	3.84	2.08	2.08	
9	2.08	3.84	5.14	2.62	4.36	4.36	3.06	4.36	3.58	3.84	2.26	1.90	
10	2.08	3.84	4.88	2.62	4.62	4.88	3.06	4.36	3.84	3.84	2.44	1.72	
11	2.08	3.84	4.88	2.62	5.40	5.71	3.06	4.36	3.84	3.84	2.08	1.72	
12	2.08	3.84	4.88	2.62	12.00	6.33	3.06	4.36	3.84	3.84	2.08	1.72	
13	2.08	3.84	4.88	2.62	22.05	6.64	4.10	4.36	3.84	3.84	2.08	1.54	
14	2.08	3.84	4.36	2.62	7.57	6.64	6.64	4.36	3.84	3.84	2.08	1.54	
15	2.08	3.84	4.36	2.44	9.55	6.64	5.71	4.10	3.58	4.10	2.08	1.72	
16	2.08	3.84	4.36	2.44	13.40	6.02	5.40	3.84	3.58	3.58	2.08	1.72	
17	2.08	3.58	4.36	2.44	11.65	5.71	5.14	3.84	3.58	3.58	2.08	1.72	
18	2.26	3.58	4.36	2.08	6.95	5.71	4.88	3.84	3.84	3.58	2.08	1.72	
19	2.44	3.32	4.36	2.08	5.71	5.71	4.62	3.84	3.84	3.58	2.08	1.72	
20	2.62	3.32	3.84	2.08	6.95	6.02	4.88	3.84	3.84	3.58	2.08	1.72	
21	2.62	3.06	2.62	2.80	7.57	5.71	5.14	3.84	3.58	2.62	2.08	1.72	
22	2.80	3.32	2.62	3.84	6.95	5.40	5.71	3.84	3.84	2.62	2.08	1.72	
23	3.06	4.10	2.44	3.06	13.05	5.14	5.40	3.84	3.84	2.62	2.08	1.72	
24	3.32	4.10	2.44	3.06	19.10	4.88	4.88	3.32	3.84	2.62	2.08	1.72	
25	3.58	3.84	2.62	3.58	13.05	4.36	4.36	3.06	3.84	2.44	2.08	1.72	
26	4.10	4.36	7.26	4.10	9.90	4.36	4.36	3.06	3.58	2.44	2.08	1.72	
27	4.36	4.36	4.36	4.36	7.26	4.36	4.36	3.58	3.58	2.44	2.08	1.72	
28	4.36	4.36	4.36	4.36	7.57	4.36	4.36	3.84	3.84	2.44	2.08	2.08	
29	4.36	4.10	4.36	3.84	8.19	3.84	4.36	3.84	3.84	2.44	2.08	2.08	
30	4.36	4.62	3.58	3.06	6.64	3.58	4.36	3.84	4.10	2.44	2.08	2.08	
31		8.19		3.06	4.36		4.36		4.10	2.44	2.08	2.08	
<b>Total</b>	79.60	126.51	140.06	91.74	366.28	205.89	130.52	123.92	116.18	104.36	61.76	57.46	1604.28 CMSDAY
<b>Mean</b>	2.65	4.08	4.67	2.96	11.82	6.86	4.21	4.13	3.75	3.37	2.13	1.85	4.38 CMS
<b>Max</b>	4.36	8.19	9.55	4.36	58.28	32.27	6.64	7.57	4.10	4.10	2.44	2.08	58.28 CMS
<b>Min</b>	2.08	3.06	2.44	2.08	4.36	3.58	3.06	3.06	3.32	2.44	2.08	1.54	1.54 CMS
<b>Runoff</b>	6.88	10.93	12.10	7.93	31.65	17.79	11.28	10.71	10.04	9.02	5.34	4.96	138.61 MCM
<b>Momentary Peak</b>	80.20 CMS. at 517.11 m. (MSL.) at 10.00 Hours , on Aug 5 , 2019												
<b>Runoff Yield</b>	11.51 Liters/Second/Square KM.			Momentary Peak Yield			209.95 Liters/Second/Square KM.						



## WATER YEAR : 2019

## NAM MAE KOK RIVER BASIN

## Nam Mae Lao at Ban Pong Poo Fuang , Chiang Rai (G.10)

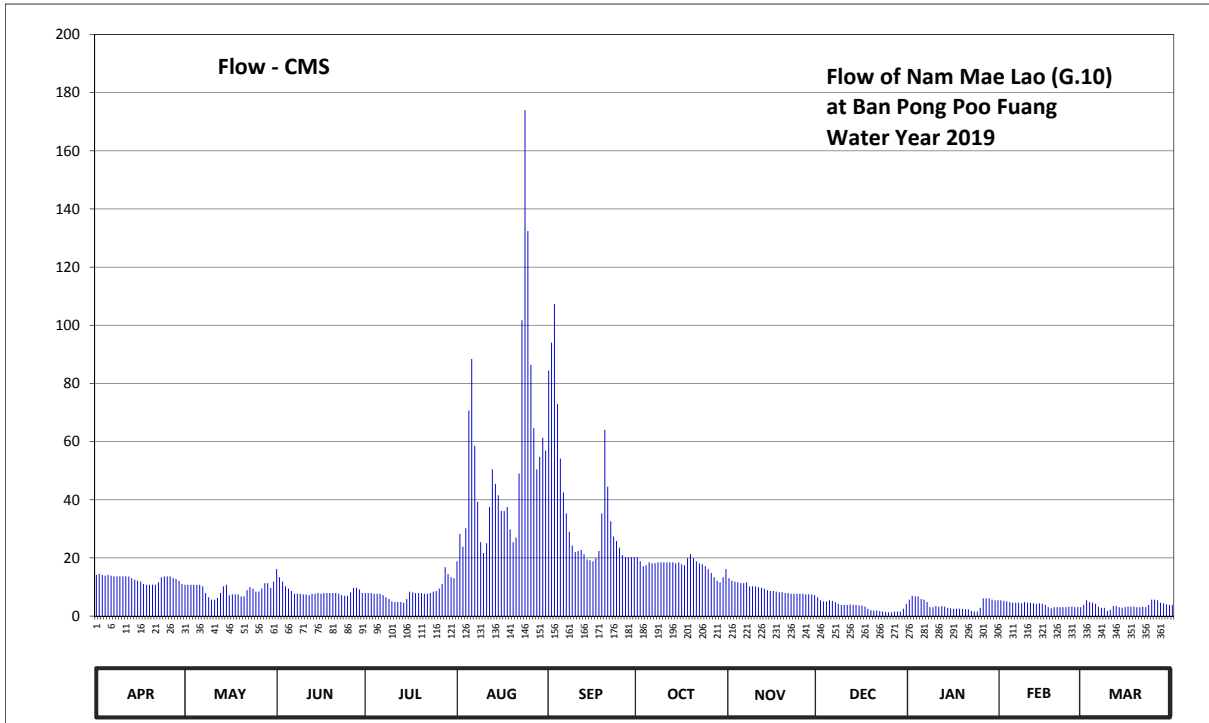
Lat 19 - 39 - 21 N Long 99 - 32 - 50 E

Location : on right bank at Ban Pong Poo Fuang.

	<b>Ban Pong Poo Fuang</b>	<b>Amphoe Mae Suai</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,614 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+433.473 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+439.133 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	433.69	433.57	433.75	433.46	433.83	435.16	433.87	433.65	433.40	433.36	433.35	433.27	
2	433.70	433.57	433.66	433.46	434.08	435.30	433.83	433.62	433.35	433.42	433.34	433.35	
3	433.69	433.57	433.61	433.46	433.97	435.49	433.78	433.61	433.33	433.41	433.33	433.32	
4	433.68	433.57	433.55	433.45	434.13	434.98	433.79	433.60	433.33	433.41	433.32	433.31	
5	433.69	433.57	433.52	433.45	434.94	434.64	433.82	433.59	433.35	433.37	433.31	433.29	
6	433.68	433.57	433.49	433.45	435.22	434.41	433.81	433.59	433.34	433.36	433.31	433.24	
7	433.67	433.55	433.45	433.43	434.72	434.25	433.81	433.60	433.32	433.32	433.31	433.22	
8	433.67	433.46	433.45	433.40	434.34	434.10	433.82	433.55	433.29	433.23	433.30	433.22	
9	433.67	433.40	433.45	433.37	434.01	433.98	433.82	433.55	433.27	433.23	433.32	433.15	
10	433.67	433.36	433.44	433.33	433.91	433.92	433.82	433.55	433.27	433.25	433.31	433.18	
11	433.67	433.36	433.44	433.32	434.00	433.93	433.82	433.54	433.27	433.24	433.31	433.25	
12	433.67	433.39	433.43	433.32	434.30	433.94	433.82	433.53	433.28	433.25	433.30	433.25	
13	433.65	433.46	433.45	433.32	434.57	433.90	433.82	433.52	433.27	433.24	433.29	433.23	
14	433.63	433.55	433.45	433.31	434.47	433.85	433.81	433.50	433.27	433.22	433.30	433.22	
15	433.62	433.57	433.46	433.37	434.39	433.84	433.82	433.49	433.26	433.21	433.29	433.23	
16	433.61	433.43	433.45	433.48	434.27	433.83	433.80	433.49	433.26	433.20	433.27	433.24	
17	433.58	433.44	433.46	433.47	434.27	433.86	433.79	433.48	433.24	433.20	433.23	433.24	
18	433.57	433.44	433.46	433.46	434.30	433.93	433.86	433.47	433.20	433.20	433.21	433.24	
19	433.57	433.44	433.46	433.46	434.12	434.25	433.90	433.47	433.17	433.20	433.23	433.23	
20	433.57	433.41	433.46	433.46	434.01	434.82	433.86	433.46	433.16	433.19	433.23	433.23	
21	433.57	433.41	433.46	433.45	434.05	434.45	433.83	433.46	433.16	433.19	433.23	433.24	
22	433.60	433.50	433.45	433.45	434.54	434.19	433.81	433.45	433.15	433.15	433.23	433.23	
23	433.66	433.54	433.43	433.46	435.41	434.06	433.80	433.45	433.14	433.14	433.23	433.27	
24	433.67	433.52	433.42	433.48	436.35	434.02	433.78	433.45	433.13	433.14	433.24	433.36	
25	433.67	433.48	433.42	433.49	435.83	433.96	433.75	433.45	433.12	433.22	433.24	433.36	
26	433.67	433.48	433.47	433.52	435.19	433.89	433.71	433.45	433.12	433.38	433.23	433.35	
27	433.65	433.52	433.53	433.58	434.83	433.87	433.66	433.44	433.14	433.38	433.23	433.31	
28	433.64	433.59	433.53	433.77	434.57	433.87	433.62	433.44	433.14	433.38	433.23	433.30	
29	433.62	433.59	433.51	433.70	434.65	433.87	433.60	433.44	433.14	433.36	433.22	433.28	
30	433.58	433.53	433.46	433.66	434.77	433.87	433.66	433.43	433.20	433.35		433.27	
31		433.61		433.65	434.69		433.75		433.29	433.35		433.27	
Mean	433.64	433.50	433.49	433.47	434.54	434.21	433.79	433.51	433.24	433.28	433.27	433.26	
Max	433.70	433.61	433.75	433.77	436.35	435.49	433.90	433.65	433.40	433.42	433.35	433.36	436.35
Min	433.57	433.36	433.42	433.31	433.83	433.83	433.60	433.43	433.12	433.14	433.21	433.15	433.12
Annual Max Momentary Gage Height	436.69		m. (MSL.) ,				at 17.00 Hours ,						on Aug 24 , 2019
Zero Gage at Bottom Elevation	433.47		m. (MSL.) ,			River Bed	432.70		m. (MSL.)				
Left Bank Elevation		438.91		m. (MSL.) ,									
Right Bank Elevation		438.92		m. (MSL.) ,		Drainage Are	2,614		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.21	10.79	16.15	7.94	18.85	84.40	20.25	13.05	6.50	5.66	5.45	3.83	
2	14.50	10.79	13.34	7.94	28.20	94.00	18.85	12.18	5.45	6.98	5.24	5.45	
3	14.21	10.79	11.89	7.94	23.89	107.30	17.14	11.89	5.03	6.74	5.03	4.82	
4	13.92	10.79	10.25	7.70	30.20	72.90	17.47	11.60	5.03	6.74	4.82	4.61	
5	14.21	10.79	9.44	7.70	70.70	54.20	18.50	11.33	5.45	5.87	4.61	4.21	
6	13.92	10.79	8.66	7.70	88.40	42.50	18.15	11.33	5.24	5.66	4.61	3.26	
7	13.63	10.25	7.70	7.22	58.60	35.25	18.15	11.60	4.82	4.82	4.61	2.88	
8	13.63	7.94	7.70	6.50	39.30	29.00	18.50	10.25	4.21	3.07	4.40	2.88	
9	13.63	6.50	7.70	5.87	25.40	24.26	18.50	10.25	3.83	3.07	4.82	1.75	
10	13.63	5.66	7.46	5.03	21.67	22.04	18.50	10.25	3.83	3.45	4.61	2.20	
11	13.63	5.66	7.46	4.82	25.00	22.41	18.50	9.98	3.83	3.26	4.61	3.45	
12	13.63	6.29	7.22	4.82	37.50	22.78	18.50	9.71	4.02	3.45	4.40	3.45	
13	13.05	7.94	7.70	4.82	50.50	21.30	18.50	9.44	3.83	3.26	4.21	3.07	
14	12.47	10.25	7.70	4.61	45.50	19.55	18.15	8.90	3.83	2.88	4.40	2.88	
15	12.18	10.79	7.94	5.87	41.55	19.20	18.50	8.66	3.64	2.69	4.21	3.07	
16	11.89	7.22	7.70	8.42	36.15	18.85	17.80	8.66	3.64	2.50	3.83	3.26	
17	11.06	7.46	7.94	8.18	36.15	19.90	17.47	8.42	3.26	2.50	3.07	3.26	
18	10.79	7.46	7.94	7.94	37.50	22.41	19.90	8.18	2.50	2.50	2.69	3.26	
19	10.79	7.46	7.94	7.94	29.80	35.25	21.30	8.18	2.05	2.50	3.07	3.07	
20	10.79	6.74	7.94	7.94	25.40	64.10	19.90	7.94	1.90	2.35	3.07	3.07	
21	10.79	6.74	7.94	7.70	27.00	44.50	18.85	7.94	1.90	2.35	3.07	3.26	
22	11.60	8.90	7.70	7.70	49.00	32.60	18.15	7.70	1.75	1.75	3.07	3.07	
23	13.34	9.98	7.22	7.94	101.70	27.40	17.80	7.70	1.60	1.60	3.07	3.83	
24	13.63	9.44	6.98	8.42	174.00	25.80	17.14	7.70	1.45	1.60	3.26	5.66	
25	13.63	8.42	6.98	8.66	132.40	23.52	16.15	7.70	1.30	2.88	3.26	5.66	
26	13.63	8.42	8.18	9.44	86.35	20.95	14.83	7.70	1.30	6.08	3.07	5.45	
27	13.05	9.44	9.71	11.06	64.65	20.25	13.34	7.46	1.60	6.08	3.07	4.61	
28	12.76	11.33	9.71	16.81	50.50	20.25	12.18	7.46	1.60	6.08	3.07	4.40	
29	12.18	11.33	9.17	14.50	54.75	20.25	11.60	7.46	1.60	5.66	2.88	4.02	
30	11.06	9.71	7.94	13.34	61.35	20.25	13.34	7.22	2.50	5.45		3.83	
31		11.89		13.05	56.95		16.15		4.21	5.45		3.83	
<b>Total</b>	385.44	277.96	259.30	255.52	1628.91	1087.37	542.06	277.84	102.70	124.93	113.58	115.35	5170.96 CMSDAY
<b>Mean</b>	12.85	8.97	8.64	8.24	52.55	36.25	17.49	9.26	3.31	4.03	3.92	3.72	14.13 CMS
<b>Max</b>	14.50	11.89	16.15	16.81	174.00	107.30	21.30	13.05	6.50	6.98	5.45	5.66	174.00 CMS
<b>Min</b>	10.79	5.66	6.98	4.61	18.85	18.85	11.60	7.22	1.30	1.60	2.69	1.75	1.30 CMS
<b>Runoff</b>	33.30	24.02	22.40	22.08	140.74	93.95	46.83	24.01	8.87	10.79	9.81	9.97	446.77 MCM
<b>Momentary Peak</b>	201.65 CMS. at 436.69 m. (MSL.) at 17.00 Hours , on Aug 24 , 2019												
<b>Runoff Yield</b>	5.42 Liters/Second/Square KM.			Momentary Peak Yield			77.14 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAM MAE KOK RIVER BASIN

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

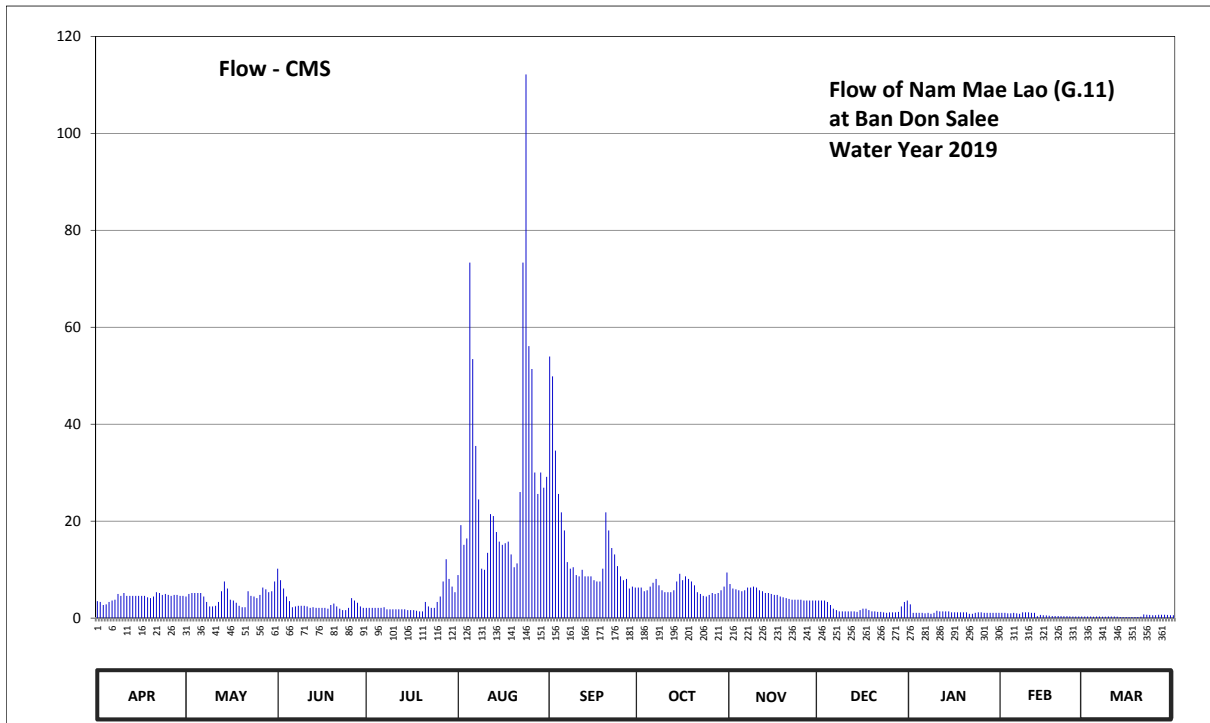
Lat 19 - 37 - 14 N Long 99 - 28 - 50 E

Location : on left bank at Ban Salee.

	<b>Ban</b>	<b>Don Salee</b>	<b>Amphoe</b>	<b>Mae Suai</b>	<b>Changwat</b>	<b>Chiang Rai</b>
<b>Drainage Area</b>	1,918	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+462.835 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+468.695 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.83	462.89	463.14	462.74	463.09	464.17	462.99	463.02	462.84	462.79	462.66	462.82	
2	462.82	462.92	463.05	462.74	463.42	464.09	462.99	462.98	462.84	462.66	462.66	462.82	
3	462.78	462.93	462.98	462.74	463.30	463.79	462.95	462.97	462.84	462.66	462.65	462.81	
4	462.79	462.93	462.89	462.74	463.34	463.59	462.96	462.96	462.82	462.66	462.65	462.80	
5	462.82	462.93	462.83	462.74	464.49	463.49	463.00	462.95	462.78	462.66	462.66	462.81	
6	462.84	462.93	462.75	462.74	464.16	463.39	463.03	462.96	462.73	462.65	462.65	462.81	
7	462.85	462.89	462.76	462.75	463.81	463.19	463.06	462.99	462.71	462.66	462.64	462.80	
8	462.92	462.82	462.77	462.72	463.56	463.14	463.01	462.99	462.69	462.64	462.67	462.80	
9	462.90	462.76	462.77	462.72	463.14	463.15	462.96	463.00	462.69	462.66	462.67	462.81	
10	462.93	462.76	462.77	462.72	463.13	463.09	462.94	462.99	462.69	462.70	462.67	462.81	
11	462.90	462.77	462.76	462.72	463.25	463.08	462.94	462.96	462.69	462.69	462.66	462.81	
12	462.90	462.82	462.74	462.72	463.48	463.13	462.94	462.95	462.69	462.69	462.66	462.78	
13	462.90	462.95	462.75	462.72	463.47	463.08	462.96	462.93	462.69	462.69	462.85	462.72	
14	462.90	463.04	462.74	462.72	463.38	463.08	463.04	462.93	462.68	462.69	462.93	462.72	
15	462.90	462.98	462.74	462.71	463.32	463.08	463.10	462.92	462.71	462.67	462.92	462.72	
16	462.90	462.85	462.74	462.71	463.30	463.05	463.05	462.91	462.73	462.67	462.91	462.71	
17	462.90	462.84	462.74	462.71	463.31	463.04	463.08	462.91	462.73	462.67	462.89	462.72	
18	462.88	462.81	462.73	462.70	463.32	463.04	463.06	462.89	462.71	462.67	462.87	462.72	
19	462.87	462.77	462.78	462.69	463.24	463.14	463.04	462.88	462.69	462.67	462.87	462.72	
20	462.89	462.75	462.80	462.69	463.15	463.49	463.01	462.87	462.69	462.67	462.86	462.80	
21	462.94	462.75	462.76	462.82	463.18	463.39	462.94	462.86	462.68	462.64	462.84	462.95	
22	462.93	462.95	462.73	462.76	463.60	463.28	462.92	462.85	462.68	462.64	462.85	462.94	
23	462.91	462.90	462.71	462.74	464.49	463.24	462.90	462.85	462.67	462.66	462.84	462.93	
24	462.92	462.89	462.71	462.74	465.02	463.16	462.89	462.85	462.66	462.67	462.83	462.92	
25	462.91	462.87	462.74	462.82	464.21	463.08	462.91	462.85	462.67	462.67	462.81	462.92	
26	462.90	462.91	462.87	462.89	464.12	463.05	462.93	462.84	462.67	462.66	462.81	462.94	
27	462.91	462.99	462.84	463.04	463.69	463.06	462.92	462.84	462.67	462.66	462.81	462.94	
28	462.91	462.97	462.81	463.21	463.59	462.98	462.93	462.84	462.68	462.66	462.81	462.94	
29	462.90	462.94	462.76	463.06	463.69	463.00	462.96	462.84	462.76	462.66	462.82	462.93	
30	462.90	462.95	462.74	463.00	463.62	462.99	463.00	462.84	462.82	462.66	462.66	462.92	
31	463.04			462.94	463.67		463.11		462.84	462.66		462.92	
Mean	462.88	462.89	462.80	462.79	463.60	463.25	462.98	462.91	462.72	462.67	462.77	462.83	
Max	462.94	463.04	463.14	463.21	465.02	464.17	463.11	463.02	462.84	462.79	462.93	462.95	465.02
Min	462.78	462.75	462.71	462.69	463.09	462.98	462.89	462.84	462.66	462.64	462.64	462.71	462.64
Annual Max Momentary Gage Height	465.16		m. (MSL.) ,				at 06.00 Hours ,		on Aug 24 , 2019				
Zero Gage at Bottom Elevation	462.84		m. (MSL.) ,			River Bed	461.78		m. (MSL.)				
Left Bank Elevation	468.84		m. (MSL.) ,										
Right Bank Elevation	468.90		m. (MSL.) ,			Drainage Are	1,918		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.48	4.44	10.21	2.10	8.89	53.96	6.31	7.03	3.64	2.85	1.10	0.34	
2	3.32	4.98	7.83	2.10	19.16	49.86	6.31	6.12	3.64	1.10	1.10	0.34	
3	2.70	5.17	6.12	2.10	15.10	34.55	5.55	5.93	3.64	1.10	1.00	0.32	
4	2.85	5.17	4.44	2.10	16.42	25.62	5.74	5.74	3.32	1.10	1.00	0.30	
5	3.32	5.17	3.48	2.10	73.35	21.82	6.50	5.55	2.70	1.10	1.10	0.32	
6	3.64	5.17	2.25	2.10	53.45	18.07	7.30	5.74	1.95	1.00	1.00	0.32	
7	3.80	4.44	2.40	2.25	35.51	11.54	8.09	6.31	1.65	1.10	0.90	0.30	
8	4.98	3.32	2.55	1.80	24.48	10.21	6.77	6.31	1.40	0.90	1.20	0.30	
9	4.60	2.40	2.55	1.80	10.21	10.48	5.74	6.50	1.40	1.10	1.20	0.32	
10	5.17	2.40	2.55	1.80	9.95	8.89	5.36	6.31	1.40	1.50	1.20	0.32	
11	4.60	2.55	2.40	1.80	13.45	8.62	5.36	5.74	1.40	1.40	1.10	0.32	
12	4.60	3.32	2.10	1.80	21.44	9.95	5.36	5.55	1.40	1.40	1.10	0.28	
13	4.60	5.55	2.25	1.80	21.06	8.62	5.74	5.17	1.40	1.40	0.40	0.22	
14	4.60	7.56	2.10	1.80	17.74	8.62	7.56	5.17	1.30	1.40	0.65	0.22	
15	4.60	6.12	2.10	1.65	15.76	8.62	9.15	4.98	1.65	1.20	0.60	0.22	
16	4.60	3.80	2.10	1.65	15.10	7.83	7.83	4.79	1.95	1.20	0.55	0.21	
17	4.60	3.64	2.10	1.65	15.43	7.56	8.62	4.79	1.95	1.20	0.48	0.22	
18	4.28	3.16	1.95	1.50	15.76	7.56	8.09	4.44	1.65	1.20	0.44	0.22	
19	4.12	2.55	2.70	1.40	13.12	10.21	7.56	4.28	1.40	1.20	0.44	0.22	
20	4.44	2.25	3.00	1.40	10.48	21.82	6.77	4.12	1.40	1.20	0.42	0.30	
21	5.36	2.25	2.40	3.32	11.27	18.07	5.36	3.96	1.30	0.90	0.38	0.75	
22	5.17	5.55	1.95	2.40	26.00	14.44	4.98	3.80	1.30	0.90	0.40	0.70	
23	4.79	4.60	1.65	2.10	73.35	13.12	4.60	3.80	1.20	1.10	0.38	0.65	
24	4.98	4.44	1.65	2.10	112.15	10.74	4.44	3.80	1.10	1.20	0.36	0.60	
25	4.79	4.12	2.10	3.32	56.10	8.62	4.79	3.80	1.20	1.20	0.32	0.60	
26	4.60	4.79	4.12	4.44	51.40	7.83	5.17	3.64	1.20	1.10	0.32	0.70	
27	4.79	6.31	3.64	7.56	30.05	8.09	4.98	3.64	1.20	1.10	0.32	0.70	
28	4.79	5.93	3.16	12.13	25.62	6.12	5.17	3.64	1.30	1.10	0.32	0.70	
29	4.60	5.36	2.40	8.09	30.05	6.50	5.74	3.64	2.40	1.10	0.34	0.65	
30	4.60	5.55	2.10	6.50	26.90	6.31	6.50	3.64	3.32	1.10		0.60	
31		7.56		5.36	29.15		9.42		3.64	1.10		0.60	
Total	131.37	139.62	92.35	94.02	897.90	444.25	196.86	147.93	59.40	37.55	20.12	12.86	2274.23 CMSDAY
Mean	4.38	4.50	3.08	3.03	28.96	14.81	6.35	4.93	1.92	1.21	0.69	0.41	6.21 CMS
Max	5.36	7.56	10.21	12.13	112.15	53.96	9.42	7.03	3.64	2.85	1.20	0.75	112.15 CMS
Min	2.70	2.25	1.65	1.40	8.89	6.12	4.44	3.64	1.10	0.90	0.32	0.21	0.21 CMS
Runoff	11.35	12.06	7.98	8.12	77.58	38.38	17.01	12.78	5.13	3.24	1.74	1.11	196.49 MCM
Momentary Peak	123.70 CMS. at 465.16 m. (MSL.) at 06.00 Hours , on Aug 24 , 2019												
Runoff Yield	3.25 Liters/Second/Square KM.			Momentary Peak Yield			64.49 Liters/Second/Square KM.						

**WATER YEAR : 2019****CHI RIVER BASIN****Chi River at Ban Non Puai , Chaiyaphum (E.5)**

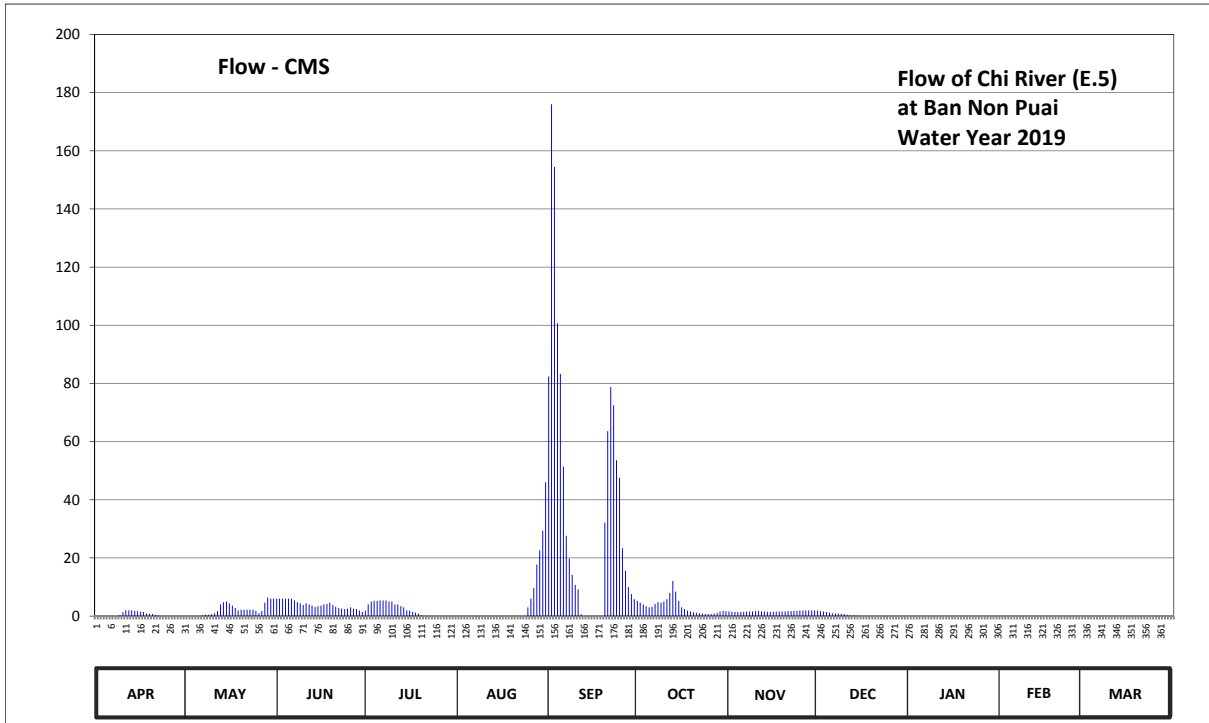
Lat 15 - 46 - 08 N Long 101 - 49 - 01 E

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

	<b>Ban Non Puai</b>	<b>Amphoe Ban Khwao</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	4,207 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+186.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office.		<b>Elevation</b> +199.956 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1958 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1971 , 1973, 1979, 1982 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 - 1971 , 1973, 1979, 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	189.90	189.76	190.50	190.29	189.34	191.92	190.46	190.26	190.29	189.67	189.13	187.10	
2	189.90	189.80	190.50	190.40	189.26	193.70	190.43	190.25	190.27	189.66	189.08	187.14	
3	189.90	189.85	190.50	190.45	189.13	193.34	190.40	190.24	190.26	189.64	189.01	187.20	
4	189.90	189.93	190.50	190.46	189.10	192.32	190.37	190.24	190.24	189.62	188.93	187.26	
5	189.90	189.94	190.50	190.46	189.07	191.94	190.35	190.24	190.22	189.60	188.83	187.30	
6	189.90	190.01	190.50	190.47	189.01	191.18	190.36	190.25	190.20	189.59	188.75	187.34	
7	189.90	190.05	190.47	190.47	188.91	190.84	190.41	190.26	190.18	189.57	188.67	187.38	
8	189.93	190.10	190.44	190.47	188.84	190.74	190.44	190.26	190.17	189.54	188.59	187.39	
9	190.06	190.10	190.42	190.45	188.71	190.66	190.43	190.26	190.16	189.52	188.52	187.41	
10	190.23	190.13	190.39	190.45	188.66	190.61	190.45	190.27	190.14	189.51	188.46	187.44	
11	190.30	190.20	190.42	190.40	188.70	190.58	190.49	190.27	190.10	189.50	188.41	187.48	
12	190.30	190.27	190.40	190.40	188.91	190.13	190.55	190.26	190.07	189.48	188.36	187.51	
13	190.30	190.40	190.38	190.37	189.10	189.78	190.63	190.26	190.05	189.46	188.32	187.54	
14	190.28	190.44	190.36	190.35	189.26	189.67	190.56	190.25	190.04	189.44	188.27	187.57	
15	190.27	190.45	190.37	190.30	189.19	189.60	190.46	190.25	190.02	189.42	188.22	187.61	
16	190.25	190.42	190.38	190.29	188.95	189.55	190.35	190.25	189.99	189.40	188.17	187.64	
17	190.24	190.38	190.40	190.25	188.49	189.50	190.32	190.26	189.97	189.38	188.11	187.68	
18	190.19	190.34	190.41	190.22	188.21	189.48	190.29	190.26	189.95	189.36	188.06	187.70	
19	190.15	190.30	190.43	190.18	188.12	189.57	190.26	190.26	189.93	189.34	188.01	187.74	
20	190.14	190.31	190.39	190.05	188.04	190.89	190.23	190.26	189.91	189.31	187.95	187.78	
21	190.09	190.31	190.36	189.97	188.00	191.49	190.22	190.27	189.88	189.29	187.88	187.81	
22	190.04	190.31	190.34	190.02	187.98	191.84	190.19	190.27	189.86	189.27	187.79	187.86	
23	189.99	190.31	190.33	189.99	188.58	191.70	190.17	190.28	189.83	189.25	187.70	187.86	
24	189.94	190.31	190.32	189.97	189.57	191.24	190.15	190.28	189.81	189.25	187.62	187.83	
25	189.89	190.28	190.33	189.96	190.35	191.05	190.14	190.29	189.79	189.24	187.53	187.79	
26	189.84	190.20	190.35	189.90	190.50	190.79	190.14	190.29	189.77	189.23	187.43	187.75	
27	189.77	190.27	190.33	189.76	190.59	190.68	190.17	190.29	189.75	189.21	187.29	187.70	
28	189.70	190.43	190.32	189.52	190.71	190.60	190.21	190.30	189.73	189.20	187.19	187.66	
29	189.62	190.51	190.29	189.40	190.78	190.54	190.26	190.30	189.72	189.19	187.12	187.64	
30	189.63	190.50	190.24	189.39	190.86	190.49	190.28	190.30	189.70	189.18	187.12	187.63	
31		190.50		189.37	191.00		190.27		189.69	189.17		187.61	
Mean	190.02	190.23	190.40	190.14	189.22	190.88	190.34	190.27	189.99	189.40	188.19	187.56	
Max	190.30	190.51	190.50	190.47	191.00	193.70	190.63	190.30	190.29	189.67	189.13	187.86	193.70
Min	189.62	189.76	190.24	189.37	187.98	189.48	190.14	190.24	189.69	189.17	187.12	187.10	187.10
Annual Max Momentary Gage Height	194.02		m. (MSL.) ,				at 18.00 Hours, on Sep 2, 2019						
Zero Gage at Bottom Elevation	186.10		m. (MSL.) ,			River Bed	185.40	m. (MSL.)					
Left Bank Elevation		197.36		m. (MSL.) ,									
Right Bank Elevation		198.11		m. (MSL.) ,		Drainage Are	4,207	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.00	1.90	0.00	82.40	5.20	1.60	1.90	0.00	0.00	0.00	
2	0.00	0.00	6.00	4.00	0.00	176.00	4.60	1.50	1.70	0.00	0.00	0.00	
3	0.00	0.00	6.00	5.00	0.00	154.40	4.00	1.40	1.60	0.00	0.00	0.00	
4	0.00	0.00	6.00	5.20	0.00	100.72	3.40	1.40	1.40	0.00	0.00	0.00	
5	0.00	0.00	6.00	5.20	0.00	83.30	3.00	1.40	1.20	0.00	0.00	0.00	
6	0.00	0.05	6.00	5.40	0.00	51.40	3.20	1.50	1.00	0.00	0.00	0.00	
7	0.00	0.25	5.40	5.40	0.00	27.60	4.20	1.60	0.90	0.00	0.00	0.00	
8	0.00	0.50	4.80	5.40	0.00	19.80	4.80	1.60	0.85	0.00	0.00	0.00	
9	0.30	0.50	4.40	5.00	0.00	14.20	4.60	1.60	0.80	0.00	0.00	0.00	
10	1.30	0.65	3.80	5.00	0.00	10.70	5.00	1.70	0.70	0.00	0.00	0.00	
11	2.00	1.00	4.40	4.00	0.00	9.20	5.80	1.70	0.50	0.00	0.00	0.00	
12	2.00	1.70	4.00	4.00	0.00	0.65	8.00	1.60	0.35	0.00	0.00	0.00	
13	2.00	4.00	3.60	3.40	0.00	0.00	12.10	1.60	0.25	0.00	0.00	0.00	
14	1.80	4.80	3.20	3.00	0.00	0.00	8.40	1.50	0.20	0.00	0.00	0.00	
15	1.70	5.00	3.40	2.00	0.00	0.00	5.20	1.50	0.10	0.00	0.00	0.00	
16	1.50	4.40	3.60	1.90	0.00	0.00	3.00	1.50	0.00	0.00	0.00	0.00	
17	1.40	3.60	4.00	1.50	0.00	0.00	2.40	1.60	0.00	0.00	0.00	0.00	
18	0.95	2.80	4.20	1.20	0.00	0.00	1.90	1.60	0.00	0.00	0.00	0.00	
19	0.75	2.00	4.60	0.90	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00	
20	0.70	2.20	3.80	0.25	0.00	32.10	1.30	1.60	0.00	0.00	0.00	0.00	
21	0.45	2.20	3.20	0.00	0.00	63.60	1.20	1.70	0.00	0.00	0.00	0.00	
22	0.20	2.20	2.80	0.10	0.00	78.80	0.95	1.70	0.00	0.00	0.00	0.00	
23	0.00	2.20	2.60	0.00	0.00	72.50	0.85	1.80	0.00	0.00	0.00	0.00	
24	0.00	2.20	2.40	0.00	0.00	53.60	0.75	1.80	0.00	0.00	0.00	0.00	
25	0.00	1.80	2.60	0.00	3.00	47.50	0.70	1.90	0.00	0.00	0.00	0.00	
26	0.00	1.00	3.00	0.00	6.00	23.30	0.70	1.90	0.00	0.00	0.00	0.00	
27	0.00	1.70	2.60	0.00	9.60	15.60	0.85	1.90	0.00	0.00	0.00	0.00	
28	0.00	4.60	2.40	0.00	17.70	10.00	1.10	2.00	0.00	0.00	0.00	0.00	
29	0.00	6.40	1.90	0.00	22.60	7.60	1.60	2.00	0.00	0.00	0.00	0.00	
30	0.00	6.00	1.40	0.00	29.40	5.80	1.80	2.00	0.00	0.00	0.00	0.00	
31		6.00		0.00	46.00		1.70		0.00	0.00		0.00	
<b>Total</b>	17.05	69.75	118.10	69.75	134.30	1140.77	103.90	49.80	13.45	0.00	0.00	0.00	1716.87 CMSDAY
<b>Mean</b>	0.57	2.25	3.94	2.25	4.33	38.03	3.35	1.66	0.43	0.00	0.00	0.00	4.69 CMS
<b>Max</b>	2.00	6.40	6.00	5.40	46.00	176.00	12.10	2.00	1.90	0.00	0.00	0.00	176.00 CMS
<b>Min</b>	0.00	0.00	1.40	0.00	0.00	0.00	0.70	1.40	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.47	6.03	10.20	6.03	11.60	98.56	8.98	4.30	1.16	0.00	0.00	0.00	148.34 MCM
<b>Momentary Peak</b>	195.28	CMS, at 194.02 m. (MSL), at 18.00 Hours, on Sep 2, 2019											
<b>Runoff Yield</b>	1.12	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		46.42	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

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

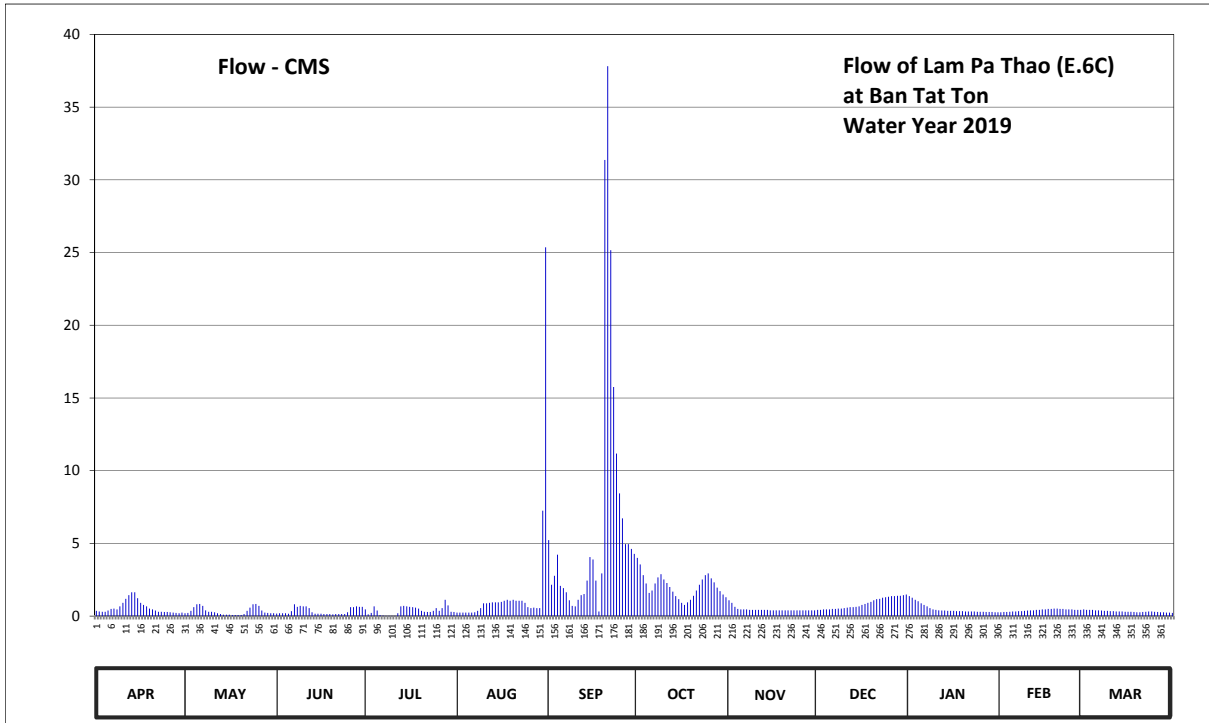
Lat 15 - 57 - 43 N Long 102 - 02 - 00 E

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

	<b>Ban</b>	<b>Tat Ton</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Chaiyaphum</b>
<b>Drainage Area</b>	378	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+192.700 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	About 2 meters from the sling pole.				<b>Elevation</b>	+197.946 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1973 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Lam Pa Thao Dam situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.88	192.80	192.79	192.92	192.82	193.97	193.75	193.11	192.91	193.19	192.83	192.92	
2	192.86	192.81	192.80	192.76	192.82	193.39	193.67	193.06	192.91	193.16	192.84	192.91	
3	192.85	192.88	192.80	192.81	192.82	193.53	193.54	192.98	192.92	193.12	192.84	192.91	
4	192.85	192.97	192.80	192.99	192.82	193.79	193.41	192.93	192.92	193.09	192.85	192.91	
5	192.89	193.03	192.78	192.89	192.82	193.37	193.25	192.92	192.92	193.05	192.86	192.90	
6	192.93	193.04	192.87	192.74	192.82	193.33	193.29	192.92	192.93	193.02	192.86	192.90	
7	192.94	193.00	193.03	192.72	192.83	193.26	193.41	192.92	192.93	192.99	192.87	192.89	
8	192.92	192.90	192.98	192.71	192.88	193.11	193.51	192.91	192.94	192.95	192.87	192.88	
9	192.99	192.85	193.00	192.71	192.95	193.00	193.55	192.91	192.94	192.92	192.88	192.88	
10	193.06	192.85	192.99	192.71	193.05	192.99	193.48	192.91	192.95	192.91	192.89	192.87	
11	193.14	192.83	192.99	192.71	193.05	193.12	193.42	192.91	192.96	192.90	192.90	192.87	
12	193.21	192.80	192.95	192.80	193.06	193.21	193.35	192.91	192.97	192.89	192.90	192.86	
13	193.26	192.77	192.83	192.99	193.07	193.23	193.27	192.91	192.97	192.89	192.91	192.86	
14	193.26	192.75	192.78	193.00	193.07	193.46	193.19	192.91	192.98	192.88	192.91	192.86	
15	193.15	192.75	192.78	192.99	193.07	193.76	193.13	192.90	192.99	192.88	192.92	192.85	
16	193.06	192.75	192.78	192.98	193.08	193.73	193.06	192.90	193.02	192.88	192.92	192.85	
17	193.02	192.74	192.77	192.97	193.10	193.46	193.02	192.90	193.04	192.87	192.93	192.85	
18	192.99	192.74	192.77	192.96	193.12	192.86	193.07	192.90	193.06	192.87	192.93	192.84	
19	192.94	192.74	192.77	192.94	193.10	193.56	193.12	192.90	193.08	192.87	192.94	192.83	
20	192.92	192.74	192.76	192.88	193.12	196.87	193.20	192.90	193.11	192.86	192.94	192.83	
21	192.89	192.77	192.77	192.85	193.10	197.41	193.29	192.90	193.13	192.86	192.93	192.84	
22	192.85	192.88	192.77	192.84	193.10	196.29	193.39	192.90	193.14	192.86	192.93	192.85	
23	192.85	192.96	192.77	192.84	193.10	195.34	193.48	192.90	193.16	192.86	192.92	192.86	
24	192.84	193.03	192.77	192.88	193.06	194.81	193.54	192.90	193.17	192.85	192.92	192.86	
25	192.84	193.04	192.83	192.95	192.97	194.46	193.56	192.90	193.18	192.85	192.92	192.85	
26	192.83	193.00	192.97	192.88	192.95	194.20	193.50	192.90	193.19	192.85	192.91	192.84	
27	192.82	192.89	192.97	192.95	192.96	193.92	193.43	192.90	193.19	192.84	192.91	192.83	
28	192.81	192.82	192.99	193.12	192.95	193.92	193.34	192.90	193.20	192.84	192.91	192.83	
29	192.80	192.81	192.98	193.01	192.95	193.86	193.28	192.90	193.20	192.84	192.92	192.82	
30	192.82	192.80	192.98	192.85	192.28	193.80	193.22	192.90	193.21	192.83	192.83	192.82	
31		192.80		192.84	196.31		193.17		193.22	192.83		192.81	
Mean	192.95	192.86	192.86	192.88	193.14	193.97	193.35	192.92	193.05	192.92	192.90	192.86	
Max	193.26	193.04	193.03	193.12	196.31	197.41	193.75	193.11	193.22	193.19	192.94	192.92	197.41
Min	192.80	192.74	192.76	192.71	192.82	192.86	193.02	192.90	192.91	192.83	192.83	192.81	192.71
Annual Max Momentary Gage Height	197.76		m. (MSL.) ,			at 05.00 Hours, on Sep 21, 2019							
Zero Gage at Bottom Elevation	192.70		m. (MSL.) ,			River Bed	192.35	m. (MSL.)					
Left Bank Elevation		198.44		m. (MSL.) ,									
Right Bank Elevation		198.95		m. (MSL.) ,		Drainage Are	378	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.20	0.18	0.46	0.24	5.23	4.00	1.09	0.43	1.37	0.26	0.46	
2	0.32	0.22	0.20	0.12	0.24	2.16	3.55	0.91	0.43	1.26	0.28	0.43	
3	0.30	0.36	0.20	0.22	0.24	2.77	2.82	0.64	0.46	1.12	0.28	0.43	
4	0.30	0.61	0.20	0.67	0.24	4.22	2.24	0.49	0.46	1.02	0.30	0.43	
5	0.38	0.81	0.16	0.38	0.24	2.08	1.60	0.46	0.46	0.88	0.32	0.40	
6	0.49	0.84	0.34	0.08	0.24	1.92	1.76	0.46	0.49	0.77	0.32	0.40	
7	0.52	0.70	0.81	0.04	0.26	1.64	2.24	0.46	0.49	0.67	0.34	0.38	
8	0.46	0.40	0.64	0.02	0.36	1.09	2.66	0.43	0.52	0.55	0.34	0.36	
9	0.67	0.30	0.70	0.02	0.55	0.70	2.88	0.43	0.52	0.46	0.36	0.36	
10	0.91	0.30	0.67	0.02	0.88	0.67	2.52	0.43	0.55	0.43	0.38	0.34	
11	1.19	0.26	0.67	0.02	0.88	1.12	2.28	0.43	0.58	0.40	0.40	0.34	
12	1.44	0.20	0.55	0.20	0.91	1.44	2.00	0.43	0.61	0.38	0.40	0.32	
13	1.64	0.14	0.26	0.67	0.95	1.52	1.68	0.43	0.61	0.38	0.43	0.32	
14	1.64	0.10	0.16	0.70	0.95	2.44	1.37	0.43	0.64	0.36	0.43	0.32	
15	1.23	0.10	0.16	0.67	0.95	4.06	1.16	0.40	0.67	0.36	0.46	0.30	
16	0.91	0.10	0.16	0.64	0.98	3.89	0.91	0.40	0.77	0.36	0.46	0.30	
17	0.77	0.08	0.14	0.61	1.05	2.44	0.77	0.40	0.84	0.34	0.49	0.30	
18	0.67	0.08	0.14	0.58	1.12	0.32	0.95	0.40	0.91	0.34	0.49	0.28	
19	0.52	0.08	0.14	0.52	1.05	2.94	1.12	0.40	0.98	0.34	0.52	0.26	
20	0.46	0.08	0.12	0.36	1.12	31.37	1.40	0.40	1.09	0.32	0.52	0.26	
21	0.38	0.14	0.14	0.30	1.05	37.82	1.76	0.40	1.16	0.32	0.49	0.28	
22	0.30	0.36	0.14	0.28	1.05	25.16	2.16	0.40	1.19	0.32	0.49	0.30	
23	0.30	0.58	0.14	0.28	1.05	15.76	2.52	0.40	1.26	0.32	0.46	0.32	
24	0.28	0.81	0.14	0.36	0.91	11.18	2.82	0.40	1.30	0.30	0.46	0.32	
25	0.28	0.84	0.26	0.55	0.61	8.44	2.94	0.40	1.33	0.30	0.46	0.30	
26	0.26	0.70	0.61	0.36	0.55	6.72	2.60	0.40	1.37	0.30	0.43	0.28	
27	0.24	0.38	0.61	0.55	0.58	4.95	2.32	0.40	1.37	0.28	0.43	0.26	
28	0.22	0.24	0.67	1.12	0.55	4.95	1.96	0.40	1.40	0.28	0.43	0.26	
29	0.20	0.22	0.64	0.74	0.55	4.62	1.72	0.40	1.40	0.28	0.46	0.24	
30	0.24	0.20	0.64	0.30	7.25	4.28	1.48	0.40	1.44	0.26		0.24	
31		0.20		0.28	25.36		1.30		1.48	0.26		0.22	
<b>Total</b>	17.88	10.63	10.59	12.12	52.96	197.90	63.49	13.92	27.21	15.33	11.89	10.01	443.93 CMSDAY
<b>Mean</b>	0.60	0.34	0.35	0.39	1.71	6.60	2.05	0.46	0.88	0.49	0.41	0.32	1.21 CMS
<b>Max</b>	1.64	0.84	0.81	1.12	25.36	37.82	4.00	1.09	1.48	1.37	0.52	0.46	37.82 CMS
<b>Min</b>	0.20	0.08	0.12	0.02	0.24	0.32	0.77	0.40	0.43	0.26	0.26	0.22	0.02 CMS
<b>Runoff</b>	1.54	0.92	0.91	1.05	4.58	17.10	5.49	1.20	2.35	1.32	1.03	0.86	38.36 MCM
<b>Momentary Peak</b>	42.02	CMS, at 197.76 m. (MSL.), at 05.00 Hours, on Sep 21, 2019											
<b>Runoff Yield</b>	3.22	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		111.16	Liters/Second/Square KM.						



## WATER YEAR : 2019

## CHI RIVER BASIN

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

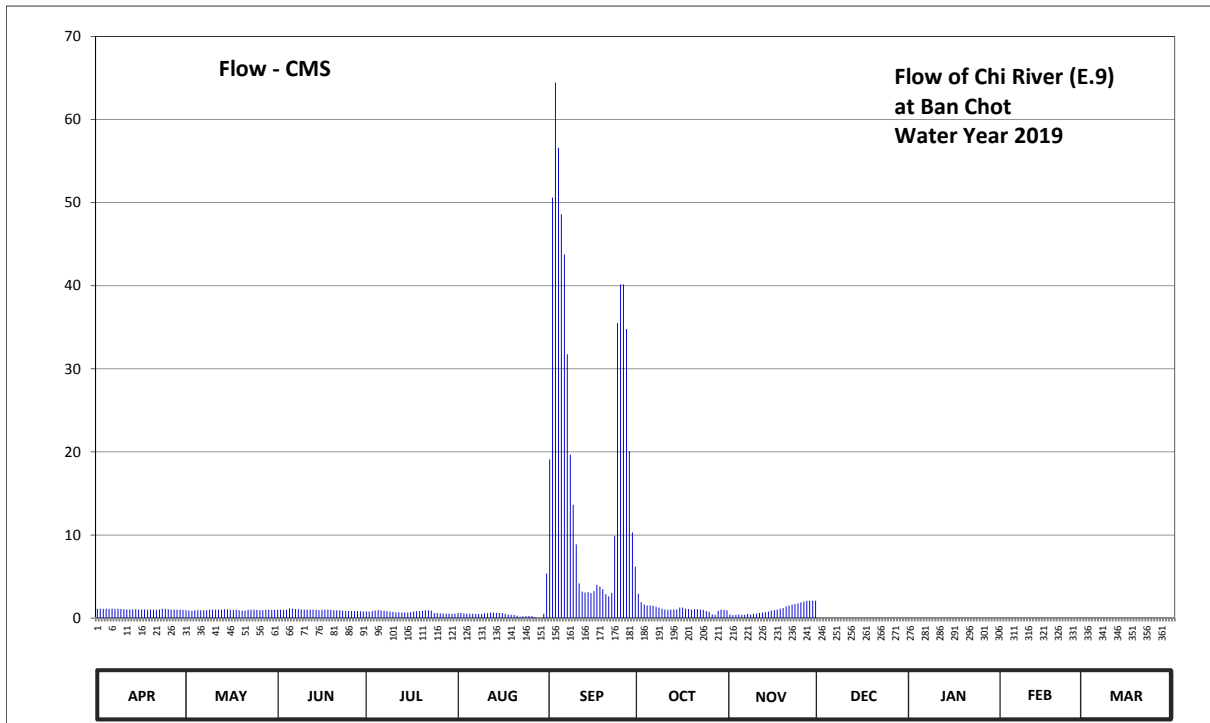
Lat 16 - 05 - 44 N Long 102 - 34 - 25 E

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

	<b>Ban Chot</b>	<b>Amphoe</b> Manchakhiri	<b>Changwat</b> Khon Kaen
<b>Drainage Area</b>	10,878 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+151.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank about 25 meters from the top staff gage.	<b>Elevation</b>	+167.014 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1958 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1973, 1986 - 1987, 1992 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 - 1980, 1983 - 1987, 1992 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.09	152.03	152.04	151.95	151.84	154.40	152.68	151.75	152.53	152.56	151.91	152.01	
2	152.10	152.01	152.05	151.94	151.84	156.18	152.42	151.70	152.55	152.53	151.89	151.96	
3	152.09	151.99	152.04	151.97	151.82	156.81	152.31	151.73	152.57	152.50	151.88	151.94	
4	152.10	152.02	152.05	152.01	151.80	156.48	152.26	151.74	152.59	152.48	151.92	151.95	
5	152.09	152.03	152.11	152.03	151.79	156.08	152.26	151.73	152.59	152.48	151.98	151.93	
6	152.10	152.02	152.10	152.01	151.80	155.83	152.24	151.72	152.57	152.49	152.00	151.90	
7	152.09	152.02	152.08	151.99	151.78	155.18	152.19	151.78	152.58	152.50	151.99	151.88	
8	152.09	152.03	152.07	151.96	151.77	154.44	152.15	151.75	152.62	152.48	151.96	151.86	
9	152.08	152.05	152.06	151.94	151.78	154.01	152.10	151.77	152.65	152.45	151.93	151.83	
10	152.07	152.05	152.05	151.91	151.82	153.52	152.06	151.80	152.72	152.43	151.89	151.80	
11	152.06	152.05	152.05	151.89	151.83	152.95	152.04	151.84	152.76	152.40	151.86	151.78	
12	152.06	152.05	152.05	151.89	151.86	152.74	152.05	151.88	152.77	152.37	151.81	151.74	
13	152.06	152.05	152.05	151.88	151.87	152.71	152.06	151.90	152.77	152.35	151.79	151.71	
14	152.07	152.07	152.04	151.87	151.85	152.72	152.06	151.94	152.74	152.33	151.77	151.69	
15	152.05	152.06	152.03	151.87	151.84	152.70	152.15	152.01	152.71	152.30	151.75	151.72	
16	152.06	152.04	152.04	151.90	151.84	152.75	152.15	152.03	152.72	152.27	151.71	151.86	
17	152.06	152.04	152.05	151.95	151.79	152.91	152.10	152.05	152.72	152.23	151.69	151.93	
18	152.05	152.05	152.05	151.96	151.74	152.87	152.08	152.10	152.69	152.20	151.70	151.91	
19	152.06	152.02	152.04	151.97	151.72	152.80	152.05	152.13	152.69	152.16	151.70	151.86	
20	152.05	152.00	152.03	151.98	151.71	152.67	152.07	152.21	152.66	152.13	151.76	151.83	
21	152.04	152.00	152.02	152.02	151.66	152.61	152.07	152.26	152.64	152.10	151.85	151.80	
22	152.06	152.04	152.02	152.02	151.60	152.70	152.05	152.30	152.62	152.06	151.91	151.75	
23	152.09	152.05	152.00	152.00	151.62	153.63	152.04	152.33	152.61	152.02	151.95	151.72	
24	152.09	152.05	151.98	151.83	151.64	155.39	151.97	152.37	152.61	151.99	151.97	151.70	
25	152.07	152.04	151.97	151.84	151.64	155.64	151.91	152.41	152.60	151.97	152.00	151.70	
26	152.05	152.03	151.97	151.82	151.65	155.64	151.76	152.46	152.60	151.96	152.02	151.69	
27	152.05	152.03	151.97	151.81	151.56	155.35	151.73	152.49	152.58	151.98	152.05	151.65	
28	152.05	152.04	151.97	151.80	151.47	154.47	151.98	152.50	152.57	152.01	152.06	151.64	
29	152.05	152.05	151.96	151.80	151.48	153.68	152.05	152.50	152.60	151.99	152.05	151.65	
30	152.04	152.04	151.95	151.78	151.79	153.22	152.04	152.50	152.60	151.96	152.01	151.68	
31		152.04		151.79	153.13		152.02		152.59	151.93		151.76	
Mean	152.07	152.04	152.03	151.92	151.78	154.10	152.10	152.06	152.64	152.25	151.89	151.80	
Max	152.10	152.07	152.11	152.03	153.13	156.81	152.68	152.50	152.77	152.56	152.06	152.01	156.81
Min	152.04	151.99	151.95	151.78	151.47	152.61	151.73	151.70	152.53	151.93	151.69	151.64	151.47
Annual Max Momentary Gage Height	157.00		m. (MSL.) ,				at 18.00 Hours, on Sep 3, 2019						
Zero Gage at Bottom Elevation	151.10		m. (MSL.) ,			River Bed	149.62	m. (MSL.)					
Left Bank Elevation		164.12		m. (MSL.) ,									
Right Bank Elevation		161.98		m. (MSL.) ,		Drainage Are	10,878	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.12	0.97	1.00	0.81	0.61	19.10	2.93	0.45	0.00	0.00	0.00	0.00	
2	1.14	0.92	1.02	0.79	0.61	50.60	1.91	0.36	0.00	0.00	0.00	0.00	
3	1.12	0.88	1.00	0.85	0.58	64.44	1.64	0.41	0.00	0.00	0.00	0.00	
4	1.14	0.95	1.02	0.92	0.54	56.60	1.52	0.43	0.00	0.00	0.00	0.00	
5	1.12	0.97	1.16	0.97	0.52	48.60	1.52	0.41	0.00	0.00	0.00	0.00	
6	1.14	0.95	1.14	0.92	0.54	43.77	1.48	0.40	0.00	0.00	0.00	0.00	
7	1.12	0.95	1.09	0.88	0.50	31.74	1.36	0.50	0.00	0.00	0.00	0.00	
8	1.12	0.97	1.07	0.83	0.49	19.66	1.26	0.45	0.00	0.00	0.00	0.00	
9	1.09	1.02	1.04	0.79	0.50	13.64	1.14	0.49	0.00	0.00	0.00	0.00	
10	1.07	1.02	1.02	0.74	0.58	8.88	1.04	0.54	0.00	0.00	0.00	0.00	
11	1.04	1.02	1.02	0.70	0.59	4.17	1.00	0.61	0.00	0.00	0.00	0.00	
12	1.04	1.02	1.02	0.70	0.65	3.20	1.02	0.68	0.00	0.00	0.00	0.00	
13	1.04	1.02	1.02	0.68	0.67	3.07	1.04	0.72	0.00	0.00	0.00	0.00	
14	1.07	1.07	1.00	0.67	0.63	3.11	1.04	0.79	0.00	0.00	0.00	0.00	
15	1.02	1.04	0.97	0.67	0.61	3.02	1.26	0.92	0.00	0.00	0.00	0.00	
16	1.04	1.00	1.00	0.72	0.61	3.25	1.26	0.97	0.00	0.00	0.00	0.00	
17	1.04	1.00	1.02	0.81	0.52	3.99	1.14	1.02	0.00	0.00	0.00	0.00	
18	1.02	1.02	1.02	0.83	0.43	3.80	1.09	1.14	0.00	0.00	0.00	0.00	
19	1.04	0.95	1.00	0.85	0.40	3.48	1.02	1.21	0.00	0.00	0.00	0.00	
20	1.02	0.90	0.97	0.86	0.38	2.88	1.07	1.40	0.00	0.00	0.00	0.00	
21	1.00	0.90	0.95	0.95	0.29	2.61	1.07	1.52	0.00	0.00	0.00	0.00	
22	1.04	1.00	0.95	0.95	0.18	3.02	1.02	1.62	0.00	0.00	0.00	0.00	
23	1.12	1.02	0.90	0.90	0.22	9.87	1.00	1.69	0.00	0.00	0.00	0.00	
24	1.12	1.02	0.86	0.59	0.25	35.52	0.85	1.79	0.00	0.00	0.00	0.00	
25	1.07	1.00	0.85	0.61	0.25	40.16	0.74	1.88	0.00	0.00	0.00	0.00	
26	1.02	0.97	0.85	0.58	0.27	40.16	0.47	2.00	0.00	0.00	0.00	0.00	
27	1.02	0.97	0.85	0.56	0.11	34.80	0.41	2.08	0.00	0.00	0.00	0.00	
28	1.02	1.00	0.85	0.54	0.00	20.08	0.86	2.10	0.00	0.00	0.00	0.00	
29	1.02	1.02	0.83	0.54	0.00	10.32	1.02	2.10	0.00	0.00	0.00	0.00	
30	1.00	1.00	0.81	0.50	0.52	6.18	1.00	2.10	0.00	0.00	0.00	0.00	
31		1.00		0.52	5.37		0.95		0.00	0.00		0.00	
Total	31.98	30.54	29.30	23.23	18.42	593.72	36.13	32.78	0.00	0.00	0.00	0.00	796.10 CMSDAY
Mean	1.07	0.99	0.98	0.75	0.59	19.79	1.17	1.09	0.00	0.00	0.00	0.00	2.18 CMS
Max	1.14	1.07	1.16	0.97	5.37	64.44	2.93	2.10	0.00	0.00	0.00	0.00	64.44 CMS
Min	1.00	0.88	0.81	0.50	0.00	2.61	0.41	0.36	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.76	2.64	2.53	2.01	1.59	51.30	3.12	2.83	0.00	0.00	0.00	0.00	68.78 MCM
Momentary Peak		69.00		CMS, at 157.00 m. (MSL), at 18.00 Hours, on Sep 3, 2019									
Runoff Yield		0.20		Liters/Second/Square KM.		Momentary Peak Yield	6.34		Liters/Second/Square KM.				

**WATER YEAR : 2019****CHI RIVER BASIN**

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

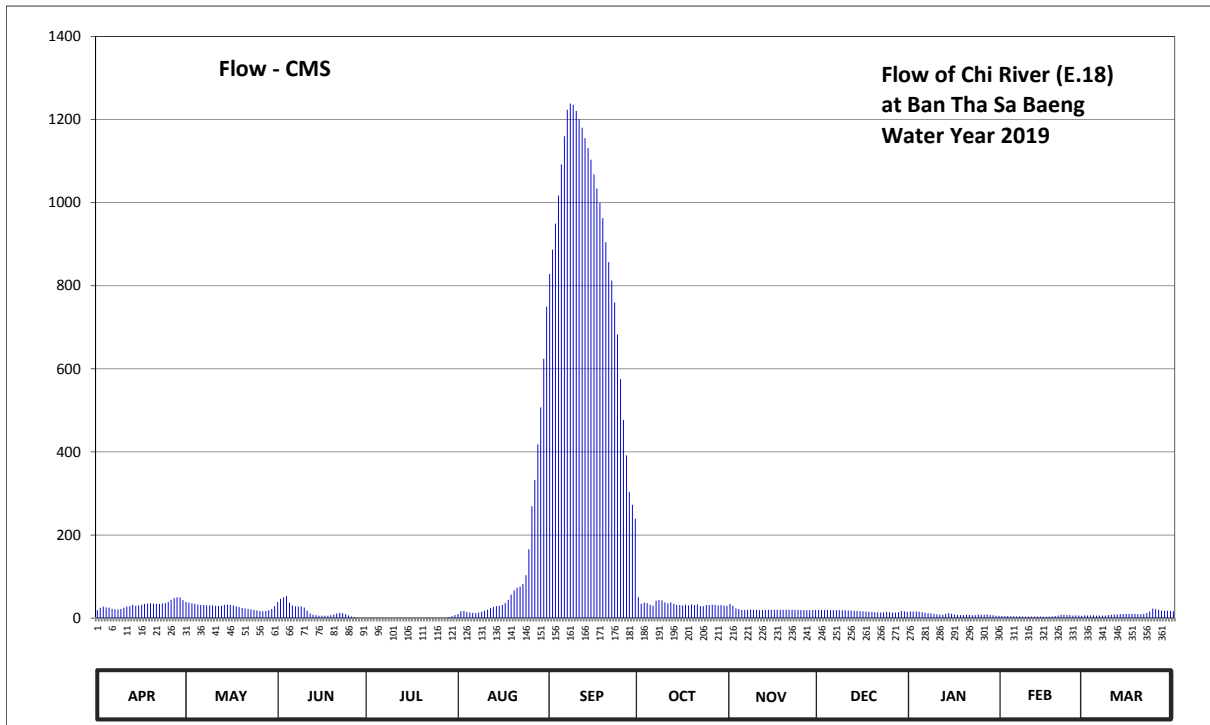
Lat 16 - 01 - 59 N Long 103 - 54 - 41 E

Location : on right bank at Ban Tha Sa Bang.

	<b>Ban</b>	<b>Tha Sa Baeng</b>	<b>Amphoe</b>	<b>Thung Khao Luang</b>	<b>Changwat</b>	<b>Roi Et</b>
<b>Drainage Area</b>	41,187 sq.km.					
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+122.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+132.496 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1974 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1974 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +131.770 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 51 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.41	124.19	124.18	121.53	122.97	130.73	125.89	125.62	124.94	124.45	123.13	123.33	
2	123.65	124.13	124.30	121.95	123.29	131.12	125.63	125.53	124.95	124.45	123.10	123.30	
3	123.77	124.08	124.36	121.95	123.33	131.50	125.67	125.34	124.96	124.45	123.10	123.32	
4	123.69	124.03	124.40	121.89	123.21	131.91	125.65	125.20	124.95	124.41	123.08	123.34	
5	123.67	123.97	124.13	121.87	123.15	132.31	125.58	124.95	124.91	124.26	123.07	123.29	
6	123.53	123.92	123.88	121.81	123.11	132.60	125.54	124.94	124.89	124.12	123.03	123.28	
7	123.49	123.92	123.80	121.71	123.10	132.82	125.74	125.01	124.88	124.01	123.02	123.28	
8	123.48	123.88	123.78	121.67	123.15	132.87	125.77	125.03	124.86	123.88	122.98	123.29	
9	123.52	123.89	123.78	121.65	123.24	132.86	125.76	124.99	124.84	123.77	122.96	123.43	
10	123.65	123.87	123.67	121.63	123.34	132.81	125.68	124.95	124.84	123.67	122.98	123.51	
11	123.76	123.85	123.35	121.63	123.46	132.74	125.64	124.92	124.79	123.57	122.96	123.56	
12	123.81	123.83	123.03	121.76	123.60	132.67	125.68	124.91	124.74	123.53	122.97	123.62	
13	123.94	123.86	122.89	122.02	123.73	132.58	125.62	124.94	124.69	123.76	122.96	123.69	
14	123.84	123.94	122.83	121.98	123.81	132.48	125.58	124.98	124.64	124.01	122.98	123.75	
15	123.87	123.96	122.77	122.09	123.84	132.36	125.57	124.99	124.59	123.79	122.95	123.79	
16	123.96	123.94	122.78	122.13	123.93	132.20	125.55	125.00	124.54	123.60	122.95	123.76	
17	124.03	123.87	122.77	122.06	124.12	132.01	125.59	124.99	124.49	123.47	122.96	123.76	
18	124.07	123.79	122.78	122.09	124.27	131.80	125.55	125.00	124.44	123.40	123.03	123.73	
19	124.10	123.71	122.83	122.10	124.44	131.58	125.60	125.01	124.38	123.42	123.10	123.68	
20	124.07	123.64	122.92	122.11	124.55	131.23	125.57	124.99	124.30	123.49	123.29	123.67	
21	124.05	123.57	123.04	122.11	124.62	130.93	125.60	125.00	124.24	123.46	123.48	123.80	
22	124.04	123.51	123.11	122.14	124.65	130.62	125.52	125.00	124.20	123.35	123.44	124.03	
23	124.07	123.47	123.07	122.18	124.71	130.25	125.52	124.99	124.23	123.40	123.40	124.51	
24	124.11	123.42	122.96	122.25	124.92	129.69	125.57	124.97	124.38	123.54	123.39	125.26	
25	124.19	123.37	122.82	122.34	125.47	128.87	125.56	124.95	124.27	123.50	123.27	125.15	
26	124.27	123.31	122.69	122.43	126.36	128.09	125.58	124.94	124.18	123.50	123.32	125.01	
27	124.33	123.29	122.59	122.45	126.89	127.38	125.58	124.90	124.16	123.59	123.33	124.74	
28	124.36	123.33	122.47	122.50	127.60	126.65	125.55	124.84	124.27	123.40	123.22	124.73	
29	124.35	123.40	122.36	122.61	128.33	126.39	125.56	124.91	124.68	123.34	123.30	124.72	
30	124.26	123.52	122.23	122.72	129.25	126.11	125.54	124.94	124.50	123.23	123.23	124.65	
31		123.81		122.85	130.18		125.53		124.38	123.16		124.59	
Mean	123.91	123.75	123.22	122.07	124.67	130.94	125.61	125.02	124.58	123.71	123.13	123.92	
Max	124.36	124.19	124.40	122.85	130.18	132.87	125.89	125.62	124.96	124.45	123.48	125.26	132.87
Min	123.41	123.29	122.23	121.53	122.97	126.11	125.52	124.84	124.16	123.16	122.95	123.28	121.53
Annual Max Momentary Gage Height	132.87	m. (MSL.) ,		at 04.00 Hours, on Sep 8, 2019									
Zero Gage at Bottom Elevation	122.20	m. (MSL.) ,		River Bed 121.84 m. (MSL.)									
Left Bank Elevation		132.60	m. (MSL.) ,										
Right Bank Elevation		131.76	m. (MSL.) ,		Drainage Are		41,187	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	19.24	38.68	38.36	0.00	9.75	828.39	50.40	34.20	19.52	15.60	5.04	6.64				
2	25.00	36.76	46.00	0.00	16.39	886.80	34.80	29.50	19.60	15.60	4.80	6.40				
3	27.88	35.32	50.20	0.00	17.32	949.50	37.20	23.40	19.68	15.60	4.80	6.56				
4	25.96	34.12	53.00	0.00	14.73	1017.15	36.00	22.00	19.60	15.28	4.64	6.72				
5	25.48	32.68	36.76	0.00	13.49	1092.20	32.00	19.60	19.28	14.08	4.56	6.32				
6	22.12	31.48	30.52	0.00	12.66	1160.00	30.00	19.52	19.12	12.96	4.24	6.24				
7	21.16	31.48	28.60	0.00	12.45	1223.80	41.40	20.10	19.04	12.08	4.16	6.24				
8	20.92	30.52	28.12	0.00	13.49	1238.30	43.20	20.30	18.88	11.04	3.84	6.32				
9	21.88	30.76	28.12	0.00	15.36	1235.40	42.60	19.92	18.72	10.16	3.68	7.44				
10	25.00	30.28	25.48	0.00	17.56	1220.90	37.80	19.60	18.72	9.36	3.84	8.08				
11	27.64	29.80	17.80	0.00	20.44	1200.60	35.40	19.36	18.32	8.56	3.68	8.48				
12	28.84	29.32	11.00	0.00	23.80	1180.30	37.80	19.28	17.92	8.24	3.76	8.96				
13	31.96	30.04	8.09	0.00	26.92	1155.20	34.20	19.52	17.52	10.08	3.68	9.52				
14	29.56	31.96	6.85	0.00	28.84	1131.20	32.00	19.84	17.12	12.08	3.84	10.00				
15	30.28	32.44	5.60	0.00	29.56	1103.20	31.50	19.92	16.72	10.32	3.60	10.32				
16	32.44	31.96	5.81	0.00	31.72	1068.00	30.50	20.00	16.32	8.80	3.60	10.08				
17	34.12	30.28	5.60	0.00	36.44	1033.80	32.50	19.92	15.92	7.76	3.68	10.08				
18	35.08	28.36	5.81	0.00	43.90	999.00	30.50	20.00	15.52	7.20	4.24	9.84				
19	35.80	26.44	6.85	0.00	56.60	962.70	33.00	20.10	15.04	7.36	4.80	9.44				
20	35.08	24.76	8.72	0.00	66.50	904.95	31.50	19.92	14.40	7.92	6.32	9.36				
21	34.60	23.08	11.21	0.00	73.00	856.99	33.00	20.00	13.92	7.68	7.84	10.40				
22	34.36	21.64	12.66	0.00	76.00	812.66	29.00	20.00	13.60	6.80	7.52	12.24				
23	35.08	20.68	11.83	0.00	82.00	759.75	29.00	19.92	13.84	7.20	7.20	16.08				
24	36.12	19.48	9.55	0.00	103.20	682.77	31.50	19.76	15.04	8.32	7.12	22.60				
25	38.68	18.28	6.64	0.00	165.58	574.75	31.00	19.60	14.16	8.00	6.16	21.50				
26	43.90	16.84	3.94	0.00	269.20	477.25	32.00	19.52	13.44	8.00	6.56	20.10				
27	48.10	16.39	1.87	0.00	332.80	391.60	32.00	19.20	13.28	8.72	6.64	17.92				
28	50.20	17.32	0.00	0.00	418.00	304.00	30.50	18.72	14.16	7.20	5.76	17.84				
29	49.50	19.00	0.00	2.28	507.25	272.80	31.00	19.28	17.44	6.72	6.40	17.76				
30	43.20	21.88	0.00	4.57	624.25	239.20	30.00	19.52	16.00	5.84		17.20				
31		28.84		7.26	749.74		29.50		15.04	5.28		16.72				
<b>Total</b>	<b>969.18</b>	<b>850.87</b>	<b>504.99</b>	<b>14.11</b>	<b>3908.94</b>	<b>26963.16</b>	<b>1052.80</b>	<b>621.52</b>	<b>516.88</b>	<b>299.84</b>	<b>146.00</b>	<b>353.40</b>	<b>36201.69</b>	<b>CMSDAY</b>		
<b>Mean</b>	<b>32.31</b>	<b>27.45</b>	<b>16.83</b>	<b>0.46</b>	<b>126.09</b>	<b>898.77</b>	<b>33.96</b>	<b>20.72</b>	<b>16.67</b>	<b>9.67</b>	<b>5.03</b>	<b>11.40</b>	<b>98.91</b>	<b>CMS</b>		
<b>Max</b>	<b>50.20</b>	<b>38.68</b>	<b>53.00</b>	<b>7.26</b>	<b>749.74</b>	<b>1238.30</b>	<b>50.40</b>	<b>34.20</b>	<b>19.68</b>	<b>15.60</b>	<b>7.84</b>	<b>22.60</b>	<b>1238.30</b>	<b>CMS</b>		
<b>Min</b>	<b>19.24</b>	<b>16.39</b>	<b>0.00</b>	<b>0.00</b>	<b>9.75</b>	<b>239.20</b>	<b>29.00</b>	<b>18.72</b>	<b>13.28</b>	<b>5.28</b>	<b>3.60</b>	<b>6.24</b>	<b>0.00</b>	<b>CMS</b>		
<b>Runoff</b>	<b>83.74</b>	<b>73.52</b>	<b>43.63</b>	<b>1.22</b>	<b>337.73</b>	<b>2329.62</b>	<b>90.96</b>	<b>53.70</b>	<b>44.66</b>	<b>25.91</b>	<b>12.61</b>	<b>30.53</b>	<b>3127.83</b>	<b>MCM</b>		
<b>Momentary Peak</b>	<b>1238.30</b>	<b>CMS, at 132.87 m. (MSL), at 04.00 Hours, on Sep 8, 2019</b>														
<b>Runoff Yield</b>	<b>2.41</b>	<b>Liters/Second/Square KM.</b>											<b>Momentary Peak Yield</b>	<b>30.07</b>	<b>Liters/Second/Square KM.</b>	

**WATER YEAR : 2019****CHI RIVER BASIN****Chi River at Ban Maha Chana Chai , Yasothon (E.20A)**

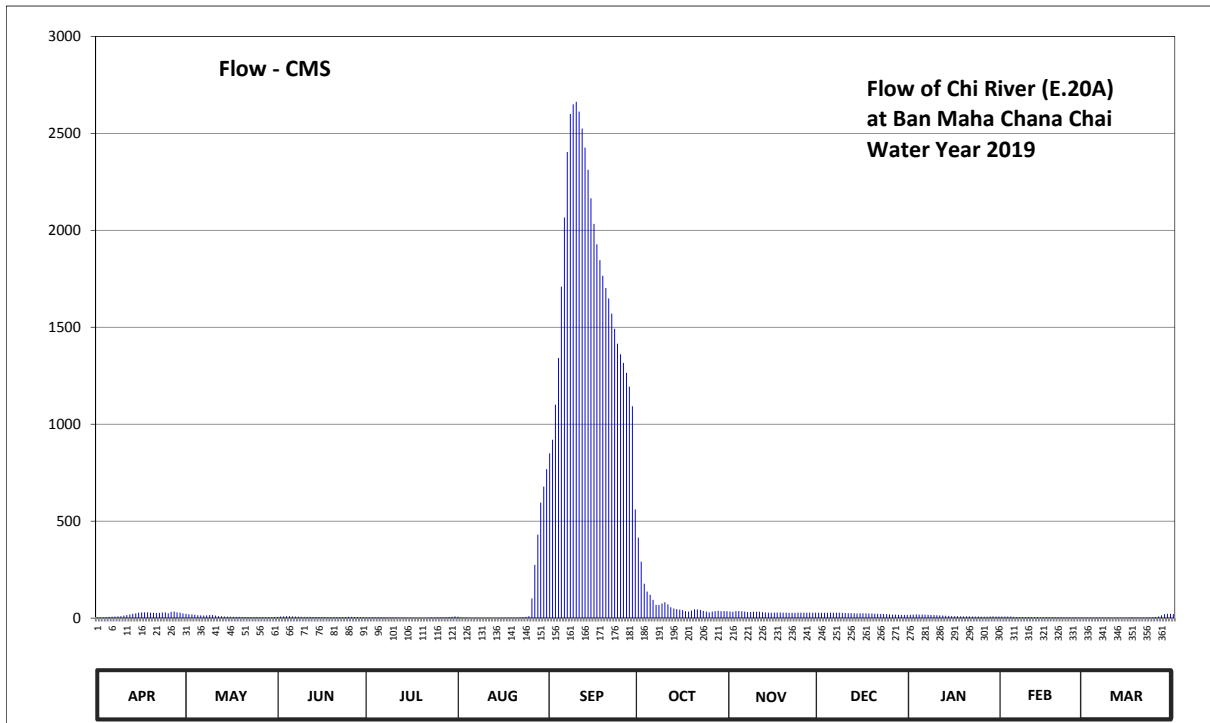
Lat 15 - 31 - 22 N Long 104 - 15 - 13 E

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

	<b>Ban</b>	<b>Maha Chana Chai</b>	<b>Amphoe</b>	<b>Maha Chana Chai</b>	<b>Changwat</b>	<b>Yasothon</b>
<b>Drainage Area</b>	47,800	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+112.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+127.588 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1974 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1974 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +119.350 m.(MSL.) and is including overbank flow.					
<b>General Description</b>	Records fair. Tat Noi barrage situated downstream from the gage site. Stage-discharge relation defined by 42 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.84	115.92	115.26	114.88	115.43	120.59	120.18	116.37	116.23	115.99	115.50	114.42	
2	114.83	115.90	115.51	114.86	114.83	120.91	119.18	116.36	116.22	116.01	115.51	114.41	
3	114.83	115.89	115.68	114.82	114.43	121.59	118.17	116.43	116.22	116.02	115.54	114.38	
4	114.96	115.87	115.74	114.78	114.19	122.38	117.74	116.43	116.22	116.01	115.54	114.34	
5	115.25	115.85	115.74	114.75	113.94	123.05	117.56	116.42	116.23	116.00	115.24	114.33	
6	115.44	115.84	115.65	114.75	113.84	123.46	117.27	116.38	116.23	115.99	115.08	114.33	
7	115.57	115.83	115.54	114.70	113.87	123.76	116.98	116.32	116.23	115.98	115.05	114.32	
8	115.71	115.84	115.39	114.65	113.94	123.92	116.96	116.32	116.23	115.96	115.02	114.33	
9	115.79	115.86	115.26	114.59	113.96	123.96	117.06	116.35	116.22	115.94	115.00	114.31	
10	115.83	115.86	115.24	114.54	113.96	123.97	117.13	116.36	116.19	115.92	114.98	114.26	
11	115.86	115.83	115.25	114.49	113.94	123.93	117.01	116.35	116.18	115.89	114.99	114.22	
12	115.89	115.74	115.21	114.43	113.93	123.86	116.78	116.29	116.17	115.87	114.97	114.20	
13	115.92	115.65	115.10	114.36	113.80	123.78	116.67	116.26	116.15	115.85	114.93	114.20	
14	115.95	115.55	115.07	114.30	113.88	123.68	116.61	116.24	116.14	115.83	114.89	114.23	
15	115.98	115.46	115.06	114.26	113.98	123.55	116.58	116.23	116.15	115.79	114.86	114.26	
16	116.00	115.37	115.08	114.22	114.08	123.43	116.54	116.24	116.15	115.76	114.83	114.29	
17	116.00	115.29	115.09	114.13	114.12	123.32	116.41	116.25	116.15	115.73	114.80	114.82	
18	116.00	115.24	115.09	113.96	114.07	123.22	116.38	116.25	116.14	115.70	114.76	114.46	
19	115.98	115.20	115.05	113.84	114.07	123.12	116.49	116.24	116.13	115.68	114.74	114.45	
20	115.97	115.17	115.03	113.89	114.10	123.04	116.60	116.23	116.11	115.65	114.70	114.47	
21	115.96	115.15	115.01	114.04	114.13	122.97	116.59	116.22	116.10	115.61	114.67	114.50	
22	115.97	115.13	114.97	114.23	114.52	122.85	116.55	116.22	116.09	115.56	114.63	114.55	
23	115.99	115.05	114.99	114.57	114.95	122.72	116.46	116.22	116.08	115.53	114.60	114.66	
24	116.00	114.92	115.08	114.64	115.23	122.57	116.37	116.23	116.06	115.49	114.58	114.86	
25	115.95	114.95	115.19	114.81	115.76	122.44	116.27	116.23	116.03	115.46	114.54	115.15	
26	116.02	114.99	115.21	114.83	116.58	122.30	116.38	116.23	116.01	115.43	114.51	115.58	
27	116.04	115.01	115.13	114.83	117.72	122.14	116.44	116.23	116.00	115.46	114.48	115.89	
28	116.00	115.02	115.06	114.85	118.57	121.91	116.48	116.23	115.98	115.56	114.45	116.07	
29	115.98	115.01	114.98	114.94	119.41	121.56	116.42	116.23	115.97	115.62	114.44	116.10	
30	115.94	115.03	114.88	115.27	119.80	121.00	116.43	116.23	115.97	115.58		116.10	
31		115.10		115.62	120.22		116.41		115.98	115.53		116.06	
Mean	115.75	115.44	115.22	114.58	115.14	122.83	116.94	116.29	116.13	115.75	114.89	114.73	
Max	116.04	115.92	115.74	115.62	120.22	123.97	120.18	116.43	116.23	116.02	115.54	116.10	123.97
Min	114.83	114.92	114.88	113.84	113.80	120.59	116.27	116.22	115.97	115.43	114.44	114.20	113.80
Annual Max Momentary Gage Height	123.98		m. (MSL.) ,			at 24.00 Hours, on Sep 9, 2019							
Zero Gage at Bottom Elevation	112.00		m. (MSL.) ,			River Bed	110.29		m. (MSL.)				
Left Bank Elevation		119.34		m. (MSL.) ,									
Right Bank Elevation		120.30		m. (MSL.) ,		Drainage Are	47,800		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.26	22.00	6.56	4.42	7.58	849.80	415.20	33.54	27.66	17.60	8.00	2.58	
2	4.22	20.00	8.06	4.34	4.22	920.20	291.60	33.12	27.24	18.42	8.06	2.54	
3	4.22	19.00	9.08	4.18	2.62	1101.10	177.00	36.06	27.24	18.84	8.24	2.42	
4	4.80	17.00	9.52	4.02	1.66	1341.60	136.60	36.06	27.24	18.42	8.24	2.26	
5	6.50	15.00	9.52	3.90	0.72	1710.00	120.40	35.64	27.66	18.00	6.44	2.22	
6	7.64	14.00	8.90	3.90	0.42	2066.00	94.30	33.96	27.66	17.60	5.48	2.22	
7	8.42	13.00	8.24	3.70	0.51	2404.00	68.76	31.44	27.66	17.20	5.30	2.18	
8	9.28	14.00	7.34	3.50	0.72	2600.00	67.52	31.44	27.66	16.40	5.12	2.22	
9	9.92	16.00	6.56	3.26	0.78	2650.00	75.40	32.70	27.24	15.60	5.00	2.14	
10	13.00	16.00	6.44	3.06	0.78	2662.50	81.70	33.12	25.98	14.80	4.90	1.94	
11	16.00	13.00	6.50	2.86	0.72	2612.50	70.90	32.70	25.56	13.60	4.95	1.78	
12	19.00	9.52	6.26	2.62	0.69	2525.00	56.36	30.18	25.14	12.80	4.85	1.70	
13	22.00	8.90	5.60	2.34	0.30	2427.00	49.54	28.92	24.30	12.00	4.65	1.70	
14	25.00	8.30	5.42	2.10	0.54	2312.00	45.82	28.08	23.88	11.20	4.46	1.82	
15	28.00	7.76	5.36	1.94	0.84	2165.00	43.96	27.66	24.30	9.92	4.34	1.94	
16	30.00	7.22	5.48	1.78	1.22	2033.00	41.48	28.08	24.30	9.68	4.22	2.06	
17	30.00	6.74	5.54	1.42	1.38	1928.00	35.22	28.50	24.30	9.44	4.10	4.18	
18	30.00	6.44	5.54	0.78	1.18	1846.00	33.96	28.50	23.88	9.20	3.94	2.74	
19	28.00	6.20	5.30	0.42	1.18	1766.00	38.58	28.08	23.46	9.08	3.86	2.70	
20	27.00	6.02	5.18	0.57	1.30	1702.00	45.20	27.66	22.62	8.90	3.70	2.78	
21	26.00	5.90	5.06	1.06	1.42	1649.00	44.58	27.24	22.20	8.66	3.58	2.90	
22	27.00	5.78	4.85	1.82	2.98	1570.00	42.10	27.24	21.78	8.36	3.42	3.10	
23	29.00	5.30	4.95	3.18	4.75	1492.00	37.32	27.24	21.36	8.18	3.30	3.54	
24	30.00	4.60	5.48	3.46	6.38	1415.00	33.54	27.66	20.52	7.94	3.22	4.34	
25	25.00	4.75	6.14	4.14	9.68	1360.80	29.34	27.66	19.26	7.76	3.06	5.90	
26	32.00	4.95	6.26	4.22	101.20	1316.00	33.96	27.66	18.42	7.58	2.94	8.48	
27	34.00	5.06	5.78	4.22	274.60	1264.80	36.48	27.66	18.00	7.76	2.82	13.60	
28	30.00	5.12	5.36	4.30	430.45	1193.90	38.16	27.66	17.20	8.36	2.70	20.94	
29	28.00	5.06	4.90	4.70	596.10	1092.40	35.64	27.66	16.80	8.72	2.66	22.20	
30	24.00	5.18	4.42	6.62	678.00	560.00	36.06	27.66	16.80	8.48		22.20	
31		5.60		8.72	768.40		35.22		17.20	8.18		20.52	
Total	612.26	303.40	189.60	101.55	2903.32	52535.60	2391.90	900.78	724.52	368.68	135.55	173.84	61341.00 CMSDAY
Mean	20.41	9.79	6.32	3.28	93.66	1751.19	77.16	30.03	23.37	11.89	4.67	5.61	167.60 CMS
Max	34.00	22.00	9.52	8.72	768.40	2662.50	415.20	36.06	27.66	18.84	8.24	22.20	2662.50 CMS
Min	4.22	4.60	4.42	0.42	0.30	560.00	29.34	27.24	16.80	7.58	2.66	1.70	0.30 CMS
Runoff	52.90	26.21	16.38	8.77	250.85	4539.08	206.66	77.83	62.60	31.85	11.71	15.02	5299.86 MCM
Momentary Peak	2675.00	CMS, at 123.98 m. (MSL), at 24.00 Hours, on Sep 9, 2019											
Runoff Yield	3.52	Liters/Second/Square KM.		Momentary Peak Yield	55.96	Liters/Second/Square KM.							

## WATER YEAR : 2019

## CHI RIVER BASIN

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

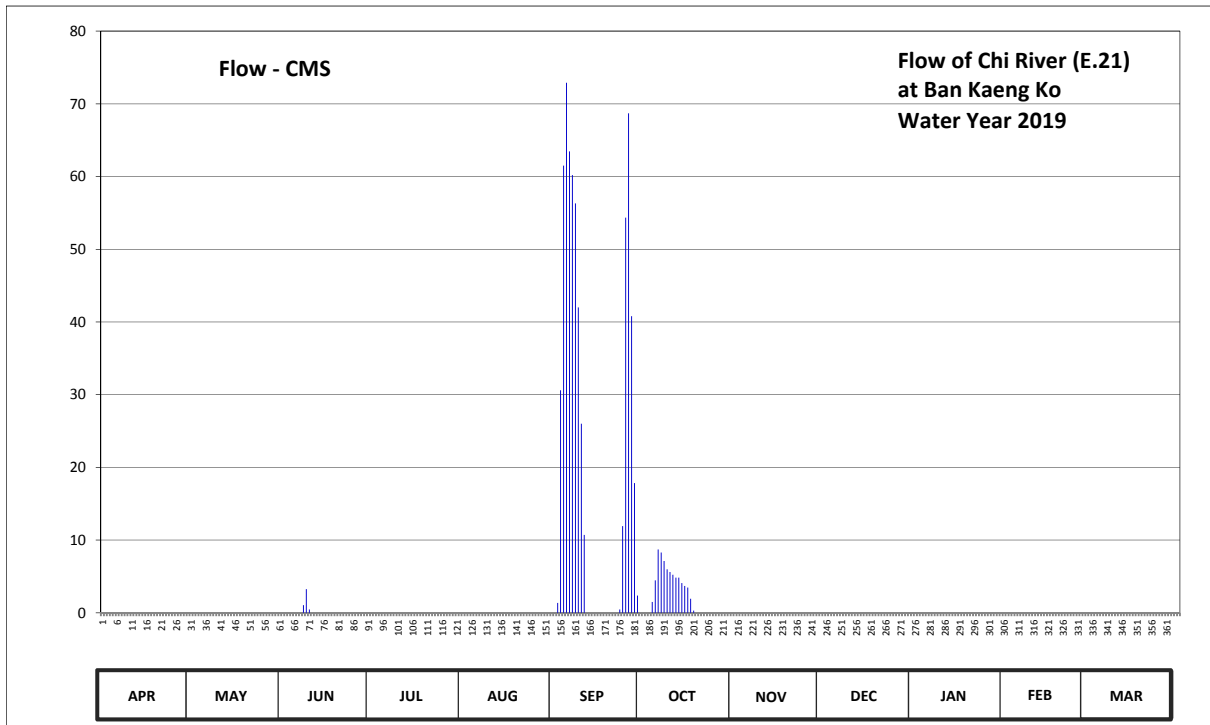
Lat 15 - 45 - 07 N Long 102 - 15 - 25 E

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

	<b>Ban Kaeng Ko</b>	<b>Amphoe Mueang</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	8,777 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+163.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	In front of the automatic gage buiding.	<b>Elevation</b>	+174.287 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1955 - 1957 , 1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 - 1971 , 1973 - 1974 , 1982 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1968 - 1971 , 1973 - 1974 , 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 4 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.98	165.99	166.09	165.84	166.27	166.46	166.65	166.02	165.11	164.92	164.74	164.82	
2	165.98	165.98	166.09	165.83	166.25	167.09	166.81	165.95	165.11	164.91	164.74	164.87	
3	165.98	165.98	166.10	165.86	166.17	167.81	166.97	165.89	165.10	164.91	164.74	164.91	
4	165.97	165.98	166.10	165.87	166.09	168.30	167.10	165.82	165.10	164.90	164.75	164.97	
5	165.97	165.97	166.11	165.85	166.08	168.47	167.22	165.76	165.09	164.89	164.75	165.01	
6	165.96	165.97	166.25	165.85	166.09	168.33	167.33	165.70	165.09	164.88	164.75	165.06	
7	165.96	165.96	166.69	165.83	166.06	168.28	167.32	165.64	165.09	164.88	164.75	165.09	
8	165.96	165.96	167.07	165.78	166.02	168.22	167.29	165.59	165.08	164.87	164.75	165.10	
9	165.95	165.97	167.18	165.72	165.96	168.00	167.26	165.54	165.08	164.87	164.75	165.10	
10	165.95	165.98	167.03	165.69	165.86	167.72	167.25	165.50	165.07	164.86	164.75	165.09	
11	165.94	165.98	166.91	165.67	165.66	167.38	167.24	165.47	165.06	164.85	164.76	165.08	
12	165.94	165.98	166.79	165.64	165.47	166.93	167.23	165.44	165.06	164.85	164.76	165.08	
13	165.93	165.99	166.71	165.62	165.32	166.57	167.23	165.42	165.05	164.84	164.76	165.07	
14	165.93	166.09	166.67	165.60	165.07	166.35	167.21	165.40	165.05	164.83	164.76	165.06	
15	165.93	166.07	166.63	165.58	165.04	166.31	167.20	165.38	165.04	164.82	164.77	165.05	
16	165.92	166.05	166.60	165.55	165.05	166.33	167.19	165.36	165.03	164.82	164.77	165.04	
17	165.92	166.05	166.57	165.52	165.05	166.27	167.12	165.35	165.03	164.81	164.77	165.03	
18	165.91	166.05	166.53	165.49	165.04	166.22	167.02	165.32	165.02	164.81	164.77	165.01	
19	165.91	166.04	166.44	165.46	165.02	166.27	166.90	165.29	165.01	164.80	164.78	164.99	
20	165.91	166.04	166.35	165.44	165.02	166.33	166.72	165.26	165.00	164.80	164.78	164.97	
21	165.92	166.04	166.28	165.41	165.00	166.47	166.56	165.23	164.99	164.79	164.79	164.96	
22	165.93	166.04	166.23	165.38	164.98	166.77	166.42	165.21	164.98	164.79	164.79	164.95	
23	165.94	166.04	166.18	165.45	164.95	167.03	166.30	165.19	164.98	164.78	164.79	164.94	
24	165.95	166.04	166.14	165.73	164.96	167.41	166.19	165.18	164.97	164.78	164.79	164.92	
25	165.95	166.05	166.11	166.04	164.93	168.19	166.14	165.16	164.97	164.77	164.79	164.90	
26	165.96	166.05	166.07	166.20	164.90	168.41	166.10	165.15	164.96	164.77	164.79	164.88	
27	165.97	166.05	166.01	166.19	164.88	167.98	166.08	165.14	164.95	164.76	164.79	164.87	
28	165.99	166.06	165.89	166.20	164.89	167.55	166.07	165.14	164.94	164.75	164.80	164.85	
29	166.00	166.09	165.86	166.23	164.90	167.14	166.06	165.13	164.93	164.75	164.80	164.85	
30	166.00	166.09	165.85	166.28	164.95	166.66	166.05	165.13	164.92	164.74	164.74	164.84	
31		166.09		166.27	165.43		166.05		164.92	164.74		164.83	
Mean	165.95	166.02	166.38	165.78	165.40	167.24	166.78	165.43	165.03	164.82	164.77	164.97	
Max	166.00	166.09	167.18	166.28	166.27	168.47	167.33	166.02	165.11	164.92	164.80	165.10	168.47
Min	165.91	165.96	165.85	165.38	164.88	166.22	166.05	165.13	164.92	164.74	164.74	164.82	164.74
Annual Max Momentary Gage Height	168.61		m. (MSL.) ,			at 18.00 Hours, on Sep 25, 2019							
Zero Gage at Bottom Elevation	163.00		m. (MSL.) ,			River Bed	165.27	m. (MSL.)					
Left Bank Elevation		175.84		m. (MSL.) ,									
Right Bank Elevation		176.01		m. (MSL.) ,		Drainage Are	8,777	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	61.50	1.50	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	72.90	4.46	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	63.45	8.70	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	60.20	8.30	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.05	0.00	0.00	56.30	7.12	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	3.26	0.00	0.00	42.00	5.98	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.45	0.00	0.00	26.00	5.60	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	10.70	5.22	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	4.84	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	4.08	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	3.70	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	3.48	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	1.94	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	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	0.45	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	11.92	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	54.35	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	68.70	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	17.85	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	4.76	0.00	0.00	621.45	70.06	0.00	0.00	0.00	0.00	0.00	696.27 CMSDAY
Mean	0.00	0.00	0.16	0.00	0.00	20.71	2.26	0.00	0.00	0.00	0.00	0.00	1.90 CMS
Max	0.00	0.00	3.26	0.00	0.00	72.90	8.70	0.00	0.00	0.00	0.00	0.00	72.90 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	0.41	0.00	0.00	53.69	6.05	0.00	0.00	0.00	0.00	0.00	60.16 MCM
Momentary Peak	82.70	CMS, at 168.61 m. (MSL.), at 18.00 Hours, on Sep 25, 2019											
Runoff Yield	0.22	Liters/Second/Square KM.		Momentary Peak Yield		9.42	Liters/Second/Square KM.						



## WATER YEAR : 2019

## CHI RIVER BASIN

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

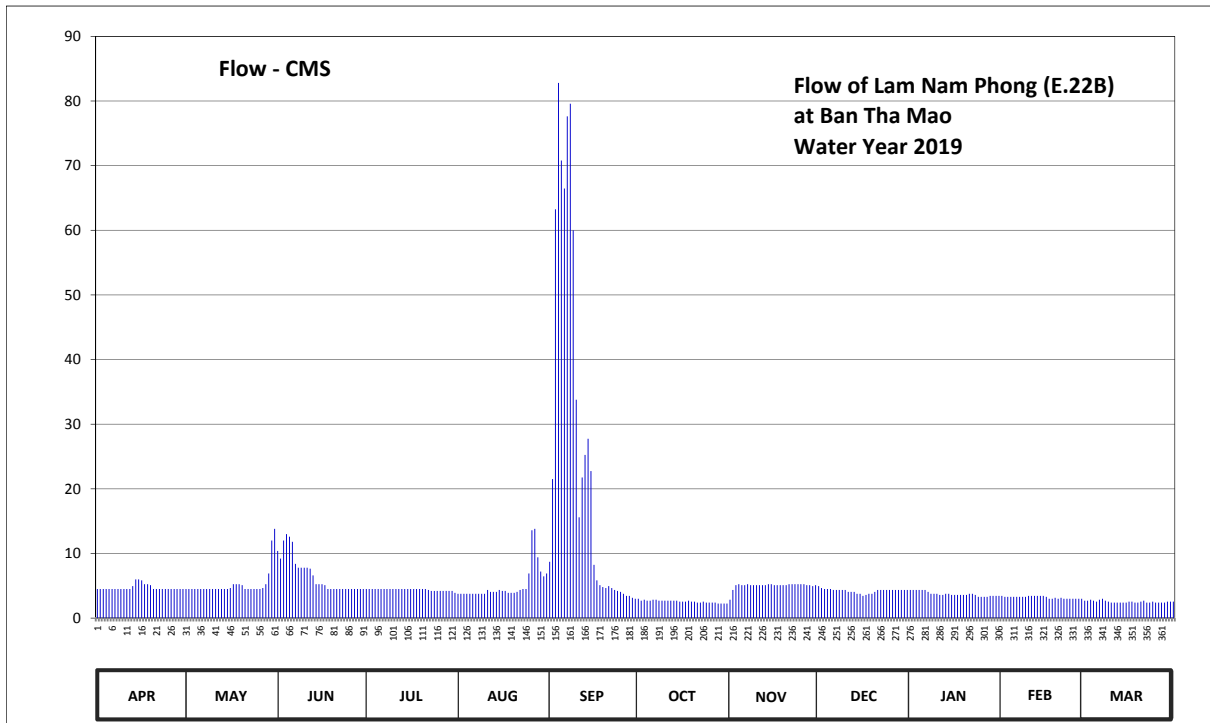
Lat 16 - 39 - 13 N Long 102 - 49 - 39 E

Location : on right bank at Ban Tha Mao.

	<b>Ban</b>	<b>Tha</b>	<b>Mao</b>	<b>Amphoe</b>	<b>Nam</b>	<b>Phong</b>	<b>Changwat</b>	<b>Khon</b>	<b>Kaen</b>	
<b>Drainage Area</b>	13,638 sq.km.									
<b>Type of Gage</b>	Water - stage recorder.									
<b>Zero Gage at Bottom</b>	+150.900 m. (MSL.)									
<b>Bench Mark</b>	B.M.- Highways Dept.									
<b>Location BM</b>	On left bank at the footpath of the bridge.						<b>Elevation</b>	+163.911 m. (MSL.)		
<b>Gage Reading Frequency</b>	Recording									
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings									
<b>Period of Available Gage Records</b>	1965 to date									
<b>Rating Operation</b>										
<b>Period of Rating</b>	1966 - 1972 , 1982 - 1987 , 1992 to date									
<b>Rated by Flot</b>	-									
<b>Rated by Current Meter</b>	1966 - 1972 , 1982 - 1987 , 1992 to date									
<b>Stability of Channel Regimes</b>	Fairly stable.									
<b>Overbank Flow Conditions</b>	No overbank flow.									
<b>General Description</b>	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 20 discharge measurements made in 2019.									

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.30	151.30	151.67	151.30	151.25	151.58	151.20	151.19	151.33	151.29	151.23	151.18	
2	151.30	151.30	151.61	151.30	151.25	152.18	151.18	151.29	151.31	151.29	151.22	151.18	
3	151.30	151.30	151.75	151.30	151.25	153.59	151.19	151.34	151.30	151.29	151.22	151.19	
4	151.30	151.30	151.80	151.30	151.25	154.12	151.18	151.35	151.30	151.29	151.22	151.18	
5	151.30	151.30	151.78	151.30	151.25	153.80	151.18	151.34	151.30	151.29	151.22	151.17	
6	151.30	151.30	151.74	151.30	151.25	153.68	151.19	151.34	151.29	151.29	151.22	151.19	
7	151.30	151.30	151.56	151.30	151.25	153.99	151.19	151.35	151.29	151.27	151.22	151.20	
8	151.30	151.30	151.52	151.30	151.25	154.04	151.18	151.34	151.29	151.25	151.22	151.18	
9	151.30	151.30	151.52	151.30	151.25	153.50	151.18	151.34	151.29	151.25	151.22	151.17	
10	151.30	151.30	151.52	151.30	151.25	152.66	151.18	151.34	151.29	151.25	151.23	151.16	
11	151.30	151.30	151.52	151.30	151.29	151.93	151.18	151.34	151.27	151.24	151.23	151.16	
12	151.30	151.30	151.51	151.30	151.27	152.19	151.18	151.34	151.27	151.24	151.23	151.16	
13	151.33	151.30	151.44	151.30	151.27	152.33	151.18	151.34	151.27	151.25	151.23	151.16	
14	151.40	151.30	151.35	151.30	151.27	152.43	151.18	151.35	151.25	151.25	151.23	151.16	
15	151.40	151.30	151.35	151.30	151.29	152.23	151.17	151.35	151.25	151.24	151.23	151.16	
16	151.39	151.31	151.35	151.30	151.28	151.55	151.17	151.34	151.23	151.24	151.22	151.17	
17	151.35	151.35	151.34	151.30	151.28	151.39	151.17	151.34	151.24	151.24	151.20	151.17	
18	151.35	151.35	151.30	151.30	151.26	151.34	151.18	151.34	151.25	151.24	151.20	151.16	
19	151.34	151.35	151.30	151.30	151.26	151.32	151.17	151.34	151.25	151.24	151.21	151.16	
20	151.30	151.34	151.30	151.30	151.26	151.31	151.17	151.34	151.27	151.24	151.20	151.17	
21	151.30	151.30	151.30	151.30	151.27	151.33	151.16	151.35	151.29	151.25	151.21	151.18	
22	151.30	151.30	151.30	151.29	151.29	151.31	151.16	151.35	151.29	151.25	151.20	151.16	
23	151.30	151.30	151.30	151.28	151.30	151.29	151.17	151.35	151.29	151.24	151.20	151.16	
24	151.30	151.30	151.30	151.28	151.30	151.28	151.16	151.35	151.29	151.22	151.20	151.17	
25	151.30	151.30	151.30	151.28	151.46	151.27	151.16	151.35	151.29	151.22	151.20	151.16	
26	151.30	151.30	151.30	151.28	151.83	151.25	151.16	151.35	151.29	151.22	151.20	151.16	
27	151.30	151.31	151.30	151.28	151.84	151.23	151.16	151.34	151.29	151.22	151.20	151.16	
28	151.30	151.35	151.30	151.28	151.62	151.23	151.15	151.34	151.29	151.23	151.20	151.16	
29	151.30	151.46	151.30	151.28	151.48	151.21	151.15	151.33	151.29	151.23	151.20	151.17	
30	151.30	151.75	151.30	151.28	151.43	151.20	151.15	151.34	151.29	151.23	151.20	151.17	
31		151.84		151.26	151.46		151.15		151.29	151.23		151.17	
Mean	151.32	151.35	151.44	151.29	151.34	152.13	151.17	151.34	151.28	151.25	151.21	151.17	
Max	151.40	151.84	151.80	151.30	151.84	154.12	151.20	151.35	151.33	151.29	151.23	151.20	154.12
Min	151.30	151.30	151.30	151.26	151.25	151.20	151.15	151.19	151.23	151.22	151.20	151.16	151.15
Annual Max Momentary Gage Height	154.24	m. (MSL.) ,		at 06.00 Hours, on Sep 4, 2019									
Zero Gage at Bottom Elevation	150.90	m. (MSL.) ,		River Bed		150.23	m. (MSL.)						
Left Bank Elevation	163.60	m. (MSL.) ,											
Right Bank Elevation	163.68	m. (MSL.) ,		Drainage Are	13,638	Square Kilometers							



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.50	4.50	10.40	4.50	3.75	8.70	3.00	2.85	4.95	4.35	3.45	2.70	
2	4.50	4.50	9.20	4.50	3.75	21.50	2.70	4.35	4.65	4.35	3.30	2.70	
3	4.50	4.50	12.00	4.50	3.75	63.24	2.85	5.10	4.50	4.35	3.30	2.85	
4	4.50	4.50	13.00	4.50	3.75	82.80	2.70	5.25	4.50	4.35	3.30	2.70	
5	4.50	4.50	12.60	4.50	3.75	70.80	2.70	5.10	4.50	4.35	3.30	2.55	
6	4.50	4.50	11.80	4.50	3.75	66.48	2.85	5.10	4.35	4.35	3.30	2.85	
7	4.50	4.50	8.40	4.50	3.75	77.64	2.85	5.25	4.35	4.05	3.30	3.00	
8	4.50	4.50	7.80	4.50	3.75	79.60	2.70	5.10	4.35	3.75	3.30	2.70	
9	4.50	4.50	7.80	4.50	3.75	60.00	2.70	5.10	4.35	3.75	3.30	2.55	
10	4.50	4.50	7.80	4.50	3.75	33.80	2.70	5.10	4.35	3.75	3.45	2.40	
11	4.50	4.50	7.80	4.50	4.35	15.60	2.70	5.10	4.05	3.60	3.45	2.40	
12	4.50	4.50	7.65	4.50	4.05	21.75	2.70	5.10	4.05	3.60	3.45	2.40	
13	4.95	4.50	6.60	4.50	4.05	25.25	2.70	5.10	4.05	3.75	3.45	2.40	
14	6.00	4.50	5.25	4.50	4.05	27.75	2.70	5.25	3.75	3.75	3.45	2.40	
15	6.00	4.50	5.25	4.50	4.35	22.75	2.55	5.25	3.75	3.60	3.45	2.40	
16	5.85	4.65	5.25	4.50	4.20	8.25	2.55	5.10	3.45	3.60	3.30	2.55	
17	5.25	5.25	5.10	4.50	4.20	5.85	2.55	5.10	3.60	3.60	3.00	2.55	
18	5.25	5.25	4.50	4.50	3.90	5.10	2.70	5.10	3.75	3.60	3.00	2.40	
19	5.10	5.25	4.50	4.50	3.90	4.80	2.55	5.10	3.75	3.60	3.15	2.40	
20	4.50	5.10	4.50	4.50	3.90	4.65	2.55	5.10	4.05	3.60	3.00	2.55	
21	4.50	4.50	4.50	4.50	4.05	4.95	2.40	5.25	4.35	3.75	3.15	2.70	
22	4.50	4.50	4.50	4.35	4.35	4.65	2.40	5.25	4.35	3.75	3.00	2.40	
23	4.50	4.50	4.50	4.20	4.50	4.35	2.55	5.25	4.35	3.60	3.00	2.40	
24	4.50	4.50	4.50	4.20	4.50	4.20	2.40	5.25	4.35	3.30	3.00	2.55	
25	4.50	4.50	4.50	4.20	6.90	4.05	2.40	5.25	4.35	3.30	3.00	2.40	
26	4.50	4.50	4.50	4.20	13.60	3.75	2.40	5.25	4.35	3.30	3.00	2.40	
27	4.50	4.65	4.50	4.20	13.80	3.45	2.40	5.10	4.35	3.30	3.00	2.40	
28	4.50	5.25	4.50	4.20	9.40	3.45	2.25	5.10	4.35	3.45	3.00	2.40	
29	4.50	6.90	4.50	4.20	7.20	3.15	2.25	4.95	4.35	3.45	3.00	2.55	
30	4.50	12.00	4.50	4.20	6.45	3.00	2.25	5.10	4.35	3.45		2.55	
31		13.80		3.90	6.90		2.25		4.35	3.45		2.55	
Total	141.90	162.60	202.20	136.35	160.10	745.31	79.95	151.35	130.95	115.80	93.15	78.75	2198.41 CMSDAY
Mean	4.73	5.25	6.74	4.40	5.16	24.84	2.58	5.04	4.22	3.74	3.21	2.54	6.01 CMS
Max	6.00	13.80	13.00	4.50	13.80	82.80	3.00	5.25	4.95	4.35	3.45	3.00	82.80 CMS
Min	4.50	4.50	4.50	3.90	3.75	3.00	2.25	2.85	3.45	3.30	3.00	2.40	2.25 CMS
Runoff	12.26	14.05	17.47	11.78	13.83	64.39	6.91	13.08	11.31	10.01	8.05	6.80	189.94 MCM
Momentary Peak	87.60	CMS, at 154.24 m. (MSL.), at 06.00 Hours, on Sep 4, 2019											
Runoff Yield	0.44	Liters/Second/Square KM.		Momentary Peak Yield		6.42	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

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

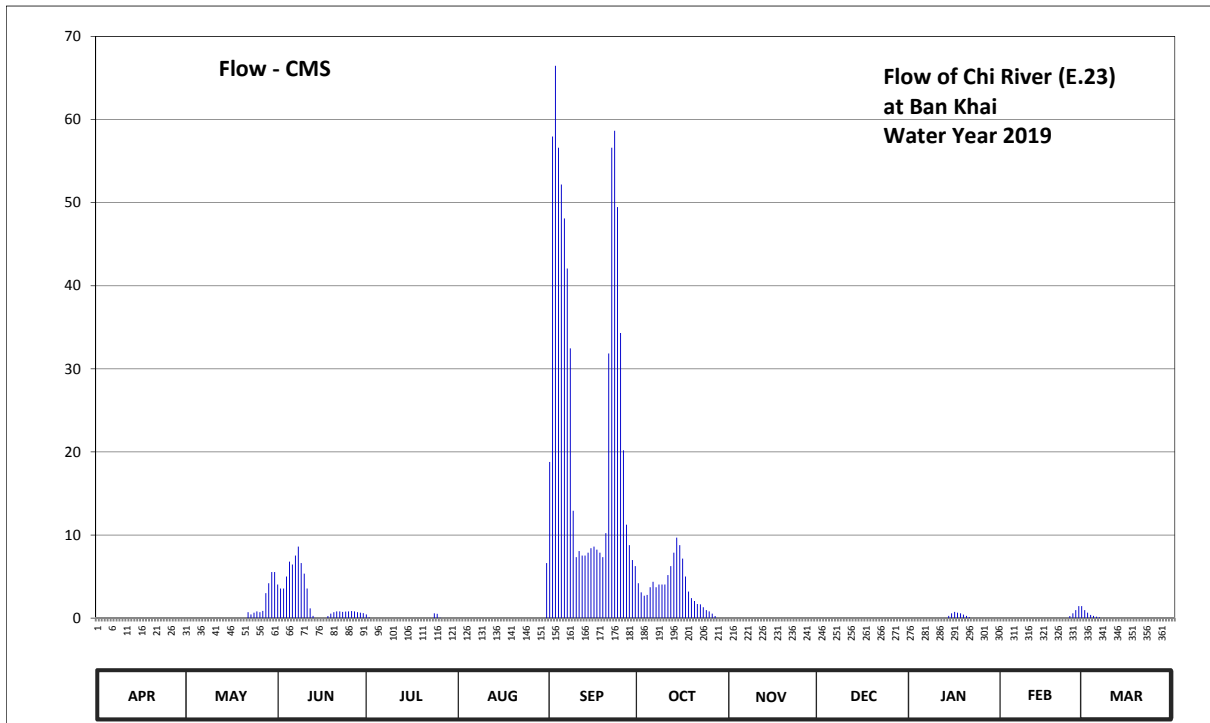
Lat 15 - 40 - 49 N Long 102 - 00 - 46 E

Location : on left bank at the bridge on highway.

	Ban Khai	Amphoe Mueang	Changwat Chaiyaphum
<b>Drainage Area</b>	6,282 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+176.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank about 20 meters from the automatic gage building.	<b>Elevation</b>	+187.454 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1954 - 1956 , 1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 - 1974 , 1982 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1968 - 1974 , 1982 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 7 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	179.02	179.14	180.04	179.45	178.81	180.70	180.05	179.02	179.13	178.24	179.00	179.62	
2	179.02	179.15	180.01	179.33	178.77	181.94	179.97	178.98	179.13	178.27	178.97	179.52	
3	179.02	179.15	180.01	179.20	178.74	182.17	179.93	178.94	179.14	178.32	178.92	179.43	
4	179.02	179.15	180.10	179.16	178.73	181.90	179.94	178.91	179.12	178.38	178.88	179.39	
5	179.02	179.15	180.20	179.10	178.75	181.77	180.02	178.89	179.12	178.45	178.84	179.36	
6	179.02	179.14	180.18	179.03	178.74	181.65	180.06	178.97	179.12	178.52	178.78	179.33	
7	179.00	179.13	180.24	179.00	178.76	181.47	180.02	179.10	179.10	178.59	178.69	179.28	
8	179.01	179.13	180.30	178.98	178.79	181.16	180.04	179.12	179.10	178.71	178.60	179.23	
9	179.01	179.14	180.19	178.97	178.84	180.49	180.04	179.12	179.10	178.80	178.50	179.18	
10	179.00	179.13	180.12	178.97	178.87	180.23	180.04	179.14	179.11	178.89	178.37	179.12	
11	178.98	179.13	180.01	179.02	178.88	180.27	180.11	179.17	179.13	179.00	178.29	179.06	
12	178.97	179.14	179.69	179.04	178.75	180.24	180.17	179.17	179.14	179.13	178.27	179.01	
13	178.95	179.13	179.39	179.04	178.30	180.24	180.26	179.16	179.15	179.26	178.26	178.97	
14	178.95	179.10	179.25	179.01	177.84	180.26	180.36	179.15	179.16	179.39	178.24	178.92	
15	178.96	179.08	179.16	178.99	177.74	180.29	180.31	179.16	179.17	179.49	178.26	178.87	
16	178.97	179.08	179.14	178.98	177.75	180.30	180.22	179.17	179.16	179.55	178.36	178.83	
17	178.95	179.10	179.25	178.97	177.82	180.28	180.10	179.16	179.14	179.52	178.45	178.79	
18	178.95	179.11	179.38	178.88	177.86	180.26	179.98	179.16	179.13	179.49	178.57	178.74	
19	178.94	179.11	179.48	178.85	177.89	180.23	179.90	179.16	179.12	179.44	178.70	178.69	
20	178.93	179.13	179.54	178.83	177.94	180.39	179.85	179.15	179.12	179.39	178.83	178.62	
21	178.94	179.26	179.57	178.80	177.98	181.14	179.80	179.15	179.09	179.34	178.98	178.55	
22	178.96	179.54	179.57	178.74	178.00	181.90	179.79	179.14	179.06	179.27	179.11	178.49	
23	178.97	179.45	179.55	178.98	178.03	181.96	179.72	179.14	179.07	179.14	179.25	178.44	
24	178.96	179.52	179.56	179.49	178.06	181.69	179.62	179.13	179.06	179.01	179.38	178.38	
25	179.02	179.57	179.57	179.47	178.11	181.22	179.57	179.14	179.06	178.94	179.49	178.32	
26	179.18	179.54	179.58	179.31	178.16	180.75	179.48	179.15	179.06	178.96	179.62	178.25	
27	179.19	179.59	179.57	179.18	178.19	180.43	179.38	179.15	179.02	178.98	179.75	178.19	
28	179.18	179.96	179.54	179.10	178.18	180.31	179.29	179.14	178.93	178.99	179.75	178.12	
29	179.17	180.05	179.52	178.98	178.22	180.21	179.19	179.15	178.78	179.00	179.69	178.02	
30	179.15	180.13	179.50	178.92	178.88	180.17	179.12	179.14	178.48	179.00		177.92	
31		180.13		178.86	180.19		179.11		178.29	178.98		177.84	
Mean	179.01	179.33	179.71	179.05	178.41	180.87	179.85	179.11	179.05	178.98	178.86	178.79	
Max	179.19	180.13	180.30	179.49	180.19	182.17	180.36	179.17	179.17	179.55	179.75	179.62	182.17
Min	178.93	179.08	179.14	178.74	177.74	180.17	179.11	178.89	178.29	178.24	178.24	177.84	177.74
Annual Max Momentary Gage Height	182.30		m. (MSL.) ,				at 06.00 Hours, on Sep 3, 2019						
Zero Gage at Bottom Elevation	176.20		m. (MSL.) ,			River Bed	177.30	m. (MSL.)					
Left Bank Elevation		187.26		m. (MSL.) ,									
Right Bank Elevation		187.62		m. (MSL.) ,		Drainage Are	6,282	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	4.04	0.45	0.00	18.80	4.20	0.00	0.00	0.00	0.00	0.96	
2	0.00	0.00	3.56	0.09	0.00	57.96	3.10	0.00	0.00	0.00	0.00	0.66	
3	0.00	0.00	3.56	0.00	0.00	66.46	2.70	0.00	0.00	0.00	0.00	0.39	
4	0.00	0.00	5.00	0.00	0.00	56.60	2.80	0.00	0.00	0.00	0.00	0.27	
5	0.00	0.00	6.80	0.00	0.00	52.18	3.72	0.00	0.00	0.00	0.00	0.18	
6	0.00	0.00	6.44	0.00	0.00	48.10	4.36	0.00	0.00	0.00	0.00	0.09	
7	0.00	0.00	7.52	0.00	0.00	42.07	3.72	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	8.60	0.00	0.00	32.46	4.04	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	6.62	0.00	0.00	12.92	4.04	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	5.36	0.00	0.00	7.34	4.04	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	3.56	0.00	0.00	8.06	5.18	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	1.17	0.00	0.00	7.52	6.26	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.27	0.00	0.00	7.52	7.88	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	7.88	9.68	0.00	0.00	0.27	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	8.42	8.78	0.00	0.00	0.57	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	8.60	7.16	0.00	0.00	0.75	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	8.24	5.00	0.00	0.00	0.66	0.00	0.00	
18	0.00	0.00	0.24	0.00	0.00	7.88	3.20	0.00	0.00	0.57	0.00	0.00	
19	0.00	0.00	0.54	0.00	0.00	7.34	2.40	0.00	0.00	0.42	0.00	0.00	
20	0.00	0.00	0.72	0.00	0.00	10.22	2.05	0.00	0.00	0.27	0.00	0.00	
21	0.00	0.00	0.81	0.00	0.00	31.84	1.70	0.00	0.00	0.12	0.00	0.00	
22	0.00	0.72	0.81	0.00	0.00	56.60	1.65	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.45	0.75	0.00	0.00	58.64	1.30	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.66	0.78	0.57	0.00	49.46	0.96	0.00	0.00	0.00	0.24	0.00	
25	0.00	0.81	0.81	0.51	0.00	34.32	0.81	0.00	0.00	0.00	0.57	0.00	
26	0.00	0.72	0.84	0.03	0.00	20.20	0.54	0.00	0.00	0.00	0.96	0.00	
27	0.00	0.87	0.81	0.00	0.00	11.24	0.24	0.00	0.00	0.00	1.45	0.00	
28	0.00	3.00	0.72	0.00	0.00	8.78	0.00	0.00	0.00	0.00	1.45	0.00	
29	0.00	4.20	0.66	0.00	0.00	6.98	0.00	0.00	0.00	0.00	1.17	0.00	
30	0.00	5.54	0.60	0.00	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	5.54	0.00	0.00	6.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	22.51	71.59	1.65	6.62	760.89	101.51	0.00	0.00	3.63	5.84	2.55	976.79 CMSDAY
<b>Mean</b>	0.00	0.73	2.39	0.05	0.21	25.36	3.27	0.00	0.00	0.12	0.20	0.08	2.67 CMS
<b>Max</b>	0.00	5.54	8.60	0.57	6.62	66.46	9.68	0.00	0.00	0.75	1.45	0.96	66.46 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	1.94	6.19	0.14	0.57	65.74	8.77	0.00	0.00	0.31	0.50	0.22	84.39 MCM
<b>Momentary Peak</b>		71.40	CMS, at 182.30 m. (MSL.), at 06.00 Hours, on Sep 3, 2019										
<b>Runoff Yield</b>		0.43	Liters/Second/Square KM.		Momentary Peak Yield		11.37	Liters/Second/Square KM.					

## WATER YEAR : 2019

## CHI RIVER BASIN

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

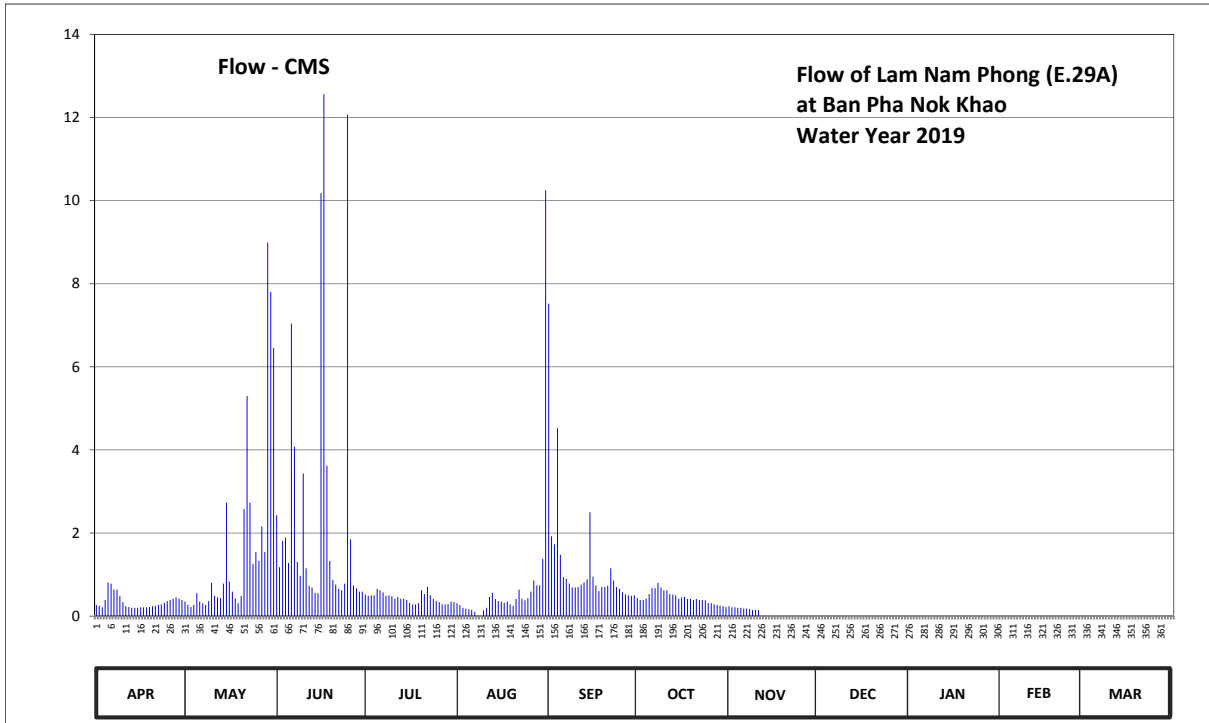
Lat 16 - 50 - 44 N Long 101 - 56 - 54 E

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
<b>Drainage Area</b>	943 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+228.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	In front of the automatic gage buiding.	<b>Elevation</b>	+241.401 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2019 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2019 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2019 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by Ubonrat Dam. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	228.09	228.15	229.04	228.27	228.12	230.16	228.21	228.07	227.80	227.80	227.80	227.80	
2	228.08	228.09	228.67	228.25	228.09	228.91	228.18	228.05	227.80	227.80	227.80	227.80	
3	228.05	228.06	228.88	228.26	228.04	228.86	228.18	228.05	227.80	227.80	227.80	227.80	
4	228.18	228.09	228.90	228.26	228.03	229.57	228.20	228.04	227.80	227.80	227.80	227.80	
5	228.48	228.29	228.71	228.37	228.02	228.79	228.28	228.04	227.80	227.80	227.80	227.80	
6	228.46	228.15	230.09	228.34	228.01	228.56	228.38	228.03	227.80	227.80	227.80	227.80	
7	228.36	228.12	229.47	228.31	227.97	228.54	228.38	228.03	227.80	227.80	227.80	227.80	
8	228.36	228.09	228.72	228.25	227.91	228.46	228.47	228.02	227.80	227.80	227.80	227.83	
9	228.24	228.16	228.58	228.26	227.90	228.39	228.39	228.01	227.80	227.80	227.80	228.22	
10	228.14	228.47	229.30	228.24	228.00	228.39	228.34	228.01	227.80	227.80	227.80	228.18	
11	228.07	228.25	228.66	228.20	228.04	228.40	228.34	228.01	227.80	227.80	227.80	228.11	
12	228.06	228.22	228.42	228.23	228.23	228.44	228.28	227.98	227.80	227.80	227.80	228.09	
13	228.04	228.21	228.39	228.20	228.30	228.48	228.27	227.98	227.80	227.80	227.80	228.06	
14	228.04	228.46	228.30	228.20	228.19	228.53	228.26	227.98	227.80	227.80	227.80	228.02	
15	228.04	229.12	228.29	228.18	228.16	229.06	228.20	227.96	227.80	227.80	227.80	227.98	
16	228.05	228.49	230.54	228.13	228.15	228.57	228.22	227.92	227.80	227.80	227.80	227.92	
17	228.05	228.32	230.88	228.10	228.13	228.43	228.23	227.90	227.80	227.80	227.80	227.89	
18	228.05	228.20	229.35	228.10	228.15	228.33	228.19	227.89	227.80	227.80	227.80	227.87	
19	228.06	228.12	228.73	228.12	228.10	228.40	228.19	227.88	227.80	227.80	227.80	227.85	
20	228.07	228.24	228.52	228.34	228.08	228.40	228.18	227.87	227.80	227.80	227.80	227.82	
21	228.08	229.08	228.44	228.28	228.19	228.42	228.19	227.87	227.80	227.80	227.80	227.85	
22	228.09	229.74	228.37	228.41	228.36	228.66	228.18	227.86	227.80	227.80	227.80	228.60	
23	228.10	229.12	228.34	228.26	228.20	228.51	228.18	227.86	227.80	227.80	227.80	229.27	
24	228.13	228.70	228.46	228.19	228.17	228.40	228.17	227.85	227.80	227.80	227.80	228.34	
25	228.16	228.81	230.81	228.16	228.21	228.37	228.13	227.85	227.80	227.80	227.80	228.21	
26	228.18	228.73	228.89	228.14	228.32	228.31	228.12	227.85	227.80	227.80	227.80	228.10	
27	228.20	228.97	228.43	228.10	228.51	228.27	228.10	227.85	227.80	227.80	227.80	228.08	
28	228.22	228.81	228.38	228.10	228.43	228.26	228.09	227.85	227.80	227.80	227.80	228.07	
29	228.20	230.37	228.32	228.11	228.43	228.25	228.08	227.85	227.80	227.80	227.80	228.04	
30	228.18	230.20	228.32	228.15	228.75	228.26	228.07	227.85	227.80	227.80	227.80	227.99	
31		229.99		228.14	230.55		228.06		227.80	227.80		227.96	
Mean	228.15	228.64	228.91	228.21	228.25	228.58	228.22	227.94	227.80	227.80	227.80	228.03	
Max	228.48	230.37	230.88	228.41	230.55	230.16	228.47	228.07	227.80	227.80	227.80	229.27	230.88
Min	228.04	228.06	228.29	228.10	227.90	228.25	228.06	227.85	227.80	227.80	227.80	227.80	227.80
Annual Max Momentary Gage Height	232.15		m. (MSL.) ,				at 18.00 Hours, on Jun 16, 2019						
Zero Gage at Bottom Elevation	228.00		m. (MSL.) ,			River Bed	228.01	m. (MSL.)					
Left Bank Elevation		238.45		m. (MSL.) ,									
Right Bank Elevation		238.11		m. (MSL.) ,		Drainage Are	943	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.35	2.43	0.52	0.31	7.52	0.43	0.24	0.00	0.00	0.00	0.00	
2	0.25	0.27	1.18	0.49	0.27	1.92	0.39	0.21	0.00	0.00	0.00	0.00	
3	0.21	0.22	1.81	0.50	0.20	1.73	0.39	0.21	0.00	0.00	0.00	0.00	
4	0.39	0.27	1.89	0.50	0.18	4.52	0.42	0.20	0.00	0.00	0.00	0.00	
5	0.81	0.55	1.28	0.66	0.17	1.48	0.53	0.20	0.00	0.00	0.00	0.00	
6	0.78	0.35	7.04	0.62	0.15	0.94	0.67	0.18	0.00	0.00	0.00	0.00	
7	0.64	0.31	4.08	0.57	0.10	0.90	0.67	0.18	0.00	0.00	0.00	0.00	
8	0.64	0.27	1.30	0.49	0.01	0.78	0.80	0.17	0.00	0.00	0.00	0.00	
9	0.48	0.36	0.97	0.50	0.00	0.69	0.69	0.15	0.00	0.00	0.00	0.00	
10	0.34	0.80	3.43	0.48	0.14	0.69	0.62	0.15	0.00	0.00	0.00	0.00	
11	0.24	0.49	1.15	0.42	0.20	0.70	0.62	0.15	0.00	0.00	0.00	0.00	
12	0.22	0.45	0.73	0.46	0.46	0.76	0.53	0.00	0.00	0.00	0.00	0.00	
13	0.20	0.43	0.69	0.42	0.56	0.81	0.52	0.00	0.00	0.00	0.00	0.00	
14	0.20	0.78	0.56	0.42	0.41	0.89	0.50	0.00	0.00	0.00	0.00	0.00	
15	0.20	2.73	0.55	0.39	0.36	2.50	0.42	0.00	0.00	0.00	0.00	0.00	
16	0.21	0.83	10.18	0.32	0.35	0.95	0.45	0.00	0.00	0.00	0.00	0.00	
17	0.21	0.59	12.56	0.28	0.32	0.74	0.46	0.00	0.00	0.00	0.00	0.00	
18	0.21	0.42	3.62	0.28	0.35	0.60	0.41	0.00	0.00	0.00	0.00	0.00	
19	0.22	0.31	1.33	0.31	0.28	0.70	0.41	0.00	0.00	0.00	0.00	0.00	
20	0.24	0.48	0.87	0.62	0.25	0.70	0.39	0.00	0.00	0.00	0.00	0.00	
21	0.25	2.58	0.76	0.53	0.41	0.73	0.41	0.00	0.00	0.00	0.00	0.00	
22	0.27	5.30	0.66	0.71	0.64	1.15	0.39	0.00	0.00	0.00	0.00	0.00	
23	0.28	2.73	0.62	0.50	0.42	0.86	0.39	0.00	0.00	0.00	0.00	0.00	
24	0.32	1.25	0.78	0.41	0.38	0.70	0.38	0.00	0.00	0.00	0.00	0.00	
25	0.36	1.54	12.07	0.36	0.43	0.66	0.32	0.00	0.00	0.00	0.00	0.00	
26	0.39	1.33	1.85	0.34	0.59	0.57	0.31	0.00	0.00	0.00	0.00	0.00	
27	0.42	2.16	0.74	0.28	0.86	0.52	0.28	0.00	0.00	0.00	0.00	0.00	
28	0.45	1.54	0.67	0.28	0.74	0.50	0.27	0.00	0.00	0.00	0.00	0.00	
29	0.42	8.99	0.59	0.29	0.74	0.49	0.25	0.00	0.00	0.00	0.00	0.00	
30	0.39	7.80	0.59	0.35	1.38	0.50	0.24	0.00	0.00	0.00	0.00	0.00	
31		6.45		0.34	10.25		0.22		0.00	0.00		0.00	
Total	10.51	52.93	76.98	13.64	21.91	37.20	13.78	2.04	0.00	0.00	0.00	0.00	228.99 CMSDAY
Mean	0.35	1.71	2.57	0.44	0.71	1.24	0.44	0.07	0.00	0.00	0.00	0.00	0.63 CMS
Max	0.81	8.99	12.56	0.71	10.25	7.52	0.80	0.24	0.00	0.00	0.00	0.00	12.56 CMS
Min	0.20	0.22	0.55	0.28	0.00	0.49	0.22	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.91	4.57	6.65	1.18	1.89	3.21	1.19	0.18	0.00	0.00	0.00	0.00	19.78 MCM
Momentary Peak		24.65	CMS, at 232.15 m. (MSL.), at 18.00 Hours, on Jun 16, 2019										
Runoff Yield		0.67	Liters/Second/Square KM.		Momentary Peak Yield		26.14	Liters/Second/Square KM.					

## WATER YEAR : 2019

## CHI RIVER BASIN

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

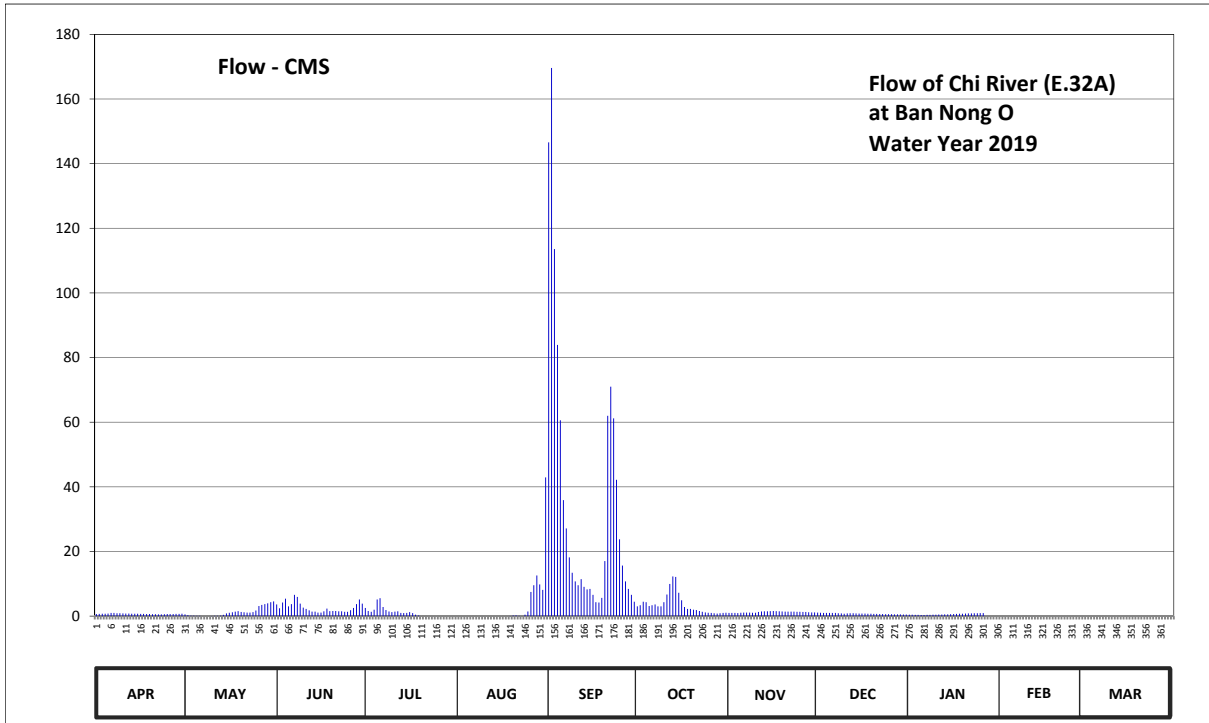
Lat 15 - 54 - 41 N Long 101 - 42 - 42 E

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
<b>Drainage Area</b>	2,867 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+198.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the measuring line.		<b>Elevation</b> +211.424 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1968 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.43	198.41	198.85	198.75	198.26	205.82	198.80	198.50	198.52	198.39	198.50	198.45	
2	198.44	198.36	198.74	198.62	198.28	206.55	198.83	198.50	198.51	198.39	198.50	198.45	
3	198.45	198.33	198.90	198.57	198.26	204.70	198.92	198.50	198.50	198.38	198.50	198.45	
4	198.45	198.33	199.00	198.70	198.27	203.58	198.91	198.49	198.50	198.38	198.50	198.45	
5	198.46	198.32	198.80	198.98	198.29	202.48	198.81	198.51	198.50	198.37	198.50	198.45	
6	198.50	198.32	198.86	199.01	198.29	201.16	198.83	198.52	198.50	198.37	198.49	198.45	
7	198.50	198.30	199.09	198.78	198.30	200.58	198.85	198.52	198.50	198.38	198.49	198.45	
8	198.48	198.30	199.04	198.68	198.30	199.94	198.80	198.52	198.48	198.38	198.49	198.45	
9	198.48	198.30	198.87	198.59	198.30	199.60	198.80	198.51	198.47	198.39	198.49	198.45	
10	198.47	198.31	198.76	198.55	198.27	199.41	198.91	198.51	198.45	198.39	198.49	198.45	
11	198.46	198.32	198.72	198.58	198.23	199.32	199.10	198.56	198.47	198.40	198.48	198.45	
12	198.46	198.32	198.66	198.60	198.23	199.46	199.35	198.59	198.48	198.40	198.48	198.45	
13	198.45	198.33	198.58	198.50	198.23	199.28	199.52	198.60	198.48	198.41	198.48	198.45	
14	198.45	198.38	198.58	198.49	198.21	199.22	199.51	198.60	198.47	198.41	198.48	198.45	
15	198.45	198.47	198.52	198.50	198.20	199.23	199.14	198.61	198.46	198.42	198.47	198.45	
16	198.44	198.51	198.52	198.55	198.21	199.09	198.96	198.62	198.46	198.43	198.47	198.45	
17	198.44	198.54	198.60	198.49	198.23	198.91	198.78	198.61	198.46	198.44	198.47	198.45	
18	198.43	198.58	198.73	198.39	198.25	198.90	198.72	198.60	198.45	198.45	198.47	198.45	
19	198.43	198.61	198.61	198.34	198.31	199.02	198.72	198.59	198.45	198.45	198.46	198.45	
20	198.42	198.56	198.62	198.29	198.34	199.86	198.70	198.58	198.44	198.46	198.46	198.45	
21	198.42	198.54	198.62	198.23	198.35	202.55	198.68	198.58	198.44	198.47	198.46	198.45	
22	198.41	198.52	198.60	198.23	198.32	203.00	198.62	198.58	198.43	198.47	198.46	198.45	
23	198.41	198.52	198.60	198.24	198.30	202.51	198.57	198.58	198.43	198.48	198.45	198.45	
24	198.42	198.55	198.57	198.23	198.39	201.51	198.53	198.57	198.42	198.48	198.45	198.45	
25	198.43	198.65	198.57	198.21	198.59	200.34	198.51	198.57	198.42	198.49	198.45	198.45	
26	198.43	198.81	198.67	198.20	199.16	199.76	198.50	198.56	198.42	198.49	198.45	198.45	
27	198.43	198.84	198.75	198.20	199.32	199.41	198.48	198.56	198.41	198.50	198.45	198.45	
28	198.44	198.86	198.86	198.20	199.54	199.23	198.46	198.54	198.41	198.50	198.45	198.45	
29	198.44	198.88	198.98	198.20	199.34	199.09	198.48	198.53	198.41	198.51	198.45	198.45	
30	198.45	198.91	198.87	198.21	199.21	198.92	198.50	198.53	198.40	198.51	198.45	198.45	
31		198.93		198.23	201.55		198.51		198.40	198.50		198.45	
Mean	198.45	198.51	198.74	198.46	198.56	200.75	198.80	198.55	198.46	198.44	198.47	198.45	
Max	198.50	198.93	199.09	199.01	201.55	206.55	199.52	198.62	198.52	198.51	198.50	198.45	206.55
Min	198.41	198.30	198.52	198.20	198.20	198.90	198.46	198.49	198.40	198.37	198.45	198.45	198.20
Annual Max Momentary Gage Height	206.93		m. (MSL.) ,				at 06.00 Hours, on Sep 2, 2019						
Zero Gage at Bottom Elevation	198.00		m. (MSL.) ,			River Bed	197.50	m. (MSL.)					
Left Bank Elevation		211.15		m. (MSL.) ,									
Right Bank Elevation		211.20		m. (MSL.) ,		Drainage Are	2,867	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.65	0.55	3.60	2.50	0.00	146.60	3.00	1.00	1.10	0.45	0.00	0.00	
2	0.70	0.30	2.40	1.60	0.00	169.60	3.36	1.00	1.05	0.45	0.00	0.00	
3	0.75	0.15	4.20	1.35	0.00	113.60	4.44	1.00	1.00	0.40	0.00	0.00	
4	0.75	0.15	5.40	2.00	0.00	83.92	4.32	0.95	1.00	0.40	0.00	0.00	
5	0.80	0.10	3.00	5.16	0.00	60.60	3.12	1.05	1.00	0.35	0.00	0.00	
6	1.00	0.10	3.72	5.53	0.00	35.88	3.36	1.10	1.00	0.35	0.00	0.00	
7	1.00	0.00	6.57	2.80	0.00	27.12	3.60	1.10	1.00	0.40	0.00	0.00	
8	0.90	0.00	5.92	1.90	0.00	18.16	3.00	1.10	0.90	0.40	0.00	0.00	
9	0.90	0.00	3.84	1.45	0.00	13.40	3.00	1.05	0.85	0.45	0.00	0.00	
10	0.85	0.05	2.60	1.25	0.00	10.74	4.32	1.05	0.75	0.45	0.00	0.00	
11	0.80	0.10	2.20	1.40	0.00	9.56	6.70	1.30	0.85	0.50	0.00	0.00	
12	0.80	0.10	1.80	1.50	0.00	11.44	9.95	1.45	0.90	0.50	0.00	0.00	
13	0.75	0.15	1.40	1.00	0.00	9.04	12.28	1.50	0.90	0.55	0.00	0.00	
14	0.75	0.40	1.40	0.95	0.00	8.26	12.14	1.50	0.85	0.55	0.00	0.00	
15	0.75	0.85	1.10	1.00	0.00	8.39	7.22	1.55	0.80	0.60	0.00	0.00	
16	0.70	1.05	1.10	1.25	0.00	6.57	4.92	1.60	0.80	0.65	0.00	0.00	
17	0.70	1.20	1.50	0.95	0.00	4.32	2.80	1.55	0.80	0.70	0.00	0.00	
18	0.65	1.40	2.30	0.45	0.00	4.20	2.20	1.50	0.75	0.75	0.00	0.00	
19	0.65	1.55	1.55	0.20	0.05	5.66	2.20	1.45	0.75	0.75	0.00	0.00	
20	0.60	1.30	1.60	0.00	0.20	17.04	2.00	1.40	0.70	0.80	0.00	0.00	
21	0.60	1.20	1.60	0.00	0.25	62.00	1.90	1.40	0.70	0.85	0.00	0.00	
22	0.55	1.10	1.50	0.00	0.10	71.00	1.60	1.40	0.65	0.85	0.00	0.00	
23	0.55	1.10	1.50	0.00	0.00	61.20	1.35	1.40	0.65	0.90	0.00	0.00	
24	0.60	1.25	1.35	0.00	0.45	42.18	1.15	1.35	0.60	0.90	0.00	0.00	
25	0.65	1.75	1.35	0.00	1.45	23.76	1.05	1.35	0.60	0.95	0.00	0.00	
26	0.65	3.12	1.85	0.00	7.48	15.64	1.00	1.30	0.60	0.95	0.00	0.00	
27	0.65	3.48	2.50	0.00	9.56	10.74	0.90	1.30	0.55	0.00	0.00	0.00	
28	0.70	3.72	3.72	0.00	12.56	8.39	0.80	1.20	0.55	0.00	0.00	0.00	
29	0.70	3.96	5.16	0.00	9.82	6.57	0.90	1.15	0.55	0.00	0.00	0.00	
30	0.75	4.32	3.84	0.00	8.13	4.44	1.00	1.15	0.50	0.00	0.00	0.00	
31		4.56		0.00	42.90		1.05		0.50	0.00		0.00	
<b>Total</b>	21.85	39.06	81.57	34.24	92.95	1070.02	110.63	38.20	24.20	15.85	0.00	0.00	1528.57 CMSDAY
<b>Mean</b>	0.73	1.26	2.72	1.10	3.00	35.67	3.57	1.27	0.78	0.51	0.00	0.00	4.18 CMS
<b>Max</b>	1.00	4.56	6.57	5.53	42.90	169.60	12.28	1.60	1.10	0.95	0.00	0.00	169.60 CMS
<b>Min</b>	0.55	0.00	1.10	0.00	0.00	4.20	0.80	0.95	0.50	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.89	3.37	7.05	2.96	8.03	92.45	9.56	3.30	2.09	1.37	0.00	0.00	132.07 MCM
<b>Momentary Peak</b>	181.76	CMS, at 206.93 m. (MSL.), at 06.00 Hours, on Sep 2, 2019											
<b>Runoff Yield</b>	1.46	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		63.40	Liters/Second/Square KM.						



**WATER YEAR : 2019****CHI RIVER BASIN**

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

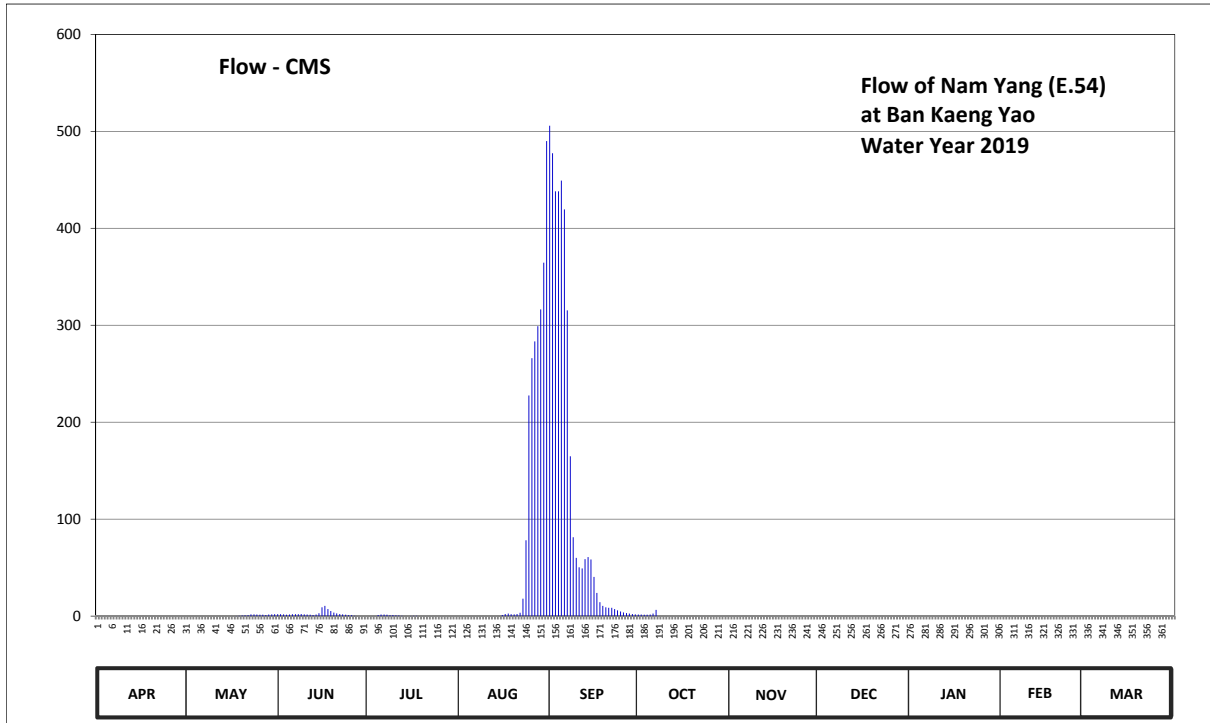
Lat 16 - 26 - 28 N Long 104 - 02 - 05 E

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

	<b>Ban Kaeng Yao</b>	<b>Amphoe Kuchinarai</b>	<b>Changwat Kalasin</b>
<b>Drainage Area</b>	1,548 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+138.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+149.988 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1969 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1969 - 1977 , 1983 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1969 - 1977 , 1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +143.350 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.26	140.23	140.40	140.25	140.23	147.42	140.38	140.36	140.32	140.30	140.22	140.16	
2	140.26	140.23	140.40	140.20	140.23	147.17	140.38	140.36	140.32	140.30	140.22	140.10	
3	140.27	140.24	140.39	140.17	140.24	146.82	140.37	140.36	140.32	140.30	140.22	140.04	
4	140.27	140.24	140.37	140.28	140.25	146.82	140.37	140.36	140.32	140.29	140.22	139.98	
5	140.28	140.24	140.38	140.36	140.24	146.92	140.38	140.36	140.32	140.29	140.22	139.98	
6	140.28	140.25	140.40	140.38	140.22	146.65	140.43	140.36	140.32	140.29	140.21	139.99	
7	140.28	140.25	140.40	140.38	140.23	145.65	140.56	140.36	140.32	140.29	140.21	139.99	
8	140.27	140.25	140.40	140.37	140.22	143.84	140.53	140.35	140.32	140.29	140.21	139.99	
9	140.27	140.26	140.41	140.35	140.22	142.26	140.49	140.35	140.32	140.28	140.21	139.99	
10	140.27	140.25	140.39	140.36	140.26	141.51	140.46	140.35	140.32	140.28	140.21	139.99	
11	140.26	140.25	140.38	140.34	140.27	141.13	140.43	140.35	140.31	140.28	140.20	140.00	
12	140.26	140.26	140.37	140.33	140.27	141.12	140.43	140.35	140.31	140.28	140.20	140.00	
13	140.25	140.26	140.36	140.32	140.28	141.36	140.41	140.35	140.31	140.28	140.20	140.00	
14	140.25	140.27	140.38	140.30	140.29	141.59	140.39	140.34	140.31	140.27	140.20	140.00	
15	140.25	140.28	140.45	140.30	140.30	141.28	140.38	140.34	140.31	140.27	140.20	140.00	
16	140.25	140.29	140.62	140.31	140.36	141.04	140.38	140.34	140.31	140.27	140.19	140.00	
17	140.26	140.30	140.65	140.32	140.41	140.85	140.38	140.34	140.31	140.27	140.19	140.00	
18	140.26	140.31	140.58	140.32	140.43	140.72	140.38	140.34	140.31	140.26	140.19	140.00	
19	140.27	140.32	140.53	140.29	140.40	140.65	140.37	140.34	140.31	140.26	140.19	139.99	
20	140.27	140.33	140.48	140.22	140.39	140.62	140.37	140.34	140.31	140.26	140.19	139.99	
21	140.28	140.34	140.44	140.17	140.41	140.61	140.37	140.33	140.30	140.25	140.18	139.99	
22	140.28	140.35	140.41	140.16	140.47	140.61	140.37	140.33	140.30	140.25	140.18	139.99	
23	140.27	140.39	140.39	140.17	140.77	140.58	140.36	140.33	140.30	140.25	140.18	139.99	
24	140.27	140.39	140.37	140.19	142.18	140.55	140.36	140.33	140.30	140.25	140.18	139.98	
25	140.26	140.38	140.35	140.21	144.67	140.52	140.36	140.33	140.30	140.24	140.18	139.98	
26	140.26	140.37	140.35	140.24	145.13	140.49	140.36	140.33	140.30	140.24	140.17	139.98	
27	140.25	140.37	140.32	140.26	145.32	140.46	140.36	140.33	140.30	140.24	140.17	139.98	
28	140.25	140.36	140.30	140.27	145.49	140.43	140.36	140.33	140.30	140.23	140.17	139.98	
29	140.24	140.38	140.29	140.26	145.66	140.41	140.36	140.32	140.30	140.23	140.17	139.97	
30	140.23	140.39	140.28	140.28	146.13	140.39	140.36	140.32	140.30	140.23	140.17	139.97	
31		140.40		140.28	147.28		140.36		140.30	140.22		139.97	
Mean	140.26	140.30	140.41	140.28	141.59	142.35	140.40	140.34	140.31	140.27	140.20	140.00	
Max	140.28	140.40	140.65	140.38	147.28	147.42	140.56	140.36	140.32	140.30	140.22	140.16	147.42
Min	140.23	140.23	140.28	140.16	140.22	140.39	140.36	140.32	140.30	140.22	140.17	139.97	139.97
Annual Max Momentary Gage Height	147.48		m. (MSL.) ,			at 06.00 Hours, on Sep 1, 2019							
Zero Gage at Bottom Elevation	138.30		m. (MSL.) ,			River Bed	138.70	m. (MSL.)					
Left Bank Elevation		143.34		m. (MSL.) ,									
Right Bank Elevation		146.29		m. (MSL.) ,		Drainage Are	1,548	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.00	0.00	0.00	505.88	1.60	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	2.00	0.00	0.00	477.38	1.60	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.80	0.00	0.00	438.20	1.40	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	1.40	0.00	0.00	438.20	1.40	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	1.60	1.20	0.00	449.20	1.60	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	2.00	1.60	0.00	419.50	2.60	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	2.00	1.60	0.00	315.30	6.40	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	2.00	1.40	0.00	164.80	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	2.20	1.00	0.00	81.40	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.80	1.20	0.00	60.10	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.60	0.80	0.00	50.30	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	1.40	0.60	0.00	49.20	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.20	0.40	0.00	58.80	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	1.60	0.00	0.00	60.90	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	3.00	0.00	0.00	58.40	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	9.00	0.20	1.20	40.40	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	10.50	0.40	2.20	24.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.20	7.20	0.40	2.60	14.40	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.40	5.20	0.00	2.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.60	3.60	0.00	1.80	9.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.80	2.80	0.00	2.20	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	1.00	2.20	0.00	3.40	8.50	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	1.80	1.80	0.00	17.90	7.20	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	1.80	1.40	0.00	78.20	6.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	1.60	1.00	0.00	227.60	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.40	1.00	0.00	265.96	3.80	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.40	0.40	0.00	283.44	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	1.20	0.00	0.00	299.08	2.60	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	1.60	0.00	0.00	316.32	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.80	0.00	0.00	364.52	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	2.00	0.00	0.00	489.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	17.60	73.70	10.80	2358.34	3774.46	16.60	0.00	0.00	0.00	0.00	0.00	6251.50 CMSDAY
<b>Mean</b>	0.00	0.57	2.46	0.35	76.08	125.82	0.54	0.00	0.00	0.00	0.00	0.00	17.08 CMS
<b>Max</b>	0.00	2.00	10.50	1.60	489.92	505.88	6.40	0.00	0.00	0.00	0.00	0.00	505.88 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	1.52	6.37	0.93	203.76	326.11	1.43	0.00	0.00	0.00	0.00	0.00	540.13 MCM
<b>Momentary Peak</b>	512.72	CMS, at 147.48 m. (MSL.), at 06.00 Hours, on Sep 1, 2019											
<b>Runoff Yield</b>	11.06	Liters/Second/Square KM. Momentary Peak Yield 331.21 Liters/Second/Square KM.											

## WATER YEAR : 2019

## CHI RIVER BASIN

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

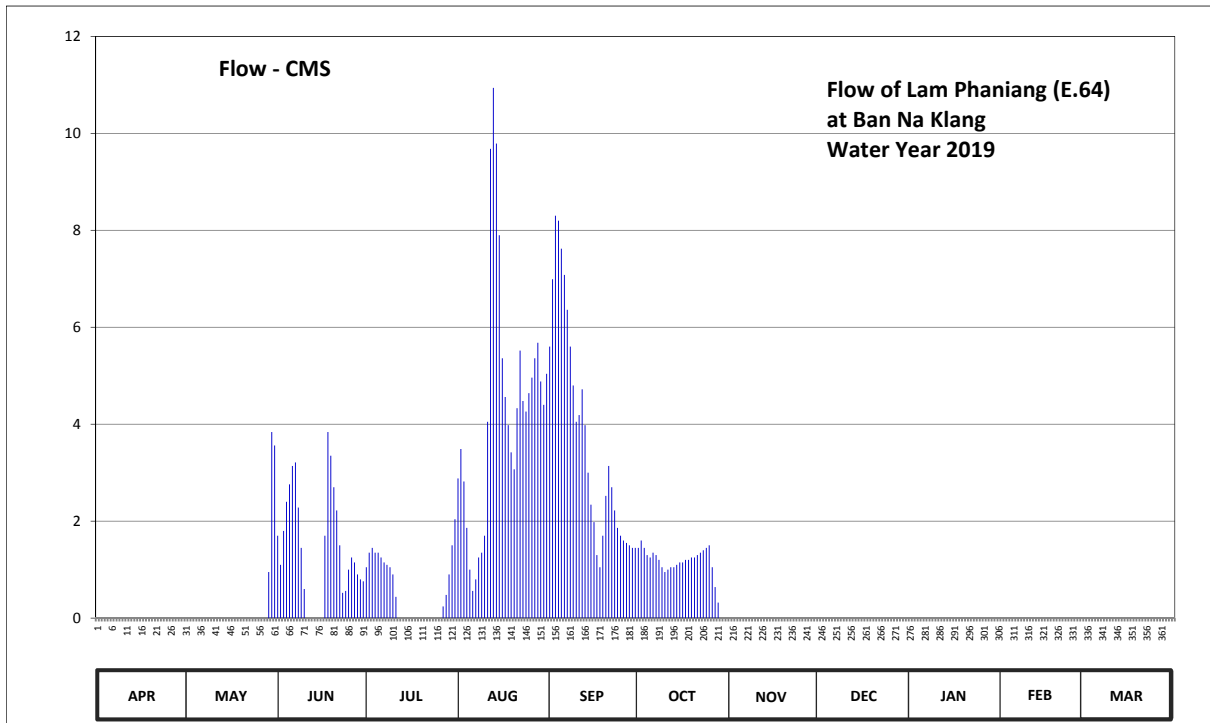
Lat 17 - 19 - 16 N Long 102 - 05 - 32 E

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

	<b>Ban Na Klang</b>	<b>Amphoe Na Wang</b>	<b>Changwat Nong Bua Lamphu</b>
<b>Drainage Area</b>	362 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+254.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+261.680 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 - 1980 , 1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1979 - 1980 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.68	256.89	257.48	257.35	257.68	258.05	257.43	257.05	256.87	256.61	256.38	256.38	
2	256.69	256.89	257.36	257.41	257.77	258.21	257.46	257.04	256.87	256.60	256.36	256.38	
3	256.70	256.89	257.50	257.43	257.67	258.35	257.43	257.03	256.86	256.60	256.34	256.39	
4	256.71	256.89	257.60	257.41	257.51	258.34	257.40	257.02	256.85	256.59	256.32	256.39	
5	256.73	256.89	257.66	257.41	257.34	258.28	257.39	257.01	256.84	256.58	256.30	256.40	
6	256.74	256.89	257.72	257.39	257.24	258.22	257.41	257.00	256.83	256.57	256.28	256.40	
7	256.75	256.89	257.73	257.37	257.30	258.14	257.40	257.00	256.82	256.56	256.27	256.41	
8	256.77	256.89	257.58	257.36	257.39	258.05	257.38	256.99	256.81	256.55	256.25	256.42	
9	256.78	256.89	257.43	257.35	257.41	257.95	257.35	256.98	256.80	256.54	256.23	256.43	
10	256.80	256.89	257.25	257.32	257.48	257.85	257.33	256.98	256.78	256.52	256.21	256.44	
11	256.81	256.90	257.08	257.21	257.85	257.87	257.34	256.97	256.76	256.50	256.20	256.45	
12	256.82	256.90	257.02	257.10	258.48	257.94	257.35	256.96	256.74	256.49	256.18	256.46	
13	256.84	256.90	257.00	257.02	258.58	257.84	257.35	256.95	256.72	256.48	256.16	256.47	
14	256.85	256.90	256.97	256.97	258.49	257.70	257.36	256.94	256.71	256.47	256.15	256.48	
15	256.86	256.90	256.93	256.91	258.31	257.59	257.37	256.93	256.70	256.46	256.13	256.49	
16	256.87	256.90	257.05	256.88	258.02	257.53	257.37	256.92	256.69	256.45	256.11	256.49	
17	256.88	256.90	257.48	256.87	257.92	257.40	257.38	256.92	256.68	256.44	256.10	256.50	
18	256.89	256.90	257.82	256.87	257.84	257.35	257.38	256.91	256.67	256.43	256.08	256.50	
19	256.90	256.90	257.75	256.87	257.76	257.48	257.39	256.91	256.66	256.43	256.06	256.51	
20	256.91	256.90	257.65	256.86	257.71	257.62	257.39	256.90	256.65	256.42	256.04	256.52	
21	256.92	256.90	257.57	256.87	257.89	257.72	257.40	256.90	256.64	256.42	256.03	256.53	
22	256.94	256.90	257.44	256.87	258.04	257.65	257.41	256.89	256.63	256.41	256.01	256.54	
23	256.96	256.91	257.23	256.89	257.91	257.57	257.42	256.89	256.62	256.41	255.99	256.54	
24	256.98	256.91	257.24	256.96	257.88	257.51	257.43	256.89	256.62	256.40	255.98	256.55	
25	256.97	256.91	257.34	257.02	257.93	257.48	257.44	256.89	256.62	256.40	255.96	256.55	
26	256.96	256.91	257.39	257.09	257.97	257.46	257.35	256.89	256.62	256.40	255.94	256.55	
27	256.95	256.91	257.37	257.16	258.02	257.45	257.26	256.89	256.62	256.39	255.93	256.55	
28	256.94	257.00	257.32	257.22	258.06	257.44	257.18	256.88	256.61	256.39	255.93	256.54	
29	256.90	257.33	257.30	257.32	257.96	257.43	257.10	256.88	256.61	256.39	255.93	256.54	
30	256.89	257.82	257.29	257.44	257.90	257.43	257.05	256.88	256.61	256.38	256.38	256.54	
31		257.78		257.54	257.98		257.05		256.61	256.38		256.54	
Mean	256.85	256.97	257.38	257.15	257.85	257.76	257.35	256.94	256.71	256.47	256.13	256.48	
Max	256.98	257.82	257.82	257.54	258.58	258.35	257.46	257.05	256.87	256.61	256.38	256.55	258.58
Min	256.68	256.89	256.93	256.86	257.24	257.35	257.05	256.88	256.61	256.38	255.93	256.38	255.93
Annual Max Momentary Gage Height	258.60		m. (MSL.) ,			at 06.00 Hours, on Aug 13, 2019							
Zero Gage at Bottom Elevation	254.50		m. (MSL.) ,			River Bed	254.36	m. (MSL.)					
Left Bank Elevation	258.81		m. (MSL.) ,										
Right Bank Elevation	259.31		m. (MSL.) ,			Drainage Area	362	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.70	1.05	2.88	5.60	1.45	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.10	1.35	3.49	6.99	1.60	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.80	1.45	2.82	8.30	1.45	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.40	1.35	1.86	8.20	1.30	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	2.76	1.35	1.00	7.62	1.25	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	3.14	1.25	0.56	7.08	1.35	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	3.21	1.15	0.80	6.36	1.30	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	2.28	1.10	1.25	5.60	1.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	1.45	1.05	1.35	4.80	1.05	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.60	0.90	1.70	4.05	0.95	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.44	4.05	4.19	1.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	9.68	4.72	1.05	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	10.94	3.98	1.05	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	9.79	3.00	1.10	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	7.90	2.34	1.15	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	5.36	1.98	1.15	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.70	0.00	4.56	1.30	1.20	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	3.84	0.00	3.98	1.05	1.20	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	3.35	0.00	3.42	1.70	1.25	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	2.70	0.00	3.07	2.52	1.25	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.22	0.00	4.33	3.14	1.30	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.50	0.00	5.52	2.70	1.35	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.52	0.00	4.48	2.22	1.40	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.56	0.00	4.26	1.86	1.45	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.00	0.00	4.64	1.70	1.50	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	1.25	0.00	4.96	1.60	1.05	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.15	0.24	5.36	1.55	0.64	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.90	0.48	5.68	1.50	0.32	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.95	0.80	0.90	4.88	1.45	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	3.84	0.76	1.50	4.40	1.45	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	3.56	0.00	2.04	5.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	8.35	42.69	17.60	134.01	110.55	33.31	0.00	0.00	0.00	0.00	0.00	346.51 CMSDAY
<b>Mean</b>	0.00	0.27	1.42	0.57	4.32	3.69	1.07	0.00	0.00	0.00	0.00	0.00	0.95 CMS
<b>Max</b>	0.00	3.84	3.84	2.04	10.94	8.30	1.60	0.00	0.00	0.00	0.00	0.00	10.94 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.56	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.72	3.69	1.52	11.58	9.55	2.88	0.00	0.00	0.00	0.00	0.00	29.94 MCM
<b>Momentary Peak</b>	11.20	CMS, at 258.60 m. (MSL.), at 06.00 Hours, on Aug 13, 2019											
<b>Runoff Yield</b>	2.62	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		30.94	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

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

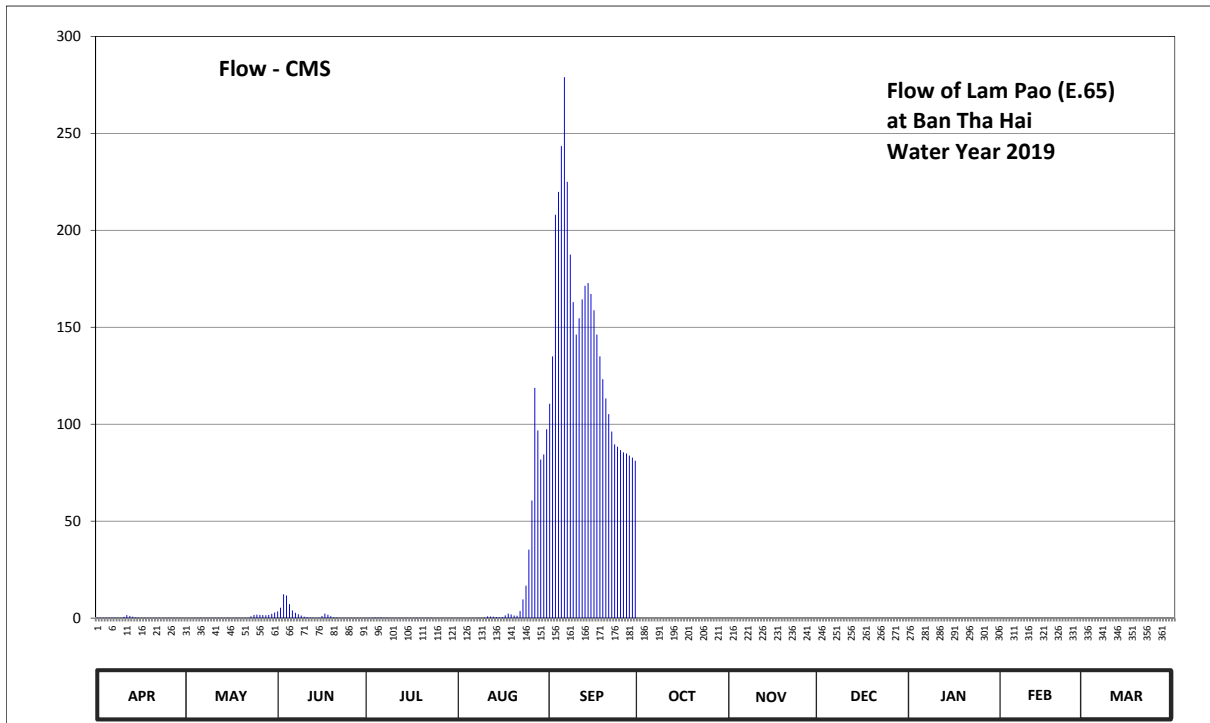
Lat 16 - 57 - 02 N Long 103 - 10 - 16 E

Location : on left bank at the bridge on highway.

	<b>Ban Tha Hai</b>	<b>Amphoe Si That</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	2,149 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+159.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+169.494 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1983 to date.		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date.		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1983 to date.		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +166.060 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records fair. Flow effected by Lam Pao Dam. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.23	159.98	161.34	160.15	159.99	165.04	164.59	164.12	163.97	163.39	162.63	161.62	
2	160.23	159.99	161.58	160.17	160.00	165.30	164.58	164.10	163.96	163.36	162.61	161.60	
3	160.23	160.01	162.15	160.22	159.98	165.78	164.58	164.09	163.96	163.34	162.58	161.58	
4	160.23	160.04	162.11	160.25	159.97	165.83	164.57	164.08	163.95	163.32	162.54	161.56	
5	160.23	160.06	161.77	160.27	159.95	165.92	164.57	164.07	163.94	163.30	162.50	161.54	
6	160.24	160.08	161.42	160.25	159.95	166.04	164.56	164.07	163.93	163.27	162.47	161.49	
7	160.24	160.07	161.18	160.24	159.97	165.85	164.54	164.06	163.92	163.25	162.43	161.43	
8	160.24	160.08	161.00	160.21	160.07	165.67	164.52	164.06	163.91	163.23	162.39	161.40	
9	160.24	160.10	160.72	160.17	160.12	165.50	164.51	164.06	163.91	163.21	162.34	161.37	
10	160.43	160.12	160.48	160.15	160.27	165.38	164.50	164.06	163.90	163.19	162.29	161.34	
11	160.81	160.13	160.33	160.14	160.56	165.44	164.48	164.05	163.89	163.16	162.25	161.31	
12	160.65	160.12	160.25	160.12	160.52	165.51	164.47	164.05	163.88	163.14	162.21	161.27	
13	160.48	160.10	160.21	160.10	160.47	165.56	164.45	164.05	163.87	163.12	162.17	161.23	
14	160.32	160.09	160.19	160.09	160.38	165.57	164.43	164.04	163.85	163.09	162.13	161.19	
15	160.21	160.11	160.24	160.09	160.32	165.53	164.41	164.04	163.83	163.07	162.09	161.16	
16	160.17	160.11	160.63	160.08	160.40	165.47	164.40	164.04	163.81	163.04	162.06	161.12	
17	160.17	160.11	161.08	160.08	160.76	165.38	164.38	164.04	163.78	163.01	162.03	161.09	
18	160.16	160.10	160.88	160.07	161.08	165.30	164.37	164.03	163.76	162.98	161.99	161.06	
19	160.15	160.10	160.58	160.07	160.97	165.18	164.36	164.03	163.73	162.95	161.94	161.03	
20	160.14	160.09	160.36	160.08	160.71	165.07	164.34	164.02	163.71	162.92	161.90	160.99	
21	160.12	160.08	160.25	160.09	160.69	164.98	164.32	164.02	163.68	162.89	161.87	160.95	
22	160.10	160.16	160.18	160.07	161.37	164.87	164.30	164.02	163.65	162.86	161.84	160.90	
23	160.08	160.57	160.12	160.04	161.97	164.76	164.29	164.01	163.63	162.83	161.81	160.85	
24	160.06	160.87	160.07	160.01	162.45	164.74	164.28	164.01	163.60	162.81	161.79	160.81	
25	160.04	160.94	160.03	159.99	163.37	164.71	164.26	164.00	163.57	162.78	161.77	160.77	
26	160.04	160.85	160.06	159.96	164.18	164.69	164.23	164.00	163.55	162.75	161.74	160.73	
27	160.04	160.81	160.13	159.94	165.13	164.68	164.20	163.99	163.52	162.73	161.72	160.69	
28	160.03	160.80	160.15	159.93	164.88	164.66	164.18	163.99	163.49	162.71	161.68	160.65	
29	160.03	160.85	160.15	159.93	164.62	164.64	164.16	163.98	163.47	162.68	161.65	160.61	
30	160.02	161.05	160.19	159.95	164.67	164.61	164.14	163.98	163.44	162.66	161.62	160.57	
31		161.21		159.98	164.89		164.12		163.41	162.65		160.53	
Mean	160.21	160.32	160.66	160.09	161.44	165.26	164.39	164.04	163.76	163.02	162.12	161.11	
Max	160.81	161.21	162.15	160.27	165.13	166.04	164.59	164.12	163.97	163.39	162.63	161.62	166.04
Min	160.02	159.98	160.03	159.93	159.95	164.61	164.12	163.98	163.41	162.65	161.65	160.53	159.93
Annual Max Momentary Gage Height	166.10		m. (MSL.) ,				at 06.00 Hours, on Sep 6, 2019						
Zero Gage at Bottom Elevation	159.00		m. (MSL.) ,			River Bed	159.83		m. (MSL.)				
Left Bank Elevation	166.31		m. (MSL.) ,										
Right Bank Elevation	166.05		m. (MSL.) ,			Drainage Area	2,149		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.09	3.50	0.18	0.10	110.60	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.26	0.10	5.32	0.19	0.10	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.26	0.11	12.25	0.24	0.09	208.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.26	0.12	11.65	0.30	0.09	219.80	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.26	0.13	7.20	0.34	0.08	243.40	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.28	0.14	3.96	0.30	0.08	279.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.28	0.14	2.72	0.28	0.09	225.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.28	0.14	2.00	0.22	0.14	187.50	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.28	0.15	1.30	0.19	0.16	163.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.66	0.16	0.76	0.18	0.34	146.20	0.00	0.00	0.00	0.00	0.00	0.00	
11	1.53	0.17	0.46	0.17	0.92	154.60	0.00	0.00	0.00	0.00	0.00	0.00	
12	1.13	0.16	0.30	0.16	0.84	164.40	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.76	0.15	0.22	0.15	0.74	171.40	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.44	0.15	0.20	0.15	0.56	172.80	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.22	0.16	0.28	0.15	0.44	167.20	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.19	0.16	1.08	0.14	0.60	158.80	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.19	0.16	2.32	0.14	1.40	146.20	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.18	0.15	1.70	0.14	2.32	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.18	0.15	0.96	0.14	1.93	123.20	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.17	0.15	0.52	0.14	1.28	113.30	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.16	0.14	0.30	0.15	1.23	105.20	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.15	0.18	0.19	0.14	3.65	96.20	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.14	0.94	0.16	0.12	9.63	89.60	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.13	1.68	0.14	0.11	16.75	88.40	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.12	1.85	0.12	0.10	35.31	86.60	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.12	1.63	0.13	0.08	60.68	85.47	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.12	1.53	0.17	0.07	118.70	84.93	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.12	1.50	0.18	0.07	96.80	83.87	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.12	1.63	0.18	0.07	81.73	82.80	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.11	2.20	0.20	0.08	84.40	81.20	0.00	0.00	0.00	0.00	0.00	0.00	
31		2.85		0.09	97.40		0.00	0.00	0.00	0.00	0.00	0.00	
Total	9.36	18.97	60.47	4.98	618.58	4308.67	0.00	0.00	0.00	0.00	0.00	0.00	5021.03 CMSDAY
Mean	0.31	0.61	2.02	0.16	19.95	143.62	0.00	0.00	0.00	0.00	0.00	0.00	13.72 CMS
Max	1.53	2.85	12.25	0.34	118.70	279.00	0.00	0.00	0.00	0.00	0.00	0.00	279.00 CMS
Min	0.11	0.09	0.12	0.07	0.08	81.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.81	1.64	5.22	0.43	53.45	372.27	0.00	0.00	0.00	0.00	0.00	0.00	433.82 MCM
Momentary Peak	300.00	CMS, at 166.10 m. (MSL.), at 06.00 Hours, on Sep 6, 2019											
Runoff Yield	6.40	Liters/Second/Square KM.		Momentary Peak Yield		139.60	Liters/Second/Square KM.						

**WATER YEAR : 2019****CHI RIVER BASIN**

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

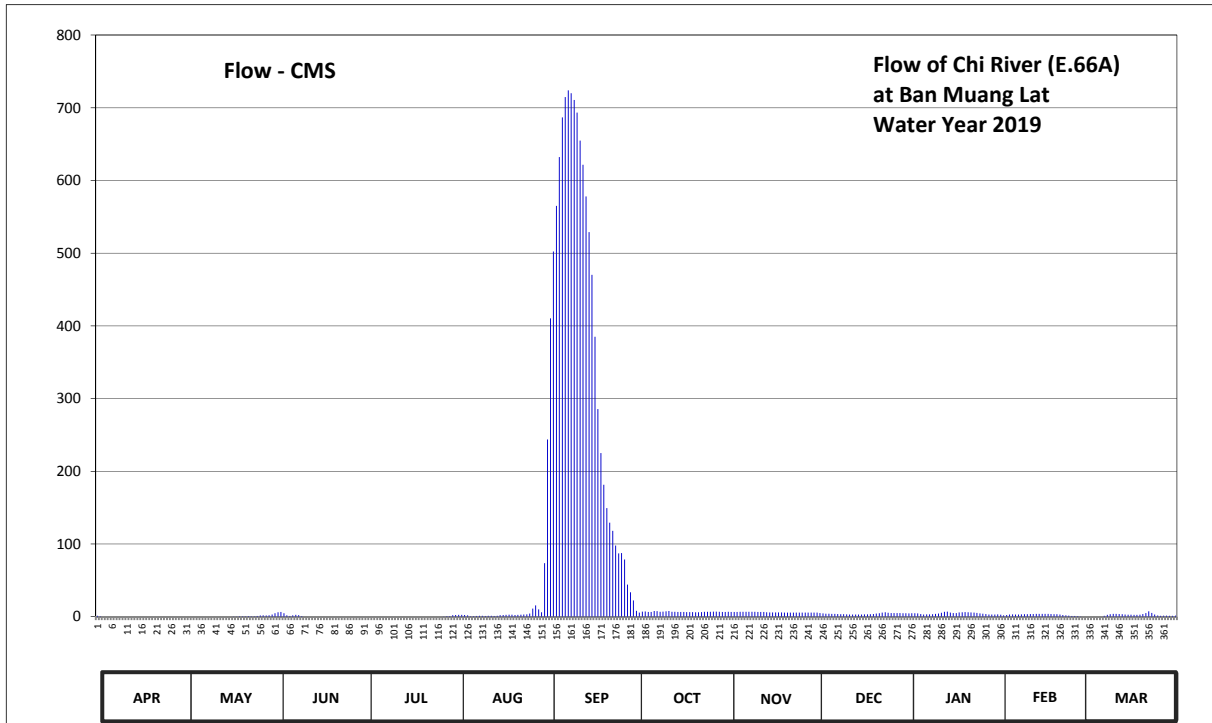
Lat 16 - 12 - 08 N Long 103 - 31 - 41 E

Location : on right bank at the bridge.

	<b>Ban Muang Lat</b>	<b>Amphoe Chang Han</b>	<b>Changwat Roi Et</b>
<b>Drainage Area</b>	31,879 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+126.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+143.058 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.23	129.80	131.11	129.23	130.49	136.46	131.06	131.15	130.99	130.94	130.35	129.94	
2	130.10	129.79	131.14	129.22	130.50	137.26	131.19	131.15	130.91	130.94	130.46	129.89	
3	129.92	129.85	130.94	129.24	130.48	137.77	131.21	131.15	130.83	130.88	130.57	129.82	
4	129.79	129.92	130.39	129.25	130.35	138.28	131.15	131.16	130.80	130.73	130.62	129.79	
5	129.67	129.92	130.19	129.20	130.11	138.69	131.14	131.16	130.78	130.59	130.61	129.85	
6	129.68	129.92	130.38	129.20	130.16	138.90	131.24	131.17	130.75	130.63	130.61	130.02	
7	129.80	129.91	130.50	129.19	130.21	138.97	131.23	131.18	130.73	130.64	130.63	130.25	
8	129.84	129.91	130.41	129.17	130.23	138.94	131.18	131.17	130.70	130.67	130.66	130.50	
9	129.88	129.92	130.13	129.12	130.22	138.87	131.19	131.16	130.68	130.75	130.68	130.68	
10	129.90	129.92	129.75	129.07	130.21	138.74	131.22	131.14	130.64	130.87	130.71	130.75	
11	129.88	129.95	129.56	129.04	130.25	138.45	131.24	131.15	130.61	131.03	130.72	130.77	
12	129.88	129.96	129.55	129.01	130.24	138.20	131.16	131.14	130.58	131.17	130.75	130.74	
13	129.89	129.94	129.55	129.00	130.21	137.87	131.16	131.11	130.58	131.19	130.76	130.68	
14	129.91	129.96	129.55	128.99	130.26	137.49	131.14	131.09	130.59	131.06	130.76	130.60	
15	129.94	130.00	129.59	128.97	130.41	136.98	131.14	131.09	130.61	130.97	130.75	130.54	
16	129.93	130.03	129.62	129.03	130.48	136.24	131.14	131.09	130.64	131.00	130.75	130.53	
17	129.92	130.05	129.67	129.16	130.50	135.35	131.13	131.08	130.64	131.08	130.73	130.50	
18	129.91	130.08	129.77	129.30	130.55	134.67	131.12	131.08	130.68	131.11	130.70	130.49	
19	129.90	130.09	129.84	129.45	130.53	134.13	131.12	131.07	130.74	131.12	130.67	130.56	
20	129.89	130.10	129.87	129.56	130.45	133.65	131.11	131.06	130.84	131.10	130.60	130.74	
21	129.87	130.12	129.75	129.48	130.51	133.31	131.11	131.07	130.95	131.09	130.48	130.99	
22	129.86	130.14	129.59	129.34	130.53	133.11	131.13	131.06	131.05	131.06	130.38	131.22	
23	129.86	130.11	129.44	129.41	130.59	132.67	131.16	131.05	131.10	131.01	130.28	131.02	
24	129.85	130.11	129.34	129.60	130.65	132.40	131.17	131.05	131.04	130.91	130.18	130.58	
25	129.84	130.19	129.33	129.77	130.84	132.41	131.16	131.05	131.00	130.82	130.18	130.32	
26	129.84	130.31	129.33	129.90	131.37	132.19	131.19	131.06	130.98	130.72	130.16	130.24	
27	129.83	130.36	129.32	130.05	131.49	131.90	131.19	131.07	131.00	130.61	130.06	130.29	
28	129.83	130.33	129.30	130.13	131.33	131.75	131.17	131.07	130.99	130.58	130.01	130.30	
29	129.83	130.37	129.30	130.17	131.10	131.59	131.15	131.07	130.96	130.61	129.98	130.26	
30	129.81	130.58	129.25	130.41	132.15	131.25	131.15	131.06	130.93	130.63		130.25	
31		130.96		130.45	134.90		131.16		130.92	130.53		130.28	
Mean	129.88	130.08	129.85	129.42	130.72	135.62	131.16	131.11	130.81	130.87	130.51	130.43	
Max	130.23	130.96	131.14	130.45	134.90	138.97	131.24	131.18	131.10	131.19	130.76	131.22	138.97
Min	129.67	129.79	129.25	128.97	130.11	131.25	131.06	131.05	130.58	130.53	129.98	129.79	128.97
Annual Max Momentary Gage Height	138.97		m. (MSL.) ,			at 05.00 Hours, on Sep 7, 2019							
Zero Gage at Bottom Elevation	126.90		m. (MSL.) ,			River Bed	127.29	m. (MSL.)					
Left Bank Elevation		140.23		m. (MSL.) ,									
Right Bank Elevation		140.43		m. (MSL.) ,		Drainage Are	31,879	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	0.00	6.10	0.00	2.45	410.40	5.60	6.50	4.95	4.70	1.75	0.00	
2	0.50	0.00	6.40	0.00	2.50	502.40	6.90	6.50	4.55	4.70	2.30	0.00	
3	0.00	0.00	4.70	0.00	2.40	565.10	7.20	6.50	4.15	4.40	2.85	0.00	
4	0.00	0.00	1.95	0.00	1.75	632.24	6.50	6.60	4.00	3.65	3.10	0.00	
5	0.00	0.00	0.95	0.00	0.55	686.77	6.40	6.60	3.90	2.95	3.05	0.00	
6	0.00	0.00	1.90	0.00	0.80	714.70	7.80	6.70	3.75	3.15	3.05	0.10	
7	0.00	0.00	2.50	0.00	1.05	724.01	7.60	6.80	3.65	3.20	3.15	1.25	
8	0.00	0.00	2.05	0.00	1.15	720.02	6.80	6.70	3.50	3.35	3.30	2.50	
9	0.00	0.00	0.65	0.00	1.10	710.71	6.90	6.60	3.40	3.75	3.40	3.40	
10	0.00	0.00	0.00	0.00	1.05	693.42	7.40	6.40	3.20	4.35	3.55	3.75	
11	0.00	0.00	0.00	0.00	1.25	654.85	7.80	6.50	3.05	5.30	3.60	3.85	
12	0.00	0.00	0.00	0.00	1.20	621.60	6.60	6.40	2.90	6.70	3.75	3.70	
13	0.00	0.00	0.00	0.00	1.05	578.10	6.60	6.10	2.90	6.90	3.80	3.40	
14	0.00	0.00	0.00	0.00	1.30	528.85	6.40	5.90	2.95	5.60	3.80	3.00	
15	0.00	0.00	0.00	0.00	2.05	470.20	6.40	5.90	3.05	4.85	3.75	2.70	
16	0.00	0.15	0.00	0.00	2.40	385.10	6.40	5.90	3.20	5.00	3.75	2.65	
17	0.00	0.25	0.00	0.00	2.50	285.60	6.30	5.80	3.20	5.80	3.65	2.50	
18	0.00	0.40	0.00	0.00	2.75	224.94	6.20	5.80	3.40	6.10	3.50	2.45	
19	0.00	0.45	0.00	0.00	2.65	181.40	6.20	5.70	3.70	6.20	3.35	2.80	
20	0.00	0.50	0.00	0.00	2.25	149.30	6.10	5.60	4.20	6.00	3.00	3.70	
21	0.00	0.60	0.00	0.00	2.55	129.36	6.10	5.70	4.75	5.90	2.40	4.95	
22	0.00	0.70	0.00	0.00	2.65	118.16	6.30	5.60	5.50	5.60	1.90	7.40	
23	0.00	0.55	0.00	0.00	2.95	97.80	6.60	5.50	6.00	5.10	1.40	5.20	
24	0.00	0.55	0.00	0.00	3.25	87.00	6.70	5.50	5.40	4.55	0.90	2.90	
25	0.00	0.95	0.00	0.00	4.20	87.40	6.60	5.50	5.00	4.10	0.90	1.60	
26	0.00	1.55	0.00	0.00	11.10	78.70	6.90	5.60	4.90	3.60	0.80	1.20	
27	0.00	1.80	0.00	0.25	15.60	44.00	6.90	5.70	5.00	3.05	0.30	1.45	
28	0.00	1.65	0.00	0.65	9.90	33.50	6.70	5.70	4.95	2.90	0.05	1.50	
29	0.00	1.85	0.00	0.85	6.00	22.30	6.50	5.70	4.80	3.05	0.00	1.30	
30	0.00	2.90	0.00	2.05	73.50	8.00	6.50	5.60	4.65	3.15		1.25	
31		4.80		2.25	243.80		6.60		4.60	2.65		1.40	
Total	1.65	19.65	27.20	6.05	409.70	11145.93	206.50	181.60	127.15	140.30	74.10	71.90	12411.73 CMSDAY
Mean	0.06	0.63	0.91	0.20	13.22	371.53	6.66	6.05	4.10	4.53	2.56	2.32	33.91 CMS
Max	1.15	4.80	6.40	2.25	243.80	724.01	7.80	6.80	6.00	6.90	3.80	7.40	724.01 CMS
Min	0.00	0.00	0.00	0.00	0.55	8.00	5.60	5.50	2.90	2.65	0.00	0.00	0.00 CMS
Runoff	0.14	1.70	2.35	0.52	35.40	963.01	17.84	15.69	10.99	12.12	6.40	6.21	1072.37 MCM
Momentary Peak	724.01	CMS, at 138.97 m. (MSL.), at 05.00 Hours, on Sep 7, 2019											
Runoff Yield	1.07	Liters/Second/Square KM. Momentary Peak Yield 22.71 Liters/Second/Square KM.											



## WATER YEAR : 2019

## CHI RIVER BASIN

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

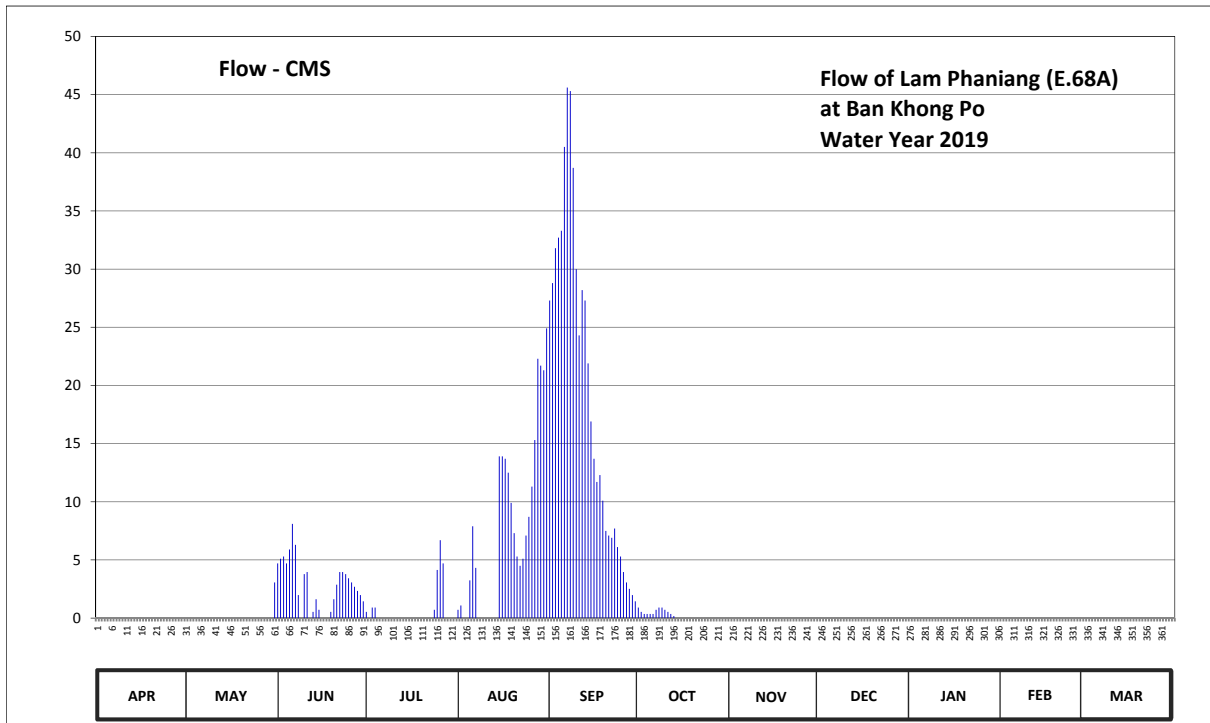
Lat 17 - 04 - 47 N Long 102 - 27 - 11 E

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

	Ban Khong Po	Amphoe Mueang	Changwat Nong Bua Lamphu
<b>Drainage Area</b>	1,364 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+194.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream site at the footpath of the bridge.	<b>Elevation</b>	+201.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +198.670 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 10 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.20	195.98	197.11	196.88	196.89	198.16	196.90	196.71	196.75	196.37	196.03	195.63	
2	196.19	195.98	197.13	196.84	196.91	198.21	196.88	196.71	196.73	196.35	196.02	195.62	
3	196.19	195.98	197.14	196.90	196.83	198.31	196.87	196.71	196.70	196.33	196.01	195.61	
4	196.18	195.98	197.11	196.90	196.83	198.34	196.87	196.72	196.68	196.31	196.00	195.60	
5	196.17	195.98	197.17	196.57	197.03	198.36	196.87	196.72	196.66	196.29	195.98	195.59	
6	196.16	195.98	197.28	195.81	197.27	198.60	196.87	196.72	196.64	196.27	195.96	195.59	
7	196.15	195.98	197.19	195.75	197.09	198.77	196.89	196.73	196.62	196.26	195.94	195.58	
8	196.14	195.98	196.96	195.74	196.54	198.76	196.90	196.73	196.59	196.25	195.92	195.58	
9	196.13	195.98	196.83	195.74	196.49	198.54	196.90	196.74	196.58	196.24	195.90	195.57	
10	196.12	195.98	197.06	195.78	196.48	198.25	196.89	196.74	196.57	196.23	195.88	195.56	
11	196.11	195.99	197.07	195.75	196.50	198.06	196.88	196.74	196.56	196.22	195.86	195.55	
12	196.10	195.99	196.75	195.75	196.51	198.19	196.87	196.75	196.55	196.21	195.84	195.55	
13	196.09	195.99	196.88	195.77	196.52	198.16	196.86	196.75	196.54	196.20	195.83	195.54	
14	196.08	195.99	196.94	195.79	196.83	197.97	196.85	196.75	196.53	196.19	195.82	195.54	
15	196.07	195.99	196.89	195.78	197.57	197.72	196.83	196.76	196.52	196.17	195.80	195.53	
16	196.06	195.99	196.84	195.77	197.57	197.56	196.82	196.76	196.50	196.16	195.78	195.53	
17	196.05	195.99	196.81	195.83	197.56	197.46	196.80	196.76	196.49	196.14	195.76	195.52	
18	196.04	195.99	196.83	195.76	197.50	197.49	196.79	196.77	196.48	196.12	195.74	195.52	
19	196.03	195.99	196.88	196.19	197.37	197.38	196.78	196.77	196.47	196.10	195.73	195.51	
20	196.03	195.99	196.94	195.69	197.24	197.25	196.78	196.78	196.45	196.09	195.71	195.51	
21	196.02	196.00	197.01	195.75	197.14	197.23	196.77	196.78	196.44	196.08	195.70	195.50	
22	196.01	196.00	197.07	196.07	197.10	197.22	196.76	196.78	196.43	196.07	195.69	195.50	
23	196.00	196.00	197.07	196.59	197.13	197.26	196.76	196.78	196.42	196.05	195.68	195.49	
24	196.00	196.00	197.06	196.89	197.23	197.18	196.75	196.78	196.41	196.04	195.67	195.49	
25	195.99	196.00	197.04	197.08	197.31	197.14	196.74	196.78	196.40	196.04	195.66	195.49	
26	195.99	196.00	197.02	197.21	197.44	197.07	196.73	196.77	196.39	196.04	195.65	195.49	
27	195.98	196.00	197.00	197.11	197.64	197.02	196.72	196.77	196.39	196.04	195.64	195.48	
28	195.98	196.02	196.98	196.77	197.99	196.99	196.72	196.77	196.38	196.03	195.64	195.48	
29	195.98	196.22	196.96	196.70	197.96	196.96	196.72	196.77	196.38	196.03	195.64	195.48	
30	195.98	196.67	196.93	196.74	197.94	196.93	196.71	196.77	196.37	196.03	195.63	195.48	
31		197.02		196.82	198.08		196.71		196.37	196.03		195.48	
Mean	196.07	196.05	197.00	196.28	197.18	197.75	196.81	196.75	196.52	196.16	195.81	195.54	
Max	196.20	197.02	197.28	197.21	198.08	198.77	196.90	196.78	196.75	196.37	196.03	195.63	198.77
Min	195.98	195.98	196.75	195.69	196.48	196.93	196.71	196.71	196.37	196.03	195.64	195.48	195.48
Annual Max Momentary Gage Height	198.82		m. (MSL.) ,			at 06.00 Hours, on Sep 8, 2019							
Zero Gage at Bottom Elevation	194.70		m. (MSL.) ,			River Bed	193.16	m. (MSL.)					
Left Bank Elevation		198.66		m. (MSL.) ,									
Right Bank Elevation		199.31		m. (MSL.) ,		Drainage Are	1,364	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	4.70	0.54	0.72	27.30	0.90	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	5.10	0.00	1.08	28.80	0.54	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	5.30	0.90	0.00	31.80	0.36	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	4.70	0.90	0.00	32.70	0.36	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	5.90	0.00	3.24	33.30	0.36	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	8.10	0.00	7.90	40.50	0.36	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	6.30	0.00	4.32	45.60	0.72	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.98	0.00	0.00	45.30	0.90	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	38.70	0.90	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	3.78	0.00	0.00	30.00	0.72	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	3.96	0.00	0.00	24.30	0.54	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	28.20	0.36	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.54	0.00	0.00	27.30	0.18	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	1.62	0.00	0.00	21.90	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.72	0.00	13.90	16.90	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	13.90	13.70	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	13.70	11.70	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	12.50	12.30	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.54	0.00	9.90	10.10	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	1.62	0.00	7.30	7.50	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.88	0.00	5.30	7.10	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	3.96	0.00	4.50	6.90	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	3.96	0.00	5.10	7.70	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	3.78	0.72	7.10	6.10	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.42	4.14	8.70	5.30	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	3.06	6.70	11.30	3.96	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.70	4.70	15.30	3.06	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.34	0.00	22.30	2.52	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	1.98	0.00	21.70	1.98	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	1.44	0.00	21.30	1.44	0.00	0.00	0.00	0.00	0.00	0.00	
31		3.06		0.00	24.90		0.00		0.00	0.00		0.00	
<b>Total</b>	0.00	3.06	84.38	18.60	235.96	573.96	7.20	0.00	0.00	0.00	0.00	0.00	923.16 CMSDAY
<b>Mean</b>	0.00	0.10	2.81	0.60	7.61	19.13	0.23	0.00	0.00	0.00	0.00	0.00	2.52 CMS
<b>Max</b>	0.00	3.06	8.10	6.70	24.90	45.60	0.90	0.00	0.00	0.00	0.00	0.00	45.60 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.26	7.29	1.61	20.39	49.59	0.62	0.00	0.00	0.00	0.00	0.00	79.76 MCM
<b>Momentary Peak</b>	47.10	CMS, at 198.82 m. (MSL.), at 06.00 Hours, on Sep 8, 2019											
<b>Runoff Yield</b>	1.85	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		34.53	Liters/Second/Square KM.						

**WATER YEAR : 2019****CHI RIVER BASIN****Lam Nam Yang at Ban Kut Kwang , Roi Et (E.70)**

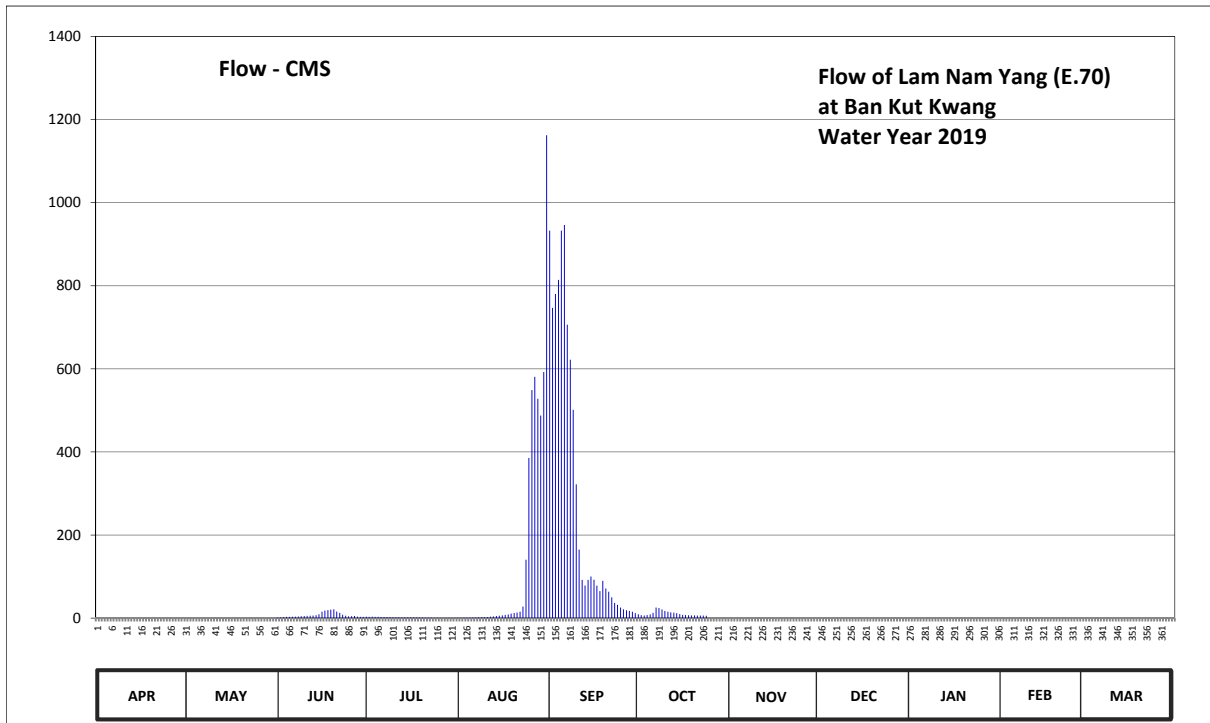
Lat 16 - 17 - 14 N Long 104 - 00 - 34 E

Location : on right bank at the bridge on highway.

	<b>Ban Kut Kwang</b>	<b>Amphoe Phon Thong</b>	<b>Changwat Roi Et</b>
<b>Drainage Area</b>	2,647 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+131.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+144.683 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +139.900 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.45	131.35	131.52	131.74	131.48	141.24	132.05	131.89	131.83	131.77	131.58	131.52	
2	131.45	131.35	131.56	131.72	131.49	140.77	131.95	131.89	131.83	131.76	131.58	131.47	
3	131.45	131.34	131.64	131.73	131.50	140.87	131.90	131.88	131.83	131.76	131.58	131.42	
4	131.45	131.32	131.71	131.71	131.51	140.97	131.96	131.89	131.82	131.75	131.58	131.40	
5	131.44	131.30	131.71	131.69	131.53	141.24	132.04	131.90	131.82	131.74	131.57	131.40	
6	131.44	131.30	131.74	131.68	131.54	141.27	132.22	131.92	131.82	131.73	131.57	131.40	
7	131.44	131.31	131.76	131.68	131.57	140.65	132.74	131.93	131.82	131.73	131.57	131.40	
8	131.44	131.31	131.77	131.66	131.61	140.35	132.70	131.92	131.82	131.72	131.57	131.40	
9	131.43	131.29	131.83	131.63	131.62	139.74	132.57	131.91	131.81	131.71	131.57	131.40	
10	131.42	131.29	131.85	131.61	131.64	138.18	132.42	131.93	131.81	131.70	131.57	131.39	
11	131.42	131.31	131.86	131.58	131.67	136.14	132.33	131.95	131.81	131.69	131.56	131.39	
12	131.42	131.32	131.88	131.58	131.76	134.68	132.27	131.95	131.81	131.68	131.56	131.39	
13	131.41	131.32	131.91	131.58	131.81	134.38	132.23	131.93	131.81	131.67	131.56	131.39	
14	131.41	131.34	131.95	131.58	131.85	134.68	132.18	131.92	131.80	131.67	131.56	131.39	
15	131.41	131.35	132.05	131.59	131.89	134.87	132.07	131.91	131.80	131.66	131.56	131.39	
16	131.40	131.34	132.34	131.60	131.92	134.69	131.99	131.90	131.80	131.66	131.55	131.39	
17	131.40	131.35	132.46	131.58	131.98	134.37	131.97	131.88	131.80	131.65	131.55	131.38	
18	131.39	131.35	132.51	131.57	132.04	134.07	131.95	131.87	131.80	131.65	131.55	131.38	
19	131.39	131.36	132.55	131.56	132.12	134.63	131.93	131.86	131.79	131.64	131.55	131.38	
20	131.38	131.38	132.58	131.55	132.20	134.21	131.92	131.86	131.79	131.64	131.55	131.38	
21	131.38	131.41	132.36	131.53	132.24	134.03	131.91	131.85	131.79	131.63	131.54	131.38	
22	131.38	131.42	132.22	131.52	132.34	133.65	131.90	131.85	131.79	131.62	131.54	131.38	
23	131.38	131.43	132.00	131.50	132.83	133.18	131.90	131.85	131.79	131.62	131.54	131.37	
24	131.37	131.43	131.89	131.48	135.70	133.00	131.89	131.84	131.78	131.61	131.54	131.37	
25	131.37	131.41	131.82	131.47	138.83	132.75	131.89	131.84	131.78	131.61	131.54	131.37	
26	131.37	131.41	131.83	131.47	140.03	132.58	131.89	131.84	131.78	131.61	131.53	131.37	
27	131.36	131.44	131.84	131.47	140.17	132.49	131.89	131.84	131.78	131.60	131.53	131.37	
28	131.36	131.45	131.74	131.47	139.91	132.43	131.89	131.84	131.78	131.60	131.53	131.36	
29	131.36	131.45	131.69	131.47	139.65	132.33	131.89	131.83	131.77	131.59	131.53	131.36	
30	131.35	131.48	131.72	131.48	140.22	132.18	131.89	131.83	131.77	131.59	131.52	131.36	
31		131.52		131.48	141.70		131.89		131.77	131.58		131.36	
Mean	131.40	131.37	131.94	131.58	133.82	136.02	132.07	131.88	131.80	131.67	131.56	131.39	
Max	131.45	131.52	132.58	131.74	141.70	141.27	132.74	131.95	131.83	131.77	131.58	131.52	141.70
Min	131.35	131.29	131.52	131.47	131.48	132.18	131.89	131.83	131.77	131.58	131.53	131.36	131.29
Annual Max Momentary Gage Height	141.90		m. (MSL.) ,			at 18.00 Hours, on Aug 31, 2019							
Zero Gage at Bottom Elevation	131.10		m. (MSL.) ,			River Bed	130.67	m. (MSL.)					
Left Bank Elevation		139.89		m. (MSL.) ,									
Right Bank Elevation		140.32		m. (MSL.) ,		Drainage Are	2,647	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.20	3.40	0.80	932.48	9.10	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.60	3.20	0.90	746.72	7.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.40	3.30	1.00	780.32	6.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	3.10	3.10	1.10	813.92	7.20	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	3.10	2.90	1.30	932.48	8.88	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	3.40	2.80	1.40	946.04	12.84	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	3.60	2.80	1.70	706.40	25.24	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	3.70	2.60	2.10	621.80	24.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	4.60	2.30	2.20	501.44	20.82	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	5.00	2.10	2.40	321.84	17.24	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	5.20	1.80	2.70	164.96	15.26	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	5.60	1.80	3.60	91.92	13.94	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	6.20	1.80	4.20	78.72	13.06	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	7.00	1.80	5.00	91.92	11.96	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	9.10	1.90	5.80	100.28	9.54	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	15.48	2.00	6.40	92.36	7.80	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	18.12	1.80	7.60	78.28	7.40	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	19.26	1.70	8.88	65.08	7.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	20.30	1.60	10.64	89.72	6.60	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	21.08	1.50	12.40	71.24	6.40	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	15.92	1.30	13.28	63.32	6.20	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	12.84	1.20	15.48	50.10	6.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	8.00	1.00	27.58	36.68	6.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	5.80	0.80	140.40	32.00	5.80	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	4.40	0.70	385.64	25.50	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	4.60	0.70	548.84	21.08	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	4.80	0.70	580.76	18.78	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	3.40	0.70	527.96	17.46	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	2.90	0.70	487.40	15.26	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	3.20	0.80	592.16	11.96	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00		0.80	1162.00		0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	224.90	55.60	4563.62	8520.06	261.48	0.00	0.00	0.00	0.00	0.00	13625.66 CMSDAY
Mean	0.00	0.00	7.50	1.79	147.21	284.00	8.43	0.00	0.00	0.00	0.00	0.00	37.23 CMS
Max	0.00	0.00	21.08	3.40	1162.00	946.04	25.24	0.00	0.00	0.00	0.00	0.00	1162.00 CMS
Min	0.00	0.00	1.20	0.70	0.80	11.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	19.43	4.80	394.30	736.13	22.59	0.00	0.00	0.00	0.00	0.00	1177.26 MCM
Momentary Peak	1274.00	CMS, at 141.90 m. (MSL.), at 18.00 Hours, on Aug 31, 2019											
Runoff Yield	14.10	Liters/Second/Square KM. Momentary Peak Yield 481.30 Liters/Second/Square KM.											

## WATER YEAR : 2019

## CHI RIVER BASIN

## Lam Chiang at Ban Chiang , Chaiphaphum (E.72)

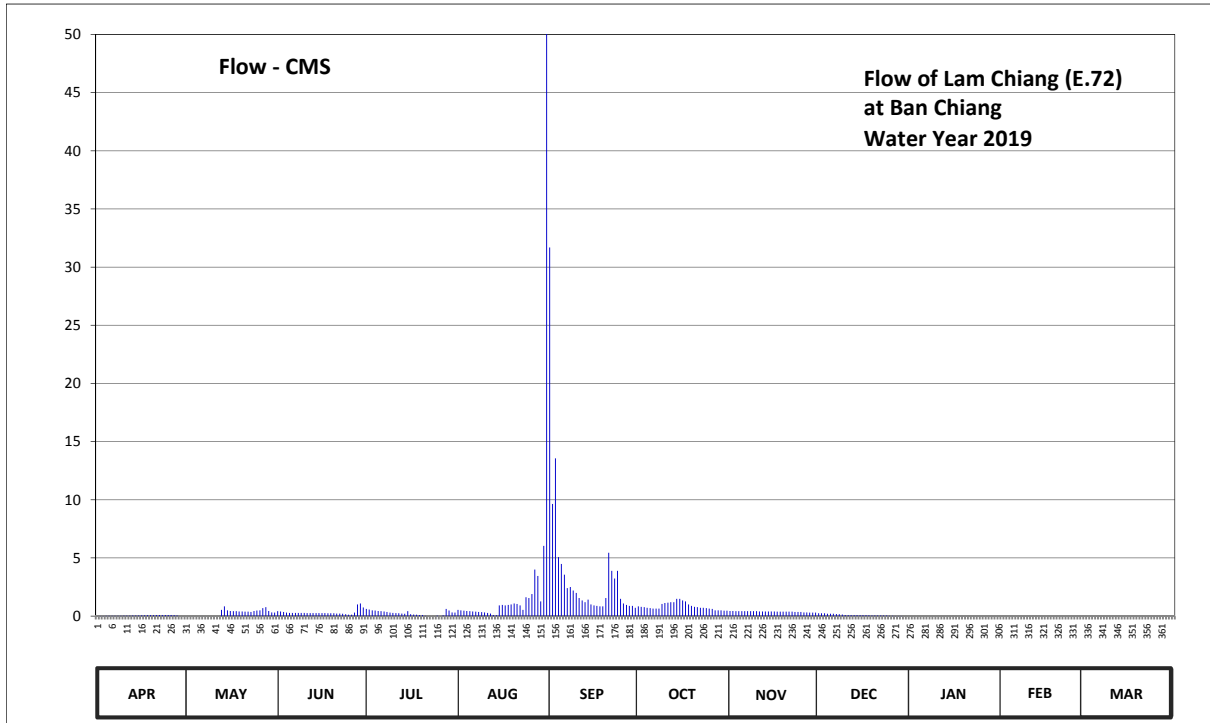
Lat 16 - 01 - 26 N Long 101 - 30 - 12 E

Location : on left bank at Ban Chiang School.

	<b>Ban Chiang</b>	<b>Amphoe</b> Phak Di Chumphon	<b>Changwat</b> Chaiphaphum
<b>Drainage Area</b>	323 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+234.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+243.534 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.70	234.61	234.96	235.04	235.01	237.48	235.11	234.97	234.87	234.70	234.55	234.58	
2	234.71	234.57	234.95	235.02	235.00	235.97	235.10	234.97	234.87	234.70	234.55	234.58	
3	234.71	234.50	234.93	235.00	234.98	236.27	235.09	234.96	234.87	234.70	234.55	234.56	
4	234.72	234.45	234.90	234.99	234.97	235.59	235.07	234.96	234.85	234.70	234.55	234.55	
5	234.72	234.41	234.89	234.97	234.96	235.54	235.06	234.96	234.85	234.70	234.55	234.55	
6	234.73	234.35	234.89	234.96	234.95	235.46	235.05	234.96	234.85	234.69	234.53	234.55	
7	234.73	234.28	234.89	234.95	234.94	235.35	235.05	234.96	234.84	234.69	234.53	234.54	
8	234.73	234.22	234.89	234.93	234.93	235.36	235.05	234.96	234.83	234.69	234.53	234.54	
9	234.73	234.20	234.89	234.90	234.92	235.33	235.16	234.96	234.82	234.67	234.53	234.54	
10	234.74	234.20	234.89	234.89	234.91	235.31	235.18	234.96	234.79	234.66	234.50	234.53	
11	234.74	234.20	234.88	234.88	234.89	235.25	235.19	234.95	234.78	234.64	234.50	234.52	
12	234.74	234.39	234.88	234.87	234.86	235.22	235.20	234.95	234.78	234.64	234.50	234.52	
13	234.75	235.01	234.88	234.86	234.79	235.20	235.20	234.95	234.78	234.64	234.50	234.51	
14	234.76	235.11	234.88	234.85	234.78	235.23	235.24	234.95	234.78	234.64	234.50	234.50	
15	234.76	235.00	234.88	234.96	235.13	235.15	235.24	234.95	234.78	234.64	234.50	234.50	
16	234.77	234.97	234.88	234.83	235.14	235.13	235.22	234.95	234.78	234.64	234.51	234.50	
17	234.77	234.96	234.88	234.82	235.13	235.12	235.21	234.94	234.78	234.63	234.52	234.48	
18	234.78	234.96	234.87	234.81	235.14	235.11	235.15	234.94	234.77	234.63	234.52	234.46	
19	234.78	234.95	234.87	234.80	235.15	235.11	235.12	234.94	234.76	234.63	234.52	234.46	
20	234.78	234.95	234.87	234.80	235.17	235.25	235.10	234.94	234.76	234.63	234.52	234.46	
21	234.79	234.94	234.86	234.73	235.16	235.62	235.09	234.94	234.75	234.62	234.55	234.45	
22	234.79	234.94	234.86	234.65	235.13	235.49	235.07	234.94	234.75	234.62	234.55	234.45	
23	234.80	234.93	234.85	234.35	235.01	235.43	235.07	234.93	234.75	234.62	234.55	234.45	
24	234.80	234.97	234.83	234.40	235.26	235.49	235.06	234.93	234.75	234.62	234.55	234.45	
25	234.80	234.99	234.81	234.74	235.25	235.24	235.05	234.93	234.72	234.62	234.56	234.45	
26	234.79	235.00	234.81	234.69	235.30	235.17	235.04	234.91	234.72	234.61	234.58	234.45	
27	234.78	235.06	234.90	234.77	235.50	235.14	235.00	234.91	234.71	234.59	234.58	234.44	
28	234.75	235.09	235.15	235.04	235.45	235.12	235.00	234.90	234.71	234.59	234.58	234.44	
29	234.69	234.97	235.17	234.99	235.21	235.12	235.00	234.90	234.71	234.58	234.58	234.44	
30	234.67	234.91	235.08	234.91	235.67	235.07	234.98	234.90	234.70	234.56	234.56	234.44	
31		234.90		234.90	239.58		234.98		234.70	234.55		234.44	
Mean	234.75	234.74	234.91	234.85	235.23	235.41	235.10	234.94	234.78	234.64	234.54	234.49	
Max	234.80	235.11	235.17	235.04	239.58	237.48	235.24	234.97	234.87	234.70	234.58	234.58	239.58
Min	234.67	234.20	234.81	234.35	234.78	235.07	234.98	234.90	234.70	234.55	234.50	234.44	234.20
Annual Max Momentary Gage Height	240.02		m. (MSL.) ,			at 12.00 Hours, on Aug 31, 2019							
Zero Gage at Bottom Elevation	234.10		m. (MSL.) ,			River Bed	233.96	m. (MSL.)					
Left Bank Elevation		243.29		m. (MSL.) ,									
Right Bank Elevation		243.28		m. (MSL.) ,		Drainage Are	323	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.42	0.62	0.53	31.68	0.84	0.44	0.24	0.00	0.00	0.00	
2	0.01	0.00	0.40	0.56	0.50	9.64	0.80	0.44	0.24	0.00	0.00	0.00	
3	0.01	0.00	0.36	0.50	0.46	13.56	0.77	0.42	0.24	0.00	0.00	0.00	
4	0.02	0.00	0.30	0.48	0.44	5.08	0.71	0.42	0.20	0.00	0.00	0.00	
5	0.02	0.00	0.28	0.44	0.42	4.48	0.68	0.42	0.20	0.00	0.00	0.00	
6	0.03	0.00	0.28	0.42	0.40	3.56	0.65	0.42	0.20	0.00	0.00	0.00	
7	0.03	0.00	0.28	0.40	0.38	2.40	0.65	0.42	0.18	0.00	0.00	0.00	
8	0.03	0.00	0.28	0.36	0.36	2.50	0.65	0.42	0.16	0.00	0.00	0.00	
9	0.03	0.00	0.28	0.30	0.34	2.20	1.04	0.42	0.14	0.00	0.00	0.00	
10	0.04	0.00	0.28	0.28	0.32	2.00	1.12	0.42	0.09	0.00	0.00	0.00	
11	0.04	0.00	0.26	0.26	0.28	1.55	1.16	0.40	0.08	0.00	0.00	0.00	
12	0.04	0.00	0.26	0.24	0.22	1.34	1.20	0.40	0.08	0.00	0.00	0.00	
13	0.05	0.53	0.26	0.22	0.09	1.20	1.20	0.40	0.08	0.00	0.00	0.00	
14	0.06	0.84	0.26	0.20	0.08	1.41	1.48	0.40	0.08	0.00	0.00	0.00	
15	0.06	0.50	0.26	0.42	0.92	1.00	1.48	0.40	0.08	0.00	0.00	0.00	
16	0.07	0.44	0.26	0.16	0.96	0.92	1.34	0.40	0.08	0.00	0.00	0.00	
17	0.07	0.42	0.26	0.14	0.92	0.88	1.27	0.38	0.08	0.00	0.00	0.00	
18	0.08	0.42	0.24	0.12	0.96	0.84	1.00	0.38	0.07	0.00	0.00	0.00	
19	0.08	0.40	0.24	0.10	1.00	0.84	0.88	0.38	0.06	0.00	0.00	0.00	
20	0.08	0.40	0.24	0.10	1.08	1.55	0.80	0.38	0.06	0.00	0.00	0.00	
21	0.09	0.38	0.22	0.03	1.04	5.44	0.77	0.38	0.05	0.00	0.00	0.00	
22	0.09	0.38	0.22	0.00	0.92	3.89	0.71	0.38	0.05	0.00	0.00	0.00	
23	0.10	0.36	0.20	0.00	0.53	3.23	0.71	0.36	0.05	0.00	0.00	0.00	
24	0.10	0.44	0.16	0.00	1.62	3.89	0.68	0.36	0.05	0.00	0.00	0.00	
25	0.10	0.48	0.12	0.04	1.55	1.48	0.65	0.36	0.02	0.00	0.00	0.00	
26	0.09	0.50	0.12	0.00	1.90	1.08	0.62	0.32	0.02	0.00	0.00	0.00	
27	0.08	0.68	0.30	0.07	4.00	0.96	0.50	0.32	0.01	0.00	0.00	0.00	
28	0.05	0.77	1.00	0.62	3.45	0.88	0.50	0.30	0.01	0.00	0.00	0.00	
29	0.00	0.44	1.08	0.48	1.27	0.88	0.50	0.30	0.01	0.00	0.00	0.00	
30	0.00	0.32	0.74	0.32	6.04	0.71	0.46	0.30	0.00	0.00	0.00	0.00	
31		0.30		0.30	69.42		0.46		0.00	0.00		0.00	
Total	1.55	9.00	9.86	8.18	102.40	111.07	26.28	11.54	2.91	0.00	0.00	0.00	282.79 CMSDAY
Mean	0.05	0.29	0.33	0.26	3.30	3.70	0.85	0.38	0.09	0.00	0.00	0.00	0.77 CMS
Max	0.10	0.84	1.08	0.62	69.42	31.68	1.48	0.44	0.24	0.00	0.00	0.00	69.42 CMS
Min	0.00	0.00	0.12	0.00	0.08	0.71	0.46	0.30	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.13	0.78	0.85	0.71	8.85	9.60	2.27	1.00	0.25	0.00	0.00	0.00	24.43 MCM
Momentary Peak	77.80	CMS, at 240.02 m. (MSL.), at 12.00 Hours, on Aug 31, 2019											
Runoff Yield	2.40	Liters/Second/Square KM.		Momentary Peak Yield		240.87	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

## Lam Chao at Ban Lad Chumphon , Chaiyaphum (E.73A)

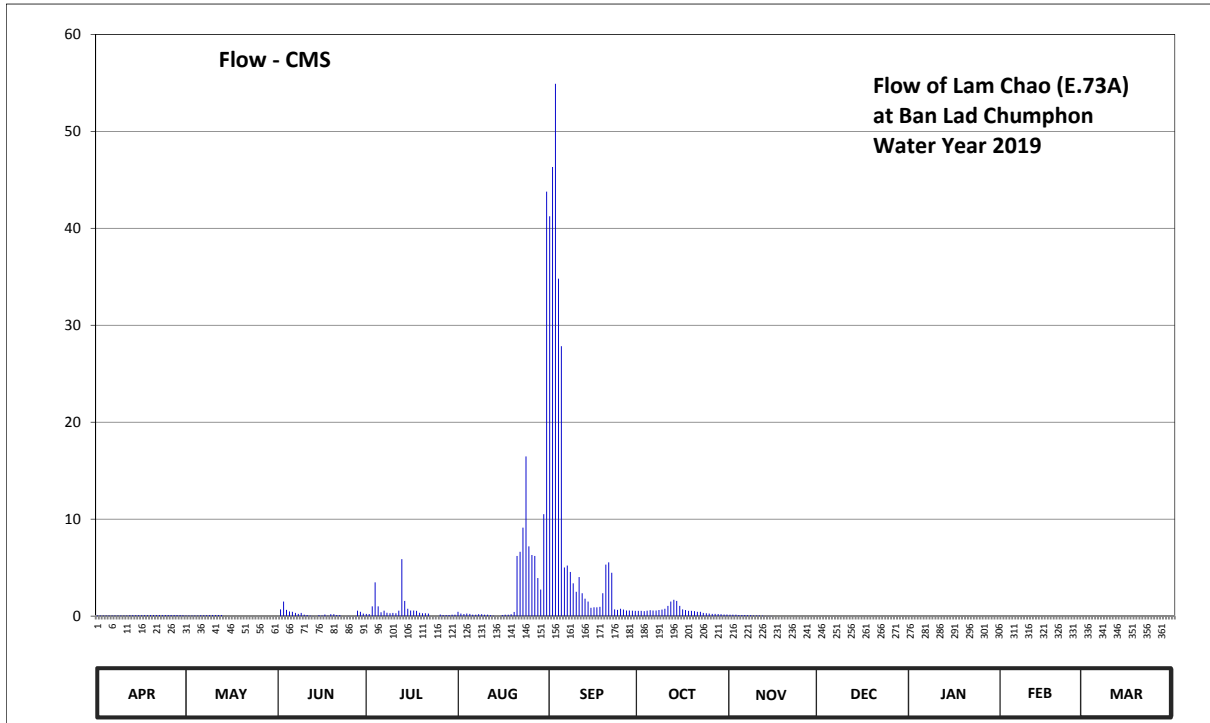
Lat 15 - 55 - 21 N Long 101 - 25 - 30 E

Location : on right bank at Ban Lad Chumphon, Tambon Ban Chiang.

	<b>Ban</b>	Lad Chumphon	<b>Amphoe</b>	Phak Di Chumphon	<b>Changwat</b>	Chaiyaphum
<b>Drainage Area</b>	221	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+257.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On right bank near the gage site.				<b>Elevation</b>	+266.243 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2019 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2019 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2019 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The local weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.43	257.43	257.35	257.50	257.59	260.53	257.63	257.46	257.35	257.30	257.35	257.30	
2	257.43	257.43	257.70	257.49	257.51	260.77	257.63	257.46	257.35	257.30	257.35	257.30	
3	257.43	257.43	257.85	257.76	257.49	261.16	257.62	257.46	257.35	257.30	257.34	257.30	
4	257.43	257.43	257.68	258.12	257.51	260.21	257.64	257.45	257.35	257.30	257.33	257.34	
5	257.43	257.43	257.60	257.76	257.50	259.85	257.66	257.45	257.35	257.30	257.33	257.37	
6	257.43	257.44	257.59	257.57	257.46	258.29	257.65	257.45	257.34	257.30	257.33	257.38	
7	257.43	257.44	257.54	257.64	257.46	258.31	257.65	257.44	257.34	257.30	257.30	257.38	
8	257.43	257.44	257.50	257.55	257.48	258.24	257.67	257.44	257.33	257.30	257.30	257.36	
9	257.43	257.45	257.54	257.53	257.48	258.11	257.69	257.43	257.33	257.30	257.30	257.35	
10	257.43	257.45	257.46	257.54	257.46	258.00	257.71	257.43	257.32	257.30	257.30	257.35	
11	257.43	257.45	257.45	257.53	257.46	258.18	257.77	257.43	257.31	257.30	257.30	257.35	
12	257.44	257.45	257.42	257.64	257.44	257.98	257.85	257.42	257.30	257.30	257.30	257.35	
13	257.44	257.45	257.41	258.37	257.42	257.90	257.88	257.41	257.30	257.30	257.30	257.35	
14	257.44	257.40	257.40	257.86	257.40	257.85	257.86	257.41	257.30	257.33	257.30	257.35	
15	257.44	257.37	257.44	257.71	257.40	257.73	257.77	257.41	257.30	257.35	257.30	257.35	
16	257.44	257.36	257.43	257.65	257.45	257.74	257.70	257.39	257.30	257.35	257.30	257.35	
17	257.44	257.36	257.47	257.65	257.46	257.74	257.67	257.38	257.30	257.35	257.30	257.35	
18	257.44	257.36	257.42	257.63	257.46	257.75	257.63	257.38	257.30	257.35	257.30	257.35	
19	257.45	257.35	257.48	257.55	257.48	257.98	257.63	257.38	257.30	257.35	257.30	257.34	
20	257.45	257.36	257.48	257.53	257.58	258.32	257.62	257.38	257.30	257.35	257.30	257.33	
21	257.45	257.36	257.45	257.53	258.40	258.34	257.59	257.37	257.30	257.35	257.30	257.31	
22	257.45	257.34	257.45	257.51	258.44	258.23	257.59	257.37	257.30	257.35	257.30	257.30	
23	257.45	257.34	257.40	257.40	258.66	257.70	257.54	257.36	257.30	257.35	257.30	257.30	
24	257.45	257.34	257.40	257.37	259.18	257.68	257.53	257.36	257.30	257.35	257.30	257.30	
25	257.45	257.32	257.41	257.36	258.49	257.71	257.51	257.36	257.30	257.35	257.30	257.30	
26	257.45	257.33	257.34	257.47	258.41	257.69	257.50	257.35	257.30	257.35	257.30	257.30	
27	257.45	257.33	257.38	257.45	258.40	257.65	257.50	257.35	257.30	257.35	257.30	257.30	
28	257.45	257.33	257.64	257.45	258.17	257.65	257.49	257.35	257.30	257.35	257.30	257.30	
29	257.45	257.33	257.59	257.45	258.03	257.64	257.48	257.35	257.30	257.35	257.30	257.30	
30	257.44	257.33	257.51	257.46	258.77	257.63	257.47	257.35	257.30	257.35	257.30	257.30	
31		257.33		257.46	260.65		257.47		257.30	257.35		257.30	
Mean	257.44	257.39	257.49	257.60	257.91	258.35	257.63	257.40	257.31	257.33	257.31	257.33	
Max	257.45	257.45	257.85	258.37	260.65	261.16	257.88	257.46	257.35	257.35	257.35	257.38	261.16
Min	257.43	257.32	257.34	257.36	257.40	257.63	257.47	257.35	257.30	257.30	257.30	257.30	257.30
Annual Max Momentary Gage Height	261.27		m. (MSL.) ,				at 12.00 Hours, on Sep 3, 2019						
Zero Gage at Bottom Elevation	257.30		m. (MSL.) ,			River Bed	257.32	m. (MSL.)					
Left Bank Elevation		262.56		m. (MSL.) ,									
Right Bank Elevation		264.61		m. (MSL.) ,		Drainage Are	221	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.07	0.00	0.23	0.44	41.24	0.54	0.14	0.00	0.00	0.00	0.00	
2	0.07	0.07	0.70	0.21	0.26	46.32	0.54	0.14	0.00	0.00	0.00	0.00	
3	0.07	0.07	1.50	1.00	0.21	54.91	0.51	0.14	0.00	0.00	0.00	0.00	
4	0.07	0.07	0.65	3.48	0.26	34.80	0.56	0.12	0.00	0.00	0.00	0.00	
5	0.07	0.07	0.47	1.00	0.23	27.84	0.61	0.12	0.00	0.00	0.00	0.00	
6	0.07	0.09	0.44	0.40	0.14	5.01	0.58	0.12	0.00	0.00	0.00	0.00	
7	0.07	0.09	0.33	0.56	0.14	5.21	0.58	0.09	0.00	0.00	0.00	0.00	
8	0.07	0.09	0.23	0.35	0.19	4.56	0.63	0.09	0.00	0.00	0.00	0.00	
9	0.07	0.12	0.33	0.30	0.19	3.39	0.68	0.07	0.00	0.00	0.00	0.00	
10	0.07	0.12	0.14	0.33	0.14	2.50	0.75	0.07	0.00	0.00	0.00	0.00	
11	0.07	0.12	0.12	0.30	0.14	4.02	1.05	0.07	0.00	0.00	0.00	0.00	
12	0.09	0.12	0.05	0.56	0.09	2.36	1.50	0.05	0.00	0.00	0.00	0.00	
13	0.09	0.12	0.02	5.87	0.05	1.80	1.68	0.02	0.00	0.00	0.00	0.00	
14	0.09	0.00	0.00	1.56	0.00	1.50	1.56	0.02	0.00	0.00	0.00	0.00	
15	0.09	0.00	0.09	0.75	0.00	0.85	1.05	0.02	0.00	0.00	0.00	0.00	
16	0.09	0.00	0.07	0.58	0.12	0.90	0.70	0.00	0.00	0.00	0.00	0.00	
17	0.09	0.00	0.16	0.58	0.14	0.90	0.63	0.00	0.00	0.00	0.00	0.00	
18	0.09	0.00	0.05	0.54	0.14	0.95	0.54	0.00	0.00	0.00	0.00	0.00	
19	0.12	0.00	0.19	0.35	0.19	2.36	0.54	0.00	0.00	0.00	0.00	0.00	
20	0.12	0.00	0.19	0.30	0.42	5.32	0.51	0.00	0.00	0.00	0.00	0.00	
21	0.12	0.00	0.12	0.30	6.20	5.54	0.44	0.00	0.00	0.00	0.00	0.00	
22	0.12	0.00	0.12	0.26	6.64	4.47	0.44	0.00	0.00	0.00	0.00	0.00	
23	0.12	0.00	0.00	0.00	9.12	0.70	0.33	0.00	0.00	0.00	0.00	0.00	
24	0.12	0.00	0.00	0.00	16.47	0.65	0.30	0.00	0.00	0.00	0.00	0.00	
25	0.12	0.00	0.02	0.00	7.19	0.75	0.26	0.00	0.00	0.00	0.00	0.00	
26	0.12	0.00	0.00	0.16	6.31	0.68	0.23	0.00	0.00	0.00	0.00	0.00	
27	0.12	0.00	0.00	0.12	6.20	0.58	0.23	0.00	0.00	0.00	0.00	0.00	
28	0.12	0.00	0.56	0.12	3.93	0.58	0.21	0.00	0.00	0.00	0.00	0.00	
29	0.12	0.00	0.44	0.12	2.74	0.56	0.19	0.00	0.00	0.00	0.00	0.00	
30	0.09	0.00	0.26	0.14	10.51	0.54	0.16	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.14	43.78	0.16	0.16	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	2.81	1.22	7.25	20.61	122.58	261.79	18.69	1.28	0.00	0.00	0.00	0.00	436.23 CMSDAY
<b>Mean</b>	0.09	0.04	0.24	0.66	3.95	8.73	0.60	0.04	0.00	0.00	0.00	0.00	1.19 CMS
<b>Max</b>	0.12	0.12	1.50	5.87	43.78	54.91	1.68	0.14	0.00	0.00	0.00	0.00	54.91 CMS
<b>Min</b>	0.07	0.00	0.00	0.00	0.00	0.54	0.16	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.24	0.11	0.63	1.78	10.59	22.62	1.61	0.11	0.00	0.00	0.00	0.00	37.69 MCM
<b>Momentary Peak</b>	57.46	CMS, at 261.27 m. (MSL.), at 12.00 Hours, on Sep 3, 2019											
<b>Runoff Yield</b>	5.41	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		260.00	Liters/Second/Square KM.						



## WATER YEAR : 2019

## CHI RIVER BASIN

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

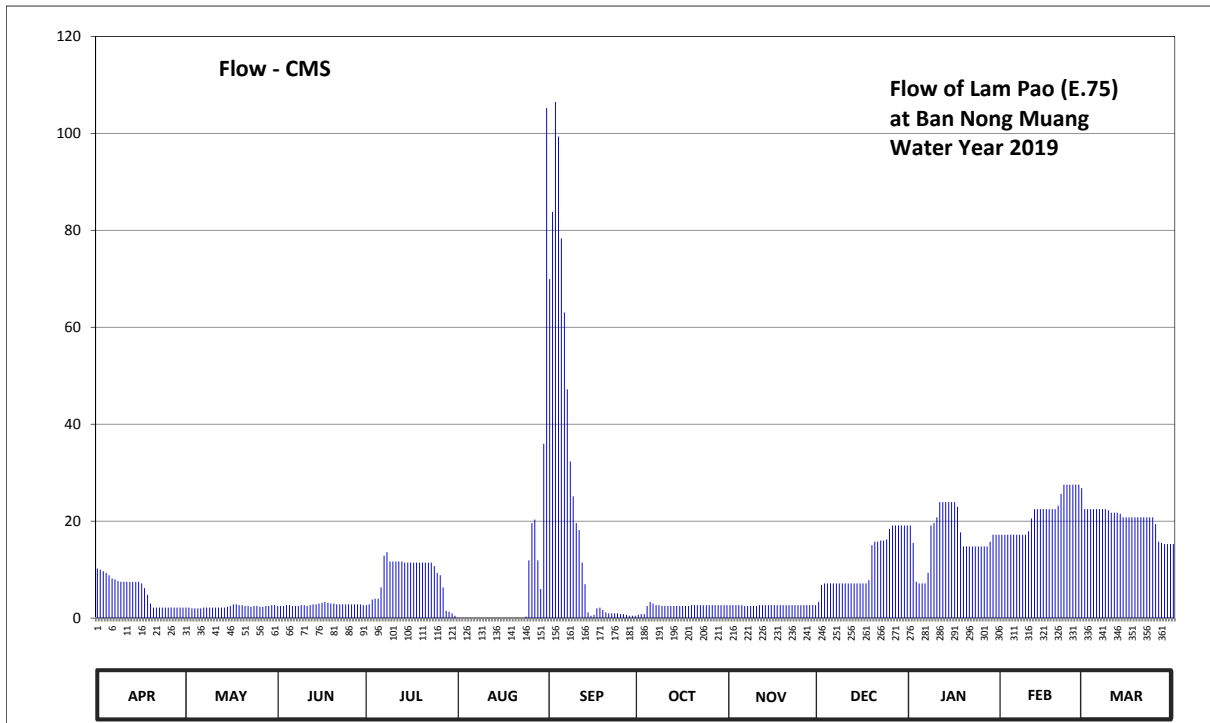
Lat 16 - 34 - 36 N Long 103 - 26 - 35 E

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

	<b>Ban Nong Muang</b>	<b>Amphoe Mueang</b>	<b>Changwat Kalasin</b>
<b>Drainage Area</b>	6,013 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+137.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank in front of gage observer's house.	<b>Elevation</b>	+149.762 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Lam Pao Dam. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.01	137.53	137.55	137.56	137.34	140.07	137.44	137.56	137.60	138.38	138.30	138.52	
2	138.00	137.53	137.55	137.57	137.32	140.40	137.45	137.56	137.81	138.23	138.30	138.52	
3	137.98	137.52	137.55	137.63	137.32	140.94	137.45	137.56	137.83	137.85	138.30	138.52	
4	137.96	137.52	137.56	137.64	137.31	140.77	137.55	137.56	137.83	137.83	138.30	138.52	
5	137.93	137.52	137.56	137.64	137.26	140.27	137.60	137.56	137.83	137.83	138.30	138.52	
6	137.89	137.52	137.55	137.78	137.17	139.88	137.58	137.55	137.83	137.83	138.30	138.52	
7	137.88	137.53	137.55	138.12	137.15	139.40	137.56	137.55	137.83	137.96	138.30	138.52	
8	137.86	137.53	137.55	138.15	137.15	138.93	137.56	137.55	137.83	138.38	138.30	138.52	
9	137.85	137.53	137.56	138.07	137.15	138.63	137.55	137.55	137.83	138.40	138.30	138.51	
10	137.85	137.53	137.56	138.07	137.16	138.40	137.55	137.55	137.83	138.45	138.33	138.49	
11	137.85	137.53	137.55	138.07	137.17	138.34	137.55	137.56	137.83	138.58	138.44	138.49	
12	137.85	137.53	137.56	138.07	137.17	138.06	137.55	137.56	137.83	138.58	138.52	138.49	
13	137.85	137.53	137.57	138.07	137.17	137.82	137.55	137.56	137.83	138.58	138.52	138.48	
14	137.85	137.53	137.57	138.06	137.17	137.47	137.55	137.56	137.83	138.58	138.52	138.45	
15	137.85	137.54	137.58	138.06	137.17	137.43	137.55	137.56	137.83	138.58	138.52	138.45	
16	137.83	137.55	137.59	138.06	137.17	137.44	137.55	137.56	137.83	138.58	138.52	138.45	
17	137.77	137.57	137.60	138.06	137.17	137.52	137.55	137.56	137.83	138.54	138.52	138.45	
18	137.69	137.57	137.59	138.06	137.17	137.53	137.55	137.56	137.87	138.32	138.52	138.45	
19	137.58	137.56	137.58	138.06	137.17	137.50	137.56	137.56	138.21	138.20	138.52	138.45	
20	137.53	137.56	137.58	138.06	137.17	137.47	137.56	137.56	138.24	138.20	138.55	138.45	
21	137.53	137.55	137.57	138.06	137.17	137.46	137.56	137.56	138.24	138.20	138.65	138.45	
22	137.53	137.55	137.57	138.06	137.17	137.46	137.56	137.56	138.25	138.20	138.73	138.45	
23	137.53	137.54	137.57	138.06	137.17	137.46	137.56	137.56	138.25	138.20	138.73	138.45	
24	137.53	137.55	137.57	138.03	137.42	137.46	137.56	137.56	138.26	138.20	138.73	138.45	
25	137.53	137.55	137.57	137.96	138.08	137.45	137.56	137.56	138.35	138.20	138.73	138.39	
26	137.53	137.54	137.57	137.93	138.40	137.45	137.56	137.56	138.38	138.20	138.73	138.24	
27	137.53	137.54	137.57	137.78	138.43	137.44	137.56	137.56	138.38	138.20	138.73	138.23	
28	137.53	137.55	137.57	137.49	138.08	137.43	137.56	137.56	138.38	138.24	138.70	138.22	
29	137.53	137.55	137.57	137.48	137.76	137.43	137.56	137.56	138.38	138.30	138.58	138.22	
30	137.53	137.56	137.56	137.46	139.06	137.43	137.56	137.56	138.38	138.30	138.52	138.22	
31		137.56		137.43	140.91		137.56		138.38	138.30		138.22	
Mean	137.74	137.54	137.57	137.89	137.54	138.29	137.55	137.56	138.03	138.27	138.50	138.43	
Max	138.01	137.57	137.60	138.15	140.91	140.94	137.60	137.56	138.38	138.58	138.73	138.52	140.94
Min	137.53	137.52	137.55	137.43	137.15	137.43	137.44	137.55	137.60	137.83	138.30	138.22	137.15
Annual Max Momentary Gage Height	141.61		m. (MSL.) ,				at 19.00 Hours, on Aug 31, 2019						
Zero Gage at Bottom Elevation	137.00		m. (MSL.) ,			River Bed	137.30	m. (MSL.)					
Left Bank Elevation		150.19		m. (MSL.) ,									
Right Bank Elevation		150.28		m. (MSL.) ,		Drainage Are	6,013	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.24	2.17	2.50	2.67	0.00	69.94	0.67	2.67	3.33	19.12	17.20	22.48	
2	10.00	2.17	2.50	2.83	0.00	83.80	0.83	2.67	6.83	15.52	17.20	22.48	
3	9.67	2.00	2.50	3.83	0.00	106.48	0.83	2.67	7.17	7.50	17.20	22.48	
4	9.33	2.00	2.67	4.00	0.00	99.34	2.50	2.67	7.17	7.17	17.20	22.48	
5	8.83	2.00	2.67	4.00	0.00	78.34	3.33	2.67	7.17	7.17	17.20	22.48	
6	8.17	2.00	2.50	6.33	0.00	63.04	3.00	2.50	7.17	7.17	17.20	22.48	
7	8.00	2.17	2.50	12.88	0.00	47.20	2.67	2.50	7.17	9.33	17.20	22.48	
8	7.67	2.17	2.50	13.60	0.00	32.32	2.67	2.50	7.17	19.12	17.20	22.48	
9	7.50	2.17	2.67	11.68	0.00	25.12	2.50	2.50	7.17	19.60	17.20	22.24	
10	7.50	2.17	2.67	11.68	0.00	19.60	2.50	2.50	7.17	20.80	17.92	21.76	
11	7.50	2.17	2.50	11.68	0.00	18.16	2.50	2.67	7.17	23.92	20.56	21.76	
12	7.50	2.17	2.67	11.68	0.00	11.44	2.50	2.67	7.17	23.92	22.48	21.76	
13	7.50	2.17	2.83	11.68	0.00	7.00	2.50	2.67	7.17	23.92	22.48	21.52	
14	7.50	2.17	2.83	11.44	0.00	1.17	2.50	2.67	7.17	23.92	22.48	20.80	
15	7.50	2.33	3.00	11.44	0.00	0.50	2.50	2.67	7.17	23.92	22.48	20.80	
16	7.17	2.50	3.17	11.44	0.00	0.67	2.50	2.67	7.17	23.92	22.48	20.80	
17	6.17	2.83	3.33	11.44	0.00	2.00	2.50	2.67	7.17	22.96	22.48	20.80	
18	4.83	2.83	3.17	11.44	0.00	2.17	2.50	2.67	7.83	17.68	22.48	20.80	
19	3.00	2.67	3.00	11.44	0.00	1.67	2.67	2.67	15.04	14.80	22.48	20.80	
20	2.17	2.67	3.00	11.44	0.00	1.17	2.67	2.67	15.76	14.80	23.20	20.80	
21	2.17	2.50	2.83	11.44	0.00	1.00	2.67	2.67	15.76	14.80	25.60	20.80	
22	2.17	2.50	2.83	11.44	0.00	1.00	2.67	2.67	16.00	14.80	27.52	20.80	
23	2.17	2.33	2.83	11.44	0.00	1.00	2.67	2.67	16.00	14.80	27.52	20.80	
24	2.17	2.50	2.83	10.72	0.33	1.00	2.67	2.67	16.24	14.80	27.52	20.80	
25	2.17	2.50	2.83	9.33	11.92	0.83	2.67	2.67	18.40	14.80	27.52	19.36	
26	2.17	2.33	2.83	8.83	19.60	0.83	2.67	2.67	19.12	14.80	27.52	15.76	
27	2.17	2.33	2.83	6.33	20.32	0.67	2.67	2.67	19.12	14.80	27.52	15.52	
28	2.17	2.50	2.83	1.50	11.92	0.50	2.67	2.67	19.12	15.76	26.80	15.28	
29	2.17	2.50	2.83	1.33	6.00	0.50	2.67	2.67	19.12	17.20	23.92	15.28	
30	2.17	2.67	2.67	1.00	35.98	0.50	2.67	2.67	19.12	17.20		15.28	
31		2.67		0.50	105.22		2.67		19.12	17.20		15.28	
<b>Total</b>	<b>169.45</b>	<b>72.86</b>	<b>83.32</b>	<b>262.48</b>	<b>211.29</b>	<b>678.96</b>	<b>76.21</b>	<b>79.25</b>	<b>353.46</b>	<b>517.22</b>	<b>637.76</b>	<b>629.44</b>	<b>3771.70</b> CMSDAY
<b>Mean</b>	<b>5.65</b>	<b>2.35</b>	<b>2.78</b>	<b>8.47</b>	<b>6.82</b>	<b>22.63</b>	<b>2.46</b>	<b>2.64</b>	<b>11.40</b>	<b>16.68</b>	<b>21.99</b>	<b>20.30</b>	<b>10.31</b> CMS
<b>Max</b>	<b>10.24</b>	<b>2.83</b>	<b>3.33</b>	<b>13.60</b>	<b>105.22</b>	<b>106.48</b>	<b>3.33</b>	<b>2.67</b>	<b>19.12</b>	<b>23.92</b>	<b>27.52</b>	<b>22.48</b>	<b>106.48</b> CMS
<b>Min</b>	<b>2.17</b>	<b>2.00</b>	<b>2.50</b>	<b>0.50</b>	<b>0.00</b>	<b>0.50</b>	<b>0.67</b>	<b>2.50</b>	<b>3.33</b>	<b>7.17</b>	<b>17.20</b>	<b>15.28</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>14.64</b>	<b>6.30</b>	<b>7.20</b>	<b>22.68</b>	<b>18.26</b>	<b>58.66</b>	<b>6.58</b>	<b>6.85</b>	<b>30.54</b>	<b>44.69</b>	<b>55.10</b>	<b>54.38</b>	<b>325.87</b> MCM
<b>Momentary Peak</b>	<b>138.28</b>	CMS, at 141.61 m. (MSL.), at 19.00 Hours, on Aug 31, 2019											
<b>Runoff Yield</b>	<b>1.72</b>	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>			<b>23.00</b>	Liters/Second/Square KM.				

## WATER YEAR : 2019

## CHI RIVER BASIN

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

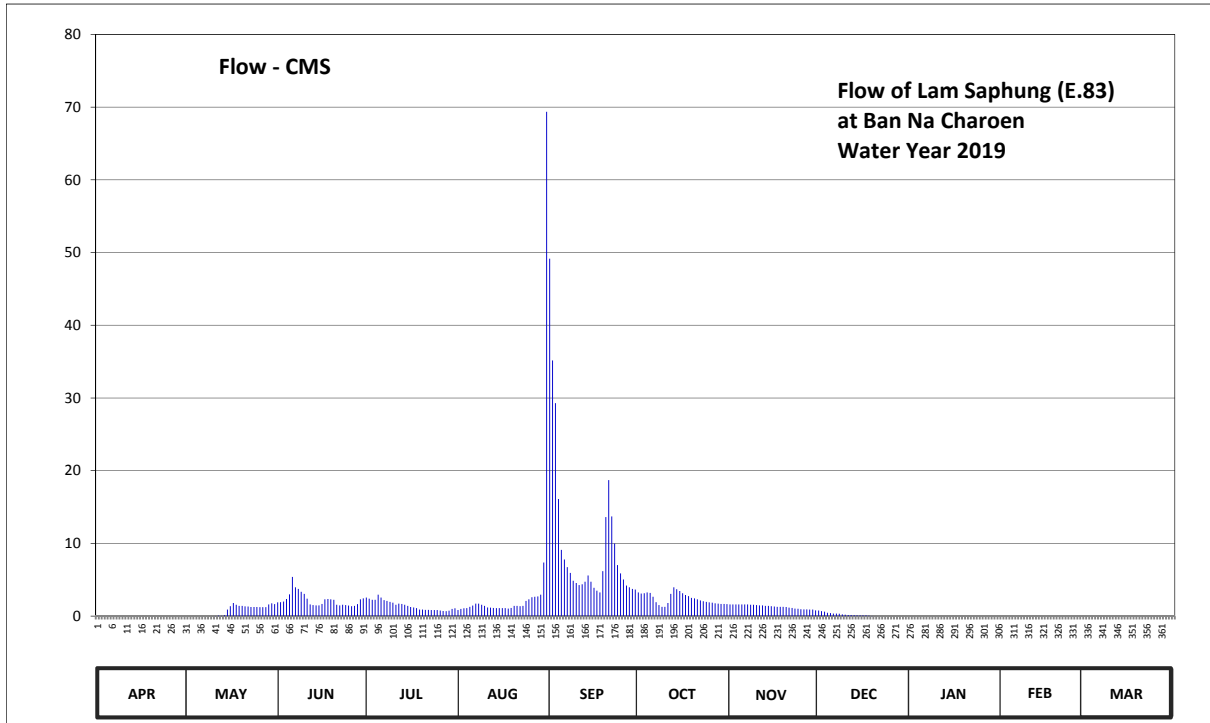
Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	<b>Ban</b> Na Charoen	<b>Amphoe</b> Nong Bua Daeng	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	744 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+222.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+236.237 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	223.37	223.49	224.12	224.27	223.81	228.81	224.41	224.05	223.79	223.47	223.25	223.15	
2	223.36	223.49	224.13	224.24	223.86	227.83	224.38	224.05	223.76	223.46	223.25	223.15	
3	223.36	223.49	224.15	224.21	223.89	227.34	224.39	224.05	223.74	223.45	223.22	223.15	
4	223.35	223.48	224.23	224.21	223.90	226.14	224.41	224.05	223.69	223.45	223.22	223.14	
5	223.33	223.48	224.36	224.35	223.96	225.35	224.40	224.05	223.67	223.44	223.22	223.13	
6	223.30	223.48	224.80	224.27	224.01	225.17	224.29	224.05	223.65	223.42	223.22	223.13	
7	223.29	223.49	224.55	224.20	224.08	225.02	224.13	224.05	223.65	223.42	223.22	223.10	
8	223.28	223.49	224.51	224.17	224.08	224.89	224.03	224.04	223.64	223.40	223.21	223.10	
9	223.28	223.50	224.43	224.14	224.04	224.71	223.96	224.04	223.61	223.39	223.21	223.10	
10	223.27	223.50	224.37	224.11	224.00	224.66	223.96	224.03	223.60	223.39	223.21	223.10	
11	223.28	223.51	224.24	224.04	223.93	224.61	224.10	224.02	223.58	223.39	223.20	223.10	
12	223.29	223.53	224.05	224.08	223.92	224.63	224.37	224.02	223.58	223.39	223.19	223.10	
13	223.30	223.52	224.03	224.07	223.91	224.69	224.55	224.00	223.57	223.37	223.19	223.10	
14	223.30	223.56	224.02	224.04	223.90	224.83	224.50	224.00	223.55	223.37	223.19	223.09	
15	223.31	223.83	224.02	224.00	223.90	224.69	224.45	223.99	223.55	223.36	223.19	223.09	
16	223.33	223.99	224.07	223.95	223.90	224.54	224.39	223.97	223.55	223.35	223.19	223.09	
17	223.33	224.10	224.22	223.93	223.90	224.46	224.34	223.96	223.55	223.35	223.18	223.08	
18	223.35	224.04	224.23	223.90	223.88	224.41	224.31	223.96	223.53	223.35	223.18	223.08	
19	223.35	224.00	224.22	223.83	223.91	224.93	224.26	223.96	223.51	223.32	223.18	223.08	
20	223.36	224.00	224.21	223.83	224.00	225.88	224.25	223.95	223.50	223.32	223.17	223.08	
21	223.37	223.98	224.04	223.82	224.00	226.40	224.22	223.92	223.50	223.29	223.17	223.08	
22	223.39	223.97	224.02	223.82	223.99	225.89	224.19	223.91	223.50	223.29	223.17	223.08	
23	223.42	223.95	224.04	223.81	224.00	225.46	224.16	223.88	223.50	223.26	223.15	223.07	
24	223.45	223.95	224.03	223.81	224.17	225.06	224.14	223.87	223.50	223.26	223.15	223.07	
25	223.45	223.95	224.01	223.81	224.22	224.88	224.12	223.85	223.50	223.26	223.15	223.07	
26	223.46	223.94	223.99	223.79	224.28	224.74	224.11	223.84	223.50	223.26	223.15	223.07	
27	223.46	223.94	224.00	223.77	224.29	224.60	224.09	223.84	223.48	223.25	223.15	223.07	
28	223.46	223.94	224.06	223.76	224.30	224.55	224.08	223.83	223.48	223.25	223.15	223.07	
29	223.50	224.05	224.22	223.78	224.35	224.51	224.07	223.83	223.48	223.25	223.15	223.07	
30	223.50	224.09	224.25	223.86	225.11	224.49	224.07	223.80	223.47	223.25	223.07	223.07	
31		224.06		223.89	229.90		224.06		223.47	223.25		223.07	
Mean	223.36	223.77	224.19	223.99	224.24	225.27	224.23	223.96	223.57	223.35	223.19	223.09	
Max	223.50	224.10	224.80	224.35	229.90	228.81	224.55	224.05	223.79	223.47	223.25	223.15	229.90
Min	223.27	223.48	223.99	223.76	223.81	224.41	223.96	223.80	223.47	223.25	223.15	223.07	223.07
Annual Max Momentary Gage Height	230.50		m. (MSL.) ,				at 18.00 Hours, on Aug 31, 2019						
Zero Gage at Bottom Elevation	222.70		m. (MSL.) ,			River Bed	223.00	m. (MSL.)					
Left Bank Elevation		233.40		m. (MSL.) ,									
Right Bank Elevation		232.70		m. (MSL.) ,		Drainage Are	744	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.88	2.55	0.83	49.16	3.25	1.60	0.77	0.00	0.00	0.00	
2	0.00	0.00	1.92	2.40	0.98	35.16	3.10	1.60	0.68	0.00	0.00	0.00	
3	0.00	0.00	2.00	2.25	1.07	29.28	3.15	1.60	0.62	0.00	0.00	0.00	
4	0.00	0.00	2.35	2.25	1.10	16.10	3.25	1.60	0.47	0.00	0.00	0.00	
5	0.00	0.00	3.00	2.95	1.28	9.10	3.20	1.60	0.41	0.00	0.00	0.00	
6	0.00	0.00	5.40	2.55	1.44	7.79	2.65	1.60	0.35	0.00	0.00	0.00	
7	0.00	0.00	3.95	2.20	1.72	6.74	1.92	1.60	0.35	0.00	0.00	0.00	
8	0.00	0.00	3.75	2.08	1.72	5.94	1.52	1.56	0.32	0.00	0.00	0.00	
9	0.00	0.00	3.35	1.96	1.56	4.86	1.28	1.56	0.23	0.00	0.00	0.00	
10	0.00	0.00	3.05	1.84	1.40	4.56	1.28	1.52	0.20	0.00	0.00	0.00	
11	0.00	0.02	2.40	1.56	1.19	4.26	1.80	1.48	0.16	0.00	0.00	0.00	
12	0.00	0.06	1.60	1.72	1.16	4.38	3.05	1.48	0.16	0.00	0.00	0.00	
13	0.00	0.04	1.52	1.68	1.13	4.74	3.95	1.40	0.14	0.00	0.00	0.00	
14	0.00	0.12	1.48	1.56	1.10	5.58	3.70	1.40	0.10	0.00	0.00	0.00	
15	0.00	0.89	1.48	1.40	1.10	4.74	3.45	1.37	0.10	0.00	0.00	0.00	
16	0.00	1.37	1.68	1.25	1.10	3.90	3.15	1.31	0.10	0.00	0.00	0.00	
17	0.00	1.80	2.30	1.19	1.10	3.50	2.90	1.28	0.10	0.00	0.00	0.00	
18	0.00	1.56	2.35	1.10	1.04	3.25	2.75	1.28	0.06	0.00	0.00	0.00	
19	0.00	1.40	2.30	0.89	1.13	6.18	2.50	1.28	0.02	0.00	0.00	0.00	
20	0.00	1.40	2.25	0.89	1.40	13.62	2.45	1.25	0.00	0.00	0.00	0.00	
21	0.00	1.34	1.56	0.86	1.40	18.70	2.30	1.16	0.00	0.00	0.00	0.00	
22	0.00	1.31	1.48	0.86	1.37	13.71	2.16	1.13	0.00	0.00	0.00	0.00	
23	0.00	1.25	1.56	0.83	1.40	9.98	2.04	1.04	0.00	0.00	0.00	0.00	
24	0.00	1.25	1.52	0.83	2.08	7.02	1.96	1.01	0.00	0.00	0.00	0.00	
25	0.00	1.25	1.44	0.83	2.30	5.88	1.88	0.95	0.00	0.00	0.00	0.00	
26	0.00	1.22	1.37	0.77	2.60	5.04	1.84	0.92	0.00	0.00	0.00	0.00	
27	0.00	1.22	1.40	0.71	2.65	4.20	1.76	0.92	0.00	0.00	0.00	0.00	
28	0.00	1.22	1.64	0.68	2.70	3.95	1.72	0.89	0.00	0.00	0.00	0.00	
29	0.00	1.60	2.30	0.74	2.95	3.75	1.68	0.89	0.00	0.00	0.00	0.00	
30	0.00	1.76	2.45	0.98	7.37	3.65	1.68	0.80	0.00	0.00	0.00	0.00	
31	0.00	1.64	0.00	1.07	69.37	0.00	1.64	0.00	0.00	0.00	0.00	0.00	
Total	0.00	23.72	66.73	45.43	120.74	298.72	74.96	39.08	5.34	0.00	0.00	0.00	674.72 CMSDAY
Mean	0.00	0.77	2.22	1.47	3.89	9.96	2.42	1.30	0.17	0.00	0.00	0.00	1.84 CMS
Max	0.00	1.80	5.40	2.95	69.37	49.16	3.95	1.60	0.77	0.00	0.00	0.00	69.37 CMS
Min	0.00	0.00	1.37	0.68	0.83	3.25	1.28	0.80	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	2.05	5.77	3.93	10.43	25.81	6.48	3.38	0.46	0.00	0.00	0.00	58.30 MCM
Momentary Peak	83.00	CMS, at 230.50 m. (MSL.), at 18.00 Hours, on Aug 31, 2019											
Runoff Yield	2.48	Liters/Second/Square KM.		Momentary Peak Yield		111.56	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

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

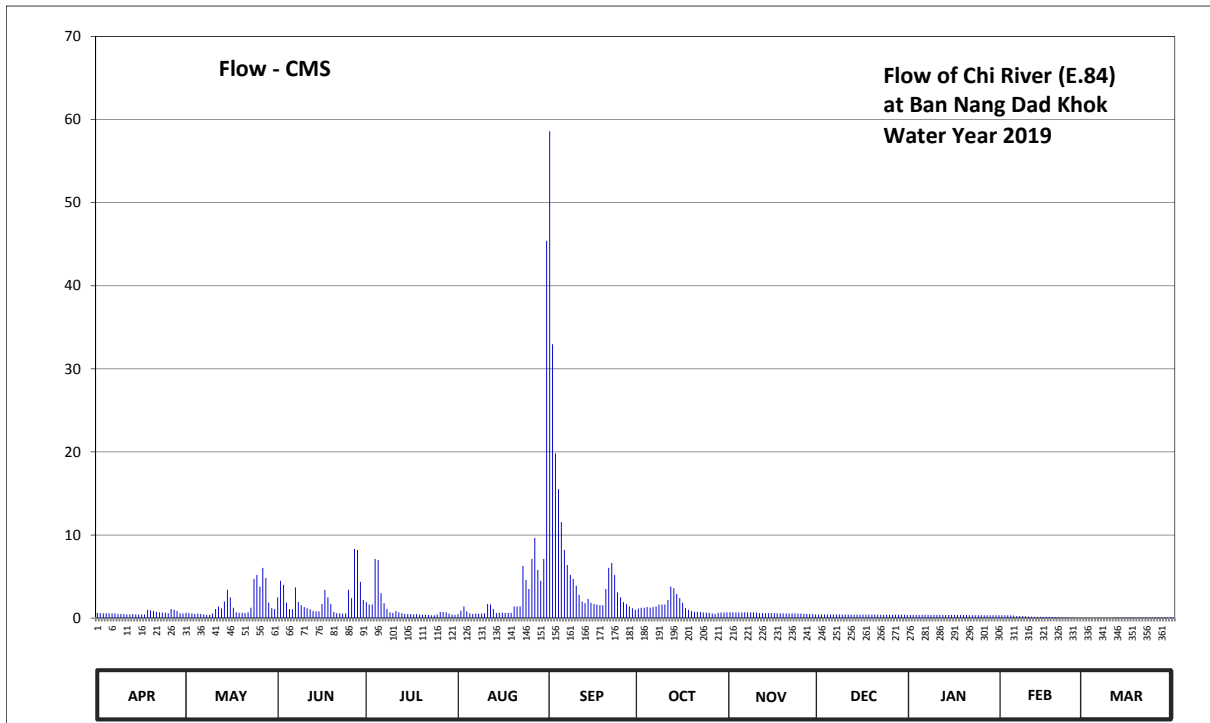
Lat 16 - 09 - 08 N Long 101 - 35 - 07 E

Location : on left bank at Ban Nang Dad Khok.

	<b>Ban</b>	Nang Dad Khok	<b>Amphoe</b>	Nong Bua Daeng	<b>Changwat</b>	Chaiyaphum
<b>Drainage Area</b>	508	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+237.600 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.				<b>Elevation</b>	+246.755 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.55	239.55	239.85	239.79	239.49	243.12	239.68	239.58	239.48	239.45	239.44	239.30	
2	239.54	239.54	240.04	239.75	239.63	242.02	239.70	239.58	239.48	239.45	239.44	239.30	
3	239.53	239.52	240.00	239.75	239.72	241.27	239.70	239.57	239.48	239.45	239.44	239.30	
4	239.54	239.50	239.78	240.26	239.61	240.96	239.71	239.57	239.48	239.45	239.43	239.30	
5	239.53	239.51	239.67	240.25	239.53	240.63	239.70	239.57	239.48	239.45	239.42	239.30	
6	239.53	239.50	239.66	239.90	239.50	240.35	239.71	239.58	239.48	239.45	239.40	239.30	
7	239.52	239.48	239.97	239.77	239.52	240.20	239.72	239.58	239.48	239.45	239.40	239.30	
8	239.50	239.45	239.79	239.67	239.51	240.10	239.75	239.58	239.48	239.45	239.40	239.30	
9	239.50	239.46	239.74	239.58	239.52	240.06	239.75	239.57	239.47	239.45	239.39	239.30	
10	239.50	239.52	239.71	239.55	239.53	239.99	239.75	239.57	239.47	239.45	239.38	239.30	
11	239.48	239.67	239.69	239.62	239.76	239.88	239.82	239.54	239.47	239.45	239.37	239.32	
12	239.48	239.72	239.66	239.58	239.75	239.80	239.98	239.54	239.47	239.45	239.36	239.32	
13	239.49	239.68	239.62	239.53	239.67	239.77	239.96	239.54	239.47	239.45	239.36	239.32	
14	239.48	239.80	239.61	239.50	239.54	239.83	239.89	239.54	239.47	239.45	239.36	239.32	
15	239.47	239.94	239.61	239.50	239.56	239.78	239.84	239.54	239.47	239.45	239.36	239.32	
16	239.48	239.85	239.76	239.49	239.56	239.76	239.78	239.54	239.47	239.45	239.36	239.32	
17	239.48	239.70	239.94	239.48	239.55	239.75	239.69	239.53	239.47	239.45	239.36	239.32	
18	239.65	239.58	239.85	239.49	239.55	239.74	239.65	239.53	239.47	239.45	239.35	239.32	
19	239.64	239.55	239.76	239.47	239.55	239.74	239.62	239.53	239.47	239.45	239.35	239.32	
20	239.62	239.55	239.60	239.46	239.72	239.95	239.60	239.52	239.47	239.45	239.35	239.32	
21	239.60	239.54	239.54	239.46	239.72	240.17	239.60	239.52	239.47	239.44	239.33	239.33	
22	239.58	239.58	239.53	239.45	239.72	240.22	239.59	239.52	239.46	239.44	239.33	239.33	
23	239.57	239.70	239.51	239.44	240.19	240.10	239.57	239.52	239.46	239.44	239.33	239.33	
24	239.56	240.06	239.53	239.44	240.05	239.91	239.56	239.51	239.46	239.44	239.32	239.33	
25	239.54	240.10	239.94	239.48	239.95	239.85	239.55	239.51	239.46	239.44	239.31	239.33	
26	239.67	239.98	239.84	239.59	240.26	239.79	239.52	239.50	239.46	239.44	239.30	239.33	
27	239.65	240.17	240.36	239.59	240.47	239.76	239.50	239.50	239.46	239.44	239.30	239.33	
28	239.62	240.07	240.35	239.58	240.15	239.72	239.55	239.50	239.46	239.44	239.30	239.33	
29	239.53	239.78	240.03	239.51	240.04	239.69	239.57	239.49	239.46	239.44	239.30	239.33	
30	239.52	239.69	239.82	239.47	240.26	239.65	239.57	239.48	239.46	239.44	239.30	239.33	
31		239.67		239.45	242.67		239.58		239.45	239.44		239.33	
Mean	239.54	239.69	239.79	239.61	239.85	240.19	239.68	239.54	239.47	239.45	239.36	239.32	
Max	239.67	240.17	240.36	240.26	242.67	243.12	239.98	239.58	239.48	239.45	239.44	239.33	243.12
Min	239.47	239.45	239.51	239.44	239.49	239.65	239.50	239.48	239.45	239.44	239.30	239.30	239.30
Annual Max Momentary Gage Height	243.20		m. (MSL.) ,				at 18.00 Hours, on Aug 31, 2019						
Zero Gage at Bottom Elevation	237.60		m. (MSL.) ,			River Bed	238.30	m. (MSL.)					
Left Bank Elevation		243.70		m. (MSL.) ,									
Right Bank Elevation		243.97		m. (MSL.) ,		Drainage Are	508	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.63	0.63	2.50	1.93	0.48	58.60	1.15	0.70	0.45	0.38	0.35	0.00	
2	0.60	0.60	4.48	1.63	0.90	32.96	1.25	0.70	0.45	0.38	0.35	0.00	
3	0.58	0.55	4.00	1.63	1.40	19.82	1.25	0.68	0.45	0.38	0.35	0.00	
4	0.60	0.50	1.85	7.12	0.80	15.52	1.33	0.68	0.45	0.38	0.33	0.00	
5	0.58	0.53	1.10	7.00	0.58	11.56	1.25	0.68	0.45	0.38	0.30	0.00	
6	0.58	0.50	1.05	3.00	0.50	8.20	1.33	0.70	0.45	0.38	0.25	0.00	
7	0.55	0.45	3.70	1.78	0.55	6.40	1.40	0.70	0.45	0.38	0.25	0.00	
8	0.50	0.38	1.93	1.10	0.53	5.20	1.63	0.70	0.45	0.38	0.25	0.00	
9	0.50	0.40	1.55	0.70	0.55	4.72	1.63	0.68	0.43	0.38	0.23	0.00	
10	0.50	0.55	1.33	0.63	0.58	3.90	1.63	0.68	0.43	0.38	0.20	0.00	
11	0.45	1.10	1.20	0.85	1.70	2.80	2.20	0.60	0.43	0.38	0.18	0.05	
12	0.45	1.40	1.05	0.70	1.63	2.00	3.80	0.60	0.43	0.38	0.15	0.05	
13	0.48	1.15	0.85	0.58	1.10	1.78	3.60	0.60	0.43	0.38	0.15	0.05	
14	0.45	2.00	0.80	0.50	0.60	2.30	2.90	0.60	0.43	0.38	0.15	0.05	
15	0.43	3.40	0.80	0.50	0.65	1.85	2.40	0.60	0.43	0.38	0.15	0.05	
16	0.45	2.50	1.70	0.48	0.65	1.70	1.85	0.60	0.43	0.38	0.15	0.05	
17	0.45	1.25	3.40	0.45	0.63	1.63	1.20	0.58	0.43	0.38	0.15	0.05	
18	1.00	0.70	2.50	0.48	0.63	1.55	1.00	0.58	0.43	0.38	0.13	0.05	
19	0.95	0.63	1.70	0.43	0.63	1.55	0.85	0.58	0.43	0.38	0.13	0.05	
20	0.85	0.63	0.75	0.40	1.40	3.50	0.75	0.55	0.43	0.38	0.13	0.05	
21	0.75	0.60	0.60	0.40	1.40	6.04	0.75	0.55	0.43	0.35	0.08	0.08	
22	0.70	0.70	0.58	0.38	1.40	6.64	0.73	0.55	0.40	0.35	0.08	0.08	
23	0.68	1.25	0.53	0.35	6.28	5.20	0.68	0.55	0.40	0.35	0.08	0.08	
24	0.65	4.72	0.58	0.35	4.60	3.10	0.65	0.53	0.40	0.35	0.05	0.08	
25	0.60	5.20	3.40	0.45	3.50	2.50	0.63	0.53	0.40	0.35	0.03	0.08	
26	1.10	3.80	2.40	0.73	7.12	1.93	0.55	0.50	0.40	0.35	0.00	0.08	
27	1.00	6.04	8.32	0.73	9.64	1.70	0.50	0.50	0.40	0.35	0.00	0.08	
28	0.85	4.84	8.20	0.70	5.80	1.40	0.63	0.50	0.40	0.35	0.00	0.08	
29	0.58	1.85	4.36	0.53	4.48	1.20	0.68	0.48	0.40	0.35	0.00	0.08	
30	0.55	1.20	2.20	0.43	7.12	1.00	0.68	0.45	0.40	0.35	0.00	0.08	
31		1.10		0.38	45.40		0.70		0.38	0.35		0.08	
<b>Total</b>	19.04	51.15	69.41	37.32	113.23	218.25	41.58	17.93	13.17	11.45	4.65	1.38	598.56 CMSDAY
<b>Mean</b>	0.63	1.65	2.31	1.20	3.65	7.27	1.34	0.60	0.42	0.37	0.16	0.04	1.64 CMS
<b>Max</b>	1.10	6.04	8.32	7.12	45.40	58.60	3.80	0.70	0.45	0.38	0.35	0.08	58.60 CMS
<b>Min</b>	0.43	0.38	0.53	0.35	0.48	1.00	0.50	0.45	0.38	0.35	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.65	4.42	6.00	3.22	9.78	18.86	3.59	1.55	1.14	0.99	0.40	0.12	51.72 MCM
<b>Momentary Peak</b>	61.00 CMS, at 243.20 m. (MSL.), at 18.00 Hours, on Aug 31, 2019												
<b>Runoff Yield</b>	3.23 Liters/Second/Square KM.			Momentary Peak Yield			120.08 Liters/Second/Square KM.						

**WATER YEAR : 2019****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.**

	<b>Ban Non Han</b>	<b>Amphoe Chum Phae</b>	<b>Changwat Khon Kaen</b>
<b>Drainage Area</b>	1,218 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+224.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+235.165 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 11 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

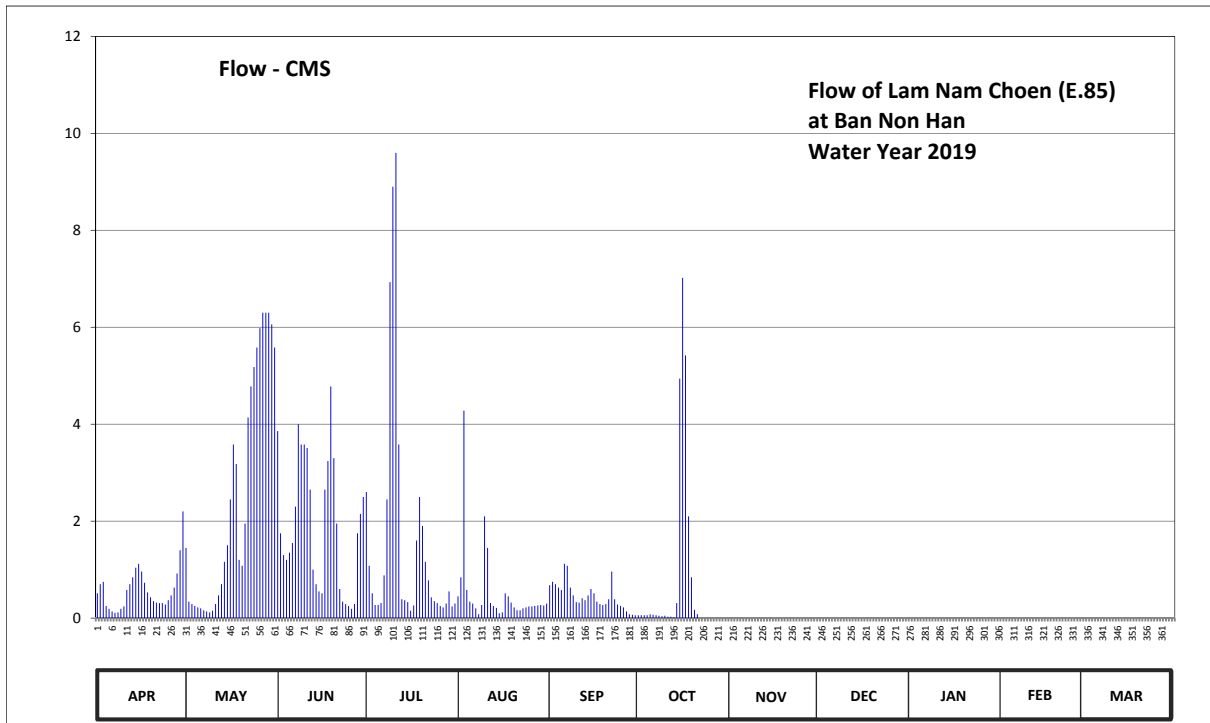
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.48	226.75	227.18	226.98	226.45	226.55	226.08	225.72	225.49	226.01	226.08	226.13	
2	226.56	226.39	226.81	226.67	226.61	226.58	226.07	225.72	225.50	226.02	226.07	226.13	
3	226.58	226.34	226.72	226.48	227.24	226.56	226.08	225.72	225.53	226.04	226.07	226.12	
4	226.30	226.30	226.70	226.32	226.51	226.53	226.08	225.72	225.56	226.07	226.06	226.12	
5	226.23	226.27	226.73	226.32	226.39	226.51	226.10	225.71	225.59	226.09	226.05	226.10	
6	226.18	226.24	226.77	226.36	226.35	226.68	226.09	225.71	225.62	226.09	226.04	226.10	
7	226.14	226.20	226.92	226.62	226.24	226.67	226.07	225.70	225.64	226.06	226.96	226.08	
8	226.15	226.18	227.20	226.95	226.10	226.53	226.06	225.70	225.65	226.00	226.48	226.08	
9	226.23	226.15	227.14	227.57	226.32	226.46	226.05	225.68	225.66	225.96	226.33	226.08	
10	226.29	226.19	227.14	227.78	226.88	226.38	226.06	225.68	225.69	225.94	226.30	226.08	
11	226.51	226.34	227.13	227.85	226.75	226.37	226.04	225.68	225.73	225.93	226.27	226.07	
12	226.56	226.46	226.99	227.14	226.36	226.43	226.04	225.68	225.76	225.92	226.23	226.07	
13	226.61	226.56	226.65	226.42	226.30	226.41	226.02	225.67	225.77	225.91	226.19	226.05	
14	226.66	226.69	226.56	226.41	226.25	226.46	226.36	225.64	225.80	225.88	226.16	226.03	
15	226.68	226.76	226.50	226.38	226.13	226.52	227.33	225.62	225.84	225.86	226.15	226.04	
16	226.64	226.95	226.48	226.19	226.15	226.48	227.58	225.59	225.85	225.86	226.15	226.05	
17	226.57	227.14	226.99	226.31	226.48	226.39	227.39	225.55	225.86	225.84	226.15	226.05	
18	226.49	227.08	227.09	226.78	226.45	226.34	226.88	225.55	225.87	225.84	226.13	226.05	
19	226.44	226.70	227.31	226.96	226.37	226.32	226.61	225.55	225.89	226.23	226.13	226.05	
20	226.40	226.67	227.10	226.84	226.27	226.34	226.21	225.54	225.90	226.90	226.13	226.08	
21	226.37	226.85	226.85	226.69	226.20	226.42	226.10	225.55	225.91	226.44	226.11	226.11	
22	226.36	227.22	226.52	226.59	226.20	226.64	225.98	225.53	225.92	226.30	227.10	226.13	
23	226.36	227.31	226.39	226.44	226.24	226.42	225.86	225.53	225.93	226.26	226.94	226.15	
24	226.33	227.36	226.34	226.40	226.27	226.33	225.80	225.52	225.94	226.23	226.62	226.15	
25	226.41	227.41	226.30	226.36	226.29	226.30	225.80	225.50	225.95	226.20	226.51	226.17	
26	226.46	227.46	226.23	226.30	226.29	226.27	225.80	225.50	225.96	226.19	226.40	226.21	
27	226.53	227.50	226.34	226.27	226.30	226.18	225.81	225.50	225.97	226.15	226.31	226.29	
28	226.63	227.50	226.81	226.35	226.31	226.10	225.81	225.50	225.98	226.12	226.24	226.39	
29	226.74	227.50	226.89	226.50	226.32	226.09	225.77	225.48	225.98	226.09	226.15	226.39	
30	226.90	227.47	226.96	226.29	226.31	226.08	225.75	225.48	225.98	226.06	226.31	226.33	
31		227.41		226.35	226.35		225.72		225.99	226.04		226.32	
Mean	226.46	226.82	226.79	226.64	226.38	226.41	226.17	225.61	225.80	226.08	226.29	226.14	
Max	226.90	227.50	227.31	227.85	227.24	226.68	227.58	225.72	225.99	226.90	227.10	226.39	227.85
Min	226.14	226.15	226.23	226.19	226.10	226.08	225.72	225.48	225.49	225.84	226.04	226.03	225.48
Annual Max Momentary Gage Height	227.97												
Zero Gage at Bottom Elevation	224.80						225.79						
Left Bank Elevation	233.92												
Right Bank Elevation	232.55												
Annual Max Momentary Gage Height		227.97											
Zero Gage at Bottom Elevation		224.80					225.79						
Left Bank Elevation		233.92											
Right Bank Elevation		232.55											
Annual Max Momentary Gage Height													
Zero Gage at Bottom Elevation													
Left Bank Elevation													
Right Bank Elevation													

at 06.00 Hours, on Jul 11, 2019

River Bed 225.79 m. (MSL.)

m. (MSL.)

Drainage Area 1,218 Square Kilometers

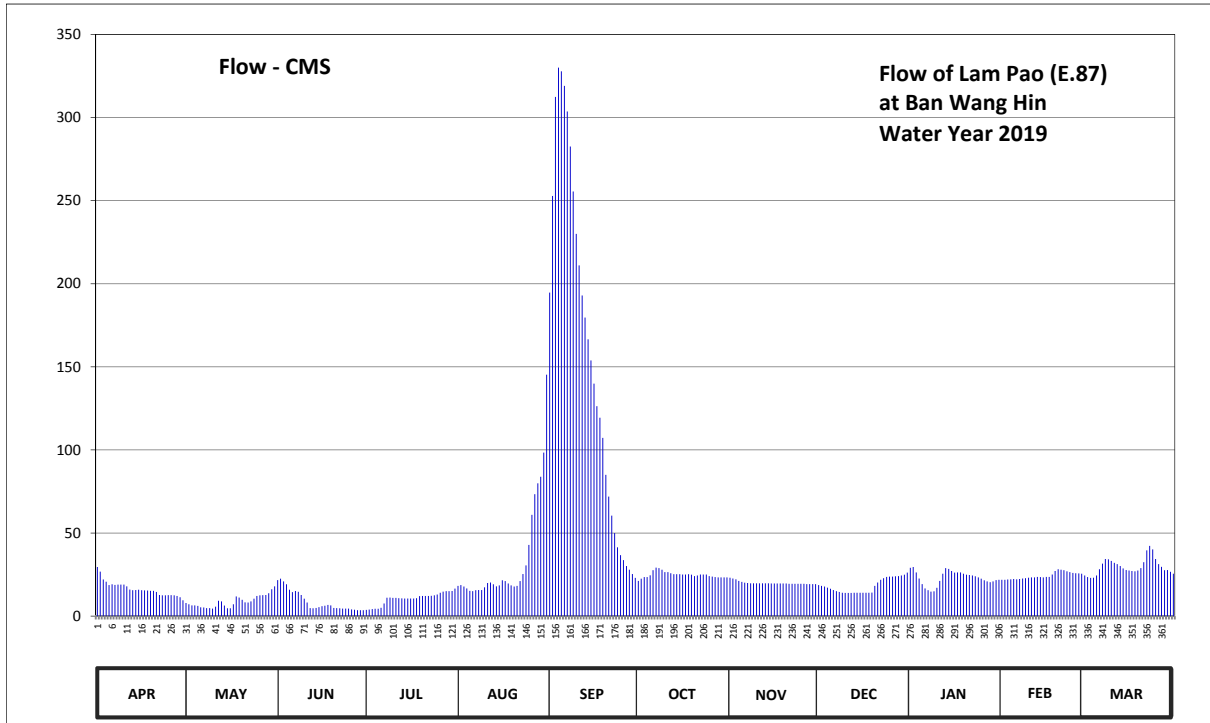


**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	1.45	3.86	2.60	0.45	0.68	0.06	0.00	0.00	0.00	0.00	0.00	
2	0.70	0.34	1.75	1.08	0.84	0.75	0.06	0.00	0.00	0.00	0.00	0.00	
3	0.75	0.29	1.30	0.51	4.28	0.70	0.06	0.00	0.00	0.00	0.00	0.00	
4	0.25	0.25	1.20	0.27	0.58	0.63	0.06	0.00	0.00	0.00	0.00	0.00	
5	0.19	0.22	1.35	0.27	0.34	0.58	0.08	0.00	0.00	0.00	0.00	0.00	
6	0.14	0.20	1.55	0.31	0.30	1.12	0.07	0.00	0.00	0.00	0.00	0.00	
7	0.11	0.16	2.30	0.88	0.20	1.08	0.06	0.00	0.00	0.00	0.00	0.00	
8	0.12	0.14	4.00	2.45	0.08	0.63	0.05	0.00	0.00	0.00	0.00	0.00	
9	0.19	0.12	3.58	6.93	0.27	0.47	0.04	0.00	0.00	0.00	0.00	0.00	
10	0.24	0.15	3.58	8.90	2.10	0.33	0.05	0.00	0.00	0.00	0.00	0.00	
11	0.58	0.29	3.51	9.60	1.45	0.32	0.03	0.00	0.00	0.00	0.00	0.00	
12	0.70	0.47	2.65	3.58	0.31	0.41	0.03	0.00	0.00	0.00	0.00	0.00	
13	0.84	0.70	1.00	0.39	0.25	0.37	0.02	0.00	0.00	0.00	0.00	0.00	
14	1.04	1.16	0.70	0.37	0.21	0.47	0.31	0.00	0.00	0.00	0.00	0.00	
15	1.12	1.50	0.55	0.33	0.10	0.60	4.94	0.00	0.00	0.00	0.00	0.00	
16	0.96	2.45	0.51	0.15	0.12	0.51	7.02	0.00	0.00	0.00	0.00	0.00	
17	0.73	3.58	2.65	0.26	0.51	0.34	5.42	0.00	0.00	0.00	0.00	0.00	
18	0.53	3.18	3.24	1.60	0.45	0.29	2.10	0.00	0.00	0.00	0.00	0.00	
19	0.43	1.20	4.78	2.50	0.32	0.27	0.84	0.00	0.00	0.00	0.00	0.00	
20	0.35	1.08	3.30	1.90	0.22	0.29	0.17	0.00	0.00	0.00	0.00	0.00	
21	0.32	1.95	1.95	1.16	0.16	0.39	0.08	0.00	0.00	0.00	0.00	0.00	
22	0.31	4.14	0.60	0.78	0.16	0.96	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.31	4.78	0.34	0.43	0.20	0.39	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.28	5.18	0.29	0.35	0.22	0.28	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.37	5.58	0.25	0.31	0.24	0.25	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.47	5.98	0.19	0.25	0.24	0.22	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.63	6.30	0.29	0.22	0.25	0.14	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.92	6.30	1.75	0.30	0.26	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
29	1.40	6.30	2.15	0.55	0.27	0.07	0.00	0.00	0.00	0.00	0.00	0.00	
30	2.20	6.06	2.50	0.24	0.26	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
31		5.58		0.30	0.30		0.00		0.00	0.00		0.00	
<b>Total</b>	17.69	77.08	57.67	49.77	15.94	13.68	21.55	0.00	0.00	0.00	0.00	0.00	253.38 CMSDAY
<b>Mean</b>	0.59	2.49	1.92	1.61	0.51	0.46	0.70	0.00	0.00	0.00	0.00	0.00	0.69 CMS
<b>Max</b>	2.20	6.30	4.78	9.60	4.28	1.12	7.02	0.00	0.00	0.00	0.00	0.00	9.60 CMS
<b>Min</b>	0.11	0.12	0.19	0.15	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.53	6.66	4.98	4.30	1.38	1.18	1.86	0.00	0.00	0.00	0.00	0.00	21.89 MCM
<b>Momentary Peak</b>	10.80	CMS, at 227.97 m. (MSL.), at 06.00 Hours, on Jul 11, 2019											
<b>Runoff Yield</b>	0.57	Liters/Second/Square KM. Momentary Peak Yield 8.87 Liters/Second/Square KM.											







APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.52	7.92	21.68	3.72	18.16	194.70	21.20	23.12	18.64	29.04	21.84	24.40	
2	26.80	7.08	22.48	3.96	18.64	252.80	22.48	22.64	18.16	29.52	21.84	23.44	
3	22.00	6.48	20.88	4.20	17.76	312.40	23.44	22.16	17.76	26.32	22.00	22.96	
4	20.72	6.48	19.12	4.44	16.68	330.00	23.44	21.20	17.16	22.64	22.16	23.12	
5	18.64	6.12	15.84	4.44	15.24	327.80	24.56	20.56	16.44	19.28	22.32	24.40	
6	19.12	5.28	14.40	5.04	15.00	319.00	27.60	20.08	15.72	16.68	22.16	28.24	
7	18.80	5.16	15.12	7.56	15.60	303.60	29.20	19.92	15.00	15.60	22.32	31.60	
8	18.96	4.80	14.64	11.04	15.72	282.60	28.88	19.76	14.52	14.76	22.64	34.36	
9	18.96	4.80	12.72	11.16	15.72	255.50	27.92	19.76	14.04	14.88	22.80	34.18	
10	18.96	4.56	10.44	10.92	17.28	230.00	26.48	19.76	13.92	17.04	23.12	33.20	
11	17.88	5.64	8.16	10.92	19.92	211.00	26.48	19.76	13.92	21.20	23.28	32.08	
12	15.96	9.24	4.80	10.80	20.24	192.90	25.84	19.76	13.92	25.52	23.28	31.28	
13	15.60	8.88	4.68	10.68	19.12	179.60	25.20	19.76	14.04	28.88	23.60	30.16	
14	15.72	6.36	4.92	10.56	17.88	166.50	25.20	19.76	14.04	28.40	23.44	28.72	
15	15.84	4.68	5.40	10.56	18.48	153.85	25.20	19.60	14.04	27.12	23.28	27.76	
16	15.60	4.68	6.00	10.56	21.52	139.90	25.04	19.60	14.04	26.16	23.60	27.44	
17	15.48	7.08	6.24	10.56	21.04	126.30	25.04	19.60	14.04	26.32	23.60	27.12	
18	15.36	11.88	6.72	10.80	19.60	119.36	25.20	19.60	14.04	26.32	25.04	26.96	
19	15.24	11.16	6.48	12.00	18.48	107.20	24.88	19.60	14.16	25.52	27.12	27.44	
20	15.24	9.84	4.92	12.12	17.76	84.96	24.08	19.60	18.16	24.88	28.24	28.88	
21	14.52	8.28	4.80	12.12	18.16	71.92	24.40	19.44	20.24	24.72	27.92	32.40	
22	12.72	8.16	4.68	12.12	21.04	60.48	25.04	19.44	21.84	24.40	27.60	39.58	
23	12.48	8.88	4.56	12.24	25.36	50.00	25.04	19.44	22.80	23.92	26.96	42.28	
24	12.48	10.44	4.56	12.48	30.48	41.38	25.04	19.44	23.60	23.28	26.48	40.12	
25	12.60	12.12	4.56	12.96	42.82	36.70	24.08	19.44	23.76	22.48	26.00	34.36	
26	12.60	12.48	4.08	14.04	60.92	33.68	23.76	19.44	23.76	21.52	25.84	31.28	
27	12.48	12.60	3.84	14.76	73.36	30.16	23.44	19.28	23.92	20.88	25.68	29.68	
28	12.12	12.72	3.60	15.00	79.92	27.92	23.28	19.28	24.08	20.40	25.52	27.60	
29	11.40	13.80	3.60	15.00	83.84	25.36	23.28	19.28	24.40	20.88	25.36	27.76	
30	9.48	16.20	3.60	15.12	98.40	22.96	23.28	19.28	24.88	21.68		26.64	
31		17.88		16.56	145.30		23.28		26.16	21.84		25.52	
Total	493.28	271.68	267.52	328.44	1039.44	4690.53	771.28	599.36	565.20	712.08	705.04	924.96	11368.81 CMSDAY
Mean	16.44	8.76	8.92	10.59	33.53	156.35	24.88	19.98	18.23	22.97	24.31	29.84	31.06 CMS
Max	29.52	17.88	22.48	16.56	145.30	330.00	29.20	23.12	26.16	29.52	28.24	42.28	330.00 CMS
Min	9.48	4.56	3.60	3.72	15.00	22.96	21.20	19.28	13.92	14.76	21.84	22.96	3.60 CMS
Runoff	42.62	23.47	23.11	28.38	89.81	405.26	66.64	51.78	48.83	61.52	60.92	79.92	982.27 MCM
Momentary Peak		330.00				CMS, at 138.00 m. (MSL.), at 06.00 Hours, on Sep 4, 2019							
Runoff Yield		4.41				Liters/Second/Square KM.							Momentary Peak Yield 46.69 Liters/Second/Square KM.

## WATER YEAR : 2019

## CHI RIVER BASIN

## Chi River at Ban Don Khanuan , Maha Sarakham (E.91)

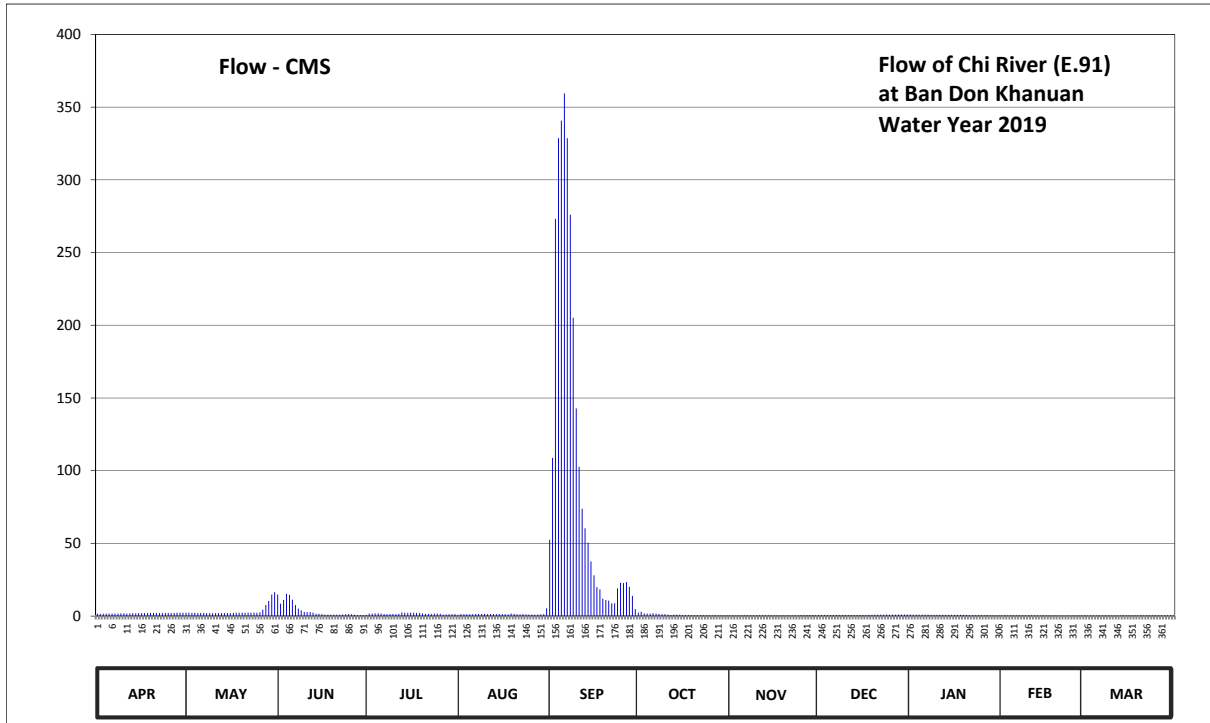
Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Don Khanuan.

	<b>Ban</b> Don Khanuan	<b>Amphoe</b> Kosum Phisai	<b>Changwat</b> Maha Sarakham
<b>Drainage Area</b>	29,265 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+138.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+151.082 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.46	139.53	140.22	139.37	139.40	141.62	139.54	139.31	139.34	139.41	139.31	139.29	
2	139.45	139.53	139.93	139.48	139.44	143.07	139.60	139.30	139.35	139.40	139.31	139.29	
3	139.46	139.52	140.05	139.48	139.43	145.47	139.49	139.31	139.35	139.40	139.31	139.29	
4	139.47	139.52	140.24	139.49	139.43	146.06	139.47	139.30	139.35	139.40	139.30	139.29	
5	139.47	139.51	140.21	139.49	139.43	146.17	139.46	139.31	139.35	139.40	139.30	139.29	
6	139.47	139.52	140.06	139.47	139.43	146.34	139.50	139.31	139.35	139.40	139.30	139.29	
7	139.47	139.52	139.88	139.44	139.44	146.06	139.48	139.31	139.35	139.39	139.30	139.29	
8	139.47	139.51	139.76	139.43	139.45	145.50	139.45	139.30	139.35	139.38	139.30	139.29	
9	139.49	139.51	139.70	139.44	139.45	144.65	139.43	139.31	139.35	139.38	139.30	139.29	
10	139.50	139.50	139.58	139.44	139.45	143.70	139.43	139.31	139.35	139.38	139.30	139.29	
11	139.48	139.51	139.57	139.43	139.44	142.94	139.39	139.31	139.35	139.38	139.30	139.29	
12	139.49	139.51	139.57	139.45	139.44	142.22	139.35	139.31	139.36	139.37	139.29	139.29	
13	139.50	139.51	139.54	139.55	139.44	141.86	139.40	139.31	139.36	139.37	139.29	139.30	
14	139.50	139.51	139.46	139.53	139.44	141.56	139.40	139.31	139.36	139.37	139.29	139.31	
15	139.51	139.51	139.46	139.53	139.44	141.17	139.40	139.31	139.36	139.37	139.29	139.31	
16	139.51	139.51	139.44	139.53	139.44	140.82	139.33	139.31	139.36	139.37	139.29	139.31	
17	139.51	139.52	139.40	139.53	139.43	140.45	139.33	139.31	139.36	139.37	139.29	139.31	
18	139.52	139.53	139.40	139.52	139.42	140.38	139.33	139.31	139.37	139.37	139.29	139.31	
19	139.52	139.53	139.40	139.52	139.47	140.09	139.33	139.31	139.38	139.37	139.29	139.31	
20	139.52	139.53	139.40	139.49	139.45	140.05	139.33	139.31	139.39	139.36	139.29	139.31	
21	139.52	139.53	139.40	139.45	139.43	140.03	139.33	139.31	139.40	139.34	139.29	139.30	
22	139.51	139.54	139.40	139.45	139.42	139.94	139.33	139.31	139.39	139.33	139.29	139.31	
23	139.52	139.53	139.41	139.45	139.44	139.94	139.32	139.31	139.40	139.33	139.29	139.31	
24	139.52	139.54	139.43	139.47	139.42	140.41	139.31	139.31	139.41	139.32	139.29	139.31	
25	139.52	139.53	139.43	139.48	139.41	140.59	139.31	139.32	139.40	139.32	139.29	139.31	
26	139.52	139.56	139.43	139.46	139.41	140.58	139.30	139.33	139.41	139.32	139.29	139.31	
27	139.52	139.72	139.40	139.41	139.40	140.61	139.30	139.35	139.40	139.32	139.29	139.31	
28	139.53	139.88	139.32	139.42	139.41	140.46	139.30	139.35	139.41	139.31	139.29	139.31	
29	139.53	140.02	139.32	139.43	139.42	140.18	139.30	139.35	139.41	139.31	139.29	139.31	
30	139.53	140.22	139.32	139.43	139.43	139.74	139.30	139.33	139.41	139.31	139.29	139.31	
31		140.29		139.44	139.77		139.30		139.41	139.30		139.31	
Mean	139.50	139.60	139.60	139.47	139.44	142.09	139.38	139.31	139.37	139.36	139.29	139.30	
Max	139.53	140.29	140.24	139.55	139.77	146.34	139.60	139.35	139.41	139.41	139.31	139.31	146.34
Min	139.45	139.50	139.32	139.37	139.40	139.74	139.30	139.30	139.34	139.30	139.29	139.29	139.29
Annual Max Momentary Gage Height	146.42		m. (MSL.) ,			at 18.00 Hours, on Sep 6, 2019							
Zero Gage at Bottom Elevation	138.00		m. (MSL.) ,			River Bed	137.98	m. (MSL.)					
Left Bank Elevation		151.52		m. (MSL.) ,									
Right Bank Elevation		150.15		m. (MSL.) ,		Drainage Are	29,265	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	2.30	14.84	0.85	1.00	52.46	2.40	0.55	0.70	1.10	0.55	0.45	
2	1.50	2.30	8.60	1.80	1.40	108.78	3.00	0.50	0.75	1.00	0.55	0.45	
3	1.60	2.20	11.10	1.80	1.30	273.24	1.90	0.55	0.75	1.00	0.55	0.45	
4	1.70	2.20	15.28	1.90	1.30	328.60	1.70	0.50	0.75	1.00	0.50	0.45	
5	1.70	2.10	14.62	1.90	1.30	340.70	1.60	0.55	0.75	1.00	0.50	0.45	
6	1.70	2.20	11.32	1.70	1.30	359.40	2.00	0.55	0.75	1.00	0.50	0.45	
7	1.70	2.20	7.60	1.40	1.40	328.60	1.80	0.55	0.75	0.95	0.50	0.45	
8	1.70	2.10	5.20	1.30	1.50	276.00	1.50	0.50	0.75	0.90	0.50	0.45	
9	1.90	2.10	4.00	1.40	1.50	205.15	1.30	0.55	0.75	0.90	0.50	0.45	
10	2.00	2.00	2.80	1.40	1.50	142.80	1.30	0.55	0.75	0.90	0.50	0.45	
11	1.80	2.10	2.70	1.30	1.40	102.60	0.95	0.55	0.75	0.90	0.50	0.45	
12	1.90	2.10	2.70	1.50	1.40	73.80	0.75	0.55	0.80	0.85	0.45	0.45	
13	2.00	2.10	2.40	2.50	1.40	60.38	1.00	0.55	0.80	0.85	0.45	0.50	
14	2.00	2.10	1.60	2.30	1.40	50.48	1.00	0.55	0.80	0.85	0.45	0.55	
15	2.10	2.10	1.60	2.30	1.40	37.61	1.00	0.55	0.80	0.85	0.45	0.55	
16	2.10	2.10	1.40	2.30	1.40	28.04	0.65	0.55	0.80	0.85	0.45	0.55	
17	2.10	2.20	1.00	2.30	1.30	19.90	0.65	0.55	0.80	0.85	0.45	0.55	
18	2.20	2.30	1.00	2.20	1.20	18.36	0.65	0.55	0.85	0.85	0.45	0.55	
19	2.20	2.30	1.00	2.20	1.70	11.98	0.65	0.55	0.90	0.85	0.45	0.55	
20	2.20	2.30	1.00	1.90	1.50	11.10	0.65	0.55	0.95	0.80	0.45	0.55	
21	2.20	2.30	1.00	1.50	1.30	10.66	0.65	0.55	1.00	0.70	0.45	0.50	
22	2.10	2.40	1.00	1.50	1.20	8.80	0.65	0.55	0.95	0.65	0.45	0.55	
23	2.20	2.30	1.10	1.50	1.40	8.80	0.60	0.55	1.00	0.65	0.45	0.55	
24	2.20	2.40	1.30	1.70	1.20	19.02	0.55	0.55	1.10	0.60	0.45	0.55	
25	2.20	2.30	1.30	1.80	1.10	22.98	0.55	0.60	1.00	0.60	0.45	0.55	
26	2.20	2.60	1.30	1.60	1.10	22.76	0.50	0.65	1.10	0.60	0.45	0.55	
27	2.20	4.40	1.00	1.10	1.00	23.42	0.50	0.75	1.00	0.60	0.45	0.55	
28	2.30	7.60	0.60	1.20	1.10	20.12	0.50	0.75	1.10	0.55	0.45	0.55	
29	2.30	10.44	0.60	1.30	1.20	13.96	0.50	0.75	1.10	0.55	0.45	0.55	
30	2.30	14.84	0.60	1.30	1.30	4.80	0.50	0.65	1.10	0.55		0.55	
31		16.38		1.40	5.40		0.50		1.10	0.50		0.55	
Total	59.90	111.36	121.56	52.15	44.90	2985.30	32.45	17.20	27.25	24.80	13.75	15.75	3506.37 CMSDAY
Mean	2.00	3.59	4.05	1.68	1.45	99.51	1.05	0.57	0.88	0.80	0.47	0.51	9.58 CMS
Max	2.30	16.38	15.28	2.50	5.40	359.40	3.00	0.75	1.10	1.10	0.55	0.55	359.40 CMS
Min	1.50	2.00	0.60	0.85	1.00	4.80	0.50	0.50	0.70	0.50	0.45	0.45	0.45 CMS
Runoff	5.18	9.62	10.50	4.51	3.88	257.93	2.80	1.49	2.35	2.14	1.19	1.36	302.95 MCM
Momentary Peak	368.20	CMS, at 146.42 m. (MSL.), at 18.00 Hours, on Sep 6, 2019											
Runoff Yield	0.33	Liters/Second/Square KM.		Momentary Peak Yield		12.58	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

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

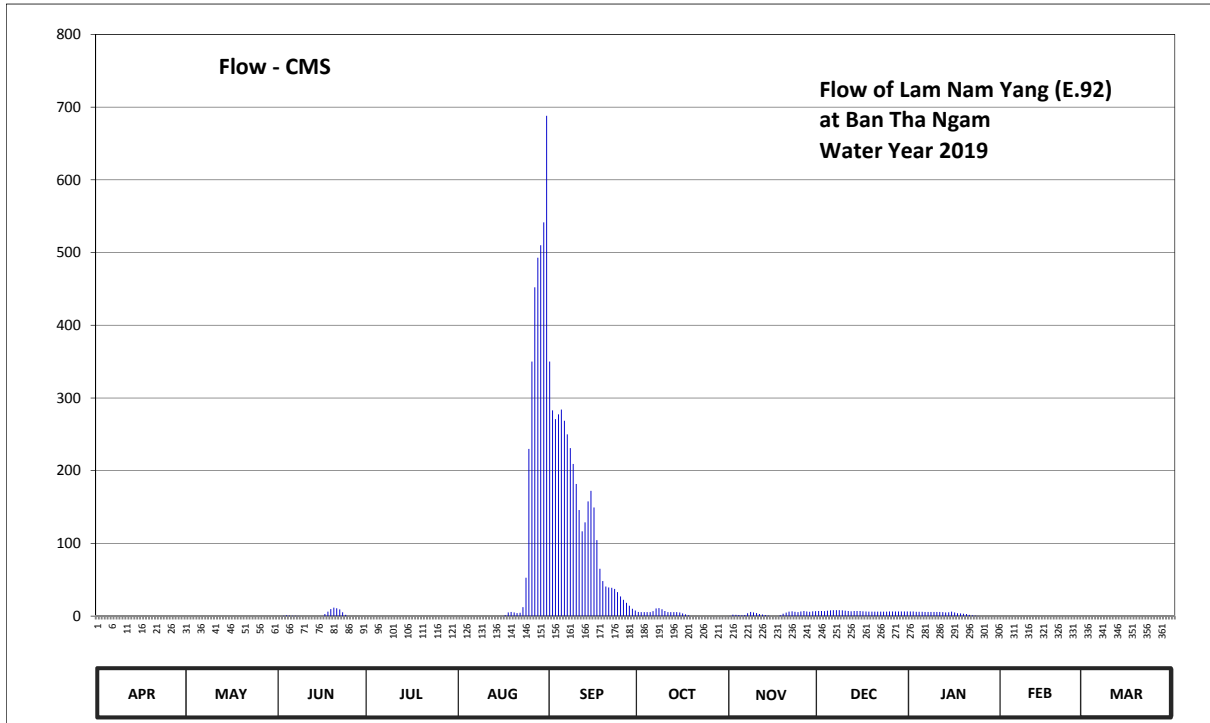
Lat 16 - 06 - 34 N Long 104 - 00 - 40 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Ngam</b>	<b>Amphoe</b>	<b>Selaphum</b>	<b>Changwat</b>	<b>Roi Et</b>
<b>Drainge Area</b>	3,359	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+124.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+136.964 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2007 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2007 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2007 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +132.270 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.17	125.20	126.23	125.82	125.79	134.61	127.35	126.63	127.49	127.41	126.29	125.24	
2	125.17	125.20	126.34	125.80	125.83	134.19	127.31	126.87	127.49	127.41	126.26	125.22	
3	125.17	125.20	126.66	125.79	125.85	134.08	127.31	126.85	127.48	127.36	126.24	125.23	
4	125.16	125.23	126.74	125.78	125.86	134.14	127.31	126.81	127.57	127.37	126.22	125.49	
5	125.15	125.44	126.68	125.81	125.86	134.20	127.31	126.75	127.62	127.36	126.18	125.61	
6	125.14	125.66	126.66	125.87	125.85	134.06	127.47	126.81	127.63	127.35	126.10	125.67	
7	125.14	125.71	126.65	126.00	125.86	133.88	127.93	127.12	127.63	127.35	125.93	125.62	
8	125.13	125.72	126.64	125.98	125.85	133.69	128.01	127.34	127.63	127.35	125.84	125.62	
9	125.13	125.75	126.60	125.95	125.85	133.45	127.80	127.25	127.62	127.35	125.81	125.62	
10	125.13	125.76	126.43	125.95	125.84	133.11	127.51	127.15	127.57	127.34	125.79	125.64	
11	125.15	125.80	126.26	125.89	125.82	132.64	127.31	126.99	127.49	127.34	125.78	125.66	
12	125.24	125.80	126.16	125.86	125.83	132.21	127.30	126.90	127.46	127.30	125.75	125.68	
13	125.28	125.79	126.13	125.83	125.84	132.40	127.30	126.81	127.49	127.25	125.70	125.69	
14	125.34	125.80	126.09	125.80	125.96	132.81	127.30	126.70	127.51	127.28	125.68	125.70	
15	125.35	125.90	126.09	125.77	126.24	132.99	127.25	126.61	127.49	127.38	125.66	125.68	
16	125.32	126.11	126.36	125.73	126.37	132.69	127.08	126.55	127.44	127.25	125.64	125.69	
17	125.30	126.15	126.99	125.70	126.79	132.01	126.93	126.56	127.42	127.13	125.62	125.67	
18	125.29	126.10	127.38	125.68	127.26	131.33	126.75	126.78	127.38	127.09	125.60	125.65	
19	125.28	126.08	127.84	125.69	127.33	130.80	126.60	127.03	127.38	127.04	125.59	125.65	
20	125.27	126.04	128.06	125.67	127.26	130.48	126.57	127.23	127.40	126.97	125.60	125.65	
21	125.26	126.00	127.98	125.66	127.14	130.40	126.56	127.40	127.40	126.83	125.60	125.64	
22	125.24	125.99	127.78	125.69	127.21	130.37	126.54	127.46	127.40	126.75	125.59	125.65	
23	125.23	125.98	127.29	125.69	128.15	130.28	126.52	127.37	127.40	126.70	125.57	125.65	
24	125.22	126.03	126.83	125.70	130.99	130.00	126.51	127.32	127.40	126.63	125.51	125.65	
25	125.21	126.12	126.49	125.72	133.68	129.63	126.51	127.42	127.41	126.54	125.36	125.65	
26	125.20	126.15	126.08	125.70	134.61	129.24	126.51	127.49	127.43	126.51	125.34	125.65	
27	125.20	126.13	125.97	125.69	135.03	128.81	126.51	127.41	127.42	126.49	125.30	125.65	
28	125.20	126.10	125.90	125.64	135.15	128.36	126.51	127.37	127.41	126.47	125.28	125.65	
29	125.20	126.07	125.88	125.60	135.20	127.88	126.51	127.44	127.41	126.42	125.27	125.65	
30	125.20	126.07	125.84	125.65	135.27	127.59	126.52	127.48	127.43	126.36	125.27	125.65	
31		126.14		125.73	135.56		126.52		127.42	126.32		125.64	
Mean	125.22	125.85	126.63	125.77	128.42	131.74	127.01	127.06	127.47	127.02	125.73	125.61	
Max	125.35	126.15	128.06	126.00	135.56	134.61	128.01	127.49	127.63	127.41	126.29	125.70	135.56
Min	125.13	125.20	125.84	125.60	125.79	127.59	126.51	126.55	127.38	126.32	125.27	125.22	125.13
Annual Max Momentary Gage Height	135.96		m. (MSL.) ,				at 09.00 Hours, on Aug 31, 2019						
Zero Gage at Bottom Elevation	124.50		m. (MSL.) ,			River Bed	124.72	m. (MSL.)					
Left Bank Elevation		132.26	m. (MSL.) ,										
Right Bank Elevation		136.05	m. (MSL.) ,			Drainage Are	3,359	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	350.10	5.80	0.21	6.92	6.28	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	282.90	5.48	1.96	6.92	6.28	0.00	0.00	
3	0.00	0.00	0.42	0.00	0.00	270.80	5.48	1.80	6.84	5.88	0.00	0.00	
4	0.00	0.00	0.98	0.00	0.00	277.40	5.48	1.48	7.56	5.96	0.00	0.00	
5	0.00	0.00	0.56	0.00	0.00	284.00	5.48	1.05	7.96	5.88	0.00	0.00	
6	0.00	0.00	0.42	0.00	0.00	268.60	6.76	1.48	8.04	5.80	0.00	0.00	
7	0.00	0.00	0.35	0.00	0.00	250.00	10.44	3.96	8.04	5.80	0.00	0.00	
8	0.00	0.00	0.28	0.00	0.00	231.00	11.09	5.72	8.04	5.80	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	209.25	9.40	5.00	7.96	5.80	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	181.80	7.08	4.20	7.56	5.72	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	145.80	5.48	2.92	6.92	5.72	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	116.65	5.40	2.20	6.68	5.40	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	129.00	5.40	1.48	6.92	5.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	157.80	5.40	0.70	7.08	5.24	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	172.20	5.00	0.07	6.92	6.04	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	149.30	3.64	0.00	6.52	5.00	0.00	0.00	
17	0.00	0.00	2.92	0.00	1.33	104.60	2.44	0.00	6.36	4.04	0.00	0.00	
18	0.00	0.00	6.04	0.00	5.08	65.20	1.05	1.26	6.04	3.72	0.00	0.00	
19	0.00	0.00	9.72	0.00	5.64	48.20	0.00	3.24	6.04	3.32	0.00	0.00	
20	0.00	0.00	11.54	0.00	5.08	40.68	0.00	4.84	6.20	2.76	0.00	0.00	
21	0.00	0.00	10.84	0.00	4.12	39.40	0.00	6.20	6.20	1.64	0.00	0.00	
22	0.00	0.00	9.24	0.00	4.68	38.92	0.00	6.68	6.20	1.05	0.00	0.00	
23	0.00	0.00	5.32	0.00	12.35	37.48	0.00	5.96	6.20	0.70	0.00	0.00	
24	0.00	0.00	1.64	0.00	52.76	33.00	0.00	5.56	6.20	0.21	0.00	0.00	
25	0.00	0.00	0.00	0.00	230.00	27.08	0.00	6.36	6.28	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	350.10	22.40	0.00	6.92	6.44	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	452.20	18.29	0.00	6.28	6.36	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	493.00	14.24	0.00	5.96	6.28	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	510.00	10.04	0.00	6.52	6.28	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	541.50	7.72	0.00	6.84	6.44	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	688.00	0.00	0.00	6.36	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	60.27	0.00	3355.84	3983.85	106.30	106.85	210.76	109.04	0.00	0.00	7932.91 CMSDAY
<b>Mean</b>	0.00	0.00	2.01	0.00	108.25	132.79	3.43	3.56	6.80	3.52	0.00	0.00	21.67 CMS
<b>Max</b>	0.00	0.00	11.54	0.00	688.00	350.10	11.09	6.92	8.04	6.28	0.00	0.00	688.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	7.72	0.00	0.00	6.04	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	5.21	0.00	289.94	344.20	9.18	9.23	18.21	9.42	0.00	0.00	685.40 MCM
<b>Momentary Peak</b>	934.00	CMS, at 135.96 m. (MSL.), at 09.00 Hours, on Aug 31, 2019											
<b>Runoff Yield</b>	6.47	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		278.06	Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHI RIVER BASIN

## Lam Nam Phrom at Ban Yang , Chaiyaphum (E.93)

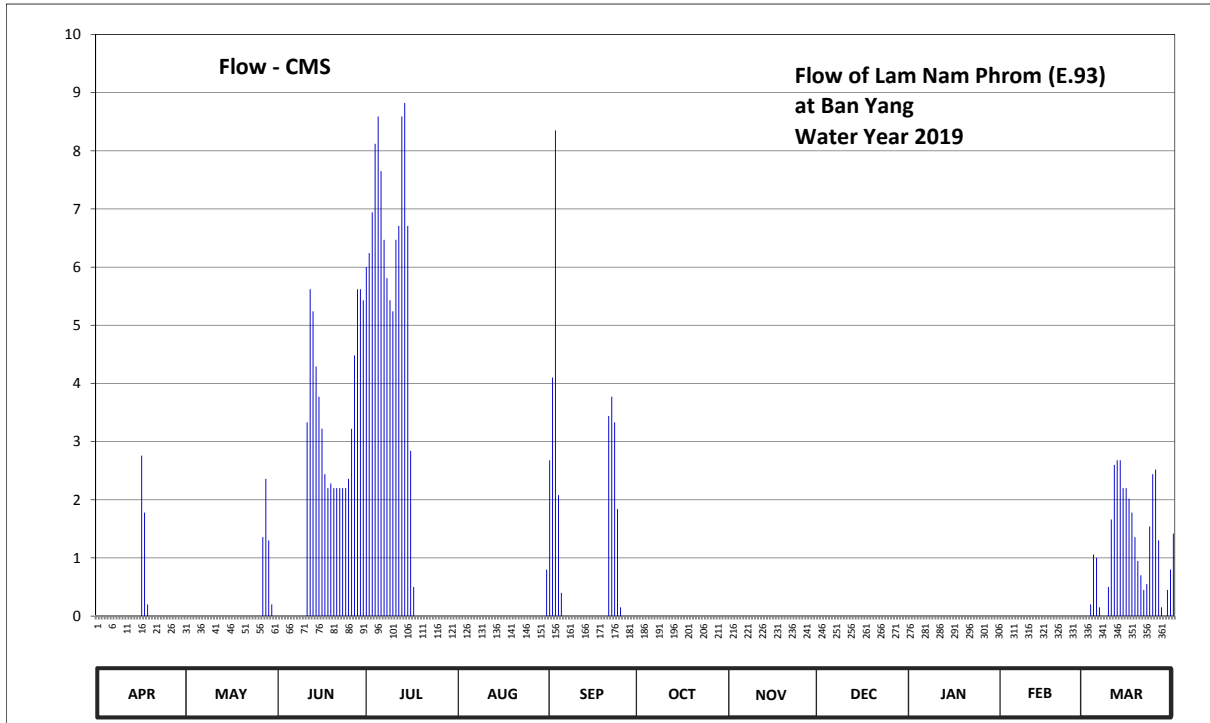
Lat 16 - 18 - 53 N Long 101 - 52 - 31 E

Location : on right bank at the bridge.

	<b>Ban Yang</b>	<b>Amphoe</b> Kaset Sombun	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	876 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+227.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+238.034 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 3 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	227.13	227.18	227.61	228.50	227.02	228.26	227.36	227.23	227.26	227.26	227.04	227.04	
2	227.17	227.11	227.52	228.51	227.04	228.40	227.36	227.23	227.26	227.27	227.04	227.27	
3	227.42	227.05	227.54	228.54	227.05	228.60	227.36	227.21	227.26	227.28	227.04	227.84	
4	227.60	227.05	227.55	228.59	227.07	228.18	227.36	227.22	227.24	227.30	227.05	228.01	
5	227.62	227.06	227.60	228.61	227.07	227.88	227.36	227.23	227.20	227.31	227.07	228.00	
6	227.54	227.08	227.59	228.57	227.05	227.68	227.36	227.26	227.17	227.32	227.09	227.83	
7	227.39	227.09	227.57	228.52	227.04	227.60	227.36	227.25	227.14	227.32	227.12	227.64	
8	227.23	227.11	227.52	228.49	227.04	227.53	227.36	227.27	227.12	227.32	227.14	227.68	
9	227.18	227.13	227.50	228.47	227.07	227.47	227.36	227.27	227.10	227.34	227.12	227.90	
10	227.27	227.15	227.73	228.46	227.16	227.40	227.36	227.27	227.10	227.33	227.11	228.11	
11	227.24	227.14	228.33	228.52	227.35	227.40	227.35	227.26	227.10	227.35	227.11	228.25	
12	227.18	227.10	228.48	228.53	227.36	227.43	227.35	227.24	227.10	227.35	227.10	228.26	
13	227.12	227.14	228.46	228.61	227.34	227.40	227.35	227.24	227.10	227.35	227.10	228.26	
14	227.27	227.25	228.41	228.62	227.29	227.38	227.35	227.22	227.06	227.36	227.09	228.20	
15	227.71	227.19	228.37	228.53	227.11	227.35	227.35	227.22	227.02	227.37	227.09	228.20	
16	228.27	227.14	228.32	228.28	227.03	227.35	227.35	227.21	227.00	227.38	227.09	228.17	
17	228.13	227.10	228.23	227.90	227.04	227.38	227.34	227.23	227.02	227.39	227.08	228.13	
18	227.84	227.07	228.20	227.52	227.06	227.38	227.33	227.24	227.06	227.41	227.08	228.06	
19	227.60	227.08	228.21	227.23	227.11	227.35	227.32	227.24	227.11	227.43	227.08	227.99	
20	227.34	227.13	228.20	227.14	227.18	227.62	227.31	227.25	227.14	227.45	227.08	227.94	
21	227.20	227.10	228.20	227.04	227.18	228.34	227.30	227.25	227.16	227.48	227.07	227.89	
22	227.19	227.09	228.20	227.03	227.11	228.37	227.29	227.26	227.17	227.51	227.07	227.91	
23	227.19	227.11	228.20	227.02	227.08	228.33	227.28	227.25	227.19	227.52	227.06	228.09	
24	227.17	227.07	228.20	227.03	227.16	228.14	227.27	227.24	227.20	227.49	227.03	228.23	
25	227.14	227.06	228.22	227.06	227.25	227.83	227.26	227.27	227.21	227.44	227.03	228.24	
26	227.10	227.35	228.32	227.11	227.38	227.61	227.25	227.27	227.22	227.40	227.02	228.05	
27	227.09	228.06	228.42	227.15	227.39	227.50	227.25	227.27	227.24	227.38	227.02	227.83	
28	227.09	228.22	228.48	227.14	227.37	227.43	227.24	227.27	227.25	227.38	227.02	227.73	
29	227.15	228.05	228.48	227.08	227.35	227.38	227.24	227.27	227.26	227.37	227.02	227.89	
30	227.23	227.84	228.47	227.04	227.49	227.36	227.23	227.26	227.26	227.35	227.02	227.96	
31		227.71		227.02	227.96		227.23		227.26	227.35		228.07	
Mean	227.36	227.26	228.07	227.87	227.20	227.71	227.32	227.25	227.16	227.37	227.07	227.96	
Max	228.27	228.22	228.48	228.62	227.96	228.60	227.36	227.27	227.26	227.52	227.14	228.26	228.62
Min	227.09	227.05	227.50	227.02	227.02	227.35	227.23	227.21	227.00	227.26	227.02	227.04	227.00
Annual Max Momentary Gage Height	228.75		m. (MSL.) ,			at 12.00 Hours, on Sep 3, 2019							
Zero Gage at Bottom Elevation	227.00		m. (MSL.) ,			River Bed	225.40	m. (MSL.)					
Left Bank Elevation		232.60		m. (MSL.) ,									
Right Bank Elevation		230.80		m. (MSL.) ,		Drainage Are	876	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	6.00	0.00	2.68	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	6.24	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	6.94	0.00	8.35	0.00	0.00	0.00	0.00	0.00	0.00	0.20
4	0.00	0.00	0.00	8.12	0.00	2.08	0.00	0.00	0.00	0.00	0.00	0.00	1.06
5	0.00	0.00	0.00	8.59	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	1.00
6	0.00	0.00	0.00	7.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
7	0.00	0.00	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	5.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
10	0.00	0.00	0.00	5.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66
11	0.00	0.00	3.33	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
12	0.00	0.00	5.62	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68
13	0.00	0.00	5.24	8.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68
14	0.00	0.00	4.29	8.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
15	0.00	0.00	3.77	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20
16	2.76	0.00	3.22	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02
17	1.78	0.00	2.44	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78
18	0.20	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
19	0.00	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95
20	0.00	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
21	0.00	0.00	2.20	0.00	0.00	3.44	0.00	0.00	0.00	0.00	0.00	0.00	0.45
22	0.00	0.00	2.20	0.00	0.00	3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.55
23	0.00	0.00	2.20	0.00	0.00	3.33	0.00	0.00	0.00	0.00	0.00	0.00	1.54
24	0.00	0.00	2.20	0.00	0.00	1.84	0.00	0.00	0.00	0.00	0.00	0.00	2.44
25	0.00	0.00	2.36	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	2.52
26	0.00	0.00	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
27	0.00	1.36	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
28	0.00	2.36	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	1.30	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
30	0.00	0.20	5.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
31	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42
Total	4.74	5.22	70.12	107.13	0.80	30.14	0.00	0.00	0.00	0.00	0.00	35.36	253.51 CMSDAY
Mean	0.16	0.17	2.34	3.46	0.03	1.00	0.00	0.00	0.00	0.00	0.00	1.14	0.69 CMS
Max	2.76	2.36	5.62	8.82	0.80	8.35	0.00	0.00	0.00	0.00	0.00	2.68	8.82 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	0.41	0.45	6.06	9.26	0.07	2.60	0.00	0.00	0.00	0.00	0.00	3.06	21.90 MCM
Momentary Peak	12.00	CMS, at 228.75 m. (MSL.), at 12.00 Hours, on Sep 3, 2019											
Runoff Yield	0.79	Liters/Second/Square KM.		Momentary Peak Yield		13.70	Liters/Second/Square KM.						



## WATER YEAR : 2019

## CHI RIVER BASIN

## Chi River at Ban Wang Charoen , Roi Et (E.95)

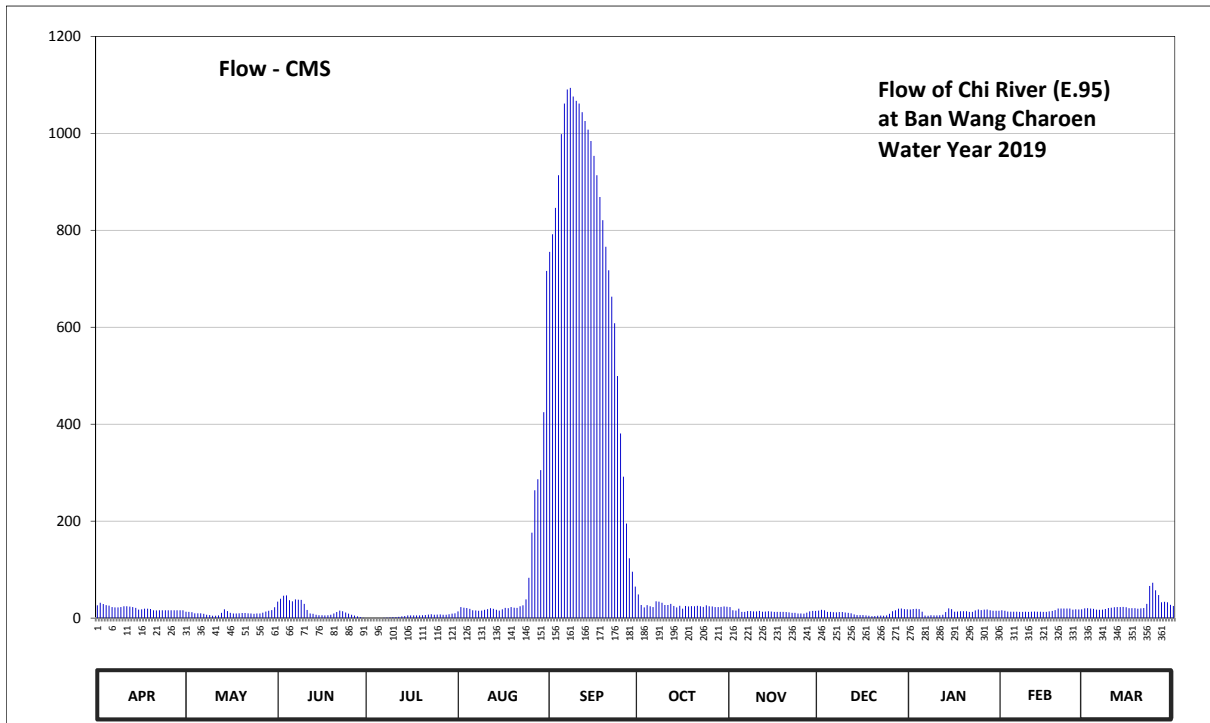
Lat 16 - 10 - 26 N Long 103 - 47 - 27 E

Location : on right bank at Wang Yang Barrage.

	Ban Wang Charoen	Amphoe Chiang Khwan	Changwat Roi Et
<b>Drainage Area</b>	40,780 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+124.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the relate.	<b>Elevation</b>	+134.533 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 47 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.05	124.61	125.22	123.99	124.63	131.51	125.47	124.92	124.68	124.76	124.70	124.84	
2	125.17	124.60	125.33	123.93	124.92	131.75	125.07	124.70	124.74	124.79	124.67	124.85	
3	125.12	124.57	125.43	123.88	124.88	132.09	124.90	124.68	124.71	124.80	124.62	124.83	
4	125.06	124.50	125.44	123.89	124.86	132.51	125.06	124.82	124.60	124.78	124.61	124.80	
5	125.02	124.50	125.28	123.96	124.80	133.02	124.98	124.59	124.59	124.61	124.61	124.75	
6	124.93	124.50	125.23	124.01	124.71	133.37	124.93	124.59	124.57	124.32	124.61	124.74	
7	124.90	124.46	125.31	124.06	124.69	133.53	125.23	124.65	124.56	124.29	124.60	124.75	
8	124.90	124.40	125.30	124.10	124.67	133.55	125.22	124.65	124.58	124.34	124.60	124.79	
9	124.92	124.37	125.29	124.12	124.68	133.45	125.17	124.63	124.58	124.33	124.61	124.86	
10	124.98	124.30	125.13	124.14	124.74	133.40	125.07	124.63	124.55	124.33	124.60	124.88	
11	124.98	124.30	124.73	124.15	124.78	133.37	125.07	124.66	124.53	124.34	124.61	124.91	
12	124.96	124.33	124.49	124.18	124.85	133.27	125.13	124.61	124.50	124.39	124.62	124.92	
13	124.92	124.53	124.46	124.23	124.80	133.17	125.00	124.62	124.42	124.58	124.61	124.93	
14	124.87	124.77	124.40	124.27	124.74	133.07	124.90	124.64	124.36	124.84	124.61	124.94	
15	124.75	124.65	124.35	124.33	124.68	132.94	125.01	124.62	124.37	124.78	124.59	124.91	
16	124.77	124.53	124.34	124.33	124.77	132.76	124.82	124.60	124.36	124.61	124.59	124.85	
17	124.82	124.49	124.33	124.33	124.87	132.51	125.00	124.60	124.33	124.62	124.63	124.85	
18	124.82	124.49	124.34	124.33	124.85	132.23	124.97	124.60	124.29	124.64	124.66	124.85	
19	124.79	124.50	124.39	124.33	124.93	131.93	124.99	124.60	124.25	124.64	124.72	124.81	
20	124.70	124.52	124.48	124.35	124.88	131.58	124.98	124.58	124.27	124.64	124.83	124.84	
21	124.69	124.52	124.58	124.37	124.87	131.24	125.01	124.56	124.29	124.59	124.83	124.86	
22	124.70	124.50	124.68	124.41	124.98	130.85	124.98	124.53	124.31	124.59	124.83	125.13	
23	124.70	124.49	124.64	124.43	125.05	130.46	124.94	124.53	124.30	124.69	124.83	125.72	
24	124.70	124.46	124.55	124.40	125.31	129.68	125.05	124.49	124.33	124.76	124.83	125.81	
25	124.70	124.48	124.47	124.41	125.94	128.72	124.98	124.49	124.46	124.72	124.75	125.59	
26	124.70	124.48	124.40	124.42	126.92	127.99	124.97	124.47	124.64	124.75	124.77	125.45	
27	124.70	124.54	124.32	124.39	127.73	127.10	124.93	124.54	124.71	124.76	124.76	125.19	
28	124.70	124.62	124.23	124.39	127.94	126.37	124.93	124.63	124.81	124.71	124.77	125.21	
29	124.70	124.67	124.14	124.43	128.10	126.08	124.94	124.66	124.83	124.67	124.83	125.19	
30	124.70	124.72	124.07	124.47	129.08	125.70	124.97	124.66	124.78	124.67	124.67	125.08	
31		124.91		124.50	131.23		124.95		124.77	124.67		125.00	
Mean	124.85	124.53	124.71	124.24	125.58	131.31	125.02	124.62	124.52	124.61	124.69	125.00	
Max	125.17	124.91	125.44	124.50	131.23	133.55	125.47	124.92	124.83	124.84	124.83	125.81	133.55
Min	124.69	124.30	124.07	123.88	124.63	125.70	124.82	124.47	124.25	124.29	124.59	124.74	123.88
Annual Max Momentary Gage Height	133.59		m. (MSL.) ,				at 05.00 Hours, on Sep 8, 2019						
Zero Gage at Bottom Elevation	124.00		m. (MSL.) ,			River Bed	123.71	m. (MSL.)					
Left Bank Elevation		134.39	m. (MSL.) ,										
Right Bank Elevation		134.08	m. (MSL.) ,			Drainage Are	40,780	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.50	13.30	34.00	0.00	13.90	755.50	48.90	22.60	15.40	17.80	16.00	20.20		
2	31.50	13.00	39.80	0.00	22.60	792.00	27.10	16.00	17.20	18.70	15.10	20.50		
3	29.00	12.10	46.10	0.00	21.40	846.40	22.00	15.40	16.30	19.00	13.60	19.90		
4	26.80	10.00	46.80	0.00	20.80	913.60	26.80	19.60	13.00	18.40	13.30	19.00		
5	25.60	10.00	37.00	0.00	19.00	998.60	24.40	12.70	12.70	13.30	13.30	17.50		
6	22.90	10.00	34.50	0.10	16.30	1061.60	22.90	12.70	12.10	5.40	13.30	17.20		
7	22.00	8.80	38.60	0.60	15.70	1090.40	34.50	14.50	11.80	4.80	13.00	17.50		
8	22.00	7.00	38.00	1.00	15.10	1094.00	34.00	14.50	12.40	5.80	13.00	18.70		
9	22.60	6.40	37.50	1.40	15.40	1076.00	31.50	13.90	12.40	5.60	13.30	20.80		
10	24.40	5.00	29.50	1.80	17.20	1067.00	27.10	13.90	11.50	5.60	13.00	21.40		
11	24.40	5.00	16.90	2.00	18.40	1061.60	27.10	14.80	10.90	5.80	13.30	22.30		
12	23.80	5.60	9.70	2.60	20.50	1043.60	29.50	13.30	10.00	6.80	13.60	22.60		
13	22.60	10.90	8.80	3.60	19.00	1025.60	25.00	13.60	7.60	12.40	13.30	22.90		
14	21.10	18.10	7.00	4.40	17.20	1007.60	22.00	14.20	6.20	20.20	13.30	23.20		
15	17.50	14.50	6.00	5.60	15.40	984.20	25.30	13.60	6.40	18.40	12.70	22.30		
16	18.10	10.90	5.80	5.60	18.10	953.60	19.60	13.00	6.20	13.30	12.70	20.50		
17	19.60	9.70	5.60	5.60	21.10	913.60	25.00	13.00	5.60	13.60	13.90	20.50		
18	19.60	9.70	5.80	5.60	20.50	868.80	24.10	13.00	4.80	14.20	14.80	20.50		
19	18.70	10.00	6.80	5.60	22.90	820.80	24.70	13.00	4.00	14.20	16.60	19.30		
20	16.00	10.60	9.40	6.00	21.40	766.00	24.40	12.40	4.40	14.20	19.90	20.20		
21	15.70	10.60	12.40	6.40	21.10	717.60	25.30	11.80	4.80	12.70	19.90	20.80		
22	16.00	10.00	15.40	7.30	24.40	663.00	24.40	10.90	5.20	12.70	19.90	29.50		
23	16.00	9.70	14.20	7.90	26.50	608.40	23.20	10.90	5.00	15.70	19.90	66.40		
24	16.00	8.80	11.50	7.00	38.60	499.40	26.50	9.70	5.60	17.80	19.90	72.80		
25	16.00	9.40	9.10	7.30	83.20	380.84	24.40	9.70	8.80	16.60	17.50	57.30		
26	16.00	9.40	7.00	7.60	176.32	291.91	24.10	9.10	14.20	17.50	18.10	47.50		
27	16.00	11.20	5.40	6.80	263.57	194.90	22.90	11.20	16.30	17.80	17.80	32.50		
28	16.00	13.60	3.60	6.80	286.46	123.52	22.90	13.90	19.30	16.30	18.10	33.50		
29	16.00	15.10	1.80	7.90	305.20	95.68	23.20	14.80	19.90	15.10	19.90	32.50		
30	16.00	16.60	0.70	9.10	424.76	65.00	24.10	14.80	18.40	15.10		27.40		
31		22.30		10.00	716.20		23.50		18.10	15.10		25.00		
<b>Total</b>	<b>614.40</b>	<b>337.30</b>	<b>544.70</b>	<b>135.60</b>	<b>2738.21</b>	<b>22780.75</b>	<b>810.40</b>	<b>406.50</b>	<b>336.50</b>	<b>419.90</b>	<b>452.00</b>	<b>852.20</b>	<b>30428.46</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>20.48</b>	<b>10.88</b>	<b>18.16</b>	<b>4.37</b>	<b>88.33</b>	<b>759.36</b>	<b>26.14</b>	<b>13.55</b>	<b>10.85</b>	<b>13.55</b>	<b>15.59</b>	<b>27.49</b>	<b>83.14</b>	<b>CMS</b>
<b>Max</b>	<b>31.50</b>	<b>22.30</b>	<b>46.80</b>	<b>10.00</b>	<b>716.20</b>	<b>1094.00</b>	<b>48.90</b>	<b>22.60</b>	<b>19.90</b>	<b>20.20</b>	<b>19.90</b>	<b>72.80</b>	<b>1094.00</b>	<b>CMS</b>
<b>Min</b>	<b>15.70</b>	<b>5.00</b>	<b>0.70</b>	<b>0.00</b>	<b>13.90</b>	<b>65.00</b>	<b>19.60</b>	<b>9.10</b>	<b>4.00</b>	<b>4.80</b>	<b>12.70</b>	<b>17.20</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>53.08</b>	<b>29.14</b>	<b>47.06</b>	<b>11.72</b>	<b>236.58</b>	<b>1968.26</b>	<b>70.02</b>	<b>35.12</b>	<b>29.07</b>	<b>36.28</b>	<b>39.05</b>	<b>73.63</b>	<b>2629.02</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1101.20</b>	<b>CMS, at 133.59 m. (MSL.), at 05.00 Hours, on Sep 8, 2019</b>												
<b>Runoff Yield</b>	<b>2.04</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>27.00</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## CHI RIVER BASIN

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

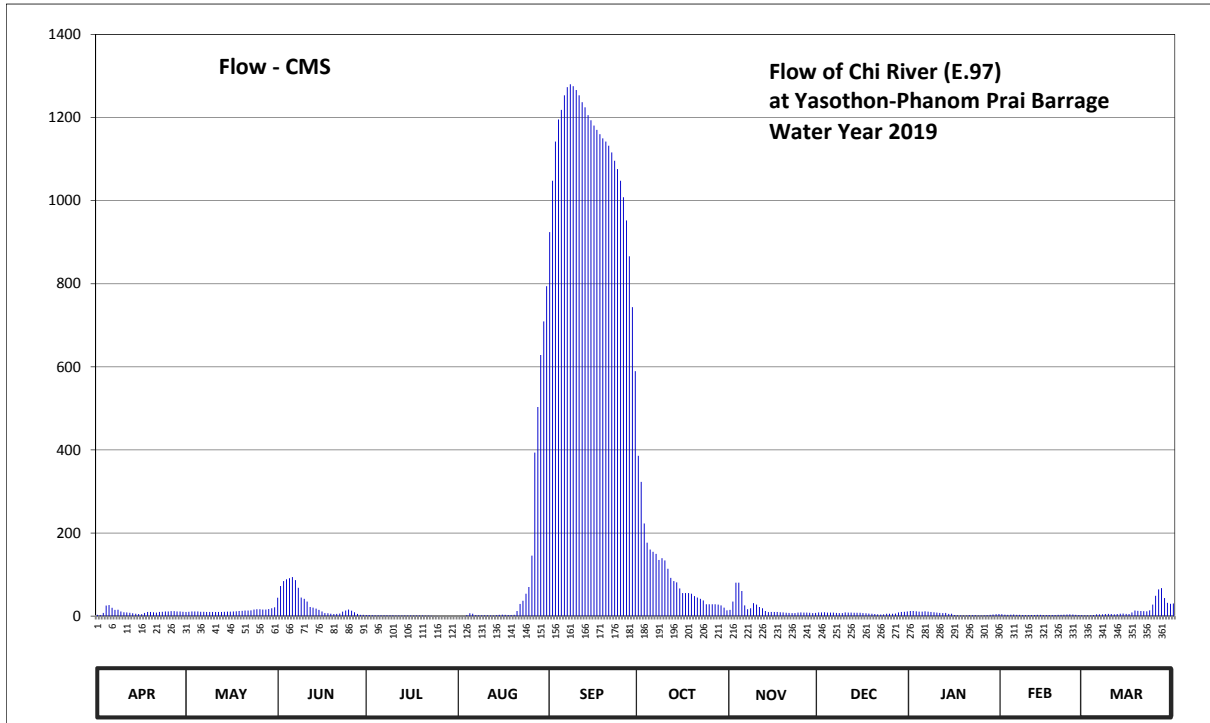
Lat 15 - 43 - 56 N Long 104 - 07 - 56 E

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

	<b>Ban</b> -	<b>Amphoe</b> Kham Khuean Kao	<b>Changwat</b> Yasothon
<b>Drainage Area</b>	46,766 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+113.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b> +127.055 m. (MSL.)	
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.00	117.26	117.94	116.98	116.70	124.31	121.17	117.43	117.23	117.34	117.08	116.90	
2	116.98	117.28	118.33	116.95	116.70	124.94	120.71	117.80	117.23	117.34	117.02	116.89	
3	117.19	117.30	118.49	116.92	116.71	125.41	119.88	118.44	117.24	117.32	117.01	116.88	
4	117.65	117.30	118.54	116.90	116.92	125.67	119.45	118.44	117.22	117.29	117.03	116.97	
5	117.67	117.30	118.57	116.90	117.16	125.78	119.29	118.17	117.21	117.29	117.04	117.06	
6	117.56	117.28	118.60	116.89	117.12	125.95	119.24	117.66	117.21	117.32	117.01	117.07	
7	117.43	117.28	118.52	116.90	116.93	126.04	119.19	117.48	117.19	117.29	116.99	117.07	
8	117.45	117.27	118.27	116.90	116.90	126.07	119.05	117.54	117.18	117.27	116.96	117.10	
9	117.30	117.26	117.95	116.90	116.90	126.05	119.09	117.74	117.18	117.24	116.93	117.11	
10	117.24	117.26	117.90	116.88	116.90	126.01	119.04	117.69	117.23	117.21	116.94	117.09	
11	117.23	117.26	117.80	116.85	116.88	125.95	118.82	117.60	117.22	117.19	116.96	117.07	
12	117.20	117.27	117.60	116.85	116.86	125.87	118.58	117.54	117.21	117.17	116.97	117.09	
13	117.16	117.27	117.57	116.84	116.86	125.81	118.49	117.34	117.20	117.19	116.99	117.12	
14	117.13	117.28	117.52	116.84	116.92	125.72	118.45	117.25	117.20	117.11	117.00	117.14	
15	117.10	117.29	117.43	116.84	117.00	125.66	118.25	117.27	117.20	117.12	116.98	117.11	
16	117.08	117.29	117.31	116.84	117.02	125.60	118.10	117.27	117.18	116.97	116.96	117.09	
17	117.19	117.30	117.18	116.84	117.01	125.55	118.10	117.26	117.16	116.89	116.95	117.23	
18	117.26	117.32	117.16	116.85	116.98	125.50	118.10	117.24	117.14	116.86	116.97	117.38	
19	117.26	117.34	117.13	116.84	116.97	125.45	118.08	117.23	117.13	116.84	116.98	117.36	
20	117.24	117.35	117.10	116.84	117.00	125.41	118.00	117.20	117.10	116.85	116.99	117.34	
21	117.22	117.38	117.11	116.83	117.34	125.36	117.95	117.19	117.07	116.92	117.00	117.33	
22	117.27	117.38	117.14	116.80	117.71	125.28	117.90	117.18	117.05	116.92	117.02	117.32	
23	117.28	117.40	117.29	116.77	117.83	125.18	117.84	117.18	117.06	116.91	117.05	117.40	
24	117.30	117.46	117.38	116.74	118.08	125.08	117.70	117.22	117.12	116.87	117.07	117.69	
25	117.31	117.48	117.46	116.72	118.30	124.94	117.70	117.23	117.13	116.87	117.05	118.01	
26	117.33	117.48	117.37	116.70	119.15	124.74	117.70	117.22	117.12	116.88	117.01	118.22	
27	117.33	117.46	117.24	116.70	121.22	124.46	117.70	117.22	117.14	116.91	116.96	118.26	
28	117.30	117.46	117.11	116.70	121.92	124.00	117.69	117.20	117.23	116.99	116.93	117.93	
29	117.30	117.50	117.00	116.69	122.68	123.32	117.66	117.18	117.26	117.05	116.91	117.75	
30	117.28	117.54	117.00	116.68	123.13	122.46	117.57	117.19	117.28	117.08	117.08	117.72	
31		117.58		116.69	123.60		117.40		117.30	117.09		117.73	
Mean	117.27	117.35	117.63	116.82	118.05	125.25	118.51	117.45	117.18	117.08	116.99	117.34	
Max	117.67	117.58	118.60	116.98	123.60	126.07	121.17	118.44	117.30	117.34	117.08	118.26	126.07
Min	116.98	117.26	117.00	116.68	116.70	122.46	117.40	117.18	117.05	116.84	116.91	116.88	116.68
Annual Max Momentary Gage Height	126.08			m. (MSL.) ,			at 04.00 Hours, on Sep 8, 2019						
Zero Gage at Bottom Elevation	113.00			m. (MSL.) ,		River Bed	111.98	m. (MSL.)					
Left Bank Elevation		126.80		m. (MSL.) ,									
Right Bank Elevation		127.02		m. (MSL.) ,		Drainage Are	46,766	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	9.80	44.10	2.80	0.00	924.28	385.84	14.90	8.90	12.20	4.60	2.00	
2	2.80	10.40	72.42	2.50	0.00	1048.00	322.88	35.00	8.90	12.20	3.40	1.90	
3	7.70	11.00	84.26	2.20	0.10	1142.00	223.04	80.56	9.20	11.60	3.20	1.80	
4	25.25	11.00	88.60	2.00	2.20	1195.36	176.80	80.56	8.60	10.70	3.60	2.70	
5	26.55	11.00	91.30	2.00	6.80	1218.24	160.16	60.58	8.30	10.70	3.80	4.20	
6	20.00	10.40	94.00	1.90	5.60	1253.60	154.96	25.90	8.30	11.60	3.20	4.40	
7	14.90	10.40	86.80	2.00	2.30	1273.20	149.76	16.40	7.70	10.70	2.90	4.40	
8	15.50	10.10	67.98	2.00	2.00	1280.10	135.20	19.00	7.40	10.10	2.60	5.00	
9	11.00	9.80	44.75	2.00	2.00	1275.50	139.36	31.10	7.40	9.20	2.30	5.30	
10	9.20	9.80	41.50	1.80	2.00	1266.30	134.16	27.85	8.90	8.30	2.40	4.80	
11	8.90	9.80	35.00	1.50	1.80	1253.60	113.80	22.00	8.60	7.70	2.60	4.40	
12	8.00	10.10	22.00	1.50	1.60	1236.96	92.20	19.00	8.30	7.10	2.70	4.80	
13	6.80	10.10	20.50	1.40	1.60	1224.48	84.26	12.20	8.00	7.70	2.90	5.60	
14	5.90	10.40	18.00	1.40	2.20	1205.76	81.30	9.50	8.00	5.30	3.00	6.20	
15	5.00	10.70	14.90	1.40	3.00	1193.28	66.50	10.10	8.00	5.60	2.80	5.30	
16	4.60	10.70	11.30	1.40	3.40	1180.80	55.40	10.10	7.40	2.70	2.60	4.80	
17	7.70	11.00	7.40	1.40	3.20	1170.40	55.40	9.80	6.80	1.90	2.50	8.90	
18	9.80	11.60	6.80	1.50	2.80	1160.00	55.40	9.20	6.20	1.60	2.70	13.40	
19	9.80	12.20	5.90	1.40	2.70	1150.00	53.92	8.90	5.90	1.40	2.80	12.80	
20	9.20	12.50	5.00	1.40	3.00	1142.00	48.00	8.00	5.00	1.50	2.90	12.20	
21	8.60	13.40	5.30	1.30	12.20	1132.00	44.75	7.70	4.40	2.20	3.00	11.90	
22	10.10	13.40	6.20	1.00	29.15	1116.00	41.50	7.40	4.00	2.20	3.40	11.60	
23	10.40	14.00	10.70	0.70	36.95	1096.00	37.60	7.40	4.20	2.10	4.00	14.00	
24	11.00	15.80	13.40	0.40	53.92	1076.00	28.50	8.60	5.60	1.70	4.40	27.85	
25	11.30	16.40	15.80	0.20	70.20	1048.00	28.50	8.90	5.90	1.70	4.00	48.74	
26	11.90	16.40	13.10	0.00	145.60	1008.00	28.50	8.60	5.60	1.80	3.20	64.28	
27	11.90	15.80	9.20	0.00	393.44	952.48	28.50	8.60	6.20	2.10	2.60	67.24	
28	11.00	15.80	5.30	0.00	503.20	866.00	27.85	8.00	8.90	2.90	2.30	43.45	
29	11.00	17.00	3.00	0.00	628.40	743.60	25.90	7.40	9.80	4.00	2.10	31.75	
30	10.40	19.00	3.00	0.00	709.40	589.60	20.50	7.70	10.40	4.60		29.80	
31		21.00		0.00	794.00		14.00		11.00	4.80		30.45	
Total	319.20	390.80	947.51	39.10	3424.76	33421.54	3014.44	590.95	231.80	179.90	88.50	495.96	43144.46 CMSDAY
Mean	10.64	12.61	31.58	1.26	110.48	1114.05	97.24	19.70	7.48	5.80	3.05	16.00	117.88 CMS
Max	26.55	21.00	94.00	2.80	794.00	1280.10	385.84	80.56	11.00	12.20	4.60	67.24	1280.10 CMS
Min	2.80	9.80	3.00	0.00	0.00	589.60	14.00	7.40	4.00	1.40	2.10	1.80	0.00 CMS
Runoff	27.58	33.77	81.86	3.38	295.90	2887.62	260.45	51.06	20.03	15.54	7.65	42.85	3727.68 MCM
Momentary Peak	1282.40	CMS, at 126.08 m. (MSL.), at 04.00 Hours, on Sep 8, 2019											
Runoff Yield	2.53	Liters/Second/Square KM.			Momentary Peak Yield	27.42	Liters/Second/Square KM.						

**WATER YEAR : 2019****CHI RIVER BASIN****Chi River at That Noi Barrage , Ubon Ratchathani (E.98)**

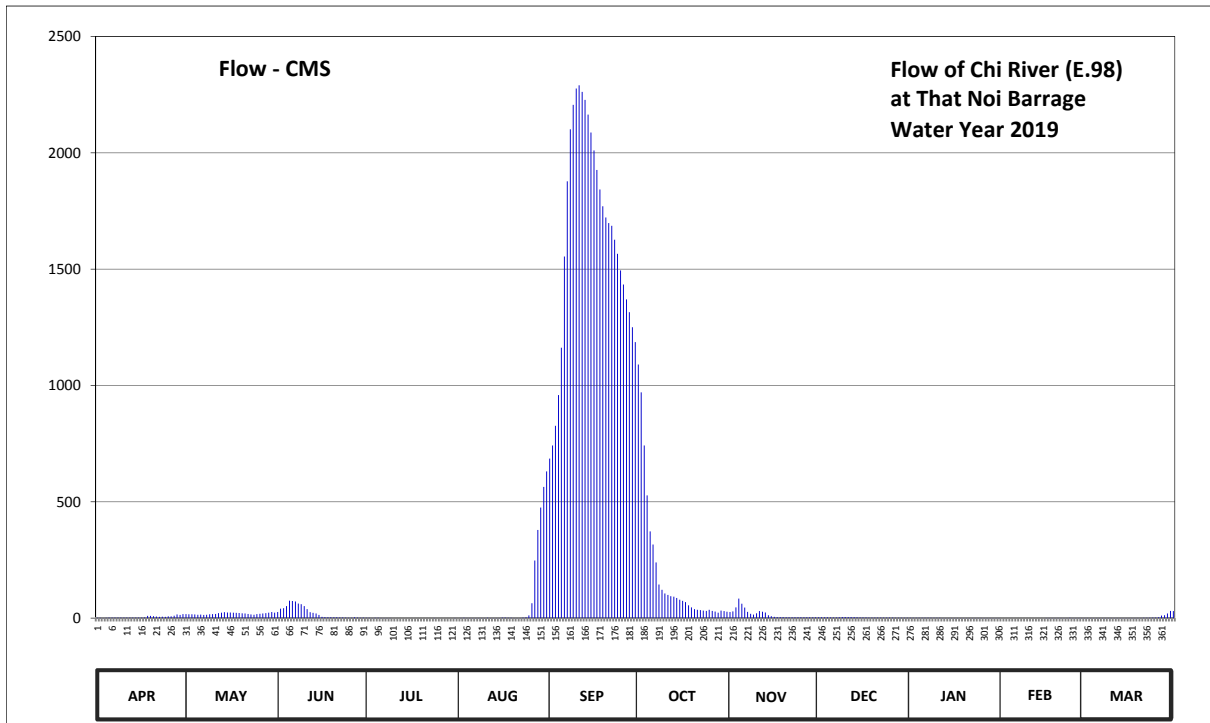
Lat 15 - 18 - 40 N Long 104 - 27 - 24 E

Location : on right bank at That Noi Barrage.

	<b>Ban</b> -	<b>Amphoe</b> Khueang Nai	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	48,254 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+107.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank at the automatic gage building.	<b>Elevation</b> +118.863 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +118.660 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 49 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.11	109.72	109.96	109.15	109.01	115.27	116.95	109.96	109.31	109.14	109.02	109.07	
2	109.10	109.71	110.32	109.10	109.06	115.56	116.56	110.02	109.32	109.14	109.02	109.06	
3	109.09	109.71	110.36	109.09	109.10	115.94	115.56	110.45	109.31	109.13	109.02	109.06	
4	109.12	109.69	110.57	109.10	109.08	116.51	114.39	111.12	109.31	109.13	109.02	109.06	
5	109.18	109.66	111.00	109.10	109.04	117.13	113.42	110.78	109.29	109.12	109.01	109.06	
6	109.22	109.67	110.98	109.09	109.07	117.89	113.03	110.44	109.29	109.12	109.01	109.06	
7	109.18	109.65	110.94	109.07	109.08	118.41	112.48	109.97	109.27	109.11	109.01	109.05	
8	109.20	109.66	110.79	109.05	109.08	118.73	111.75	109.76	109.32	109.11	109.01	109.05	
9	109.20	109.71	110.74	109.03	109.08	118.88	111.53	109.68	109.42	109.10	109.00	109.05	
10	109.20	109.73	110.57	109.01	109.09	118.98	111.37	109.81	109.42	109.10	109.00	109.05	
11	109.20	109.75	110.26	108.99	109.10	119.00	111.31	110.06	109.40	109.10	109.00	109.05	
12	109.19	109.83	109.93	108.98	109.09	118.96	111.25	109.99	109.39	109.09	109.00	109.04	
13	109.21	109.89	109.87	109.00	109.08	118.91	111.22	109.90	109.39	109.09	109.01	109.04	
14	109.20	109.93	109.80	108.99	109.06	118.82	111.16	109.60	109.34	109.09	109.02	109.04	
15	109.20	109.90	109.64	108.98	109.06	118.71	111.06	109.51	109.25	109.08	109.02	109.05	
16	109.21	109.90	109.43	108.98	109.18	118.60	110.99	109.43	109.24	109.08	109.03	109.05	
17	109.30	109.88	109.38	108.99	109.23	118.48	110.90	109.40	109.24	109.07	109.03	109.06	
18	109.54	109.87	109.35	108.98	109.12	118.36	110.64	109.39	109.23	109.07	109.04	109.06	
19	109.54	109.85	109.35	108.88	109.10	118.25	110.45	109.38	109.22	109.07	109.04	109.07	
20	109.50	109.82	109.35	108.90	109.09	118.17	110.27	109.37	109.21	109.06	109.04	109.09	
21	109.47	109.79	109.34	108.91	109.09	118.13	110.20	109.36	109.21	109.06	109.05	109.11	
22	109.43	109.74	109.28	108.94	109.09	118.11	110.16	109.35	109.20	109.06	109.06	109.14	
23	109.45	109.69	109.26	108.95	109.20	118.01	110.11	109.35	109.19	109.05	109.08	109.15	
24	109.44	109.66	109.18	109.03	109.36	117.91	110.07	109.35	109.18	109.05	109.10	109.18	
25	109.48	109.72	109.10	109.02	109.59	117.79	110.19	109.34	109.18	109.05	109.09	109.21	
26	109.49	109.77	109.10	109.01	110.81	117.69	110.08	109.34	109.17	109.04	109.08	109.31	
27	109.56	109.80	109.36	109.01	112.54	117.58	110.01	109.34	109.16	109.04	109.08	109.58	
28	109.70	109.84	109.17	109.00	113.46	117.47	109.89	109.33	109.15	109.04	109.07	109.60	
29	109.65	109.89	109.16	108.99	114.09	117.34	110.10	109.33	109.14	109.03	109.07	109.80	
30	109.72	109.95	109.20	109.02	114.60	117.19	110.05	109.32	109.14	109.03		110.08	
31		109.89		109.04	114.97		109.98		109.14	109.03		110.06	
Mean	109.34	109.78	109.82	109.01	109.95	117.89	111.52	109.71	109.26	109.08	109.04	109.20	
Max	109.72	109.95	111.00	109.15	114.97	119.00	116.95	111.12	109.42	109.14	109.10	110.08	119.00
Min	109.09	109.65	109.10	108.88	109.01	115.27	109.89	109.32	109.14	109.03	109.00	109.04	108.88
Annual Max Momentary Gage Height	119.01		m. (MSL.) ,			at 06.00 Hours, on Sep 11, 2019							
Zero Gage at Bottom Elevation	107.00		m. (MSL.) ,			River Bed	106.63	m. (MSL.)					
Left Bank Elevation		119.65		m. (MSL.) ,									
Right Bank Elevation		118.65		m. (MSL.) ,		Drainage Are	48,254	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	16.80	26.40	1.50	0.10	685.30	1090.00	26.40	3.10	1.40	0.20	0.70		
2	1.00	16.40	40.80	1.00	0.60	742.00	970.40	28.80	3.20	1.40	0.20	0.60		
3	0.90	16.40	42.40	0.90	1.00	826.20	742.00	46.00	3.10	1.30	0.20	0.60		
4	1.20	15.60	51.50	1.00	0.80	958.40	527.25	83.60	3.10	1.30	0.20	0.60		
5	1.80	14.40	75.00	1.00	0.40	1162.00	373.00	62.00	2.90	1.20	0.10	0.60		
6	2.20	14.80	73.80	0.90	0.70	1554.00	316.20	45.60	2.90	1.20	0.10	0.60		
7	1.80	14.00	71.40	0.70	0.80	1877.00	239.20	26.80	2.70	1.10	0.10	0.50		
8	2.00	14.40	62.50	0.50	0.80	2101.00	144.50	18.40	3.20	1.10	0.10	0.50		
9	2.00	16.40	60.00	0.30	0.80	2206.00	122.00	15.20	4.80	1.00	0.00	0.50		
10	2.00	17.20	51.50	0.10	0.90	2276.00	106.00	20.40	4.80	1.00	0.00	0.50		
11	2.00	18.00	38.40	0.00	1.00	2290.00	100.00	30.40	4.00	1.00	0.00	0.50		
12	1.90	21.20	25.20	0.00	0.90	2262.00	94.50	27.60	3.90	0.90	0.00	0.40		
13	2.10	23.60	22.80	0.00	0.80	2227.00	91.80	24.00	3.90	0.90	0.10	0.40		
14	2.00	25.20	20.00	0.00	0.60	2164.00	86.80	12.00	3.40	0.90	0.20	0.40		
15	2.00	24.00	13.60	0.00	0.60	2087.00	79.20	8.40	2.50	0.80	0.20	0.50		
16	2.10	24.00	5.20	0.00	1.80	2010.00	74.40	5.20	2.40	0.80	0.30	0.50		
17	3.00	23.20	3.80	0.00	2.30	1926.00	69.00	4.00	2.40	0.70	0.30	0.60		
18	9.60	22.80	3.50	0.00	1.20	1842.00	55.00	3.90	2.30	0.70	0.40	0.60		
19	9.60	22.00	3.50	0.00	1.00	1770.00	46.00	3.80	2.20	0.70	0.40	0.70		
20	8.00	20.80	3.50	0.00	0.90	1722.00	38.80	3.70	2.10	0.60	0.40	0.90		
21	6.80	19.60	3.40	0.00	0.90	1698.00	36.00	3.60	2.10	0.60	0.50	1.10		
22	5.20	17.60	2.80	0.00	0.90	1686.00	34.40	3.50	2.00	0.60	0.60	1.40		
23	6.00	15.60	2.60	0.00	2.00	1626.00	32.40	3.50	1.90	0.50	0.80	1.50		
24	5.60	14.40	1.80	0.30	3.60	1566.00	30.80	3.50	1.80	0.50	1.00	1.80		
25	7.20	16.80	1.00	0.20	11.60	1494.00	35.60	3.40	1.80	0.50	0.90	2.10		
26	7.60	18.80	1.00	0.10	63.60	1434.00	31.20	3.40	1.70	0.40	0.80	3.10		
27	10.40	20.00	3.60	0.10	247.60	1370.00	28.40	3.40	1.60	0.40	0.80	11.20		
28	16.00	21.60	1.70	0.00	379.00	1315.00	23.60	3.30	1.50	0.40	0.70	12.00		
29	14.00	23.60	1.60	0.00	475.30	1250.00	32.00	3.30	1.40	0.30	0.70	20.00		
30	16.80	26.00	2.00	0.20	564.00	1186.00	30.00	3.20	1.40	0.30		31.20		
31		23.60		0.40	630.60		27.20		1.40	0.30		30.40		
<b>Total</b>	<b>153.90</b>	<b>598.80</b>	<b>716.30</b>	<b>9.20</b>	<b>2397.10</b>	<b>49312.90</b>	<b>5707.65</b>	<b>530.30</b>	<b>81.50</b>	<b>24.80</b>	<b>10.30</b>	<b>127.00</b>	<b>59669.75</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>5.13</b>	<b>19.32</b>	<b>23.88</b>	<b>0.30</b>	<b>77.33</b>	<b>1643.76</b>	<b>184.12</b>	<b>17.68</b>	<b>2.63</b>	<b>0.80</b>	<b>0.36</b>	<b>4.10</b>	<b>163.03</b>	<b>CMS</b>
<b>Max</b>	<b>16.80</b>	<b>26.00</b>	<b>75.00</b>	<b>1.50</b>	<b>630.60</b>	<b>2290.00</b>	<b>1090.00</b>	<b>83.60</b>	<b>4.80</b>	<b>1.40</b>	<b>1.00</b>	<b>31.20</b>	<b>2290.00</b>	<b>CMS</b>
<b>Min</b>	<b>0.90</b>	<b>14.00</b>	<b>1.00</b>	<b>0.00</b>	<b>0.10</b>	<b>685.30</b>	<b>23.60</b>	<b>3.20</b>	<b>1.40</b>	<b>0.30</b>	<b>0.00</b>	<b>0.40</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>13.30</b>	<b>51.74</b>	<b>61.89</b>	<b>0.79</b>	<b>207.11</b>	<b>4260.63</b>	<b>493.14</b>	<b>45.82</b>	<b>7.04</b>	<b>2.14</b>	<b>0.89</b>	<b>10.97</b>	<b>5155.47</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>2297.00</b>	<b>CMS, at 119.01 m. (MSL.), at 06.00 Hours, on Sep 11, 2019</b>												
<b>Runoff Yield</b>	<b>3.39</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>47.60</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## MUN RIVER BASIN

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

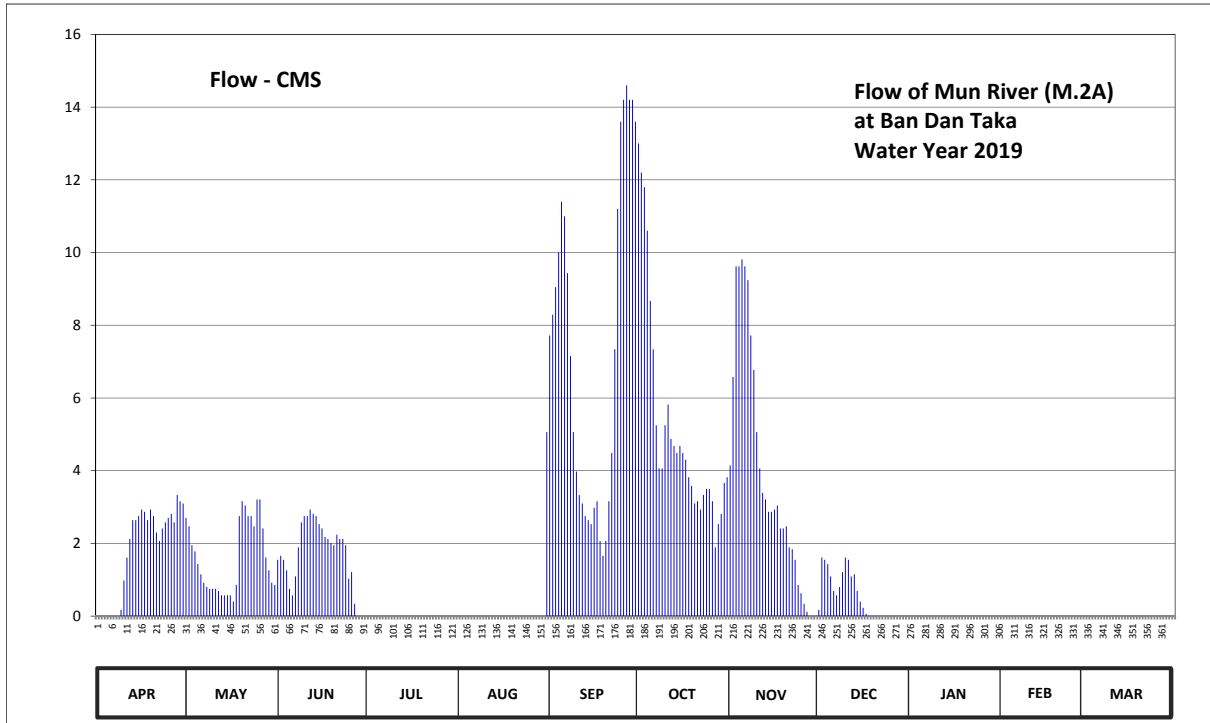
Lat 14 - 57 - 57 N Long 102 - 14 - 38 E

Location : on left bank at Ban Dan Taka.

	<b>Ban Dan Taka</b>	<b>Amphoe</b> Chaloem Phra Kiat	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	4,724 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+161.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream at the footpath.	<b>Elevation</b>	+169.284 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	161.40	162.36	162.16	161.48	161.45	162.78	163.05	162.58	161.92	161.47	161.37	161.01	
2	161.38	162.32	162.18	161.46	161.55	162.81	163.01	162.72	162.17	161.47	161.34	161.01	
3	161.38	162.23	162.16	161.46	161.52	162.85	162.99	162.88	162.16	161.46	161.32	161.01	
4	161.39	162.20	162.11	161.45	161.49	162.90	162.93	162.88	162.14	161.46	161.30	161.01	
5	161.42	162.14	162.02	161.44	161.46	162.97	162.83	162.89	162.08	161.45	161.30	161.01	
6	161.51	162.09	161.99	161.44	161.43	162.95	162.76	162.88	162.01	161.43	161.30	161.01	
7	161.60	162.05	162.08	161.44	161.42	162.87	162.65	162.86	161.99	161.42	161.29	161.01	
8	161.80	162.03	162.22	161.44	161.41	162.75	162.57	162.78	162.03	161.41	161.28	161.01	
9	161.92	162.02	162.34	161.44	161.38	162.64	162.57	162.73	162.10	161.41	161.26	161.01	
10	162.06	162.02	162.37	161.44	161.34	162.56	162.65	162.64	162.17	161.40	161.22	161.01	
11	162.17	162.02	162.37	161.44	161.34	162.47	162.68	162.57	162.16	161.40	161.20	161.00	
12	162.26	162.01	162.40	161.44	161.34	162.43	162.63	162.48	162.08	161.40	161.19	161.00	
13	162.35	161.99	162.38	161.47	161.34	162.37	162.62	162.45	162.09	161.39	161.18	161.00	
14	162.35	161.99	162.37	161.53	161.34	162.35	162.61	162.39	162.01	161.39	161.18	161.00	
15	162.37	161.99	162.33	161.57	161.34	162.33	162.62	162.39	161.96	161.39	161.17	161.00	
16	162.40	161.99	162.31	161.60	161.34	162.41	162.61	162.40	161.93	161.39	161.16	161.00	
17	162.39	161.96	162.27	161.66	161.34	162.44	162.60	162.42	161.90	161.39	161.16	161.00	
18	162.35	162.04	162.26	161.61	161.34	162.25	162.54	162.31	161.84	161.39	161.16	161.00	
19	162.40	162.37	162.24	161.57	161.34	162.18	162.51	162.31	161.77	161.39	161.15	161.00	
20	162.37	162.44	162.23	161.54	161.34	162.25	162.43	162.32	161.70	161.39	161.12	161.00	
21	162.29	162.42	162.28	161.53	161.32	162.44	162.44	162.22	161.65	161.39	161.10	161.00	
22	162.25	162.37	162.26	161.48	161.28	162.61	162.40	162.21	161.64	161.39	161.09	161.00	
23	162.31	162.37	162.26	161.44	161.23	162.76	162.47	162.16	161.60	161.39	161.07	161.00	
24	162.34	162.32	162.23	161.43	161.17	162.96	162.50	162.04	161.58	161.39	161.06	161.00	
25	162.36	162.45	162.07	161.42	161.09	163.08	162.50	162.00	161.57	161.40	161.05	161.00	
26	162.38	162.45	162.10	161.41	161.06	163.11	162.44	161.95	161.57	161.40	161.04	161.22	
27	162.34	162.31	161.95	161.39	161.05	163.13	162.22	161.91	161.55	161.42	161.03	161.73	
28	162.47	162.17	161.87	161.37	161.06	163.11	162.33	161.85	161.50	161.48	161.02	161.73	
29	162.44	162.11	161.73	161.32	161.15	163.11	162.38	161.78	161.48	161.54	161.01	161.67	
30	162.43	162.05	161.59	161.27	161.77	163.08	162.52	161.77	161.47	161.48	161.01	161.60	
31		162.04		161.25	162.64		162.54		161.47	161.41		161.60	
Mean	162.10	162.17	162.17	161.46	161.38	162.70	162.60	162.39	161.85	161.42	161.18	161.12	
Max	162.47	162.45	162.40	161.66	162.64	163.13	163.05	162.89	162.17	161.54	161.37	161.73	163.13
Min	161.38	161.96	161.59	161.25	161.05	162.18	162.22	161.77	161.47	161.39	161.01	161.00	161.00
Annual Max Momentary Gage Height	163.14												at 06.00 Hours , on Sep 27 , 2019
Zero Gage at Bottom Elevation	161.00						159.22						m. (MSL.)
Left Bank Elevation		169.01											m. (MSL.)
Right Bank Elevation		169.02											m. (MSL.)
Drainage Area						4,724							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.70	1.55	0.00	0.00	7.72	13.00	4.14	0.17	0.00	0.00	0.00	
2	0.00	2.47	1.66	0.00	0.00	8.29	12.20	6.58	1.61	0.00	0.00	0.00	
3	0.00	1.95	1.55	0.00	0.00	9.05	11.80	9.62	1.55	0.00	0.00	0.00	
4	0.00	1.78	1.26	0.00	0.00	10.00	10.60	9.62	1.43	0.00	0.00	0.00	
5	0.00	1.43	0.75	0.00	0.00	11.40	8.67	9.81	1.09	0.00	0.00	0.00	
6	0.00	1.15	0.57	0.00	0.00	11.00	7.34	9.62	0.69	0.00	0.00	0.00	
7	0.00	0.92	1.09	0.00	0.00	9.43	5.25	9.24	0.57	0.00	0.00	0.00	
8	0.00	0.80	1.89	0.00	0.00	7.15	4.06	7.72	0.80	0.00	0.00	0.00	
9	0.17	0.75	2.58	0.00	0.00	5.06	4.06	6.77	1.21	0.00	0.00	0.00	
10	0.98	0.75	2.75	0.00	0.00	3.98	5.25	5.06	1.61	0.00	0.00	0.00	
11	1.61	0.75	2.75	0.00	0.00	3.33	5.82	4.06	1.55	0.00	0.00	0.00	
12	2.12	0.69	2.93	0.00	0.00	3.10	4.87	3.39	1.09	0.00	0.00	0.00	
13	2.64	0.57	2.81	0.00	0.00	2.75	4.68	3.21	1.15	0.00	0.00	0.00	
14	2.64	0.57	2.75	0.00	0.00	2.64	4.49	2.87	0.69	0.00	0.00	0.00	
15	2.75	0.57	2.53	0.00	0.00	2.53	4.68	2.87	0.40	0.00	0.00	0.00	
16	2.93	0.57	2.41	0.00	0.00	2.98	4.49	2.93	0.23	0.00	0.00	0.00	
17	2.87	0.40	2.18	0.00	0.00	3.16	4.30	3.04	0.06	0.00	0.00	0.00	
18	2.64	0.86	2.12	0.00	0.00	2.07	3.82	2.41	0.00	0.00	0.00	0.00	
19	2.93	2.75	2.01	0.00	0.00	1.66	3.58	2.41	0.00	0.00	0.00	0.00	
20	2.75	3.16	1.95	0.00	0.00	2.07	3.10	2.47	0.00	0.00	0.00	0.00	
21	2.30	3.04	2.24	0.00	0.00	3.16	3.16	1.89	0.00	0.00	0.00	0.00	
22	2.07	2.75	2.12	0.00	0.00	4.49	2.93	1.84	0.00	0.00	0.00	0.00	
23	2.41	2.75	2.12	0.00	0.00	7.34	3.33	1.55	0.00	0.00	0.00	0.00	
24	2.58	2.47	1.95	0.00	0.00	11.20	3.50	0.86	0.00	0.00	0.00	0.00	
25	2.70	3.21	1.03	0.00	0.00	13.60	3.50	0.63	0.00	0.00	0.00	0.00	
26	2.81	3.21	1.21	0.00	0.00	14.20	3.16	0.34	0.00	0.00	0.00	0.00	
27	2.58	2.41	0.34	0.00	0.00	14.60	1.89	0.12	0.00	0.00	0.00	0.00	
28	3.33	1.61	0.00	0.00	0.00	14.20	2.53	0.00	0.00	0.00	0.00	0.00	
29	3.16	1.26	0.00	0.00	0.00	14.20	2.81	0.00	0.00	0.00	0.00	0.00	
30	3.10	0.92	0.00	0.00	0.00	13.60	3.66	0.00	0.00	0.00	0.00	0.00	
31		0.86		0.00	5.06		3.82		0.00	0.00		0.00	
<b>Total</b>	54.07	50.08	51.10	0.00	5.06	219.96	160.35	115.07	15.90	0.00	0.00	0.00	671.59 CMSDAY
<b>Mean</b>	1.80	1.62	1.70	0.00	0.16	7.33	5.17	3.84	0.51	0.00	0.00	0.00	1.83 CMS
<b>Max</b>	3.33	3.21	2.93	0.00	5.06	14.60	13.00	9.81	1.61	0.00	0.00	0.00	14.60 CMS
<b>Min</b>	0.00	0.40	0.00	0.00	0.00	1.66	1.89	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	4.67	4.33	4.42	0.00	0.44	19.00	13.85	9.94	1.37	0.00	0.00	0.00	58.03 MCM
<b>Momentary Peak</b>	14.80	CMS. at 163.14 m. (MSL.) at 06.00 Hours , on Sep 27, 2019											
<b>Runoff Yield</b>	0.39	Liters/Second/Square KM. Momentary Peak Yield 3.13 Liters/Second/Square KM.											



## WATER YEAR : 2019

## MUN RIVER BASIN

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

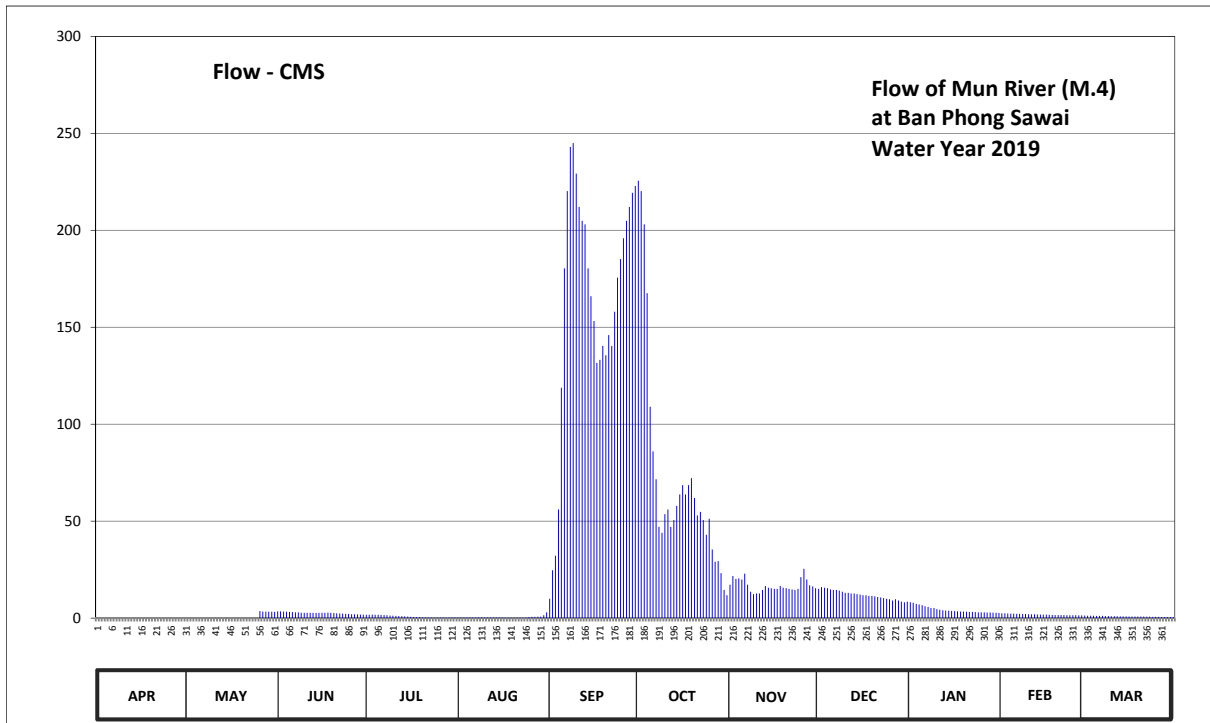
Lat 15 - 19 - 30 N Long 103 - 40 - 59 E

Location : on left bank at the bridge on highway.

	Ban Phong Sawai	Amphoe	Tha Tum	Changwat	Surin
<b>Drainge Area</b>	34,654 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+117.000 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	Near the gage site.			<b>Elevation</b>	+128.995 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1996-1997, 2005 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1996-1997, 2005 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1996-1997, 2005 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.75	117.44	117.35	117.15	116.78	117.60	121.04	117.84	117.77	117.54	117.25	117.06	
2	117.75	117.41	117.35	117.15	116.78	118.09	120.98	117.99	117.80	117.53	117.25	117.05	
3	117.75	117.40	117.34	117.16	116.78	118.28	120.79	117.94	117.79	117.51	117.24	117.04	
4	117.77	117.38	117.33	117.15	116.78	118.75	120.37	117.95	117.78	117.50	117.23	117.04	
5	117.76	117.37	117.32	117.14	116.77	119.74	119.60	117.93	117.76	117.49	117.23	117.03	
6	117.75	117.37	117.31	117.13	116.77	120.53	119.25	118.03	117.75	117.47	117.22	117.03	
7	117.74	117.38	117.30	117.11	116.77	120.98	119.01	117.84	117.75	117.46	117.22	117.03	
8	117.74	117.38	117.30	117.09	116.79	121.23	118.60	117.72	117.74	117.44	117.21	117.02	
9	117.74	117.40	117.28	117.07	116.80	121.25	118.54	117.68	117.72	117.44	117.21	117.01	
10	117.74	117.39	117.27	117.05	116.78	121.08	118.71	117.69	117.70	117.42	117.20	117.00	
11	117.73	117.37	117.27	117.03	116.78	120.89	118.75	117.69	117.70	117.41	117.19	116.99	
12	117.72	117.37	117.27	117.01	116.77	120.81	118.60	117.75	117.69	117.40	117.19	116.99	
13	117.72	117.36	117.27	116.99	116.76	120.79	118.66	117.82	117.69	117.39	117.18	116.98	
14	117.71	117.35	117.26	116.97	116.76	120.53	118.78	117.79	117.68	117.38	117.17	116.98	
15	117.71	117.35	117.27	116.95	116.77	120.35	118.88	117.78	117.67	117.37	117.16	116.97	
16	117.70	117.34	117.27	116.92	116.75	120.19	118.96	117.77	117.66	117.36	117.16	116.96	
17	117.70	117.33	117.27	116.90	116.74	119.92	118.88	117.77	117.66	117.35	117.15	116.96	
18	117.69	117.33	117.28	116.87	116.73	119.94	118.96	117.82	117.65	117.34	117.13	116.95	
19	117.68	117.32	117.27	116.85	116.74	120.03	119.02	117.79	117.65	117.34	117.12	116.95	
20	117.68	117.32	117.26	116.81	116.73	119.97	118.85	117.78	117.64	117.33	117.11	116.95	
21	117.67	117.31	117.25	116.79	116.73	120.10	118.70	117.77	117.63	117.32	117.11	116.95	
22	117.67	117.32	117.24	116.78	116.71	120.03	118.73	117.76	117.62	117.32	117.11	116.94	
23	117.65	117.34	117.23	116.76	116.72	120.25	118.66	117.75	117.61	117.31	117.10	116.93	
24	117.63	117.37	117.22	116.72	116.78	120.47	118.52	117.77	117.60	117.30	117.09	116.92	
25	117.60	117.37	117.21	116.74	116.87	120.59	118.67	117.97	117.59	117.30	117.09	116.91	
26	117.57	117.36	117.20	116.76	116.91	120.71	118.36	118.11	117.57	117.30	117.09	116.91	
27	117.55	117.34	117.19	116.75	116.92	120.81	118.20	117.93	117.59	117.29	117.08	116.90	
28	117.53	117.34	117.18	116.74	116.93	120.89	118.21	117.83	117.57	117.29	117.08	116.89	
29	117.50	117.33	117.17	116.74	116.94	120.97	118.04	117.81	117.55	117.28	117.07	116.88	
30	117.47	117.33	117.16	116.76	116.99	121.01	117.75	117.78	117.54	117.27	117.07	116.87	
31		117.32		116.77	117.30		117.66		117.55	117.26		116.86	
Mean	117.68	117.36	117.26	116.93	116.81	120.23	118.93	117.83	117.67	117.38	117.16	116.97	
Max	117.77	117.44	117.35	117.16	117.30	121.25	121.04	118.11	117.80	117.54	117.25	117.06	121.25
Min	117.47	117.31	117.16	116.72	116.71	117.60	117.66	117.68	117.54	117.26	117.07	116.86	116.71
Annual Max Momentary Gage Height	121.29		m. (MSL.) ,			at 22.00 Hours ,	on Sep 8 , 2019						
Zero Gage at Bottom Elevation	117.00		m. (MSL.) ,			River Bed	116.22	m. (MSL.)					
Left Bank Elevation		128.76		m. (MSL.) ,									
Right Bank Elevation		129.25		m. (MSL.) ,		Drainage Are	34,654	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.50	1.75	0.36	10.00	225.60	17.20	15.10	8.20	2.50	1.30	
2	0.00	0.00	3.50	1.75	0.36	24.70	220.20	21.70	16.00	7.90	2.50	1.25	
3	0.00	0.00	3.40	1.80	0.36	32.20	203.10	20.20	15.70	7.30	2.40	1.20	
4	0.00	0.00	3.30	1.75	0.36	56.00	167.60	20.50	15.40	7.00	2.30	1.20	
5	0.00	0.00	3.20	1.70	0.34	118.80	109.00	19.90	14.80	6.70	2.30	1.15	
6	0.00	0.00	3.10	1.65	0.34	180.40	86.00	22.90	14.50	6.10	2.20	1.15	
7	0.00	0.00	3.00	1.55	0.34	220.20	71.60	17.20	14.50	5.80	2.20	1.15	
8	0.00	0.00	3.00	1.45	0.38	243.00	47.00	13.60	14.20	5.20	2.10	1.10	
9	0.00	0.00	2.80	1.35	0.40	245.00	44.00	12.40	13.60	5.20	2.10	1.05	
10	0.00	0.00	2.70	1.25	0.36	229.20	53.60	12.70	13.00	4.60	2.00	1.00	
11	0.00	0.00	2.70	1.15	0.36	212.10	56.00	12.70	13.00	4.30	1.95	0.96	
12	0.00	0.00	2.70	1.05	0.34	204.90	47.00	14.50	12.70	4.00	1.95	0.96	
13	0.00	0.00	2.70	0.96	0.32	203.10	50.60	16.60	12.70	3.90	1.90	0.92	
14	0.00	0.00	2.60	0.88	0.32	180.40	57.80	15.70	12.40	3.80	1.85	0.92	
15	0.00	0.00	2.70	0.80	0.34	166.00	63.80	15.40	12.10	3.70	1.80	0.88	
16	0.00	0.00	2.70	0.68	0.30	153.20	68.60	15.10	11.80	3.60	1.80	0.84	
17	0.00	0.00	2.70	0.60	0.28	131.60	63.80	15.10	11.80	3.50	1.75	0.84	
18	0.00	0.00	2.80	0.54	0.26	133.20	68.60	16.60	11.50	3.40	1.65	0.80	
19	0.00	0.00	2.70	0.50	0.28	140.40	72.20	15.70	11.50	3.40	1.60	0.80	
20	0.00	0.00	2.60	0.42	0.26	135.60	62.00	15.40	11.20	3.30	1.55	0.80	
21	0.00	0.00	2.50	0.38	0.26	146.00	53.00	15.10	10.90	3.20	1.55	0.80	
22	0.00	0.00	2.40	0.36	0.22	140.40	54.80	14.80	10.60	3.20	1.55	0.76	
23	0.00	0.00	2.30	0.32	0.24	158.00	50.60	14.50	10.30	3.10	1.50	0.72	
24	0.00	0.00	2.20	0.24	0.36	175.60	43.00	15.10	10.00	3.00	1.45	0.68	
25	0.00	0.00	2.10	0.28	0.54	185.20	51.20	21.10	9.70	3.00	1.45	0.64	
26	0.00	3.60	2.00	0.32	0.64	195.90	35.40	25.40	9.10	3.00	1.45	0.64	
27	0.00	3.40	1.95	0.30	0.68	204.90	29.00	19.90	9.70	2.90	1.40	0.60	
28	0.00	3.40	1.90	0.28	0.72	212.10	29.40	16.90	9.10	2.90	1.40	0.58	
29	0.00	3.30	1.85	0.28	0.76	219.30	23.20	16.30	8.50	2.80	1.35	0.56	
30	0.00	3.30	1.80	0.32	1.45	222.90	14.50	15.40	8.20	2.70		0.54	
31		3.20		0.34	3.00		11.80		8.50	2.60		0.52	
<b>Total</b>	0.00	20.20	79.40	27.00	15.53	4880.30	2234.00	505.60	372.10	133.30	53.50	27.31	8348.24 CMSDAY
<b>Mean</b>	0.00	0.65	2.65	0.87	0.50	162.68	72.06	16.85	12.00	4.30	1.84	0.88	22.81 CMS
<b>Max</b>	0.00	3.60	3.50	1.80	3.00	245.00	225.60	25.40	16.00	8.20	2.50	1.30	245.00 CMS
<b>Min</b>	0.00	0.00	1.80	0.24	0.22	10.00	11.80	12.40	8.20	2.60	1.35	0.52	0.00 CMS
<b>Runoff</b>	0.00	1.75	6.86	2.33	1.34	421.66	193.02	43.68	32.15	11.52	4.62	2.36	721.29 MCM
<b>Momentary Peak</b>	249.00	CMS. at 121.29 m. (MSL.) at 22.00 Hours , on Sep 8, 2019											
<b>Runoff Yield</b>	0.66	Liters/Second/Square KM. Momentary Peak Yield 7.19 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MUN RIVER BASIN

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

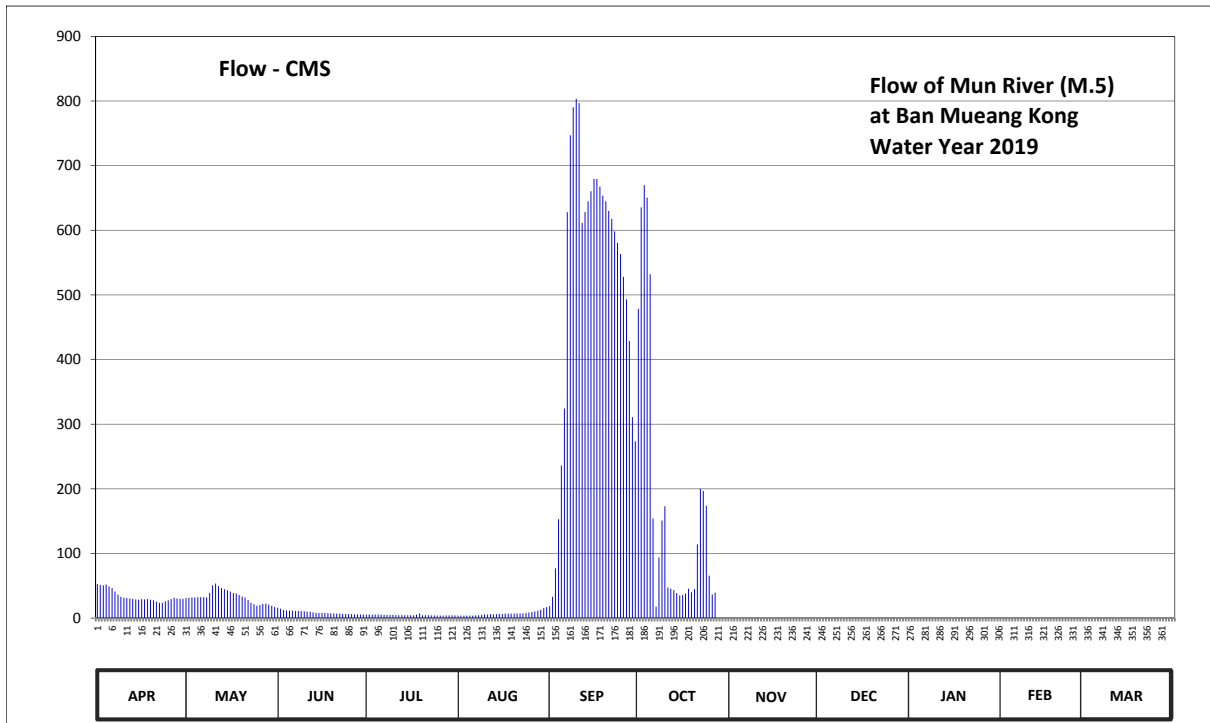
Lat 15 - 20 - 16 N Long 104 - 09 - 21 E

Location : on left bank in front of Amphoe Rasi Salai Office.

	<b>Ban Mueang Kong</b>	<b>Amphoe Rasi Salai</b>	<b>Changwat Si Sa Ket</b>
<b>Drainage Area</b>	45,295 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+110.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+124.814 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1972 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1972 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.01	111.64	111.14	110.12	109.87	111.25	115.86	113.08	112.54	111.99	111.64	111.28	
2	111.99	111.65	111.07	110.14	109.87	111.68	116.93	113.10	112.50	111.98	111.62	111.27	
3	111.98	111.66	110.95	110.12	109.86	112.34	117.16	113.13	112.46	111.97	111.61	111.27	
4	112.00	111.66	110.88	110.13	109.86	113.18	117.03	113.16	112.41	111.96	111.60	111.26	
5	111.95	111.67	110.86	110.13	109.86	113.98	116.24	113.18	112.37	111.95	111.58	111.25	
6	111.91	111.67	110.85	110.11	109.87	114.72	113.19	113.15	112.34	111.94	111.56	111.25	
7	111.82	111.67	110.82	110.04	109.89	116.88	111.22	113.09	112.31	111.93	111.55	111.25	
8	111.74	111.66	110.81	110.04	109.94	117.67	112.56	113.05	112.28	111.91	111.54	111.25	
9	111.68	111.78	110.79	110.03	110.04	117.94	113.16	113.03	112.25	111.91	111.52	111.24	
10	111.65	111.98	110.76	110.04	110.14	118.02	113.38	113.06	112.21	111.90	111.50	111.22	
11	111.64	112.02	110.72	109.99	110.15	117.98	113.19	113.07	112.18	111.88	111.49	111.22	
12	111.63	111.96	110.68	109.95	110.17	117.97	113.17	113.07	112.15	111.87	111.48	111.21	
13	111.62	111.91	110.60	109.95	110.18	118.06	113.14	113.06	112.15	111.86	111.47	111.20	
14	111.60	111.88	110.52	109.95	110.21	118.14	113.08	113.05	112.15	111.85	111.46	111.19	
15	111.59	111.85	110.48	109.95	110.28	118.21	113.03	113.04	112.14	111.83	111.43	111.18	
16	111.61	111.82	110.48	109.94	110.30	118.29	113.04	113.01	112.14	111.82	111.41	111.18	
17	111.60	111.78	110.47	109.93	110.32	118.29	113.07	112.98	112.13	111.80	111.40	111.16	
18	111.61	111.77	110.44	110.11	110.33	118.24	113.17	112.95	112.13	111.78	111.39	111.16	
19	111.59	111.73	110.41	110.37	110.33	118.18	113.10	112.91	112.12	111.77	111.37	111.16	
20	111.57	111.69	110.37	109.95	110.35	118.14	113.16	112.87	112.12	111.76	111.35	111.16	
21	111.53	111.66	110.35	109.94	110.38	118.07	113.96	112.85	112.10	111.75	111.34	111.16	
22	111.48	111.58	110.32	109.92	110.38	118.01	114.78	112.83	112.10	111.74	111.33	111.16	
23	111.48	111.48	110.29	109.90	110.42	117.89	114.75	112.81	112.09	111.74	111.33	111.16	
24	111.54	111.39	110.25	109.88	110.49	117.78	114.53	112.80	112.08	111.73	111.33	111.15	
25	111.57	111.28	110.23	109.87	110.56	117.67	113.42	112.76	112.06	111.73	111.33	111.14	
26	111.61	111.33	110.22	109.87	110.65	117.45	113.05	112.74	112.06	111.73	111.32	111.14	
27	111.65	111.41	110.19	109.87	110.74	117.22	113.09	112.70	112.05	111.71	111.32	111.13	
28	111.63	111.43	110.16	109.88	110.87	116.76	113.18	112.66	112.04	111.70	111.31	111.12	
29	111.62	111.36	110.15	109.88	111.00	115.79	113.14	112.63	112.02	111.68	111.30	111.11	
30	111.62	111.28	110.13	109.88	111.13	115.46	113.10	112.59	112.01	111.67	111.29	111.10	
31		111.20		109.88	111.19		113.08		112.00	111.65		111.09	
Mean	111.68	111.64	110.55	109.99	110.31	116.71	113.81	112.95	112.18	111.82	111.44	111.19	
Max	112.01	112.02	111.14	110.37	111.19	118.29	117.16	113.18	112.54	111.99	111.64	111.28	118.29
Min	111.48	111.20	110.13	109.87	109.86	111.25	111.22	112.59	112.00	111.65	111.30	111.09	109.86
Annual Max Momentary Gage Height	118.02		m. (MSL.) ,				at 06.00 Hours ,		on Sep 10 , 2019				
Zero Gage at Bottom Elevation	110.00		m. (MSL.) ,				River Bed 108.79		m. (MSL.)				
Left Bank Elevation		124.55		m. (MSL.) ,									
Right Bank Elevation		122.62		m. (MSL.) ,		Drainage Are	45,295		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.70	31.00	16.08	5.53	4.02	18.50	478.40	0.00	0.00	0.00	0.00	0.00	
2	51.40	31.50	14.54	5.66	4.02	33.00	635.50	0.00	0.00	0.00	0.00	0.00	
3	50.80	32.00	12.50	5.53	3.96	77.00	670.00	0.00	0.00	0.00	0.00	0.00	
4	52.00	32.00	11.80	5.60	3.96	153.00	650.50	0.00	0.00	0.00	0.00	0.00	
5	49.00	32.50	11.60	5.60	3.96	235.80	532.00	0.00	0.00	0.00	0.00	0.00	
6	46.60	32.50	11.50	5.47	4.02	324.40	154.00	0.00	0.00	0.00	0.00	0.00	
7	41.20	32.50	11.20	5.04	4.14	628.00	17.84	0.00	0.00	0.00	0.00	0.00	
8	36.40	32.00	11.10	5.04	4.44	747.20	93.80	0.00	0.00	0.00	0.00	0.00	
9	33.00	38.80	10.90	4.98	5.04	790.40	151.00	0.00	0.00	0.00	0.00	0.00	
10	31.50	50.80	10.60	5.04	5.66	803.20	173.00	0.00	0.00	0.00	0.00	0.00	
11	31.00	53.40	10.20	4.74	5.73	796.80	47.20	0.00	0.00	0.00	0.00	0.00	
12	30.50	49.60	9.80	4.50	5.86	611.20	45.60	0.00	0.00	0.00	0.00	0.00	
13	30.00	46.60	9.00	4.50	5.92	628.00	43.20	0.00	0.00	0.00	0.00	0.00	
14	29.00	44.80	8.20	4.50	6.12	644.80	38.60	0.00	0.00	0.00	0.00	0.00	
15	28.50	43.00	7.87	4.50	6.57	660.40	35.10	0.00	0.00	0.00	0.00	0.00	
16	29.50	41.20	7.87	4.44	6.70	679.60	35.80	0.00	0.00	0.00	0.00	0.00	
17	29.00	38.80	7.81	4.38	6.83	679.60	37.90	0.00	0.00	0.00	0.00	0.00	
18	29.50	38.20	7.61	5.47	6.90	667.60	45.60	0.00	0.00	0.00	0.00	0.00	
19	28.50	35.80	7.42	7.16	6.90	653.60	40.00	0.00	0.00	0.00	0.00	0.00	
20	27.50	33.50	7.16	4.50	7.03	644.80	44.80	0.00	0.00	0.00	0.00	0.00	
21	25.50	32.00	7.03	4.44	7.22	630.00	114.00	0.00	0.00	0.00	0.00	0.00	
22	23.56	28.00	6.83	4.32	7.22	618.00	199.90	0.00	0.00	0.00	0.00	0.00	
23	23.56	23.56	6.64	4.20	7.48	598.40	196.75	0.00	0.00	0.00	0.00	0.00	
24	26.00	21.58	6.38	4.08	7.94	580.80	173.65	0.00	0.00	0.00	0.00	0.00	
25	27.50	19.16	6.25	4.02	8.60	563.20	65.60	0.00	0.00	0.00	0.00	0.00	
26	29.50	20.26	6.18	4.02	9.50	528.00	36.50	0.00	0.00	0.00	0.00	0.00	
27	31.50	22.02	5.99	4.02	10.40	493.00	39.30	0.00	0.00	0.00	0.00	0.00	
28	30.50	22.46	5.79	4.08	11.70	428.80	0.00	0.00	0.00	0.00	0.00	0.00	
29	30.00	20.92	5.73	4.08	13.00	310.80	0.00	0.00	0.00	0.00	0.00	0.00	
30	30.00	19.16	5.60	4.08	15.86	273.60	0.00	0.00	0.00	0.00	0.00	0.00	
31		17.40		4.08	17.18		0.00		0.00	0.00		0.00	
<b>Total</b>	<b>1015.22</b>	<b>1017.02</b>	<b>267.18</b>	<b>147.60</b>	<b>223.88</b>	<b>15501.50</b>	<b>4795.54</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>22967.94</b> CMSDAY
<b>Mean</b>	<b>33.84</b>	<b>32.81</b>	<b>8.91</b>	<b>4.76</b>	<b>7.22</b>	<b>516.72</b>	<b>154.69</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>62.75</b> CMS
<b>Max</b>	<b>52.70</b>	<b>53.40</b>	<b>16.08</b>	<b>7.16</b>	<b>17.18</b>	<b>803.20</b>	<b>670.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>803.20</b> CMS
<b>Min</b>	<b>23.56</b>	<b>17.40</b>	<b>5.60</b>	<b>4.02</b>	<b>3.96</b>	<b>18.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>87.72</b>	<b>87.87</b>	<b>23.08</b>	<b>12.75</b>	<b>19.34</b>	<b>1339.33</b>	<b>414.33</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1984.43</b> MCM
<b>Momentary Peak</b>	<b>803.20 CMS. at 118.02 m. (MSL.) at 06.00 Hours , on Sep 10 , 2019</b>												
<b>Runoff Yield</b>	<b>1.39 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>17.73 Liters/Second/Square KM.</b>					

## WATER YEAR : 2019

## MUN RIVER BASIN

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

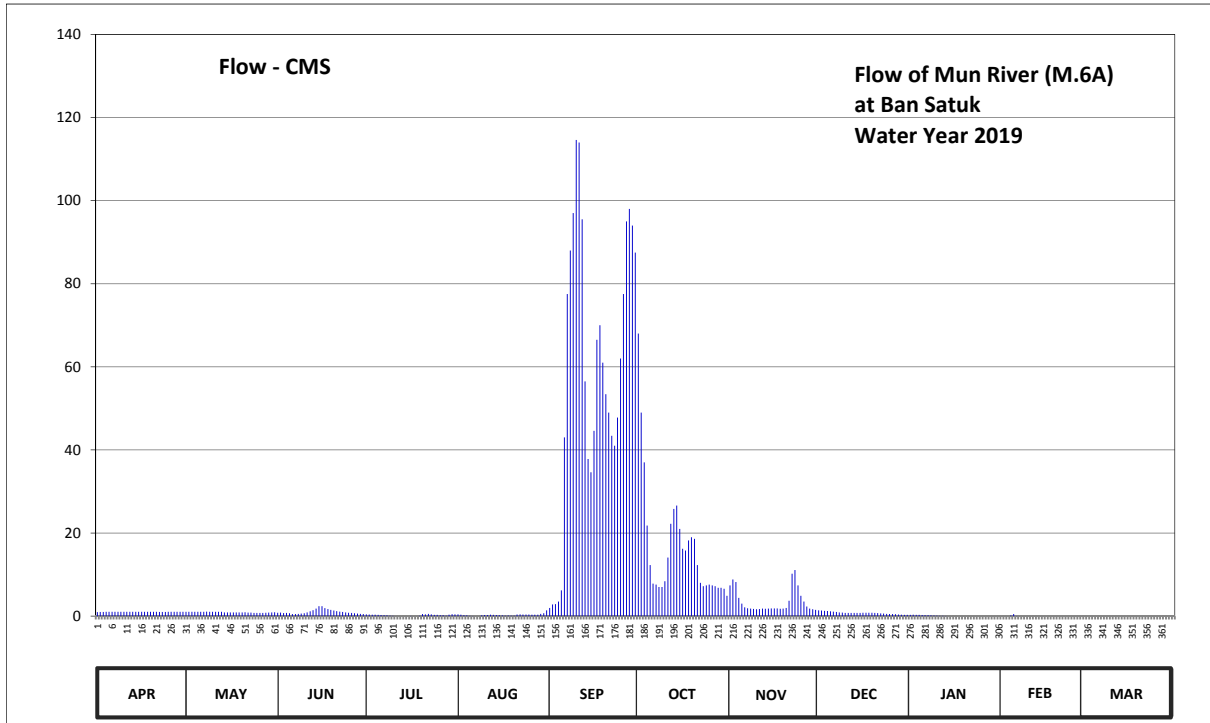
Lat 15 - 17 - 53 N Long 103 - 17 - 46 E

Location : on right bank at Satuk.

	<b>Ban Satuk</b>	<b>Amphoe Satuk</b>	<b>Changwat Buri Ram</b>
<b>Drainage Area</b>	28,458 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+123.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.		<b>Elevation</b> +133.541 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1964 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1976 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1976 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records 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 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.92	122.94	122.87	122.74	122.74	123.19	125.16	123.62	123.05	122.70	122.49	122.53	
2	122.93	122.95	122.88	122.73	122.71	123.28	124.75	123.69	123.04	122.71	122.48	122.53	
3	122.93	122.95	122.84	122.72	122.68	123.29	124.45	123.66	123.02	122.70	122.47	122.53	
4	122.94	122.95	122.85	122.71	122.66	123.35	124.07	123.44	123.01	122.70	122.65	122.53	
5	122.94	122.95	122.83	122.70	122.63	123.56	123.81	123.30	122.98	122.69	122.76	122.54	
6	122.94	122.95	122.76	122.69	122.61	124.60	123.64	123.21	122.96	122.68	122.61	122.54	
7	122.94	122.95	122.77	122.68	122.59	125.35	123.63	123.17	122.93	122.67	122.58	122.54	
8	122.95	122.96	122.78	122.66	122.60	125.56	123.60	123.15	122.90	122.66	122.57	122.53	
9	122.95	122.95	122.80	122.64	122.66	125.74	123.60	123.13	122.88	122.65	122.57	122.52	
10	122.95	122.94	122.83	122.62	122.69	126.06	123.67	123.11	122.86	122.64	122.57	122.52	
11	122.95	122.94	122.90	122.60	122.69	126.05	123.87	123.12	122.85	122.63	122.57	122.51	
12	122.95	122.95	122.98	122.59	122.71	125.71	124.08	123.15	122.86	122.62	122.57	122.52	
13	122.95	122.95	123.06	122.57	122.70	124.93	124.17	123.14	122.86	122.61	122.56	122.52	
14	122.94	122.90	123.15	122.56	122.69	124.47	124.19	123.15	122.86	122.60	122.56	122.53	
15	122.94	122.90	123.24	122.55	122.68	124.39	124.05	123.16	122.86	122.59	122.55	122.55	
16	122.94	122.89	123.24	122.61	122.66	124.64	123.93	123.16	122.87	122.58	122.55	122.55	
17	122.94	122.89	123.18	122.60	122.64	125.13	123.92	123.16	122.87	122.58	122.55	122.54	
18	122.94	122.90	123.12	122.58	122.65	125.20	123.98	123.14	122.87	122.58	122.55	122.54	
19	122.94	122.90	123.07	122.63	122.64	125.02	124.00	123.15	122.87	122.60	122.54	122.54	
20	122.94	122.90	123.04	122.76	122.64	124.86	123.99	123.19	122.86	122.59	122.54	122.54	
21	122.94	122.91	123.00	122.74	122.73	124.75	123.81	123.37	122.84	122.58	122.54	122.53	
22	122.93	122.88	122.96	122.78	122.74	124.61	123.65	123.74	122.82	122.56	122.54	122.52	
23	122.93	122.88	122.93	122.74	122.73	124.55	123.61	123.77	122.80	122.54	122.53	122.50	
24	122.93	122.86	122.90	122.70	122.73	124.72	123.62	123.62	122.78	122.54	122.53	122.51	
25	122.94	122.85	122.87	122.70	122.73	125.04	123.63	123.49	122.77	122.54	122.53	122.53	
26	122.94	122.85	122.85	122.68	122.72	125.35	123.62	123.35	122.76	122.54	122.53	122.57	
27	122.94	122.86	122.83	122.67	122.71	125.70	123.61	123.23	122.75	122.52	122.53	122.56	
28	122.94	122.87	122.80	122.64	122.71	125.76	123.59	123.15	122.73	122.52	122.52	122.54	
29	122.94	122.88	122.78	122.71	122.78	125.68	123.59	123.11	122.72	122.52	122.52	122.53	
30	122.94	122.90	122.76	122.75	122.83	125.55	123.58	123.07	122.70	122.52	122.52	122.52	
31		122.91		122.74	123.05		123.49		122.70	122.51		122.51	
Mean	122.94	122.91	122.93	122.67	122.70	124.87	123.88	123.30	122.86	122.60	122.55	122.53	
Max	122.95	122.96	123.24	122.78	123.05	126.06	125.16	123.77	123.05	122.71	122.76	122.57	126.06
Min	122.92	122.85	122.76	122.55	122.59	123.19	123.49	123.07	122.70	122.51	122.47	122.50	122.47
Annual Max Momentary Gage Height	126.11		m. (MSL.) ,			at 16.00 Hours ,		on Sep 10 ,					
Zero Gage at Bottom Elevation	123.00		m. (MSL.) ,			River Bed	121.11	m. (MSL.)					
Left Bank Elevation		131.78		m. (MSL.) ,									
Right Bank Elevation		132.12		m. (MSL.) ,		Drainage Are	28,458	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.96	1.02	0.81	0.42	0.42	1.96	68.00	7.40	1.40	0.30	0.00	0.00	
2	0.99	1.05	0.84	0.39	0.33	2.80	49.00	8.80	1.36	0.33	0.00	0.00	
3	0.99	1.05	0.72	0.36	0.24	2.90	37.00	8.20	1.28	0.30	0.00	0.00	
4	1.02	1.05	0.75	0.33	0.18	3.50	21.80	4.40	1.24	0.30	0.15	0.00	
5	1.02	1.05	0.69	0.30	0.09	6.20	12.30	3.00	1.14	0.27	0.48	0.00	
6	1.02	1.05	0.48	0.27	0.03	43.00	7.80	2.10	1.08	0.24	0.03	0.00	
7	1.02	1.05	0.51	0.24	0.00	77.50	7.60	1.88	0.99	0.21	0.00	0.00	
8	1.05	1.08	0.54	0.18	0.00	88.00	7.00	1.80	0.90	0.18	0.00	0.00	
9	1.05	1.05	0.60	0.12	0.18	97.00	7.00	1.72	0.84	0.15	0.00	0.00	
10	1.05	1.02	0.69	0.06	0.27	114.60	8.40	1.64	0.78	0.12	0.00	0.00	
11	1.05	1.02	0.90	0.00	0.27	114.00	14.10	1.68	0.75	0.09	0.00	0.00	
12	1.05	1.05	1.14	0.00	0.33	95.50	22.20	1.80	0.78	0.06	0.00	0.00	
13	1.05	1.05	1.44	0.00	0.30	56.50	25.80	1.76	0.78	0.03	0.00	0.00	
14	1.02	0.90	1.80	0.00	0.27	37.80	26.60	1.80	0.78	0.00	0.00	0.00	
15	1.02	0.90	2.40	0.00	0.24	34.60	21.00	1.84	0.78	0.00	0.00	0.00	
16	1.02	0.87	2.40	0.03	0.18	44.60	16.20	1.84	0.81	0.00	0.00	0.00	
17	1.02	0.87	1.92	0.00	0.12	66.50	15.80	1.84	0.81	0.00	0.00	0.00	
18	1.02	0.90	1.68	0.00	0.15	70.00	18.20	1.76	0.81	0.00	0.00	0.00	
19	1.02	0.90	1.48	0.09	0.12	61.00	19.00	1.80	0.81	0.00	0.00	0.00	
20	1.02	0.90	1.36	0.48	0.12	53.40	18.60	1.96	0.78	0.00	0.00	0.00	
21	1.02	0.93	1.20	0.42	0.39	49.00	12.30	3.70	0.72	0.00	0.00	0.00	
22	0.99	0.84	1.08	0.54	0.42	43.40	8.00	10.20	0.66	0.00	0.00	0.00	
23	0.99	0.84	0.99	0.42	0.39	41.00	7.20	11.10	0.60	0.00	0.00	0.00	
24	0.99	0.78	0.90	0.30	0.39	47.80	7.40	7.40	0.54	0.00	0.00	0.00	
25	1.02	0.75	0.81	0.30	0.39	62.00	7.60	4.90	0.51	0.00	0.00	0.00	
26	1.02	0.75	0.75	0.24	0.36	77.50	7.40	3.50	0.48	0.00	0.00	0.00	
27	1.02	0.78	0.69	0.21	0.33	95.00	7.20	2.30	0.45	0.00	0.00	0.00	
28	1.02	0.81	0.60	0.12	0.33	98.00	6.80	1.80	0.39	0.00	0.00	0.00	
29	1.02	0.84	0.54	0.33	0.54	94.00	6.80	1.64	0.36	0.00	0.00	0.00	
30	1.02	0.90	0.48	0.45	0.69	87.50	6.60	1.48	0.30	0.00	0.00	0.00	
31		0.93		0.42	1.40		4.90		0.30	0.00		0.00	
<b>Total</b>	<b>30.57</b>	<b>28.98</b>	<b>31.19</b>	<b>7.02</b>	<b>9.47</b>	<b>1766.56</b>	<b>505.60</b>	<b>107.04</b>	<b>24.21</b>	<b>2.58</b>	<b>0.66</b>	<b>0.00</b>	<b>2513.88</b> CMSDAY
<b>Mean</b>	<b>1.02</b>	<b>0.93</b>	<b>1.04</b>	<b>0.23</b>	<b>0.31</b>	<b>58.89</b>	<b>16.31</b>	<b>3.57</b>	<b>0.78</b>	<b>0.08</b>	<b>0.02</b>	<b>0.00</b>	<b>6.87</b> CMS
<b>Max</b>	<b>1.05</b>	<b>1.08</b>	<b>2.40</b>	<b>0.54</b>	<b>1.40</b>	<b>114.60</b>	<b>68.00</b>	<b>11.10</b>	<b>1.40</b>	<b>0.33</b>	<b>0.48</b>	<b>0.00</b>	<b>114.60</b> CMS
<b>Min</b>	<b>0.96</b>	<b>0.75</b>	<b>0.48</b>	<b>0.00</b>	<b>0.00</b>	<b>1.96</b>	<b>4.90</b>	<b>1.48</b>	<b>0.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>2.64</b>	<b>2.50</b>	<b>2.69</b>	<b>0.61</b>	<b>0.82</b>	<b>152.63</b>	<b>43.68</b>	<b>9.25</b>	<b>2.09</b>	<b>0.22</b>	<b>0.06</b>	<b>0.00</b>	<b>217.20</b> MCM
<b>Momentary Peak</b>	<b>117.60 CMS. at 126.11 m. (MSL.) at 16.00 Hours , on Sep 10, 2019</b>												
<b>Runoff Yield</b>	<b>0.24 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>4.13 Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## MUN RIVER BASIN

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

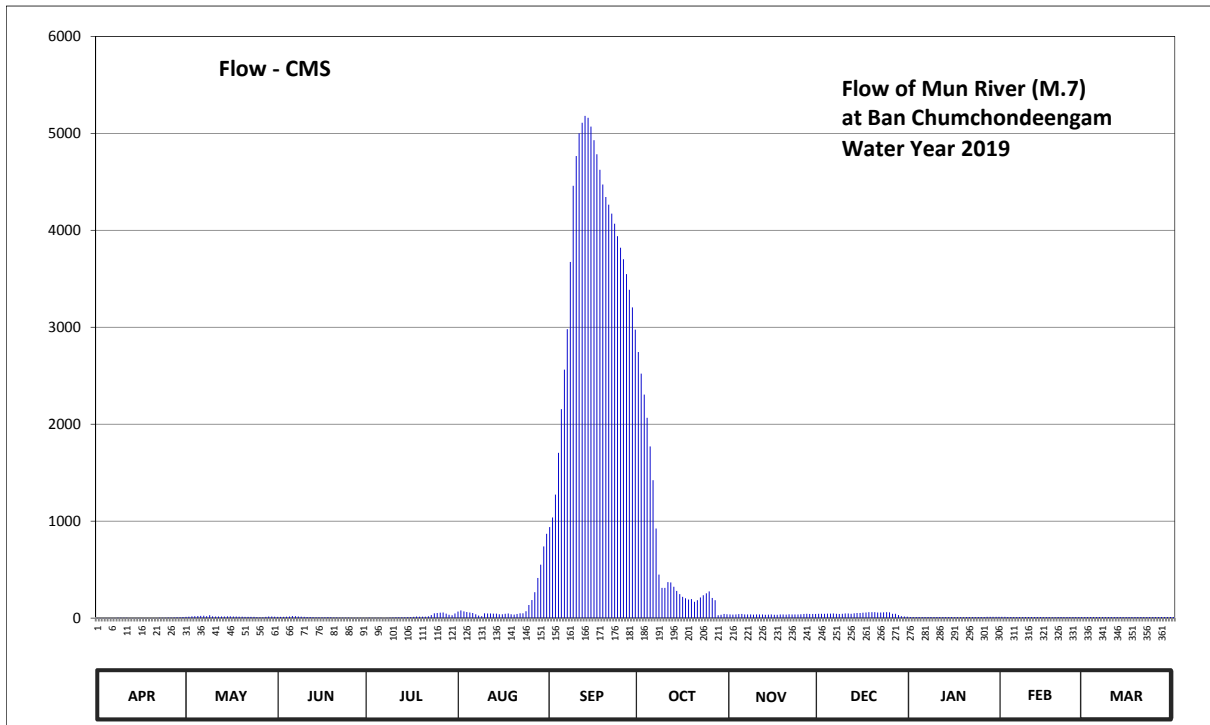
Lat 15 - 13 - 15 N Long 104 - 51 - 41 E

Location : on left bank at Seri Prachathipatai Bridge.

	<b>Ban</b>	Chumchondeengam	<b>Amphoe</b>	Warin Chamrap	<b>Changwat</b>	Ubon Ratchathani
<b>Drainage Area</b>	107,345 sq.km.					
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+105.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of 200 years Krung Ratanakosin				<b>Elevation</b>	+121.152 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1944 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1956 - 1958, 1964 - 1981, 1983 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1956 - 1958, 1964 - 1981, 1983 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 73 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.41	106.82	106.82	106.56	107.47	110.27	112.74	107.78	107.84	107.04	107.15	107.01	
2	106.40	106.88	106.81	106.58	107.56	110.55	112.37	107.75	107.84	107.03	107.10	107.02	
3	106.40	106.94	106.83	106.55	107.49	111.16	112.01	107.78	107.84	107.04	107.04	107.02	
4	106.41	106.98	106.86	106.55	107.42	112.23	111.61	107.81	107.86	107.02	107.02	107.01	
5	106.44	107.01	106.93	106.53	107.38	113.13	111.06	107.82	107.86	107.01	107.02	107.00	
6	106.47	107.03	107.02	106.52	107.33	113.79	110.34	107.77	107.87	106.99	107.02	106.99	
7	106.51	107.04	106.99	106.51	107.19	114.30	109.23	107.76	107.85	106.99	107.01	106.98	
8	106.53	106.99	106.93	106.55	107.07	114.78	108.17	107.76	107.83	106.99	107.01	106.99	
9	106.54	107.09	106.88	106.59	106.98	115.19	107.83	107.75	107.84	106.99	107.02	106.99	
10	106.54	106.96	106.83	106.66	107.29	115.54	107.83	107.78	107.87	106.98	107.03	106.99	
11	106.53	106.93	106.80	106.68	107.27	115.78	107.98	107.78	107.87	106.99	107.04	106.99	
12	106.50	106.90	106.77	106.72	107.27	115.89	107.97	107.76	107.85	106.99	107.04	107.01	
13	106.47	106.90	106.75	106.71	107.26	115.96	107.86	107.72	107.89	106.97	107.01	107.02	
14	106.48	106.93	106.72	106.71	107.26	115.94	107.75	107.74	107.93	106.97	107.00	107.02	
15	106.50	106.97	106.69	106.73	107.20	115.85	107.67	107.76	107.93	106.97	106.98	107.01	
16	106.49	106.96	106.71	106.76	107.19	115.71	107.60	107.72	107.96	106.96	106.98	107.01	
17	106.47	106.93	106.70	106.81	107.24	115.56	107.56	107.73	107.98	106.96	106.97	107.01	
18	106.45	106.89	106.74	106.90	107.27	115.38	107.53	107.78	108.01	106.96	106.96	107.01	
19	106.44	106.85	106.69	106.88	107.20	115.19	107.54	107.77	108.01	106.96	106.96	107.01	
20	106.46	106.85	106.67	106.86	107.16	115.03	107.45	107.75	108.01	106.97	106.97	107.01	
21	106.50	106.84	106.64	106.86	107.22	114.93	107.51	107.80	107.98	107.00	106.99	107.00	
22	106.53	106.84	106.62	106.96	107.29	114.81	107.58	107.78	107.98	107.01	107.00	107.00	
23	106.55	106.84	106.60	107.11	107.29	114.67	107.64	107.77	108.00	107.01	106.98	107.00	
24	106.56	106.81	106.58	107.30	107.51	114.50	107.69	107.76	108.01	107.01	106.98	107.02	
25	106.59	106.76	106.58	107.33	107.88	114.33	107.74	107.79	107.99	107.03	106.97	107.02	
26	106.62	106.70	106.56	107.36	108.09	114.16	107.57	107.82	107.85	107.06	106.98	107.02	
27	106.65	106.68	106.55	107.38	108.35	113.94	107.51	107.84	107.84	107.09	106.99	107.00	
28	106.68	106.81	106.55	107.26	108.77	113.71	107.65	107.83	107.68	107.12	107.00	107.01	
29	106.72	106.90	106.55	107.14	109.16	113.45	107.72	107.83	107.49	107.13	107.01	107.03	
30	106.77	106.89	106.56	107.10	109.70	113.10	107.83	107.83	107.32	107.13	107.05	107.05	
31		106.85		107.28	110.07		107.80		107.17	107.14		107.06	
Mean	106.52	106.90	106.73	106.85	107.64	114.29	108.53	107.78	107.85	107.02	107.01	107.01	
Max	106.77	107.09	107.02	107.38	110.07	115.96	112.74	107.84	108.01	107.14	107.15	107.06	115.96
Min	106.40	106.68	106.55	106.51	106.98	110.27	107.45	107.72	107.17	106.96	106.96	106.98	106.40
Annual Max Momentary Gage Height	115.97		m. (MSL.) ,			at 03.00 Hours ,	on Sep 13 , 2019						
Zero Gage at Bottom Elevation	105.00		m. (MSL.) ,			River Bed	100.57	m. (MSL.)					
Left Bank Elevation		120.89		m. (MSL.) ,									
Right Bank Elevation		117.46		m. (MSL.) ,		Drainage Are	107,345	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	12.80	12.80	3.80	67.00	939.50	2744.00	38.60	44.00	11.88	13.75	11.37		
2	1.00	15.20	12.40	4.40	79.00	1037.50	2522.00	36.50	44.00	11.71	12.90	11.54		
3	1.00	17.60	13.20	3.50	69.00	1274.00	2306.00	38.60	44.00	11.88	11.88	11.54		
4	1.10	19.20	14.40	3.50	62.00	1705.00	2066.00	41.00	46.00	11.54	11.54	11.37		
5	1.40	21.00	17.20	2.90	58.00	2155.00	1770.00	42.00	46.00	11.37	11.54	11.20		
6	1.70	23.00	22.00	2.60	53.00	2563.00	1423.00	37.90	47.00	11.04	11.54	11.04		
7	2.30	24.00	19.60	2.30	39.00	2980.00	923.50	37.20	45.00	11.04	11.37	10.88		
8	2.90	19.60	17.20	3.50	27.00	3674.00	448.00	37.20	43.00	11.04	11.37	11.04		
9	3.20	29.00	15.20	4.70	19.20	4460.01	312.00	36.50	44.00	11.04	11.54	11.04		
10	3.20	18.40	13.20	6.80	49.00	4766.00	312.00	38.60	47.00	10.88	11.71	11.04		
11	2.90	17.20	12.00	7.40	47.00	5000.00	372.00	38.60	47.00	11.04	11.88	11.04		
12	2.00	16.00	10.80	8.80	47.00	5110.00	368.00	37.20	45.00	11.04	11.88	11.37		
13	1.70	16.00	10.00	8.40	46.00	5180.00	324.00	34.40	49.00	10.72	11.37	11.54		
14	1.80	17.20	8.80	8.40	46.00	5160.00	280.00	35.80	53.00	10.72	11.20	11.54		
15	2.00	18.80	7.70	9.20	40.00	5070.00	248.00	37.20	53.00	10.72	10.88	11.37		
16	1.90	18.40	8.40	10.40	39.00	4930.00	220.00	34.40	56.00	10.56	10.88	11.37		
17	1.70	17.20	8.00	12.40	44.00	4784.00	204.00	35.10	58.00	10.56	10.72	11.37		
18	1.50	15.60	9.60	16.00	47.00	4624.00	192.00	38.60	61.00	10.56	10.56	11.37		
19	1.40	14.00	7.70	15.20	40.00	4472.00	196.00	37.90	61.00	10.56	10.56	11.37		
20	1.60	14.00	7.10	14.40	36.00	4344.00	167.50	36.50	61.00	10.72	10.72	11.37		
21	2.00	13.60	6.20	14.40	42.00	4264.00	184.00	40.00	58.00	11.20	11.04	11.20		
22	2.90	13.60	5.60	18.40	49.00	4172.50	212.00	38.60	58.00	11.37	11.20	11.20		
23	3.50	13.60	5.00	31.00	49.00	4067.50	236.00	37.90	60.00	11.37	10.88	11.20		
24	3.80	12.40	4.40	50.00	71.50	3940.00	256.00	37.20	61.00	11.37	10.88	11.54		
25	4.70	10.40	4.40	53.00	136.00	3821.00	276.00	39.30	59.00	11.71	10.72	11.54		
26	5.60	8.00	3.80	56.00	187.00	3702.00	208.00	42.00	45.00	12.22	10.88	11.54		
27	6.50	7.40	3.50	58.00	267.50	3548.00	184.00	44.00	44.00	12.73	11.04	11.20		
28	7.40	12.40	3.50	46.00	414.50	3387.00	29.50	43.00	31.60	13.24	11.20	11.37		
29	8.80	16.00	3.50	34.00	551.00	3205.00	34.40	43.00	19.82	13.41	11.37	11.71		
30	10.80	15.60	3.80	30.00	740.00	2975.00	43.00	43.00	16.76	13.41		12.05		
31		14.00		48.00	869.50		40.00		14.09	13.58		12.22		
<b>Total</b>	<b>93.40</b>	<b>501.20</b>	<b>291.00</b>	<b>587.40</b>	<b>4331.20</b>	<b>111310.01</b>	<b>19100.90</b>	<b>1157.80</b>	<b>1461.27</b>	<b>356.23</b>	<b>329.00</b>	<b>352.54</b>	<b>139871.95</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>3.11</b>	<b>16.17</b>	<b>9.70</b>	<b>18.95</b>	<b>139.72</b>	<b>3710.33</b>	<b>616.16</b>	<b>38.59</b>	<b>47.14</b>	<b>11.49</b>	<b>11.34</b>	<b>11.37</b>	<b>382.16</b>	<b>CMS</b>
<b>Max</b>	<b>10.80</b>	<b>29.00</b>	<b>22.00</b>	<b>58.00</b>	<b>869.50</b>	<b>5180.00</b>	<b>2744.00</b>	<b>44.00</b>	<b>61.00</b>	<b>13.58</b>	<b>13.75</b>	<b>12.22</b>	<b>5180.00</b>	<b>CMS</b>
<b>Min</b>	<b>1.00</b>	<b>7.40</b>	<b>3.50</b>	<b>2.30</b>	<b>19.20</b>	<b>939.50</b>	<b>29.50</b>	<b>34.40</b>	<b>14.09</b>	<b>10.56</b>	<b>10.56</b>	<b>10.88</b>	<b>1.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>8.07</b>	<b>43.30</b>	<b>25.14</b>	<b>50.75</b>	<b>374.22</b>	<b>9617.18</b>	<b>1650.32</b>	<b>100.03</b>	<b>126.25</b>	<b>30.78</b>	<b>28.43</b>	<b>30.46</b>	<b>12084.94</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>5190.00 CMS. at 115.97 m. (MSL.) at 03.00 Hours , on Sep 13 , 2019</b>													
<b>Runoff Yield</b>	<b>3.57 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>48.35 Liters/Second/Square KM.</b>						



## WATER YEAR : 2019

## MUN RIVER BASIN

## Huai Samran at Ban Saphan Khao Community, Si Sa ket (M.9)

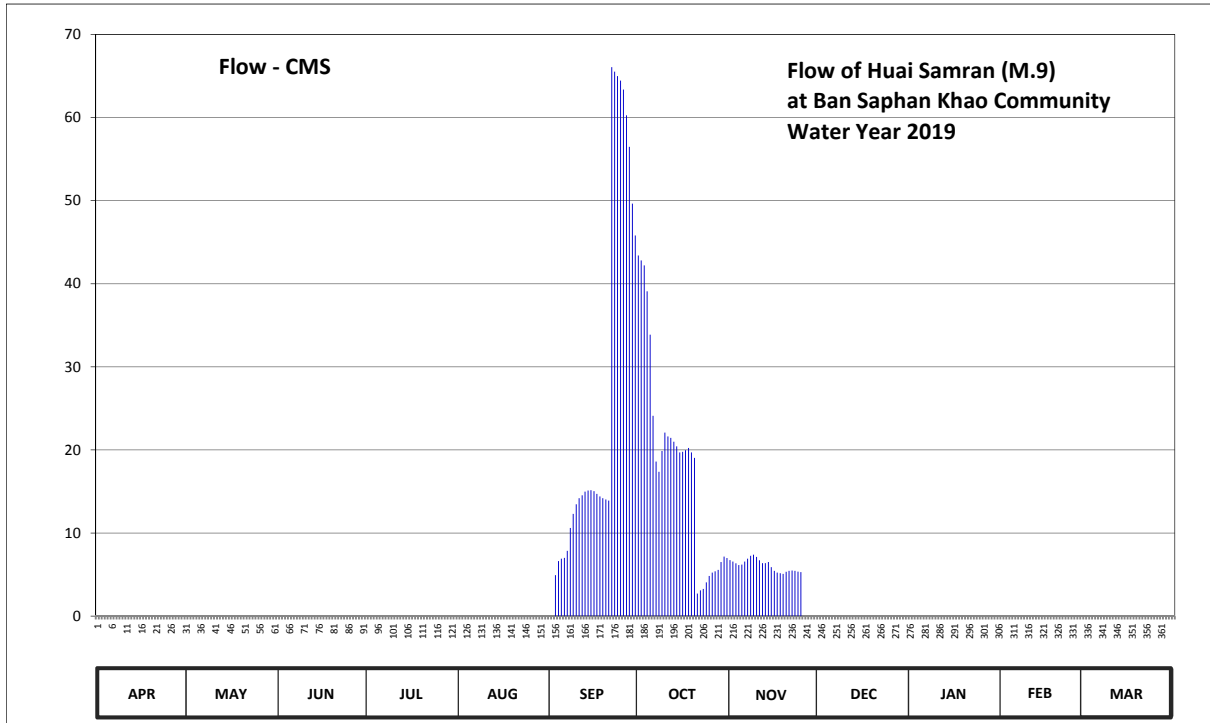
Lat 15 - 06 - 58 N Long 104 - 19 - 21 E

Location : on right bank at the bridge on Highway.

	<b>Ban</b> Saphan Khao Community	<b>Amphoe</b> Mueang	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	2,988 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+109.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the top staff gage.	<b>Elevation</b>	+124.692 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1954, 1972 - 1981, 1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1954, 1972 - 1981, 1987 to date		
<b>Stability of Channel Regimes</b>	Stable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The Water Supply weir situated above gage site. Stage-discharge relation defined by 29 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	114.16	114.37	114.54	114.50	114.69	114.68	115.45	115.48	115.37	115.34	114.98	114.64	
2	114.18	114.39	114.53	114.53	114.66	114.70	115.40	115.42	115.40	115.34	114.97	114.63	
3	114.18	114.46	114.53	114.53	114.63	114.86	115.35	115.35	115.42	115.34	114.95	114.61	
4	114.22	114.55	114.52	114.52	114.61	115.44	115.09	115.28	115.43	115.33	114.95	114.59	
5	114.23	114.60	114.53	114.51	114.58	115.54	114.62	115.30	115.43	115.33	114.96	114.58	
6	114.23	114.60	114.56	114.51	114.57	115.57	113.68	115.42	115.44	115.32	114.96	114.56	
7	114.23	114.61	114.58	114.51	114.57	115.85	113.08	115.54	115.44	115.30	114.96	114.55	
8	114.25	114.65	114.56	114.50	114.57	116.48	112.94	115.65	115.45	115.28	114.96	114.55	
9	114.25	114.78	114.54	114.50	114.59	116.86	113.22	115.70	115.45	115.27	114.96	114.54	
10	114.25	114.86	114.53	114.51	114.64	117.12	113.46	115.61	115.46	115.24	114.95	114.53	
11	114.25	114.89	114.51	114.50	114.64	117.28	113.41	115.47	115.45	115.23	114.94	114.52	
12	114.25	114.92	114.51	114.50	114.62	117.36	113.39	115.36	115.43	115.21	114.93	114.52	
13	114.25	114.88	114.50	114.49	114.60	117.46	113.34	115.36	115.41	115.21	114.90	114.51	
14	114.25	114.72	114.49	114.49	114.59	117.49	113.28	115.40	115.41	115.22	114.88	114.49	
15	114.29	114.64	114.51	114.49	114.58	117.50	113.20	115.20	115.40	115.22	114.85	114.48	
16	114.29	114.62	114.56	114.48	114.58	117.47	113.21	115.05	115.41	115.21	114.84	114.45	
17	114.31	114.58	114.60	114.48	114.57	117.40	113.23	114.98	115.40	115.21	114.83	114.43	
18	114.33	114.53	114.59	114.48	114.57	117.33	113.26	114.95	115.39	115.19	114.80	114.40	
19	114.33	114.53	114.57	114.47	114.57	117.28	113.20	114.93	115.39	115.18	114.78	114.38	
20	114.33	114.52	114.55	114.47	114.58	117.25	113.13	115.01	115.39	115.18	114.76	114.36	
21	114.32	114.51	114.54	114.51	114.58	117.22	113.35	115.05	115.38	115.17	114.74	114.36	
22	114.33	114.51	114.53	114.51	114.57	117.19	113.64	115.06	115.38	115.16	114.72	114.36	
23	114.33	114.50	114.52	114.53	114.59	117.15	113.78	115.05	115.37	115.15	114.71	114.34	
24	114.33	114.51	114.52	114.56	114.63	117.11	114.39	115.02	115.36	115.13	114.70	114.33	
25	114.32	114.54	114.55	114.57	114.69	117.07	114.82	115.00	115.36	115.12	114.69	114.30	
26	114.33	114.55	114.54	114.57	114.72	116.99	114.98	115.08	115.36	115.10	114.68	114.28	
27	114.37	114.60	114.52	114.57	114.69	116.76	115.03	115.17	115.35	115.08	114.68	114.26	
28	114.37	114.65	114.51	114.55	114.66	116.48	115.09	115.25	115.34	115.06	114.67	114.25	
29	114.37	114.61	114.51	114.59	114.68	115.97	115.40	115.30	115.32	115.03	114.65	114.25	
30	114.38	114.58	114.50	114.70	114.77	115.65	115.62	115.33	115.33	115.01	114.65	114.25	
31		114.55		114.71	114.72		115.56		115.33	115.00		114.26	
Mean	114.28	114.61	114.54	114.53	114.62	116.62	114.08	115.26	115.40	115.20	114.84	114.44	
Max	114.38	114.92	114.60	114.71	114.77	117.50	115.62	115.70	115.46	115.34	114.98	114.64	117.50
Min	114.16	114.37	114.49	114.47	114.57	114.68	112.94	114.93	115.32	115.00	114.65	114.25	112.94
Annual Max Momentary Gage Height	117.20		m. (MSL.) ,				at 01.00 Hours ,						on Sep 22 , 2019
Zero Gage at Bottom Elevation	109.00		m. (MSL.) ,				River Bed	109.04		m. (MSL.)			
Left Bank Elevation		123.15		m. (MSL.) ,									
Right Bank Elevation		124.94		m. (MSL.) ,			Drainage Are	2,988		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	43.40	6.74	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	42.80	6.56	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	4.92	42.20	6.35	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	6.62	39.09	6.14	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	6.92	33.87	6.20	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	7.01	24.11	6.56	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	7.85	18.59	6.92	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	10.60	17.37	7.25	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	12.30	19.87	7.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	13.46	22.08	7.13	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	14.18	21.62	6.71	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	14.54	21.44	6.38	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	14.98	20.98	6.38	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	15.12	20.43	6.50	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	15.16	19.69	5.90	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	15.03	19.78	5.45	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	14.71	19.97	5.24	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	14.40	20.24	5.15	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	14.18	19.69	5.09	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	14.04	19.05	5.33	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	13.91	2.72	5.45	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	66.07	3.09	5.48	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	65.53	3.27	5.45	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	64.99	4.07	5.36	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	64.45	4.84	5.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	63.37	5.24	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	60.26	5.39	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	56.48	5.57	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	49.64	6.50	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	45.80	7.16	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	6.98	6.98	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	766.52	561.10	152.42	0.00	0.00	0.00	0.00	1480.04 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	25.55	18.10	5.08	0.00	0.00	0.00	0.00	4.04 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	66.07	43.40	7.40	0.00	0.00	0.00	0.00	66.07 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.72	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	66.23	48.48	13.17	0.00	0.00	0.00	0.00	127.88 MCM
<b>Momentary Peak</b>	66.20	CMS. at 117.20 m. (MSL.) at 01.00 Hours , on Sep 22, 2019											
<b>Runoff Yield</b>	1.36	Liters/Second/Square KM. Momentary Peak Yield 22.16 Liters/Second/Square KM.											

**WATER YEAR : 2019****MUN RIVER BASIN****Mun River at Ban Pho Tak, Ubon Ratchathani (M.11B)**

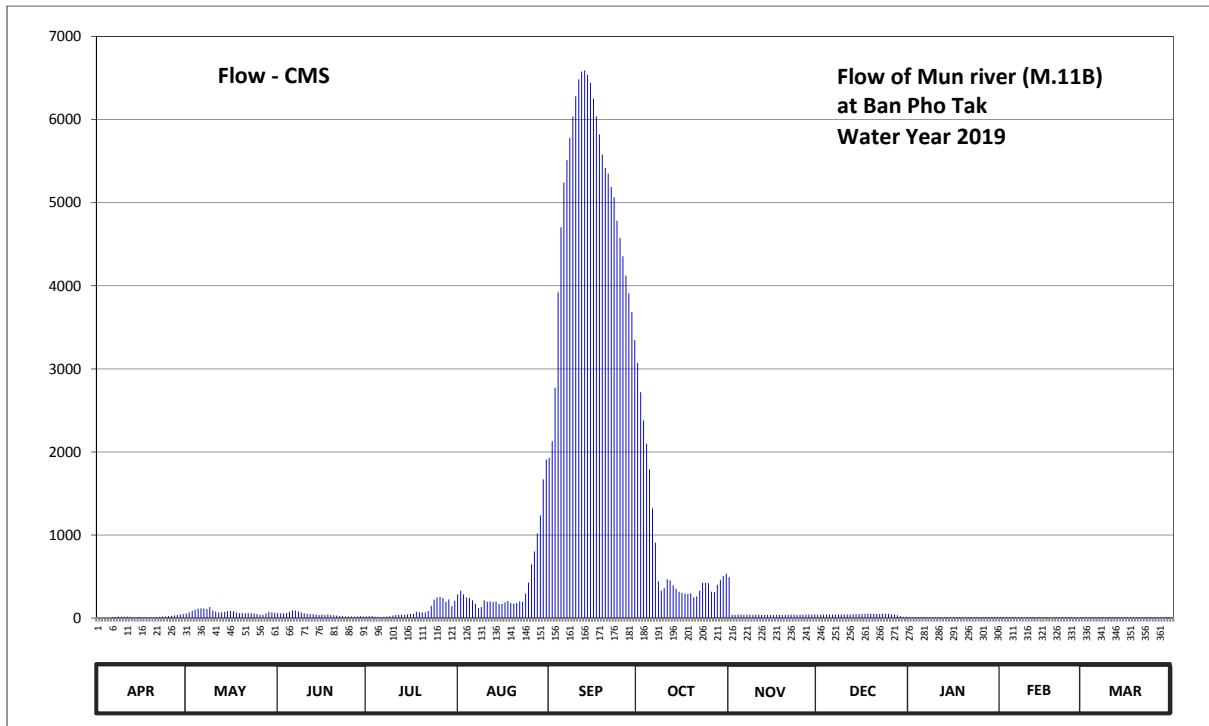
Lat 15 - 15 - 11 N Long 105 - 13 - 53 E

Location : on right bank at the bridge on road.

	<b>Ban Pho Tak</b>	<b>Amphoe Phibul Mangsahan</b>	<b>Changwat Ubon Ratchathani</b>
<b>Drainage Area</b>	115,687 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+104.00 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+113.192 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +112.930 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 44 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.25	106.62	106.65	106.40	107.27	109.33	110.40	107.62	107.68	106.89	106.90	106.83	
2	106.25	106.69	106.64	106.43	107.35	109.53	110.09	107.58	107.66	106.86	106.92	106.84	
3	106.25	106.76	106.63	106.42	107.27	110.14	109.78	107.60	107.66	106.85	106.88	106.85	
4	106.25	106.81	106.66	106.38	107.20	111.11	109.50	107.64	107.68	106.85	106.84	106.85	
5	106.26	106.85	106.72	106.36	107.18	111.72	109.19	107.64	107.68	106.84	106.84	106.84	
6	106.30	106.86	106.78	106.35	107.11	112.12	108.72	107.60	107.66	106.83	106.84	106.83	
7	106.35	106.85	106.78	106.36	107.01	112.32	108.21	107.59	107.67	106.82	106.83	106.83	
8	106.38	106.83	106.74	106.39	106.87	112.52	107.54	107.59	107.65	106.83	106.83	106.84	
9	106.39	106.91	106.69	106.42	106.91	112.71	107.35	107.59	107.67	106.81	106.84	106.84	
10	106.39	106.77	106.64	106.48	107.11	112.89	107.40	107.61	107.70	106.80	106.85	106.82	
11	106.39	106.73	106.61	106.51	107.07	113.04	107.58	107.62	107.71	106.80	106.86	106.82	
12	106.36	106.70	106.60	106.53	107.08	113.11	107.56	107.60	107.68	106.82	106.87	106.83	
13	106.32	106.70	106.58	106.55	107.06	113.12	107.46	107.56	107.73	106.81	106.86	106.83	
14	106.31	106.72	106.56	106.56	107.07	113.08	107.39	107.57	107.76	106.79	106.84	106.85	
15	106.35	106.75	106.52	106.57	107.00	113.01	107.33	107.60	107.77	106.79	106.83	106.86	
16	106.32	106.76	106.54	106.60	107.00	112.87	107.31	107.56	107.79	106.80	106.81	106.85	
17	106.32	106.74	106.52	106.61	107.05	112.71	107.29	107.57	107.82	106.79	106.79	106.85	
18	106.30	106.69	106.56	106.72	107.09	112.55	107.28	107.61	107.85	106.78	106.77	106.85	
19	106.29	106.65	106.52	106.70	107.03	112.37	107.30	107.60	107.85	106.78	106.77	106.84	
20	106.29	106.65	106.50	106.69	107.01	112.25	107.20	107.58	107.84	106.79	106.79	106.84	
21	106.32	106.65	106.48	106.70	107.03	112.20	107.22	107.64	107.81	106.81	106.81	106.85	
22	106.37	106.65	106.45	106.76	107.08	112.08	107.35	107.62	107.82	106.83	106.83	106.84	
23	106.39	106.64	106.43	106.95	107.07	111.99	107.51	107.61	107.84	106.83	106.83	106.83	
24	106.40	106.63	106.40	107.13	107.29	111.78	107.51	107.59	107.85	106.84	106.81	106.85	
25	106.43	106.60	106.40	107.20	107.51	111.62	107.50	107.62	107.83	106.86	106.81	106.87	
26	106.45	106.54	106.40	107.21	107.84	111.45	107.33	107.64	107.69	106.89	106.81	106.86	
27	106.49	106.53	106.39	107.18	108.06	111.27	107.32	107.67	107.66	106.92	106.81	106.85	
28	106.51	106.63	106.40	107.07	108.37	111.10	107.47	107.65	107.52	106.94	106.83	106.84	
29	106.56	106.72	106.42	107.14	108.63	110.91	107.57	107.67	107.28	106.90	106.82	106.86	
30	106.59	106.69	106.40	106.94	109.07	110.63	107.64	107.67	107.04	106.90		106.88	
31		106.67		107.10	109.31		107.68		106.98	106.89		106.92	
Mean	106.36	106.71	106.55	106.69	107.39	111.92	107.87	107.61	107.67	106.84	106.83	106.85	
Max	106.59	106.91	106.78	107.21	109.31	113.12	110.40	107.67	107.85	106.94	106.92	106.92	113.12
Min	106.25	106.53	106.39	106.35	106.87	109.33	107.20	107.56	106.98	106.78	106.77	106.82	106.25
Annual Max Momentary Gage Height	113.12		m. (MSL.) ,				at 18.00 Hours ,						on Sep 12, 2019
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 Are	115,687		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	54.00	60.00	20.00	285.00	1930.00	3070.00	494.00	44.00	13.80	14.00	12.60	
2	0.00	68.00	58.00	24.50	330.00	2130.00	2719.00	39.00	43.00	13.20	14.40	12.80	
3	0.00	88.00	56.00	23.00	285.00	2774.00	2380.00	40.00	43.00	13.00	13.60	13.00	
4	0.00	103.00	62.00	18.00	250.00	3922.00	2100.00	42.00	44.00	13.00	12.80	13.00	
5	6.00	115.00	76.00	16.00	242.00	4706.00	1790.00	42.00	44.00	12.80	12.80	12.80	
6	10.00	118.00	94.00	15.00	214.00	5242.00	1320.00	40.00	43.00	12.60	12.80	12.60	
7	15.00	115.00	94.00	16.00	174.00	5512.00	907.00	39.50	43.50	12.40	12.60	12.60	
8	18.00	109.00	82.00	19.00	121.00	5782.00	444.00	39.50	42.50	12.60	12.60	12.80	
9	19.00	134.00	68.00	23.00	134.00	6038.50	330.00	39.50	43.50	12.20	12.80	12.80	
10	19.00	91.00	58.00	32.00	214.00	6281.50	360.00	40.50	45.00	12.00	13.00	12.40	
11	19.00	79.00	52.00	36.50	198.00	6484.00	468.00	41.00	45.50	12.00	13.20	12.40	
12	16.00	70.00	50.00	39.50	202.00	6578.50	456.00	40.00	44.00	12.40	13.40	12.60	
13	12.00	70.00	47.00	42.50	194.00	6592.00	396.00	38.00	46.50	12.20	13.20	12.60	
14	11.00	76.00	44.00	44.00	198.00	6538.00	354.00	38.50	48.00	11.80	12.80	13.00	
15	15.00	85.00	38.00	45.50	170.00	6443.50	318.00	40.00	48.50	11.80	12.60	13.20	
16	12.00	88.00	41.00	50.00	170.00	6254.50	306.00	38.00	49.50	12.00	12.20	13.00	
17	12.00	82.00	38.00	52.00	190.00	6038.50	295.00	38.50	51.00	11.80	11.80	13.00	
18	10.00	68.00	44.00	76.00	206.00	5822.50	290.00	40.50	52.50	11.60	11.40	13.00	
19	9.00	60.00	38.00	70.00	182.00	5579.50	300.00	40.00	52.50	11.60	11.40	12.80	
20	9.00	60.00	35.00	68.00	174.00	5417.50	250.00	39.00	52.00	11.80	11.80	12.80	
21	12.00	60.00	32.00	70.00	182.00	5350.00	260.00	42.00	50.50	12.20	12.20	13.00	
22	17.00	60.00	27.50	88.00	202.00	5188.00	330.00	41.00	51.00	12.60	12.60	12.80	
23	19.00	58.00	24.50	150.00	198.00	5066.50	426.00	40.50	52.00	12.60	12.60	12.60	
24	20.00	56.00	20.00	222.00	295.00	4784.00	426.00	39.50	52.50	12.80	12.20	13.00	
25	24.50	50.00	20.00	250.00	426.00	4576.00	420.00	41.00	51.50	13.20	12.20	13.40	
26	27.50	41.00	20.00	255.00	648.00	4355.00	318.00	42.00	44.50	13.80	12.20	13.20	
27	33.50	39.50	19.00	242.00	802.00	4121.00	312.00	43.50	43.00	14.40	12.20	13.00	
28	36.50	56.00	20.00	198.00	1019.00	3910.00	402.00	42.50	36.00	14.80	12.60	12.80	
29	44.00	76.00	23.00	226.00	1237.00	3682.00	462.00	43.50	24.00	14.00	12.40	13.20	
30	48.50	68.00	20.00	146.00	1670.00	3346.00	508.00	43.50	16.80	14.00		13.60	
31		64.00		210.00	1910.00		536.00		15.60	13.80		14.40	
Total	494.50	2361.50	1361.00	2787.50	12722.00	150445.00	23253.00	1668.50	1362.90	394.80	366.40	400.80	197617.90 CMSDAY
Mean	16.48	76.18	45.37	89.92	410.39	5014.83	750.10	55.62	43.96	12.74	12.63	12.93	539.94 CMS
Max	48.50	134.00	94.00	255.00	1910.00	6592.00	3070.00	494.00	52.50	14.80	14.40	14.40	6592.00 CMS
Min	0.00	39.50	19.00	15.00	121.00	1930.00	250.00	38.00	15.60	11.60	11.40	12.40	0.00 CMS
Runoff	42.72	204.03	117.59	240.84	1099.18	12998.45	2009.06	144.16	117.75	34.11	31.66	34.63	17074.19 MCM
Momentary Peak		6592.00	CMS.	at 113.12 m. (MSL.)	at 18.00 Hours ,	on Sep 12, 2019							
Runoff Yield		4.68	Liters/Second/Square KM.		Momentary Peak Yield	56.98	Liters/Second/Square KM.						

## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Se Bai at Ban Chiang Pheng, Yasothon (M.32)

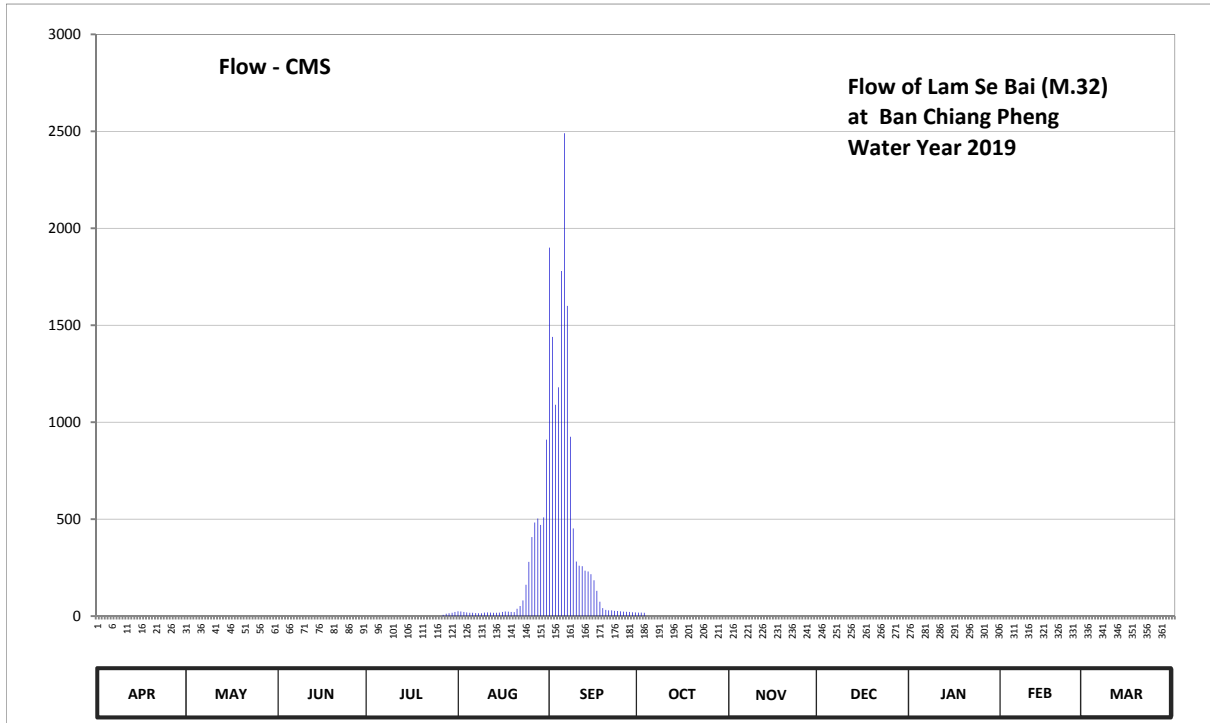
Lat 15 - 50 - 18 N Long 104 - 27 - 35 E

Location : on right bank at Phawaphutanon bridge.

	<b>Ban</b>	<b>Chiang Pheng</b>	<b>Amphoe Pa Tiu</b>	<b>Changwat</b>	<b>Yasothon</b>
<b>Drainge Area</b>	1,654	sq.km.			
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+120.300 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank at the automatic gage building.			<b>Elevation</b>	+130.837 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings				
<b>Period of Available Gage Records</b>	1968 - 1974, 1997 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1968 - 1974, 1997 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1968 - 1974, 1997 to date				
<b>Stability of Channel Regimes</b>	Rather unstable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records very good. The concrete weir situated about 3 kilometers downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.22	120.76	119.59	119.21	124.49	129.60	124.37	124.31	124.11	123.60	122.68	121.06	
2	120.21	120.74	119.58	119.36	124.48	129.36	124.36	124.30	124.10	123.59	122.56	121.02	
3	120.18	120.67	119.57	119.52	124.42	129.09	124.35	124.29	124.08	123.58	122.51	120.98	
4	120.15	120.64	119.55	119.67	124.38	129.18	124.36	124.28	124.06	123.57	122.48	120.92	
5	120.13	120.60	119.52	119.82	124.35	129.54	124.36	124.28	124.05	123.55	122.44	120.87	
6	120.12	120.57	119.50	119.98	124.34	129.83	124.38	124.27	124.03	123.54	122.39	120.84	
7	120.12	120.55	119.48	120.14	124.32	129.45	124.40	124.27	124.01	123.52	122.36	120.83	
8	120.12	120.55	119.46	120.28	124.29	128.90	124.40	124.26	124.00	123.50	122.31	120.81	
9	120.12	120.55	119.45	120.44	124.29	127.81	124.39	124.26	123.99	123.49	122.26	120.78	
10	120.11	120.55	119.43	120.52	124.37	126.94	124.37	124.25	123.97	123.47	122.22	120.75	
11	120.10	120.55	119.41	120.42	124.38	126.80	124.36	124.25	123.94	123.45	122.18	120.69	
12	120.09	120.56	119.39	120.30	124.37	126.78	124.35	124.25	123.92	123.42	122.14	120.64	
13	120.06	120.56	119.38	120.19	124.35	126.63	124.34	124.24	123.90	123.38	122.09	120.59	
14	120.04	120.56	119.36	120.08	124.34	126.60	124.33	124.24	123.88	123.35	122.07	120.55	
15	120.05	120.55	119.34	119.98	124.36	126.51	124.31	124.23	123.86	123.31	122.03	120.51	
16	120.06	120.49	119.33	119.87	124.42	126.25	124.30	124.23	123.84	123.27	121.99	120.48	
17	120.06	120.43	119.31	119.77	124.47	125.70	124.30	124.23	123.83	123.23	121.91	120.46	
18	120.05	120.38	119.29	119.71	124.46	125.14	124.31	124.23	123.82	123.19	121.84	120.42	
19	120.03	120.30	119.28	119.73	124.42	124.81	124.32	124.22	123.80	123.15	121.81	120.40	
20	120.02	120.24	119.26	120.33	124.41	124.64	124.31	124.22	123.79	123.12	121.75	120.38	
21	120.00	120.20	119.25	120.95	124.75	124.59	124.31	124.21	123.78	123.08	121.65	120.36	
22	119.98	120.17	119.24	121.51	124.92	124.59	124.32	124.20	123.76	123.04	121.56	120.34	
23	119.96	120.15	119.23	122.07	125.21	124.55	124.33	124.19	123.75	123.00	121.49	120.32	
24	119.94	120.14	119.22	122.63	126.02	124.52	124.33	124.18	123.73	122.97	121.43	120.30	
25	119.91	120.12	119.21	123.19	126.93	124.49	124.33	124.17	123.71	122.94	121.36	120.28	
26	120.11	120.02	119.20	123.74	127.59	124.46	124.33	124.16	123.70	122.89	121.30	120.26	
27	120.50	119.92	119.19	124.13	127.93	124.44	124.33	124.14	123.67	122.85	121.22	120.24	
28	120.83	119.82	119.19	124.25	128.01	124.42	124.33	124.13	123.66	122.81	121.15	120.22	
29	120.83	119.72	119.18	124.30	127.88	124.40	124.34	124.12	123.64	122.79	121.09	120.20	
30	120.79	119.64	119.17	124.35	128.03	124.38	124.32	124.11	123.63	122.78	121.06	120.18	
31		119.61		124.42	128.88		124.32		123.62	122.78		120.16	
Mean	120.16	120.33	119.35	121.12	125.29	126.48	124.34	124.22	123.86	123.23	121.94	120.54	
Max	120.83	120.76	119.59	124.42	128.88	129.83	124.40	124.31	124.11	123.60	122.68	121.06	129.83
Min	119.91	119.61	119.17	119.21	124.29	124.38	124.30	124.11	123.62	122.78	121.09	120.16	119.17
Annual Max Momentary Gage Height	129.92		m. (MSL.) ,				at 13.00 Hours ,						on Sep 6 , 2019
Zero Gage at Bottom Elevation	120.30		m. (MSL.) ,			River Bed	118.77		m. (MSL)				
Left Bank Elevation		130.60		m. (MSL.) ,									
Right Bank Elevation		130.56		m. (MSL.) ,		Drainage Are	1,654		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	24.50	1900.00	18.50	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	24.00	1440.01	18.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	21.00	1090.00	17.50	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	19.00	1180.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	17.50	1780.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	17.00	2489.99	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	16.00	1600.01	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	14.50	925.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	14.50	452.50	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	18.50	281.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	19.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	18.50	257.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	17.50	234.50	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	17.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	18.00	216.50	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	21.00	185.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	23.50	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	23.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	21.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	20.50	32.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	37.50	29.50	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	52.00	29.50	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	81.00	27.50	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	162.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	279.50	24.50	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	408.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	6.50	482.50	22.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	12.50	503.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	15.00	470.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	17.50	509.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	21.00	910.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	72.50	4280.00	15040.51	54.00	0.00	0.00	0.00	0.00	0.00	19447.01 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	2.34	138.06	501.35	1.74	0.00	0.00	0.00	0.00	0.00	53.13 CMS
<b>Max</b>	0.00	0.00	0.00	21.00	910.00	2489.99	18.50	0.00	0.00	0.00	0.00	0.00	2489.99 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	14.50	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	6.26	369.79	1299.50	4.67	0.00	0.00	0.00	0.00	0.00	1680.22 MCM
<b>Momentary Peak</b>	2760.00	CMS.	at 129.92 m. (MSL.)										on Sep 6 , 2019
<b>Runoff Yield</b>	32.21	Liters/Second/Square KM.											Momentary Peak Yield 1668.68 Liters/Second/Square KM.

## WATER YEAR : 2019

## MUN RIVER BASIN

## Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)

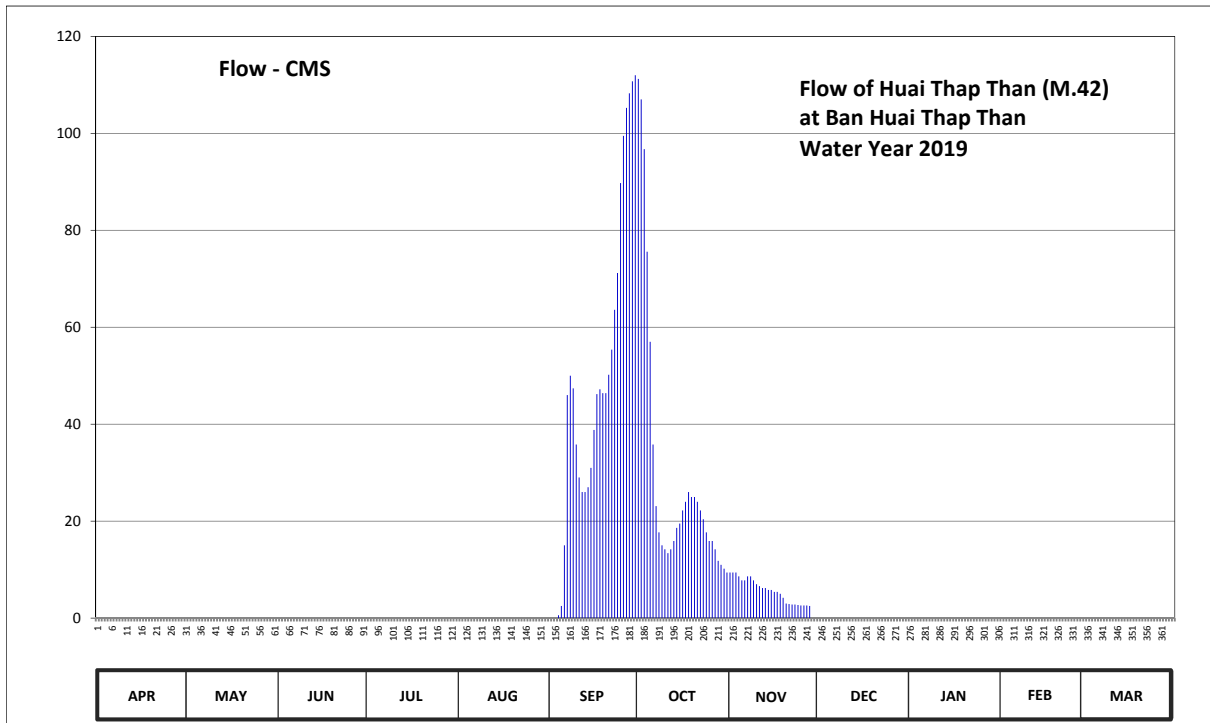
Lat 15 - 02 - 48 N Long 104 - 01 - 31 E

Location : on right bank at the bridge on highway.

	<b>Ban</b>	Huai Thap Than	<b>Amphoe</b>	Huai Thap Thun	<b>Changwat</b>	Si Sa Ket
<b>Drainage Area</b>	2,832	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+118.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the footpath of the bridge.				<b>Elevation</b>	+130.445 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1972 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1972 - 1981, 1987 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1972 - 1981, 1987 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.48	122.43	122.39	122.37	122.28	122.45	126.77	123.33	123.13	122.84	122.63	122.42	
2	122.49	122.43	122.39	122.38	122.27	122.58	126.60	123.33	123.12	122.83	122.63	122.41	
3	122.50	122.42	122.38	122.36	122.27	122.73	126.19	123.33	123.12	122.83	122.62	122.41	
4	122.57	122.42	122.38	122.33	122.26	122.92	125.28	123.32	123.11	122.82	122.61	122.41	
5	122.56	122.42	122.38	122.32	122.26	123.15	124.35	123.31	123.10	122.82	122.61	122.40	
6	122.56	122.43	122.38	122.30	122.25	123.40	123.63	123.31	123.09	122.81	122.60	122.40	
7	122.55	122.42	122.38	122.29	122.25	123.80	123.49	123.32	123.09	122.80	122.60	122.40	
8	122.55	122.42	122.38	122.28	122.25	124.00	123.43	123.32	123.08	122.80	122.59	122.39	
9	122.54	122.43	122.38	122.27	122.26	123.87	123.40	123.31	123.07	122.79	122.58	122.39	
10	122.53	122.44	122.37	122.26	122.30	123.63	123.39	123.30	123.05	122.78	122.57	122.38	
11	122.52	122.44	122.37	122.25	122.29	123.55	123.38	123.29	123.04	122.78	122.57	122.37	
12	122.51	122.43	122.37	122.25	122.29	123.52	123.39	123.28	123.02	122.77	122.56	122.36	
13	122.51	122.40	122.37	122.24	122.28	123.52	123.41	123.28	123.02	122.76	122.55	122.35	
14	122.50	122.40	122.36	122.23	122.28	123.53	123.44	123.27	123.01	122.76	122.55	122.35	
15	122.49	122.40	122.36	122.22	122.28	123.57	123.45	123.27	123.00	122.75	122.54	122.34	
16	122.48	122.46	122.37	122.21	122.27	123.68	123.48	123.26	122.99	122.74	122.53	122.33	
17	122.47	122.45	122.38	122.20	122.26	123.81	123.50	123.26	122.98	122.73	122.52	122.32	
18	122.46	122.45	122.39	122.20	122.26	123.86	123.52	123.25	122.97	122.73	122.50	122.32	
19	122.46	122.44	122.39	122.19	122.25	123.82	123.51	123.23	122.96	122.72	122.50	122.31	
20	122.45	122.43	122.39	122.18	122.24	123.82	123.51	123.20	122.95	122.71	122.49	122.30	
21	122.44	122.42	122.39	122.17	122.24	124.01	123.50	123.19	122.94	122.70	122.48	122.29	
22	122.43	122.42	122.39	122.17	122.24	124.27	123.48	123.18	122.93	122.69	122.47	122.28	
23	122.42	122.41	122.38	122.16	122.25	124.68	123.46	123.18	122.91	122.69	122.47	122.28	
24	122.42	122.41	122.38	122.17	122.26	125.06	123.43	123.17	122.90	122.68	122.46	122.27	
25	122.41	122.40	122.38	122.20	122.28	125.91	123.41	123.16	122.90	122.67	122.45	122.26	
26	122.41	122.40	122.37	122.20	122.31	126.30	123.41	123.16	122.89	122.67	122.44	122.25	
27	122.42	122.40	122.37	122.19	122.35	126.53	123.39	123.16	122.88	122.66	122.44	122.25	
28	122.42	122.40	122.37	122.18	122.35	126.65	123.36	123.15	122.87	122.65	122.43	122.24	
29	122.42	122.40	122.37	122.22	122.36	126.75	123.35	123.14	122.86	122.64	122.42	122.23	
30	122.43	122.40	122.37	122.27	122.38	126.80	123.34	123.13	122.86	122.64	122.42	122.22	
31		122.39		122.28	122.40		123.33		122.85	122.63		122.19	
Mean	122.48	122.42	122.38	122.24	122.28	124.21	123.83	123.25	122.99	122.74	122.53	122.33	
Max	122.57	122.46	122.39	122.38	122.40	126.80	126.77	123.33	123.13	122.84	122.63	122.42	126.80
Min	122.41	122.39	122.36	122.16	122.24	122.45	123.33	123.13	122.85	122.63	122.42	122.19	122.16
Annual Max Momentary Gage Height	126.80		m. (MSL.) ,			at 06.00 Hours ,	on Sep 30 , 2019						
Zero Gage at Bottom Elevation	118.90		m. (MSL.) ,			River Bed	117.94	m. (MSL.)					
Left Bank Elevation		130.26		m. (MSL.) ,									
Right Bank Elevation		130.25		m. (MSL.) ,		Drainage Are	2,832	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	111.25	9.40	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	107.00	9.40	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	96.75	9.40	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.60	75.60	8.60	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	2.50	57.00	7.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	15.00	35.80	7.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	46.00	23.10	8.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	50.00	17.70	8.60	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	47.40	15.00	7.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	35.80	14.20	7.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	29.00	13.40	6.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	26.00	14.20	6.20	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	26.00	15.90	6.20	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	27.00	18.60	5.80	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	31.00	19.50	5.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	38.80	22.20	5.40	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	46.20	24.00	5.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	47.20	26.00	5.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	46.40	25.00	4.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	46.40	25.00	3.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	50.20	24.00	2.90	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	55.40	22.20	2.80	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	63.60	20.40	2.80	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	71.20	17.70	2.70	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	89.75	15.90	2.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	99.50	15.90	2.60	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	105.25	14.20	2.60	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	108.25	11.80	2.50	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	110.75	11.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	112.00	10.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00		9.40	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	1427.20	929.90	159.50	0.00	0.00	0.00	0.00	2516.60 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	47.57	30.00	5.32	0.00	0.00	0.00	0.00	6.88 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	112.00	111.25	9.40	0.00	0.00	0.00	0.00	112.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	9.40	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	123.31	80.34	13.78	0.00	0.00	0.00	0.00	217.43 MCM
<b>Momentary Peak</b>	112.00 CMS. at 126.80 m. (MSL.) at 06.00 Hours , on Sep 30 , 2019												
<b>Runoff Yield</b>	2.43 Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		39.55 Liters/Second/Square KM.								



## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima (M.43A)

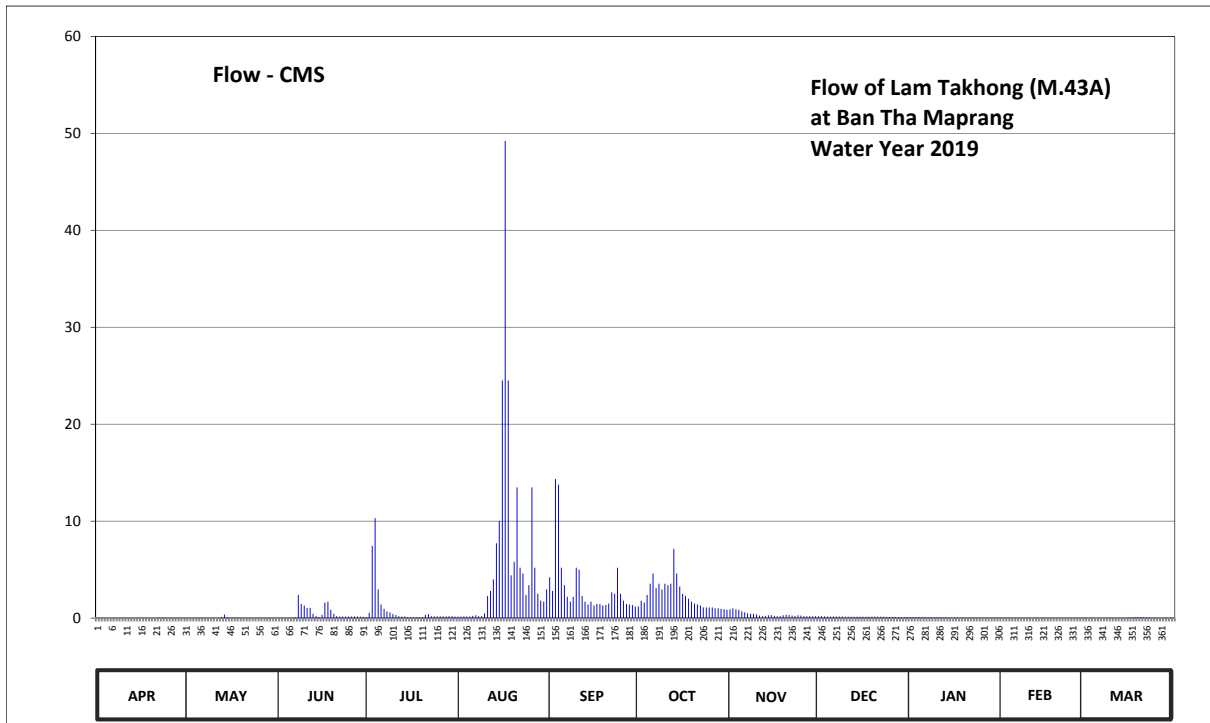
Lat 14 - 30 - 43 N Long 101 - 22 - 49 E

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

	<b>Ban Tha Maprang</b>	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	153 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+371.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream at the footpath of the bridge.	<b>Elevation</b>	+378.675 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. The weir situated above gage site. Stage-discharge relation defined by 36 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.09	372.13	372.15	372.40	372.47	373.01	372.74	372.68	372.50	372.39	372.25	372.18	
2	372.09	372.14	372.18	372.61	372.47	372.92	372.83	372.70	372.49	372.39	372.25	372.17	
3	372.08	372.12	372.18	373.15	372.48	373.39	372.81	372.68	372.48	372.38	372.24	372.15	
4	372.08	372.13	372.18	373.25	372.47	373.37	372.89	372.67	372.47	372.38	372.23	372.13	
5	372.11	372.15	372.19	372.93	372.46	373.06	372.97	372.64	372.47	372.37	372.21	372.11	
6	372.18	372.13	372.20	372.78	372.51	372.96	373.03	372.62	372.47	372.37	372.21	372.10	
7	372.15	372.12	372.36	372.69	372.53	372.87	372.94	372.60	372.47	372.36	372.20	372.09	
8	372.15	372.10	372.89	372.64	372.50	372.82	372.97	372.58	372.47	372.36	372.20	372.11	
9	372.15	372.09	372.79	372.62	372.50	372.87	372.93	372.58	372.46	372.35	372.20	372.15	
10	372.15	372.09	372.76	372.57	372.59	373.06	372.97	372.56	372.45	372.34	372.20	372.15	
11	372.15	372.10	372.71	372.54	372.88	373.05	372.96	372.52	372.45	372.33	372.19	372.15	
12	372.15	372.16	372.71	372.49	372.92	372.88	372.97	372.50	372.45	372.32	372.18	372.15	
13	372.12	372.41	372.58	372.47	373.00	372.82	373.14	372.51	372.45	372.31	372.18	372.15	
14	372.10	372.56	372.49	372.46	373.16	372.78	373.03	372.53	372.45	372.30	372.18	372.18	
15	372.10	372.37	372.42	372.42	373.24	372.82	372.95	372.53	372.45	372.30	372.17	372.28	
16	372.10	372.28	372.55	372.35	373.70	372.76	372.90	372.51	372.45	372.29	372.16	372.29	
17	372.10	372.26	372.81	372.35	374.29	372.79	372.88	372.49	372.45	372.29	372.16	372.32	
18	372.10	372.25	372.82	372.35	373.70	372.79	372.85	372.50	372.45	372.28	372.16	372.38	
19	372.12	372.22	372.67	372.35	373.02	372.76	372.82	372.53	372.45	372.28	372.16	372.38	
20	372.15	372.19	372.58	372.42	373.09	372.77	372.80	372.55	372.45	372.28	372.17	372.38	
21	372.18	372.17	372.50	372.55	373.36	372.80	372.78	372.54	372.44	372.27	372.18	372.38	
22	372.24	372.15	372.47	372.57	373.06	372.91	372.76	372.52	372.44	372.27	372.18	372.36	
23	372.22	372.15	372.47	372.50	373.03	372.90	372.72	372.51	372.44	372.27	372.19	372.31	
24	372.20	372.17	372.47	372.48	372.89	373.06	372.72	372.53	372.43	372.27	372.19	372.24	
25	372.18	372.17	372.46	372.48	372.96	372.90	372.72	372.52	372.42	372.26	372.19	372.20	
26	372.15	372.16	372.47	372.48	373.36	372.83	372.72	372.50	372.41	372.26	372.19	372.20	
27	372.14	372.17	372.48	372.48	373.06	372.79	372.70	372.50	372.40	372.26	372.19	372.20	
28	372.13	372.15	372.47	372.48	372.90	372.78	372.70	372.50	372.39	372.25	372.19	372.21	
29	372.11	372.14	372.45	372.49	372.83	372.77	372.69	372.50	372.39	372.25	372.19	372.26	
30	372.11	372.13	372.44	372.50	372.82	372.74	372.68	372.50	372.39	372.25	372.16	372.29	
31		372.12		372.47	372.93		372.67		372.39	372.25		372.28	
Mean	372.14	372.18	372.50	372.56	372.94	372.90	372.85	372.55	372.44	372.31	372.19	372.22	
Max	372.24	372.56	372.89	373.25	374.29	373.39	373.14	372.70	372.50	372.39	372.25	372.38	374.29
Min	372.08	372.09	372.15	372.35	372.46	372.74	372.67	372.49	372.39	372.25	372.16	372.09	372.08
Annual Max Momentary Gage Height	375.47		m. (MSL.) ,				at 09.00 Hours , on Aug 17 , 2019						
Zero Gage at Bottom Elevation	371.70		m. (MSL.) ,			River Bed	371.85	m. (MSL.)					
Left Bank Elevation		378.33		m. (MSL.) ,									
Right Bank Elevation		378.30		m. (MSL.) ,		Drainage Are	153	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.01	0.01	0.10	0.17	4.20	1.20	0.90	0.20	0.10	0.04	0.02	
2	0.00	0.01	0.02	0.55	0.17	2.80	1.80	1.00	0.19	0.10	0.04	0.01	
3	0.00	0.00	0.02	7.44	0.18	14.34	1.60	0.90	0.18	0.09	0.03	0.01	
4	0.00	0.01	0.02	10.31	0.17	13.76	2.40	0.85	0.17	0.09	0.03	0.01	
5	0.00	0.01	0.02	2.95	0.16	5.20	3.55	0.70	0.17	0.09	0.02	0.00	
6	0.02	0.01	0.02	1.40	0.23	3.40	4.60	0.60	0.17	0.09	0.02	0.00	
7	0.01	0.00	0.08	0.95	0.29	2.20	3.10	0.50	0.17	0.08	0.02	0.00	
8	0.01	0.00	2.40	0.70	0.20	1.70	3.55	0.44	0.17	0.08	0.02	0.00	
9	0.01	0.00	1.45	0.60	0.20	2.20	2.95	0.44	0.16	0.08	0.02	0.01	
10	0.01	0.00	1.30	0.41	0.47	5.20	3.55	0.38	0.15	0.07	0.02	0.01	
11	0.01	0.00	1.05	0.32	2.30	5.00	3.40	0.26	0.15	0.07	0.02	0.01	
12	0.01	0.01	1.05	0.19	2.80	2.30	3.55	0.20	0.15	0.06	0.02	0.01	
13	0.00	0.11	0.44	0.17	4.00	1.70	7.15	0.23	0.15	0.06	0.02	0.01	
14	0.00	0.38	0.19	0.16	7.73	1.40	4.60	0.29	0.15	0.05	0.02	0.02	
15	0.00	0.09	0.12	0.12	10.03	1.70	3.25	0.29	0.15	0.05	0.01	0.04	
16	0.00	0.04	0.35	0.08	24.50	1.30	2.50	0.23	0.15	0.05	0.01	0.05	
17	0.00	0.04	1.60	0.08	49.22	1.45	2.30	0.19	0.15	0.05	0.01	0.06	
18	0.00	0.04	1.70	0.08	24.50	1.45	2.00	0.20	0.15	0.04	0.01	0.09	
19	0.00	0.03	0.85	0.08	4.40	1.30	1.70	0.29	0.15	0.04	0.01	0.09	
20	0.01	0.02	0.44	0.12	5.80	1.35	1.50	0.35	0.15	0.04	0.01	0.09	
21	0.02	0.01	0.20	0.35	13.48	1.50	1.40	0.32	0.14	0.04	0.02	0.09	
22	0.03	0.01	0.17	0.41	5.20	2.65	1.30	0.26	0.14	0.04	0.02	0.08	
23	0.03	0.01	0.17	0.20	4.60	2.50	1.10	0.23	0.14	0.04	0.02	0.06	
24	0.02	0.01	0.17	0.18	2.40	5.20	1.10	0.29	0.13	0.04	0.02	0.03	
25	0.02	0.01	0.16	0.18	3.40	2.50	1.10	0.26	0.12	0.04	0.02	0.02	
26	0.01	0.01	0.17	0.18	13.48	1.80	1.10	0.20	0.11	0.04	0.02	0.02	
27	0.01	0.01	0.18	0.18	5.20	1.45	1.00	0.20	0.10	0.04	0.02	0.02	
28	0.01	0.01	0.17	0.18	2.50	1.40	1.00	0.20	0.10	0.04	0.02	0.02	
29	0.00	0.01	0.15	0.19	1.80	1.35	0.95	0.20	0.10	0.04	0.02	0.04	
30	0.00	0.01	0.14	0.20	1.70	1.20	0.90	0.20	0.10	0.04		0.05	
31		0.00		0.17	2.95		0.85		0.10	0.04		0.04	
Total	0.24	0.91	14.81	29.23	194.23	95.50	72.05	11.60	4.51	1.82	0.58	1.01	426.49 CMSDAY
Mean	0.01	0.03	0.49	0.94	6.27	3.18	2.32	0.39	0.15	0.06	0.02	0.03	1.17 CMS
Max	0.03	0.38	2.40	10.31	49.22	14.34	7.15	1.00	0.20	0.10	0.04	0.09	49.22 CMS
Min	0.00	0.00	0.01	0.08	0.16	1.20	0.85	0.19	0.10	0.04	0.01	0.00	0.00 CMS
Runoff	0.02	0.08	1.28	2.53	16.78	8.25	6.23	1.00	0.39	0.16	0.05	0.09	36.85 MCM
Momentary Peak	121.05	CMS.	at 375.47 m. (MSL.)	at 09.00 Hours	, on Aug 17, 2019								
Runoff Yield	7.64	Liters/Second/Square KM.		Momentary Peak Yield	791.18	Liters/Second/Square KM.							

## WATER YEAR : 2019

## MUN RIVER BASIN

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

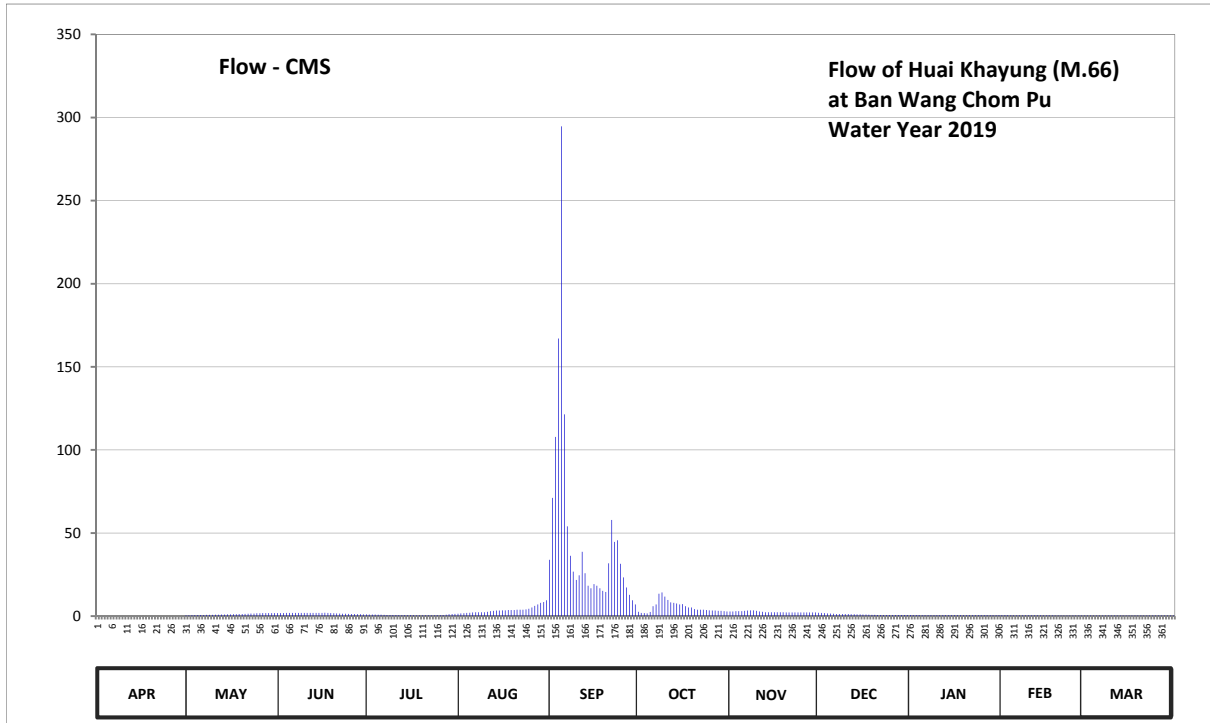
Lat 14 - 38 - 27 N Long 104 - 39 - 50 E

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

	<b>Ban Wang Chom Pu</b>	<b>Amphoe</b> Kantharalak	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	562 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+143.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	At the automatic gage building.		<b>Elevation</b> +153.718 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 - 1968, 1972 - 1981, 1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1965 - 1968, 1972 - 1981, 1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.27	142.29	143.38	142.83	143.18	144.93	143.62	143.63	143.46	142.45	142.34	142.20	
2	142.29	142.31	143.38	142.79	143.25	146.17	143.43	143.63	143.41	142.44	142.33	142.20	
3	142.31	142.35	143.38	142.77	143.32	147.27	143.34	143.64	143.35	142.43	142.33	142.20	
4	142.31	142.40	143.39	142.71	143.39	148.60	143.26	143.64	143.28	142.42	142.32	142.19	
5	142.30	142.44	143.39	142.65	143.46	149.91	143.61	143.64	143.21	142.41	142.32	142.19	
6	142.30	142.47	143.39	142.62	143.54	147.61	143.80	143.65	143.16	142.40	142.31	142.19	
7	142.30	142.50	143.40	142.56	143.60	145.60	143.85	143.66	143.09	142.39	142.30	142.19	
8	142.30	142.53	143.40	142.49	143.60	145.01	144.12	143.67	143.06	142.38	142.30	142.19	
9	142.30	142.56	143.40	142.47	143.60	144.65	144.15	143.67	143.04	142.37	142.29	142.18	
10	142.30	142.61	143.40	142.44	143.60	144.45	144.05	143.65	143.02	142.37	142.28	142.18	
11	142.31	142.65	143.41	142.42	143.62	144.56	143.97	143.63	143.00	142.37	142.28	142.18	
12	142.31	142.68	143.41	142.40	143.64	145.09	143.91	143.62	142.98	142.36	142.27	142.18	
13	142.31	142.71	143.41	142.39	143.65	144.61	143.90	143.60	142.95	142.36	142.27	142.17	
14	142.31	142.75	143.41	142.37	143.66	144.31	143.88	143.59	142.88	142.35	142.26	142.17	
15	142.32	142.81	143.41	142.36	143.66	144.25	143.85	143.59	142.83	142.35	142.25	142.17	
16	142.32	142.87	143.43	142.35	143.67	144.35	143.86	143.59	142.77	142.35	142.24	142.16	
17	142.33	142.92	143.44	142.33	143.67	144.31	143.80	143.58	142.72	142.35	142.23	142.16	
18	142.33	142.96	143.39	142.32	143.68	144.25	143.76	143.58	142.65	142.34	142.23	142.16	
19	142.31	143.01	143.35	142.31	143.68	144.19	143.76	143.58	142.58	142.34	142.22	142.15	
20	142.31	143.05	143.31	142.31	143.68	144.16	143.71	143.57	142.52	142.34	142.22	142.15	
21	142.30	143.11	143.25	142.31	143.69	144.85	143.69	143.57	142.49	142.33	142.22	142.15	
22	142.30	143.17	143.21	142.32	143.69	145.73	143.69	143.57	142.49	142.33	142.22	142.15	
23	142.30	143.21	143.18	142.32	143.69	145.29	143.69	143.57	142.48	142.33	142.21	142.14	
24	142.30	143.24	143.15	142.32	143.70	145.32	143.68	143.56	142.48	142.33	142.21	142.14	
25	142.29	143.30	143.11	142.33	143.72	144.84	143.67	143.56	142.47	142.33	142.21	142.14	
26	142.29	143.32	143.07	142.33	143.76	144.51	143.66	143.56	142.47	142.33	142.20	142.14	
27	142.29	143.34	143.03	142.45	143.81	144.27	143.66	143.56	142.47	142.34	142.20	142.14	
28	142.28	143.34	142.98	142.66	143.85	144.09	143.65	143.55	142.46	142.34	142.20	142.13	
29	142.28	143.35	142.92	142.91	143.90	143.96	143.65	143.55	142.46	142.34	142.20	142.13	
30	142.28	143.36	142.89	143.02	143.92	143.85	143.64	143.53	142.46	142.34	142.20	142.13	
31		143.38		143.11	143.96		143.63		142.45	142.34		142.13	
Mean	142.30	142.87	143.29	142.52	143.64	145.17	143.74	143.60	142.81	142.36	142.26	142.16	
Max	142.33	143.38	143.44	143.11	143.96	149.91	144.15	143.67	143.46	142.45	142.34	142.20	149.91
Min	142.27	142.29	142.89	142.31	143.18	143.85	143.26	143.53	142.45	142.33	142.20	142.13	142.13
Annual Max Momentary Gage Height	150.11		m. (MSL.) ,				at 12.00 Hours ,						
Zero Gage at Bottom Elevation	143.90		m. (MSL.) ,			River Bed	141.48		m. (MSL)				
Left Bank Elevation		153.45		m. (MSL.) ,									
Right Bank Elevation		153.48		m. (MSL.) ,		Drainage Are	562		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.49	1.86	1.03	1.46	33.90	2.64	2.81	2.02	0.65	0.54	0.40	
2	0.00	0.51	1.86	0.99	1.60	71.10	1.96	2.81	1.92	0.64	0.53	0.40	
3	0.00	0.55	1.86	0.97	1.74	107.80	1.78	2.98	1.80	0.63	0.53	0.40	
4	0.00	0.60	1.88	0.91	1.88	167.00	1.62	2.98	1.66	0.62	0.52	0.39	
5	0.00	0.64	1.88	0.85	2.02	294.70	2.47	2.98	1.52	0.61	0.52	0.39	
6	0.00	0.67	1.88	0.82	2.18	121.40	6.00	3.15	1.42	0.60	0.51	0.39	
7	0.00	0.70	1.90	0.76	2.30	54.00	7.00	3.32	1.29	0.59	0.50	0.39	
8	0.00	0.73	1.90	0.69	2.30	36.30	13.50	3.49	1.26	0.58	0.50	0.39	
9	0.00	0.76	1.90	0.67	2.30	26.75	14.25	3.49	1.24	0.57	0.49	0.38	
10	0.00	0.81	1.90	0.64	2.30	21.75	11.75	3.15	1.22	0.57	0.48	0.38	
11	0.00	0.85	1.92	0.62	2.64	24.50	9.75	2.81	1.20	0.57	0.48	0.38	
12	0.00	0.88	1.92	0.60	2.98	38.70	8.25	2.64	1.18	0.56	0.47	0.38	
13	0.00	0.91	1.92	0.59	3.15	25.75	8.00	2.30	1.15	0.56	0.47	0.37	
14	0.00	0.95	1.92	0.57	3.32	18.25	7.60	2.28	1.08	0.55	0.46	0.37	
15	0.00	1.01	1.92	0.56	3.32	16.75	7.00	2.28	1.03	0.55	0.45	0.37	
16	0.00	1.07	1.96	0.55	3.49	19.25	7.20	2.28	0.97	0.55	0.44	0.36	
17	0.00	1.12	1.98	0.53	3.49	18.25	6.00	2.26	0.92	0.55	0.43	0.36	
18	0.00	1.16	1.88	0.52	3.66	16.75	5.20	2.26	0.85	0.54	0.43	0.36	
19	0.00	1.21	1.80	0.51	3.66	15.25	5.20	2.26	0.78	0.54	0.42	0.35	
20	0.00	1.25	1.72	0.51	3.66	14.50	4.20	2.24	0.72	0.54	0.42	0.35	
21	0.00	1.32	1.60	0.51	3.83	31.75	3.83	2.24	0.69	0.53	0.42	0.35	
22	0.00	1.44	1.52	0.52	3.83	57.90	3.83	2.24	0.69	0.53	0.42	0.35	
23	0.00	1.52	1.46	0.52	3.83	44.70	3.83	2.24	0.68	0.53	0.41	0.34	
24	0.00	1.58	1.40	0.52	4.00	45.60	3.66	2.22	0.68	0.53	0.41	0.34	
25	0.00	1.70	1.32	0.53	4.40	31.50	3.49	2.22	0.67	0.53	0.41	0.34	
26	0.00	1.74	1.27	0.53	5.20	23.25	3.32	2.22	0.67	0.53	0.40	0.34	
27	0.00	1.78	1.23	0.65	6.20	17.25	3.32	2.22	0.67	0.54	0.40	0.34	
28	0.00	1.78	1.18	0.86	7.00	12.75	3.15	2.20	0.66	0.54	0.40	0.33	
29	0.00	1.80	1.12	1.11	8.00	9.50	3.15	2.20	0.66	0.54	0.40	0.33	
30	0.00	1.82	1.09	1.22	8.50	7.00	2.98	2.16	0.66	0.54		0.33	
31		1.86		1.32	9.50		2.81		0.65	0.54		0.33	
<b>Total</b>	0.00	35.21	50.95	22.18	117.74	1423.85	168.74	76.93	32.61	17.45	13.26	11.28	1970.20 CMSDAY
<b>Mean</b>	0.00	1.14	1.70	0.72	3.80	47.46	5.44	2.56	1.05	0.56	0.46	0.36	5.38 CMS
<b>Max</b>	0.00	1.86	1.98	1.32	9.50	294.70	14.25	3.49	2.02	0.65	0.54	0.40	294.70 CMS
<b>Min</b>	0.00	0.49	1.09	0.51	1.46	7.00	1.62	2.16	0.65	0.53	0.40	0.33	0.00 CMS
<b>Runoff</b>	0.00	3.04	4.40	1.92	10.17	123.02	14.58	6.65	2.82	1.51	1.15	0.97	170.23 MCM
<b>Momentary Peak</b>		332.00	CMS.	at 150.11 m. (MSL.)	at 12.00 Hours	, on Sep 5, 2019							
<b>Runoff Yield</b>		9.60	Liters/Second/Square KM.		Momentary Peak Yield	590.75	Liters/Second/Square KM.						

## WATER YEAR : 2019

## MUN RIVER BASIN

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

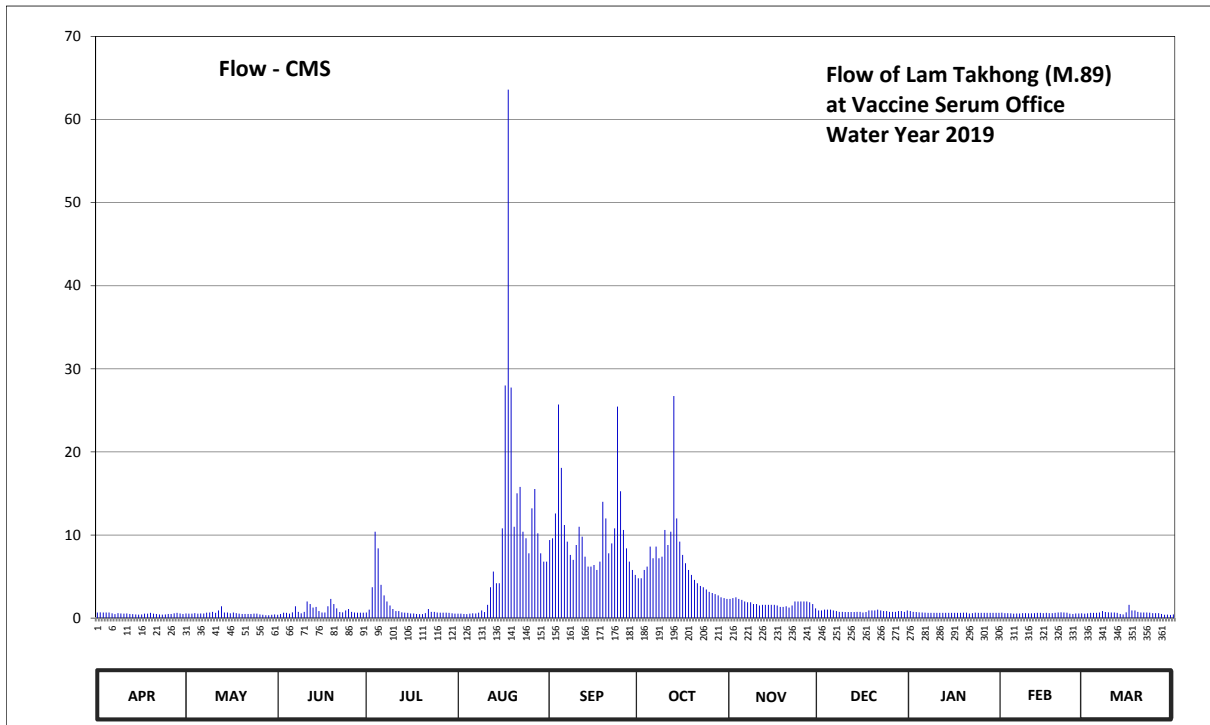
Lat 14 - 41 - 39 N Long 101 - 25 - 00 E

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

	<b>Ban</b>	-	<b>Amphoe</b>	Pak Chong	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	713	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+290.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+299.985 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1970 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1971 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1971 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 42 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

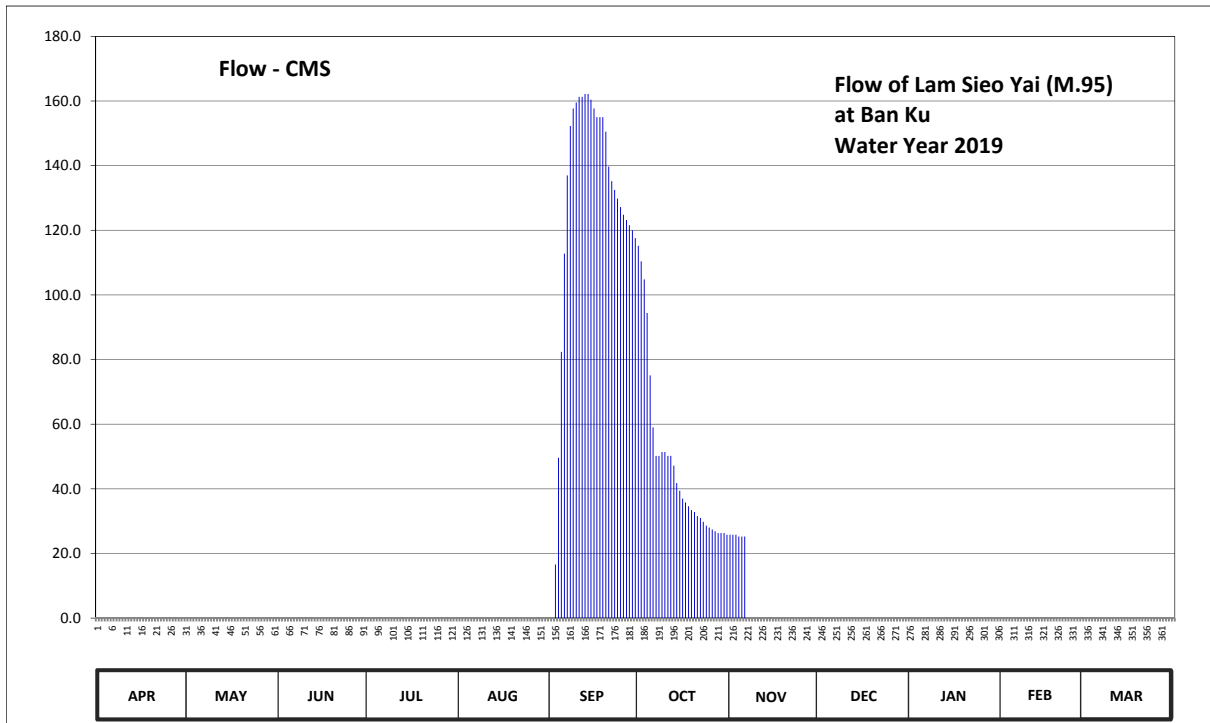
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.67	292.62	292.56	292.67	292.61	293.27	293.04	292.87	292.72	292.71	292.66	292.61	
2	292.68	292.61	292.60	292.73	292.61	293.28	293.04	292.88	292.72	292.70	292.64	292.63	
3	292.67	292.61	292.66	292.98	292.60	293.43	293.09	292.89	292.73	292.69	292.64	292.65	
4	292.67	292.64	292.65	293.32	292.59	293.96	293.11	292.87	292.73	292.68	292.63	292.65	
5	292.67	292.61	292.61	293.22	292.61	293.66	293.23	292.86	292.73	292.67	292.61	292.65	
6	292.63	292.62	292.68	293.00	292.63	293.36	293.16	292.84	292.72	292.66	292.62	292.67	
7	292.59	292.62	292.78	292.91	292.62	293.26	293.23	292.83	292.71	292.65	292.62	292.71	
8	292.64	292.66	292.70	292.84	292.66	293.18	293.16	292.83	292.70	292.65	292.64	292.69	
9	292.62	292.67	292.63	292.79	292.72	293.15	293.17	292.81	292.70	292.65	292.64	292.68	
10	292.61	292.70	292.70	292.74	292.69	293.24	293.33	292.81	292.69	292.65	292.63	292.67	
11	292.62	292.65	292.84	292.71	292.80	293.35	293.24	292.79	292.69	292.65	292.63	292.67	
12	292.60	292.72	292.81	292.71	292.98	293.29	293.32	292.80	292.69	292.65	292.64	292.65	
13	292.59	292.78	292.76	292.68	293.08	293.17	294.00	292.80	292.69	292.65	292.65	292.60	
14	292.58	292.67	292.77	292.66	293.01	293.11	293.40	292.80	292.70	292.65	292.65	292.58	
15	292.57	292.67	292.71	292.65	293.01	293.11	293.26	292.80	292.70	292.65	292.64	292.68	
16	292.58	292.63	292.67	292.62	293.34	293.12	293.18	292.80	292.67	292.65	292.65	292.80	
17	292.61	292.67	292.67	292.62	294.05	293.09	293.13	292.79	292.69	292.65	292.64	292.72	
18	292.61	292.64	292.78	292.60	295.32	293.14	293.09	292.77	292.72	292.65	292.64	292.72	
19	292.65	292.61	292.87	292.59	294.04	293.50	293.06	292.77	292.72	292.66	292.65	292.70	
20	292.61	292.60	292.81	292.59	293.35	293.40	293.03	292.78	292.72	292.66	292.67	292.67	
21	292.60	292.60	292.75	292.64	293.54	293.19	293.01	292.76	292.73	292.62	292.68	292.67	
22	292.58	292.60	292.69	292.74	293.57	293.25	292.99	292.79	292.72	292.64	292.67	292.67	
23	292.57	292.60	292.68	292.70	293.32	293.34	292.98	292.84	292.71	292.66	292.66	292.66	
24	292.58	292.61	292.72	292.70	293.28	293.95	292.96	292.84	292.71	292.65	292.61	292.64	
25	292.60	292.61	292.74	292.67	293.19	293.55	292.94	292.84	292.70	292.65	292.60	292.64	
26	292.60	292.58	292.70	292.66	293.46	293.33	292.93	292.84	292.70	292.65	292.62	292.64	
27	292.63	292.56	292.67	292.66	293.56	293.22	292.92	292.84	292.70	292.65	292.62	292.60	
28	292.65	292.54	292.66	292.66	293.31	293.14	292.91	292.83	292.71	292.65	292.63	292.56	
29	292.62	292.54	292.66	292.65	293.19	293.09	292.89	292.81	292.71	292.65	292.62	292.57	
30	292.60	292.56	292.66	292.63	293.14	293.06	292.88	292.75	292.70	292.65	292.65	292.55	
31		292.58		292.61	293.14		292.87		292.72	292.65		292.58	
Mean	292.62	292.63	292.71	292.74	293.16	293.31	293.11	292.82	292.71	292.66	292.64	292.65	
Max	292.68	292.78	292.87	293.32	295.32	293.96	294.00	292.89	292.73	292.71	292.68	292.80	295.32
Min	292.57	292.54	292.56	292.59	292.59	293.06	292.87	292.75	292.67	292.62	292.60	292.55	292.54
Annual Max Momentary Gage Height	295.65		m. (MSL.) ,			at 12.00 Hours ,	on Aug 18, 2019						
Zero Gage at Bottom Elevation	290.90		m. (MSL.) ,			River Bed	291.32	m. (MSL.)					
Left Bank Elevation	298.89		m. (MSL.) ,										
Right Bank Elevation	299.96		m. (MSL.) ,			Drainage Are	713	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.55	0.40	0.68	0.53	9.40	4.80	2.30	0.92	0.84	0.65	0.53	
2	0.70	0.53	0.50	1.01	0.53	9.60	4.80	2.40	0.92	0.75	0.60	0.58	
3	0.68	0.53	0.65	3.72	0.50	12.60	5.80	2.50	1.01	0.73	0.60	0.63	
4	0.68	0.60	0.63	10.40	0.48	25.71	6.20	2.30	1.01	0.70	0.58	0.63	
5	0.68	0.53	0.53	8.40	0.53	18.07	8.60	2.20	1.01	0.68	0.53	0.63	
6	0.58	0.55	0.70	4.00	0.58	11.20	7.20	2.00	0.92	0.65	0.55	0.68	
7	0.48	0.55	1.43	2.74	0.55	9.20	8.60	1.90	0.84	0.63	0.55	0.84	
8	0.60	0.65	0.75	2.00	0.65	7.60	7.20	1.90	0.75	0.63	0.60	0.73	
9	0.55	0.68	0.58	1.52	0.92	7.00	7.40	1.70	0.75	0.63	0.60	0.70	
10	0.53	0.75	0.75	1.09	0.73	8.80	10.60	1.70	0.73	0.63	0.58	0.68	
11	0.55	0.63	2.00	0.84	1.60	11.00	8.80	1.52	0.73	0.63	0.58	0.68	
12	0.50	0.92	1.70	0.84	3.72	9.80	10.40	1.60	0.73	0.63	0.60	0.63	
13	0.48	1.43	1.26	0.70	5.60	7.40	26.73	1.60	0.73	0.63	0.63	0.50	
14	0.45	0.68	1.35	0.65	4.20	6.20	12.00	1.60	0.75	0.63	0.63	0.45	
15	0.43	0.68	0.84	0.63	4.20	6.20	9.20	1.60	0.75	0.63	0.60	0.70	
16	0.45	0.58	0.68	0.55	10.80	6.40	7.60	1.60	0.68	0.63	0.63	1.60	
17	0.53	0.68	0.68	0.55	28.00	5.80	6.60	1.52	0.73	0.63	0.60	0.92	
18	0.53	0.60	1.43	0.50	63.60	6.80	5.80	1.35	0.92	0.63	0.60	0.92	
19	0.63	0.53	2.30	0.48	27.75	14.00	5.20	1.35	0.92	0.65	0.63	0.75	
20	0.53	0.50	1.70	0.48	11.00	12.00	4.60	1.43	0.92	0.65	0.68	0.68	
21	0.50	0.50	1.18	0.60	15.02	7.80	4.20	1.26	1.01	0.55	0.70	0.68	
22	0.45	0.50	0.73	1.09	15.78	9.00	3.86	1.52	0.92	0.60	0.68	0.68	
23	0.43	0.50	0.70	0.75	10.40	10.80	3.72	2.00	0.84	0.65	0.65	0.65	
24	0.45	0.53	0.92	0.75	9.60	25.46	3.44	2.00	0.84	0.63	0.53	0.60	
25	0.50	0.53	1.09	0.68	7.80	15.27	3.16	2.00	0.75	0.63	0.50	0.60	
26	0.50	0.45	0.75	0.65	13.20	10.60	3.02	2.00	0.75	0.63	0.55	0.60	
27	0.58	0.40	0.68	0.65	15.53	8.40	2.88	2.00	0.75	0.63	0.55	0.50	
28	0.63	0.35	0.65	0.65	10.20	6.80	2.74	1.90	0.84	0.63	0.58	0.40	
29	0.55	0.35	0.65	0.63	7.80	5.80	2.50	1.70	0.84	0.63	0.55	0.43	
30	0.50	0.40	0.65	0.58	6.80	5.20	2.40	1.18	0.75	0.63		0.38	
31		0.45		0.53	6.80		2.30		0.92	0.63		0.45	
<b>Total</b>	16.33	18.11	28.86	49.34	285.40	309.91	202.35	53.63	25.93	20.05	17.31	20.43	1047.65 CMSDAY
<b>Mean</b>	0.54	0.58	0.96	1.59	9.21	10.33	6.53	1.79	0.84	0.65	0.60	0.66	2.86 CMS
<b>Max</b>	0.70	1.43	2.30	10.40	63.60	25.71	26.73	2.50	1.01	0.84	0.70	1.60	63.60 CMS
<b>Min</b>	0.43	0.35	0.40	0.48	0.48	5.20	2.30	1.18	0.68	0.55	0.38	0.35	0.35 CMS
<b>Runoff</b>	1.41	1.56	2.49	4.26	24.66	26.78	17.48	4.63	2.24	1.73	1.50	1.77	90.52 MCM
<b>Momentary Peak</b>		73.50		CMS. at 295.65 m. (MSL.)		at 12.00 Hours , on Aug 18, 2019							
<b>Runoff Yield</b>		4.03		Liters/Second/Square KM.		Momentary Peak Yield	103.09		Liters/Second/Square KM.				





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	115.20	25.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	110.40	25.80	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	16.58	104.80	25.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	49.60	94.40	25.25	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	82.40	75.10	25.25	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	112.80	59.00	25.25	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	137.00	50.20	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	152.30	50.20	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	157.70	51.40	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	159.50	51.40	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	161.30	50.20	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	161.30	50.20	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	162.20	47.20	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	162.20	41.80	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	160.40	39.40	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	157.70	37.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	155.00	35.80	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	155.00	34.60	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	155.00	33.40	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	150.50	32.80	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	139.70	31.60	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	135.20	31.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	132.50	29.80	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	129.80	28.60	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	127.20	28.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	124.80	27.45	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	123.20	26.90	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	121.60	26.35	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	120.00	26.35	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	117.60	26.35	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00		25.80	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	3720.08	1472.70	153.15	0.00	0.00	0.00	0.00	5345.93 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	124.00	47.51	5.11	0.00	0.00	0.00	0.00	14.61 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	162.20	115.20	25.80	0.00	0.00	0.00	0.00	162.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	25.80	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	321.41	127.24	13.23	0.00	0.00	0.00	0.00	461.89 MCM
<b>Momentary Peak</b>	162.20 CMS. at 122.38 m. (MSL.) at 06.00 Hours , on Sep 11, 2019												
<b>Runoff Yield</b>	4.20 Liters/Second/Square KM.			Momentary Peak Yield			46.56 Liters/Second/Square KM.						



## WATER YEAR : 2019

## MUN RIVER BASIN

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

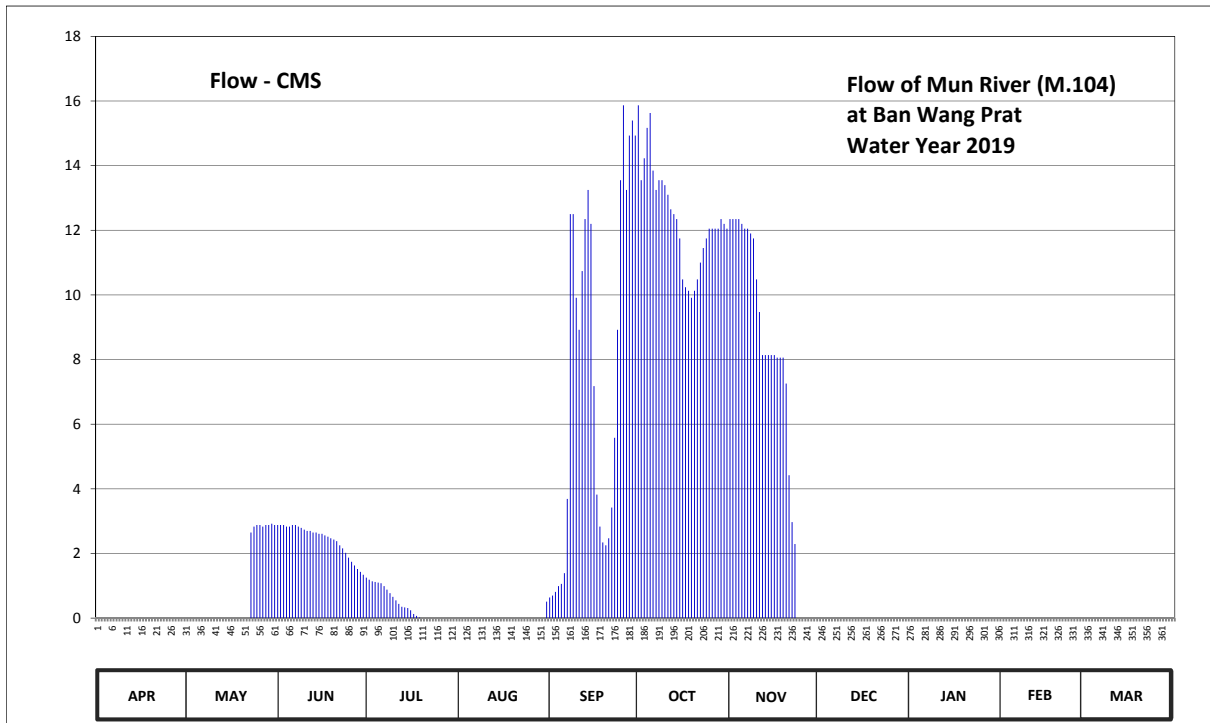
Lat 15 - 26 - 02 N Long 103 - 00 - 59 E

Location : on left bank at the bridge.

	<b>Ban Wang Prat</b>	<b>Amphoe Khu Mueang</b>	<b>Changwat Buri Ram</b>
<b>Drainage Area</b>	24,841 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+129.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the footpath of the bridge.	<b>Elevation</b>	+140.339 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.05	130.70	130.95	130.37	129.76	130.09	132.28	132.09	130.81	130.55	130.25	129.96	
2	131.06	130.69	130.95	130.34	129.76	130.12	132.17	132.09	130.81	130.54	130.24	129.94	
3	131.06	130.68	130.95	130.32	129.75	130.17	132.21	132.09	130.80	130.53	130.23	129.93	
4	131.06	130.70	130.94	130.31	129.75	130.25	132.25	132.09	130.79	130.52	130.23	129.92	
5	131.05	130.71	130.94	130.30	129.74	130.28	132.27	132.08	130.78	130.52	130.22	129.93	
6	131.05	130.70	130.95	130.29	129.73	130.43	132.19	132.07	130.78	130.51	130.22	129.91	
7	131.04	130.70	130.95	130.25	129.72	131.13	132.15	132.07	130.77	130.49	130.21	129.91	
8	131.03	130.69	130.94	130.20	129.70	132.10	132.17	132.06	130.76	130.48	130.20	129.90	
9	131.03	130.69	130.93	130.15	129.68	132.10	132.17	132.05	130.75	130.47	130.19	129.89	
10	131.02	130.71	130.92	130.10	129.67	131.91	132.16	131.96	130.70	130.46	130.18	129.88	
11	131.01	130.74	130.91	130.05	129.67	131.82	132.14	131.87	130.69	130.45	130.18	129.87	
12	131.01	130.74	130.91	130.00	129.66	131.98	132.11	131.73	130.68	130.44	130.17	129.86	
13	130.97	130.74	130.90	129.96	129.64	132.09	132.10	131.73	130.68	130.43	130.16	129.85	
14	130.94	130.74	130.90	129.95	129.62	132.15	132.09	131.73	130.67	130.42	130.15	129.84	
15	130.92	130.75	130.89	129.94	129.60	132.08	132.05	131.73	130.66	130.41	130.14	129.82	
16	130.82	130.75	130.89	129.91	129.59	131.61	131.96	131.73	130.66	130.40	130.13	129.81	
17	130.81	130.75	130.88	129.86	129.61	131.16	131.94	131.72	130.66	130.39	130.11	129.81	
18	130.78	130.74	130.87	129.83	129.60	130.94	131.93	131.72	130.66	130.39	130.10	129.80	
19	130.78	130.73	130.86	129.81	129.57	130.83	131.91	131.72	130.65	130.38	130.09	129.79	
20	130.76	130.73	130.85	129.80	129.55	130.81	131.93	131.62	130.64	130.37	130.08	129.77	
21	130.76	130.72	130.84	129.79	129.53	130.86	131.96	131.26	130.63	130.36	130.07	129.76	
22	130.76	130.83	130.81	129.79	129.51	131.07	132.00	130.97	130.63	130.35	130.05	129.75	
23	130.75	130.90	130.78	129.79	129.51	131.41	132.03	130.82	130.62	130.34	130.04	129.74	
24	130.75	130.94	130.72	129.79	129.51	131.82	132.05	130.80	130.62	130.33	130.02	129.74	
25	130.75	130.95	130.65	129.79	129.51	132.17	132.07	130.81	130.61	130.32	130.02	129.75	
26	130.75	130.95	130.59	129.78	129.51	132.28	132.07	130.81	130.60	130.31	130.00	129.74	
27	130.75	130.94	130.54	129.77	129.49	132.15	132.07	130.81	130.59	130.30	129.99	129.73	
28	130.75	130.95	130.49	129.76	129.47	132.24	132.07	130.82	130.58	130.29	129.99	129.72	
29	130.75	130.95	130.45	129.76	129.52	132.26	132.09	130.81	130.57	130.28	129.97	129.72	
30	130.73	130.96	130.41	129.76	129.51	132.24	132.08	130.81	130.56	130.27	129.97	129.71	
31		130.95		129.77	130.03		132.07		130.55	130.26		129.70	
Mean	130.89	130.79	130.82	129.98	129.63	131.42	132.09	131.56	130.68	130.41	130.13	129.82	
Max	131.06	130.96	130.95	130.37	130.03	132.28	132.28	132.09	130.81	130.55	130.25	129.96	132.28
Min	130.73	130.68	130.41	129.76	129.47	130.09	131.91	130.80	130.55	130.26	129.97	129.70	129.47
Annual Max Momentary Gage Height	132.31		m. (MSL.) ,				at 09.00 Hours , on Sep 26 , 2019						
Zero Gage at Bottom Elevation	129.80		m. (MSL.) ,			River Bed	126.70	m. (MSL.)					
Left Bank Elevation		140.33		m. (MSL.) ,									
Right Bank Elevation		140.33		m. (MSL.) ,		Drainage Are	24,841	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.88	1.25	0.00	0.64	15.87	12.35	0.00	0.00	0.00	0.00	
2	0.00	0.00	2.88	1.19	0.00	0.70	13.55	12.35	0.00	0.00	0.00	0.00	
3	0.00	0.00	2.88	1.14	0.00	0.81	14.23	12.35	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.83	1.12	0.00	0.99	15.17	12.35	0.00	0.00	0.00	0.00	
5	0.00	0.00	2.83	1.10	0.00	1.06	15.63	12.20	0.00	0.00	0.00	0.00	
6	0.00	0.00	2.88	1.08	0.00	1.39	13.85	12.05	0.00	0.00	0.00	0.00	
7	0.00	0.00	2.88	0.99	0.00	3.69	13.25	12.05	0.00	0.00	0.00	0.00	
8	0.00	0.00	2.83	0.88	0.00	12.50	13.55	11.90	0.00	0.00	0.00	0.00	
9	0.00	0.00	2.79	0.77	0.00	12.50	13.55	11.75	0.00	0.00	0.00	0.00	
10	0.00	0.00	2.74	0.66	0.00	9.91	13.40	10.48	0.00	0.00	0.00	0.00	
11	0.00	0.00	2.70	0.55	0.00	8.92	13.10	9.47	0.00	0.00	0.00	0.00	
12	0.00	0.00	2.70	0.44	0.00	10.74	12.65	8.14	0.00	0.00	0.00	0.00	
13	0.00	0.00	2.65	0.35	0.00	12.35	12.50	8.14	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.65	0.33	0.00	13.25	12.35	8.14	0.00	0.00	0.00	0.00	
15	0.00	0.00	2.61	0.31	0.00	12.20	11.75	8.14	0.00	0.00	0.00	0.00	
16	0.00	0.00	2.61	0.24	0.00	7.18	10.48	8.14	0.00	0.00	0.00	0.00	
17	0.00	0.00	2.56	0.13	0.00	3.82	10.24	8.06	0.00	0.00	0.00	0.00	
18	0.00	0.00	2.52	0.07	0.00	2.83	10.13	8.06	0.00	0.00	0.00	0.00	
19	0.00	0.00	2.47	0.02	0.00	2.34	9.91	8.06	0.00	0.00	0.00	0.00	
20	0.00	0.00	2.43	0.00	0.00	2.25	10.13	7.26	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.38	0.00	0.00	2.47	10.48	4.42	0.00	0.00	0.00	0.00	
22	0.00	0.00	2.25	0.00	0.00	3.42	11.00	2.97	0.00	0.00	0.00	0.00	
23	0.00	2.65	2.16	0.00	0.00	5.58	11.45	2.29	0.00	0.00	0.00	0.00	
24	0.00	2.83	2.02	0.00	0.00	8.92	11.75	0.00	0.00	0.00	0.00	0.00	
25	0.00	2.88	1.87	0.00	0.00	13.55	12.05	0.00	0.00	0.00	0.00	0.00	
26	0.00	2.88	1.74	0.00	0.00	15.87	12.05	0.00	0.00	0.00	0.00	0.00	
27	0.00	2.83	1.63	0.00	0.00	13.25	12.05	0.00	0.00	0.00	0.00	0.00	
28	0.00	2.88	1.52	0.00	0.00	14.93	12.05	0.00	0.00	0.00	0.00	0.00	
29	0.00	2.88	1.43	0.00	0.00	15.40	12.35	0.00	0.00	0.00	0.00	0.00	
30	0.00	2.92	1.34	0.00	0.00	14.93	12.20	0.00	0.00	0.00	0.00	0.00	
31	0.00	2.88	0.00	0.00	0.51	0.00	12.05	0.00	0.00	0.00	0.00	0.00	
Total	0.00	25.63	72.66	12.62	0.51	228.39	384.77	211.12	0.00	0.00	0.00	0.00	935.70 CMSDAY
Mean	0.00	0.83	2.42	0.41	0.02	7.61	12.41	7.04	0.00	0.00	0.00	0.00	2.56 CMS
Max	0.00	2.92	2.88	1.25	0.51	15.87	15.87	12.35	0.00	0.00	0.00	0.00	15.87 CMS
Min	0.00	0.00	1.34	0.00	0.00	0.64	9.91	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	2.21	6.28	1.09	0.04	19.73	33.24	18.24	0.00	0.00	0.00	0.00	80.84 MCM
Momentary Peak	16.57	CMS. at 132.31 m. (MSL.) at 09.00 Hours , on Sep 26, 2019											
Runoff Yield	0.10	Liters/Second/Square KM.		Momentary Peak Yield		0.67	Liters/Second/Square KM.						

**WATER YEAR : 2019****MUN RIVER BASIN****Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)**

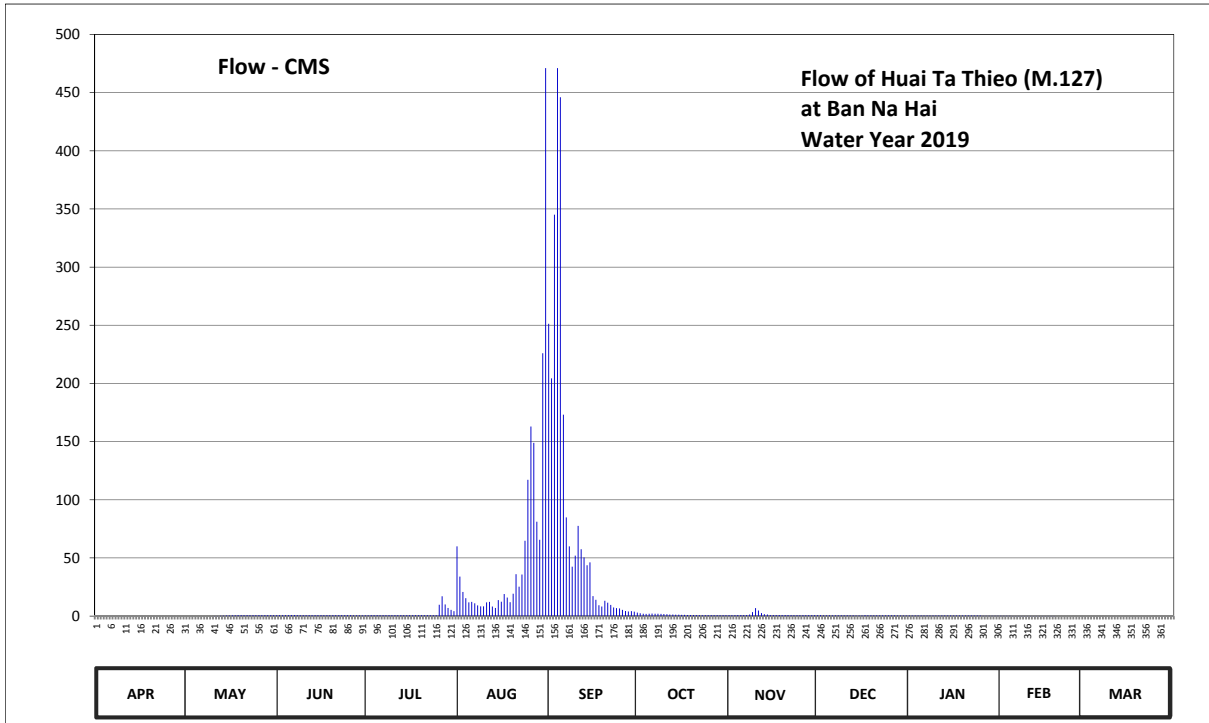
Lat 15 - 38 - 37 N Long 104 - 55 - 57 E

Location : on left bank at the bridge on road.

	<b>Ban Na Hai</b>	<b>Amphoe Trakan Phutphon</b>	<b>Changwat Ubon Ratchathani</b>
<b>Drainage Area</b>	424 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+115.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream side at the abutment of the bridge.	<b>Elevation</b>	+126.877 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.11	115.94	116.53	116.48	119.20	123.12	116.75	116.52	116.50	116.43	116.28	116.14	
2	116.11	115.98	116.54	116.49	118.16	122.67	116.72	116.53	116.50	116.43	116.28	116.13	
3	116.10	116.01	116.54	116.51	117.63	123.71	116.70	116.55	116.49	116.43	116.28	116.13	
4	116.10	116.04	116.55	116.52	117.37	124.25	116.69	116.60	116.49	116.43	116.28	116.13	
5	116.10	116.07	116.55	116.53	117.19	124.15	116.70	116.59	116.49	116.43	116.27	116.12	
6	116.09	116.11	116.56	116.53	117.21	122.26	116.71	116.59	116.48	116.43	116.27	116.12	
7	116.08	116.14	116.56	116.54	117.15	120.06	116.70	116.60	116.48	116.43	116.27	116.11	
8	116.06	116.17	116.55	116.54	117.06	119.20	116.70	116.64	116.47	116.42	116.27	116.11	
9	116.05	116.19	116.55	116.54	117.02	118.50	116.69	116.77	116.47	116.42	116.26	116.10	
10	116.05	116.21	116.55	116.54	117.02	118.88	116.68	116.94	116.47	116.42	116.26	116.10	
11	116.04	116.23	116.54	116.55	117.19	119.82	116.66	116.84	116.47	116.42	116.26	116.10	
12	116.04	116.26	116.54	116.55	117.21	119.10	116.64	116.73	116.46	116.42	116.26	116.09	
13	116.03	116.30	116.53	116.54	117.01	118.82	116.63	116.66	116.45	116.42	116.25	116.08	
14	116.03	116.35	116.53	116.54	116.95	118.55	116.62	116.63	116.43	116.42	116.25	116.08	
15	116.02	116.39	116.52	116.54	117.29	118.65	116.62	116.60	116.42	116.41	116.25	116.07	
16	116.02	116.41	116.52	116.53	117.22	117.46	116.61	116.59	116.41	116.41	116.24	116.07	
17	116.01	116.46	116.53	116.53	117.55	117.30	116.61	116.58	116.50	116.41	116.24	116.06	
18	116.01	116.49	116.53	116.53	117.40	117.07	116.60	116.57	116.49	116.41	116.23	116.06	
19	116.01	116.50	116.53	116.52	117.20	117.01	116.59	116.57	116.48	116.41	116.23	116.05	
20	116.00	116.50	116.53	116.52	117.56	117.26	116.58	116.56	116.48	116.41	116.22	116.05	
21	116.00	116.50	116.52	116.51	118.24	117.18	116.57	116.56	116.47	116.40	116.22	116.04	
22	115.99	116.50	116.52	116.51	117.81	117.08	116.55	116.55	116.47	116.40	116.21	116.04	
23	115.99	116.50	116.51	116.52	118.23	116.97	116.54	116.54	116.47	116.40	116.20	116.04	
24	115.98	116.50	116.51	116.53	119.39	116.94	116.53	116.54	116.46	116.40	116.19	116.03	
25	115.97	116.51	116.50	116.55	121.03	116.93	116.52	116.53	116.46	116.40	116.18	116.03	
26	115.96	116.51	116.50	117.09	122.10	116.87	116.52	116.53	116.45	116.29	116.16	116.03	
27	115.96	116.52	116.49	117.45	121.82	116.82	116.52	116.52	116.45	116.29	116.15	116.02	
28	115.95	116.52	116.49	117.10	119.94	116.80	116.51	116.52	116.44	116.29	116.14	116.02	
29	115.95	116.52	116.48	116.95	119.42	116.81	116.51	116.52	116.44	116.29	116.14	116.01	
30	115.94	116.53	116.48	116.87	122.89	116.79	116.51	116.51	116.43	116.28	116.14	116.01	
31		116.53		116.81	124.25		116.53		116.43	116.28		116.00	
Mean	116.02	116.34	116.53	116.63	118.47	118.90	116.61	116.60	116.46	116.39	116.23	116.07	
Max	116.11	116.53	116.56	117.45	124.25	124.25	116.75	116.94	116.50	116.43	116.28	116.14	124.25
Min	115.94	115.94	116.48	116.48	116.95	116.79	116.51	116.51	116.41	116.28	116.14	116.00	115.94
Annual Max Momentary Gage Height	124.39		m. (MSL.) ,				at 06.00 Hours ,						on Aug 31, 2019
Zero Gage at Bottom Elevation	115.30		m. (MSL.) ,				River Bed	113.69		m. (MSL.)			
Left Bank Elevation		126.62		m. (MSL.) ,									
Right Bank Elevation		126.60		m. (MSL.) ,			Drainage Are	424		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.83	0.70	60.00	251.20	3.00	0.80	0.75	0.58	0.20	0.00		
2	0.00	0.00	0.85	0.73	34.00	204.30	2.40	0.83	0.75	0.58	0.20	0.00		
3	0.00	0.00	0.85	0.78	20.75	345.10	2.00	0.88	0.73	0.58	0.20	0.00		
4	0.00	0.00	0.88	0.80	15.40	471.00	1.90	1.00	0.73	0.58	0.20	0.00		
5	0.00	0.00	0.88	0.83	11.80	446.00	2.00	0.98	0.73	0.58	0.18	0.00		
6	0.00	0.00	0.90	0.83	12.20	173.20	2.20	0.98	0.70	0.58	0.18	0.00		
7	0.00	0.00	0.90	0.85	11.00	84.80	2.00	1.00	0.70	0.58	0.18	0.00		
8	0.00	0.00	0.88	0.85	9.20	60.00	2.00	1.40	0.68	0.55	0.18	0.00		
9	0.00	0.00	0.88	0.85	8.40	42.50	1.90	3.40	0.68	0.55	0.15	0.00		
10	0.00	0.03	0.88	0.85	8.40	52.00	1.80	6.80	0.68	0.55	0.15	0.00		
11	0.00	0.08	0.85	0.88	11.80	77.60	1.60	4.80	0.68	0.55	0.15	0.00		
12	0.00	0.15	0.85	0.88	12.20	57.50	1.40	2.60	0.65	0.55	0.15	0.00		
13	0.00	0.25	0.83	0.85	8.20	50.50	1.30	1.60	0.63	0.55	0.13	0.00		
14	0.00	0.38	0.83	0.85	7.00	43.75	1.20	1.30	0.58	0.55	0.13	0.00		
15	0.00	0.48	0.80	0.85	13.80	46.25	1.20	1.00	0.55	0.53	0.13	0.00		
16	0.00	0.53	0.80	0.83	12.40	17.20	1.10	0.98	0.53	0.53	0.10	0.00		
17	0.00	0.65	0.83	0.83	19.00	14.00	1.10	0.95	0.75	0.53	0.10	0.00		
18	0.00	0.73	0.83	0.83	16.00	9.40	1.00	0.93	0.73	0.53	0.08	0.00		
19	0.00	0.75	0.83	0.80	12.00	8.20	0.98	0.93	0.70	0.53	0.08	0.00		
20	0.00	0.75	0.83	0.80	19.20	13.20	0.95	0.90	0.70	0.53	0.05	0.00		
21	0.00	0.75	0.80	0.78	36.00	11.60	0.93	0.90	0.68	0.50	0.05	0.00		
22	0.00	0.75	0.80	0.78	25.25	9.60	0.88	0.88	0.68	0.50	0.03	0.00		
23	0.00	0.75	0.78	0.80	35.75	7.40	0.85	0.85	0.68	0.50	0.00	0.00		
24	0.00	0.75	0.78	0.83	64.75	6.80	0.83	0.85	0.65	0.50	0.00	0.00		
25	0.00	0.78	0.75	0.88	117.20	6.60	0.80	0.83	0.65	0.50	0.00	0.00		
26	0.00	0.78	0.75	9.80	163.00	5.40	0.80	0.83	0.63	0.23	0.00	0.00		
27	0.00	0.80	0.73	17.00	149.00	4.40	0.80	0.80	0.63	0.23	0.00	0.00		
28	0.00	0.80	0.73	10.00	81.20	4.00	0.78	0.80	0.60	0.23	0.00	0.00		
29	0.00	0.80	0.70	7.00	65.60	4.20	0.78	0.80	0.60	0.23	0.00	0.00		
30	0.00	0.83	0.70	5.40	225.90	3.80	0.78	0.78	0.58	0.20	0.00	0.00		
31	0.00	0.83	0.70	4.20	471.00	3.80	0.78	0.78	0.58	0.20	0.00	0.00		
Total	0.00	13.40	24.53	73.94	1757.40	2531.50	42.09	42.38	20.59	14.91	3.00	0.00	4523.74	CMSDAY
Mean	0.00	0.43	0.82	2.39	56.69	84.38	1.36	1.41	0.66	0.48	0.10	0.00	12.36	CMS
Max	0.00	0.83	0.90	17.00	471.00	471.00	3.00	6.80	0.75	0.58	0.20	0.00	471.00	CMS
Min	0.00	0.00	0.70	0.70	7.00	3.80	0.78	0.78	0.53	0.20	0.00	0.00	0.00	CMS
Runoff	0.00	1.16	2.12	6.39	151.84	218.72	3.64	3.66	1.78	1.29	0.26	0.00	390.85	MCM
Momentary Peak	507.40	CMS, at 124.39 m. (MSL) , at 06.00 Hours , on Aug 31, 2019												
Runoff Yield	29.23	Liters/Second/Square KM.		Momentary Peak Yield		1196.70	Liters/Second/Square KM.							

**WATER YEAR : 2019****MUN RIVER BASIN****Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)**

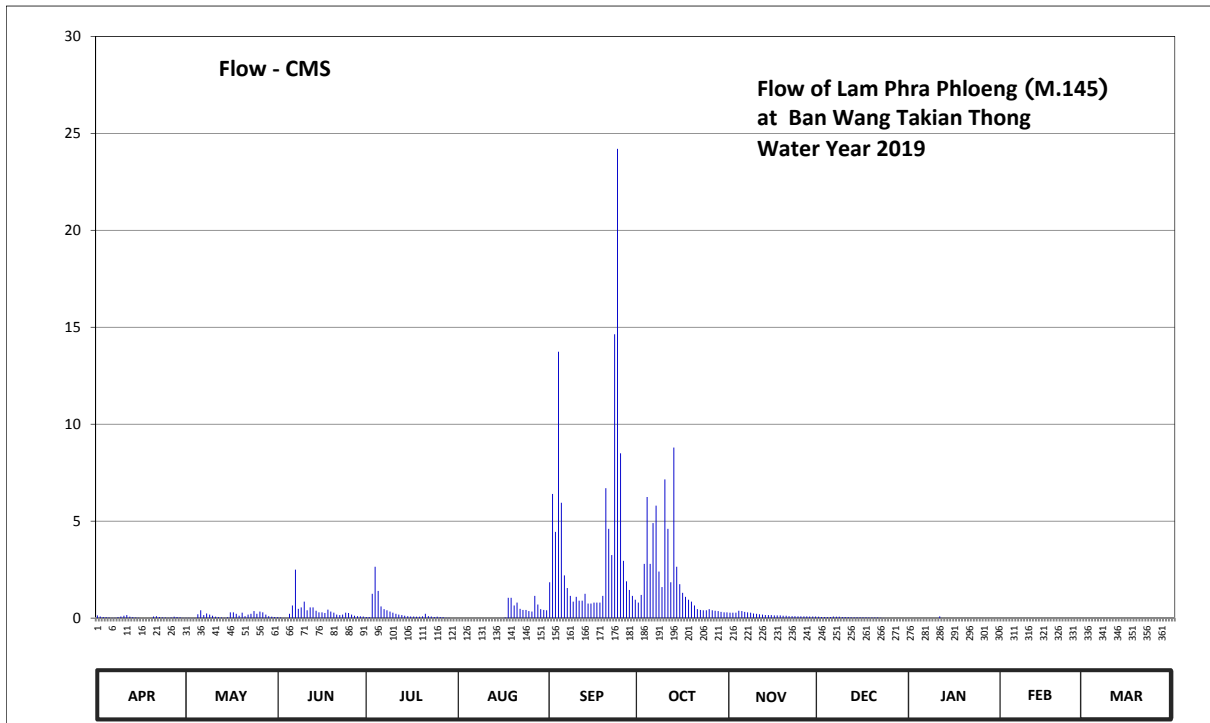
Lat 14 - 29 - 24 N Long 101 - 41 - 14 E

**Location : on right bank at Ban Wang Takian Thong.**

	<b>Ban</b>	<b>Wang Takian Thong</b>	<b>Amphoe</b>	<b>Pak Chong</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	335	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+383.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 12 meters from the top staff gage.				<b>Elevation</b>	+390.970 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1990 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1990 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1990 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.22	386.12	386.15	386.16	386.09	386.67	386.46	386.29	386.17	386.05	385.81	385.52	
2	386.18	386.12	386.13	386.16	386.08	387.06	386.54	386.29	386.16	386.04	385.80	385.52	
3	386.16	386.11	386.11	386.55	386.08	386.93	386.82	386.29	386.16	386.03	385.79	385.51	
4	386.15	386.11	386.10	386.81	386.07	387.53	387.05	386.34	386.15	386.02	385.78	385.50	
5	386.13	386.25	386.26	386.58	386.06	387.03	386.82	386.33	386.16	386.01	385.77	385.49	
6	386.12	386.35	386.43	386.42	386.07	386.74	386.96	386.31	386.18	386.01	385.75	385.49	
7	386.12	386.23	386.80	386.38	386.07	386.61	387.02	386.30	386.17	386.00	385.75	385.47	
8	386.15	386.27	386.39	386.35	386.06	386.53	386.78	386.29	386.17	386.00	385.73	385.47	
9	386.18	386.24	386.41	386.32	386.06	386.47	386.62	386.27	386.16	386.00	385.73	385.46	
10	386.21	386.21	386.47	386.29	386.06	386.52	387.11	386.26	386.16	386.00	385.72	385.45	
11	386.23	386.17	386.35	386.26	386.05	386.48	386.94	386.25	386.15	386.19	385.71	385.44	
12	386.17	386.15	386.41	386.24	386.06	386.48	386.67	386.24	386.14	385.98	385.71	385.42	
13	386.15	386.13	386.41	386.23	386.06	386.55	387.22	386.23	386.14	385.96	385.70	385.42	
14	386.13	386.12	386.34	386.21	386.06	386.45	386.81	386.23	386.14	385.95	385.69	385.42	
15	386.12	386.14	386.30	386.20	386.07	386.45	386.65	386.23	386.14	385.94	385.67	385.42	
16	386.10	386.30	386.30	386.18	386.06	386.46	386.56	386.22	386.14	385.93	385.66	385.41	
17	386.09	386.30	386.28	386.18	386.13	386.46	386.52	386.22	386.14	385.92	385.65	385.41	
18	386.08	386.26	386.37	386.17	386.51	386.46	386.49	386.22	386.13	385.91	385.64	385.40	
19	386.08	386.21	386.32	386.17	386.51	386.53	386.47	386.21	386.13	385.91	385.63	385.39	
20	386.18	386.29	386.29	386.19	386.43	387.08	386.43	386.21	386.13	385.90	385.62	385.38	
21	386.20	386.20	386.24	386.26	386.46	386.94	386.38	386.20	386.13	385.90	385.61	385.37	
22	386.16	386.24	386.23	386.20	386.39	386.85	386.36	386.20	386.12	385.88	385.60	385.36	
23	386.14	386.26	386.24	386.18	386.36	387.58	386.35	386.20	386.11	385.87	385.60	385.35	
24	386.13	386.33	386.29	386.16	386.36	388.06	386.35	386.19	386.10	385.86	385.59	385.34	
25	386.12	386.26	386.28	386.17	386.33	387.20	386.38	386.19	386.10	385.85	385.58	385.33	
26	386.13	386.32	386.24	386.16	386.32	386.83	386.35	386.19	386.09	385.85	385.56	385.32	
27	386.17	386.30	386.21	386.15	386.53	386.68	386.34	386.19	386.08	385.84	385.56	385.31	
28	386.16	386.24	386.20	386.12	386.44	386.59	386.33	386.18	386.07	385.84	385.54	385.30	
29	386.14	386.20	386.19	386.12	386.38	386.53	386.31	386.18	386.07	385.83	385.53	385.30	
30	386.12	386.17	386.18	386.10	386.36	386.49	386.30	386.18	386.07	385.82	385.52	385.29	
31		386.16		386.09	386.35		386.30		386.05	385.81		385.27	
Mean	386.15	386.22	386.30	386.25	386.22	386.77	386.60	386.24	386.13	385.94	385.67	385.40	
Max	386.23	386.35	386.80	386.81	386.53	388.06	387.22	386.34	386.18	386.19	385.81	385.52	388.06
Min	386.08	386.11	386.10	386.09	386.05	386.45	386.30	386.18	386.05	385.81	385.53	385.27	385.27
Annual Max Momentary Gage Height	388.32		m. (MSL.) ,			at 06.00 Hours , on Sep 24, 2019							
Zero Gage at Bottom Elevation	383.00		m. (MSL.) ,			River Bed	385.86	m. (MSL.)					
Left Bank Elevation		390.96		m. (MSL.) ,									
Right Bank Elevation		390.73		m. (MSL.) ,		Drainage Are	335	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.02	0.05	0.06	0.00	1.85	0.80	0.28	0.07	0.00	0.00	0.00	
2	0.08	0.02	0.03	0.06	0.00	6.40	1.20	0.28	0.06	0.00	0.00	0.00	
3	0.06	0.01	0.01	1.25	0.00	4.45	2.80	0.28	0.06	0.00	0.00	0.00	
4	0.05	0.01	0.00	2.65	0.00	13.74	6.25	0.38	0.05	0.00	0.00	0.00	
5	0.03	0.20	0.22	1.40	0.00	5.95	2.80	0.36	0.06	0.00	0.00	0.00	
6	0.02	0.40	0.65	0.60	0.00	2.20	4.90	0.32	0.08	0.00	0.00	0.00	
7	0.02	0.16	2.50	0.46	0.00	1.55	5.80	0.30	0.07	0.00	0.00	0.00	
8	0.05	0.24	0.48	0.40	0.00	1.15	2.40	0.28	0.07	0.00	0.00	0.00	
9	0.08	0.18	0.55	0.34	0.00	0.85	1.60	0.24	0.06	0.00	0.00	0.00	
10	0.12	0.12	0.85	0.28	0.00	1.10	7.15	0.22	0.06	0.00	0.00	0.00	
11	0.16	0.07	0.40	0.22	0.00	0.90	4.60	0.20	0.05	0.09	0.00	0.00	
12	0.07	0.05	0.55	0.18	0.00	0.90	1.85	0.18	0.04	0.00	0.00	0.00	
13	0.05	0.03	0.55	0.16	0.00	1.25	8.80	0.16	0.04	0.00	0.00	0.00	
14	0.03	0.02	0.38	0.12	0.00	0.75	2.65	0.16	0.04	0.00	0.00	0.00	
15	0.02	0.04	0.30	0.10	0.00	0.75	1.75	0.16	0.04	0.00	0.00	0.00	
16	0.00	0.30	0.30	0.08	0.00	0.80	1.30	0.14	0.04	0.00	0.00	0.00	
17	0.00	0.30	0.26	0.08	0.03	0.80	1.10	0.14	0.04	0.00	0.00	0.00	
18	0.00	0.22	0.44	0.07	1.05	0.80	0.95	0.14	0.03	0.00	0.00	0.00	
19	0.00	0.12	0.34	0.07	1.05	1.15	0.85	0.12	0.03	0.00	0.00	0.00	
20	0.08	0.28	0.28	0.09	0.65	6.70	0.65	0.12	0.03	0.00	0.00	0.00	
21	0.10	0.10	0.18	0.22	0.80	4.60	0.46	0.10	0.03	0.00	0.00	0.00	
22	0.06	0.18	0.16	0.10	0.48	3.25	0.42	0.10	0.02	0.00	0.00	0.00	
23	0.04	0.22	0.18	0.08	0.42	14.64	0.40	0.10	0.01	0.00	0.00	0.00	
24	0.03	0.36	0.28	0.06	0.42	24.20	0.40	0.09	0.00	0.00	0.00	0.00	
25	0.02	0.22	0.26	0.07	0.36	8.50	0.46	0.09	0.00	0.00	0.00	0.00	
26	0.03	0.34	0.18	0.06	0.34	2.95	0.40	0.09	0.00	0.00	0.00	0.00	
27	0.07	0.30	0.12	0.05	1.15	1.90	0.38	0.09	0.00	0.00	0.00	0.00	
28	0.06	0.18	0.10	0.02	0.70	1.45	0.36	0.08	0.00	0.00	0.00	0.00	
29	0.04	0.10	0.09	0.02	0.46	1.15	0.32	0.08	0.00	0.00	0.00	0.00	
30	0.02	0.07	0.08	0.00	0.42	0.95	0.30	0.08	0.00	0.00	0.00	0.00	
31		0.06		0.00	0.40		0.30		0.00	0.00		0.00	
Total	1.53	4.92	10.77	9.35	8.73	117.63	64.40	5.36	1.08	0.09	0.00	0.00	223.86 CMSDAY
Mean	0.05	0.16	0.36	0.30	0.28	3.92	2.08	0.18	0.03	0.00	0.00	0.00	0.61 CMS
Max	0.16	0.40	2.50	2.65	1.15	24.20	8.80	0.38	0.08	0.09	0.00	0.00	24.20 CMS
Min	0.00	0.01	0.00	0.00	0.00	0.75	0.30	0.08	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.13	0.43	0.93	0.81	0.75	10.16	5.56	0.46	0.09	0.01	0.00	0.00	19.34 MCM
Momentary Peak	30.00	CMS, at 388.32 m. (MSL.) , at 06.00 Hours , on Sep 24 , 2019											
Runoff Yield	1.83	Liters/Second/Square KM.		Momentary Peak Yield		89.55	Liters/Second/Square KM.						

**WATER YEAR : 2019****MUN RIVER BASIN****Huai La - ong at Ban Na Phu, Amnart Charoen (M.155)**

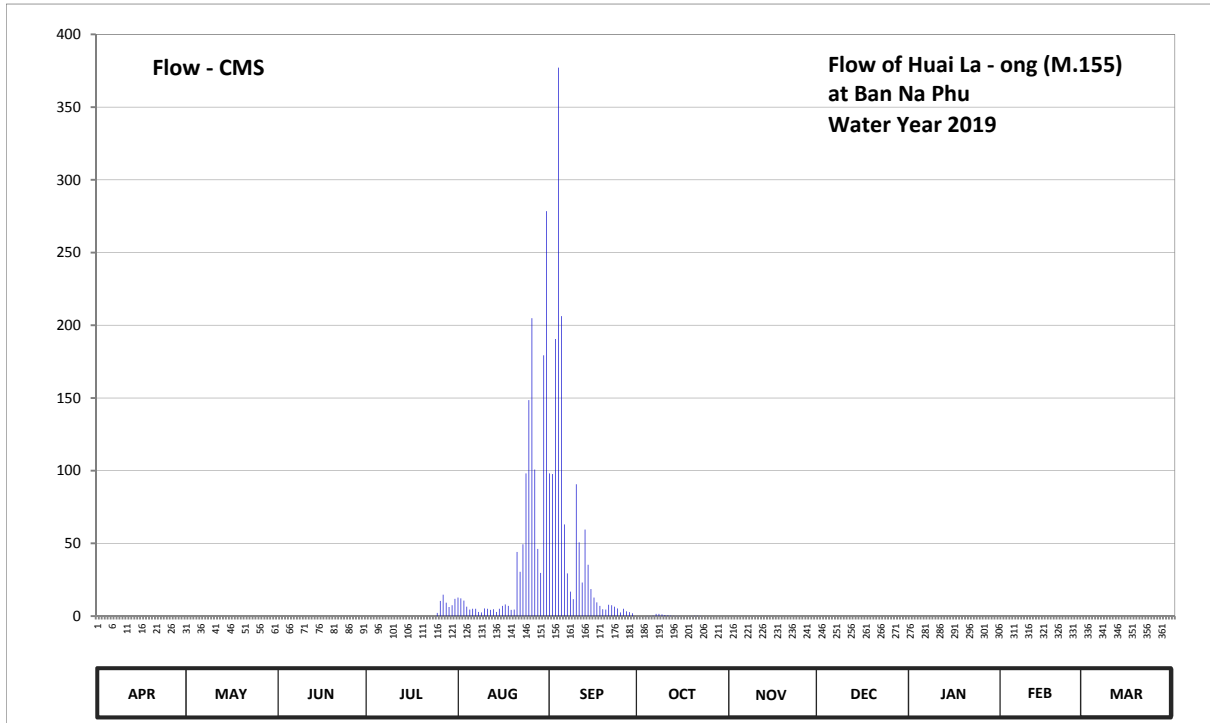
Lat 16 - 00 - 15 N Long 104 - 38 - 39 E

Location : on left bank at the bridge on road.

	<b>Ban Na Phu</b>	<b>Amphoe Mueang</b>	<b>Changwat Amnart Charoen</b>
<b>Drainage Area</b>	219 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+136.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank upstream side at the footpath of the bridge.	<b>Elevation</b>	+144.588 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. The weir situated about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.84	136.79	136.72	136.68	137.56	139.98	136.87	136.78	136.81	136.77	136.79	136.75	
2	136.84	136.77	136.72	136.75	137.54	139.97	136.88	136.78	136.81	136.77	136.79	136.74	
3	136.83	136.76	136.71	136.78	137.49	141.86	136.90	136.78	136.80	136.77	136.79	136.74	
4	136.83	136.74	136.71	136.76	137.34	143.26	136.91	136.77	136.80	136.78	136.79	136.74	
5	136.83	136.72	136.70	136.74	137.26	142.09	136.91	136.77	136.80	136.78	136.79	136.74	
6	136.83	136.70	136.69	136.73	137.28	139.00	136.93	136.77	136.80	136.78	136.79	136.73	
7	136.83	136.68	136.68	136.72	137.28	138.04	137.05	136.78	136.80	136.78	136.78	136.73	
8	136.83	136.67	136.68	136.71	137.18	137.68	137.05	136.78	136.80	136.79	136.78	136.73	
9	136.83	136.66	136.67	136.70	137.15	137.52	137.02	136.79	136.80	136.79	136.78	136.73	
10	136.83	136.65	136.67	136.73	137.29	139.79	136.98	136.80	136.80	136.79	136.78	136.72	
11	136.82	136.65	136.66	136.82	137.28	138.65	136.95	136.81	136.79	136.79	136.78	136.72	
12	136.82	136.65	136.66	136.80	137.25	137.86	136.93	136.83	136.79	136.78	136.78	136.72	
13	136.82	136.64	136.66	136.78	137.27	138.90	136.92	136.82	136.79	136.78	136.78	136.72	
14	136.81	136.64	136.65	136.76	137.19	138.21	136.91	136.81	136.79	136.78	136.77	136.71	
15	136.83	136.64	136.65	136.74	137.28	137.73	136.91	136.80	136.79	136.78	136.77	136.71	
16	136.83	136.64	136.64	136.73	137.36	137.56	136.90	136.80	136.79	136.79	136.77	136.71	
17	136.83	136.64	136.64	136.74	137.40	137.45	136.90	136.80	136.78	136.79	136.77	136.71	
18	136.82	136.63	136.64	136.74	137.36	137.36	136.90	136.80	136.78	136.79	136.77	136.71	
19	136.82	136.63	136.63	136.75	137.25	137.27	136.91	136.80	136.78	136.79	136.77	136.70	
20	136.82	136.63	136.63	136.76	137.26	137.26	136.92	136.79	136.78	136.79	136.77	136.70	
21	136.81	136.63	136.63	136.75	138.46	137.39	136.92	136.79	136.78	136.79	136.76	136.70	
22	136.81	136.63	136.63	136.76	138.07	137.38	136.91	136.79	136.78	136.79	136.76	136.70	
23	136.81	136.63	136.63	136.78	138.61	137.34	136.90	136.78	136.79	136.78	136.76	136.70	
24	136.81	136.63	136.62	136.86	139.98	137.29	136.90	136.78	136.80	136.78	136.76	136.70	
25	136.81	136.63	136.62	137.12	141.10	137.15	136.89	136.78	136.80	136.78	136.76	136.70	
26	136.81	136.62	136.62	137.48	142.07	137.28	136.89	136.79	136.80	136.79	136.76	136.69	
27	136.81	136.62	136.61	137.62	140.04	137.21	136.87	136.79	136.79	136.79	136.76	136.69	
28	136.81	136.62	136.61	137.44	138.52	137.17	136.85	136.80	136.79	136.80	136.75	136.69	
29	136.80	136.65	136.61	137.33	138.05	137.10	136.82	136.80	136.78	136.80	136.75	136.69	
30	136.80	136.69	136.60	137.38	141.66	136.88	136.80	136.81	136.78	136.79	136.78	136.69	
31		136.72		137.53	142.75		136.79		136.77	136.79		136.68	
Mean	136.82	136.66	136.65	136.90	138.24	138.32	136.91	136.79	136.79	136.79	136.77	136.71	
Max	136.84	136.79	136.72	137.62	142.75	143.26	137.05	136.83	136.81	136.80	136.79	136.75	143.26
Min	136.80	136.62	136.60	136.68	137.15	136.88	136.79	136.77	136.77	136.77	136.75	136.68	136.60
Annual Max Momentary Gage Height	143.50		m. (MSL.) ,				at 18.00 Hours, on Aug 30, 2019						
Zero Gage at Bottom Elevation	136.20		m. (MSL.) ,			River Bed	135.96	m. (MSL)					
Left Bank Elevation		144.59		m. (MSL.) ,									
Right Bank Elevation		144.60		m. (MSL.) ,		Drainage Are	219	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	12.80	98.10	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	12.20	97.65	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	10.70	190.60	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	6.50	377.20	0.10	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	4.50	206.30	0.10	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	5.00	63.00	0.30	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	5.00	29.40	1.50	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	2.80	16.80	1.50	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	2.50	11.60	1.20	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	5.25	90.65	0.80	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	5.00	50.75	0.50	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	4.25	23.10	0.30	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	4.75	59.50	0.20	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	2.90	35.35	0.10	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	5.00	18.55	0.10	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	7.00	12.80	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	8.00	9.50	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	7.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	4.25	4.75	0.10	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	4.50	4.50	0.20	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	44.10	7.75	0.20	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	30.45	7.50	0.10	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	49.35	6.50	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	98.10	5.25	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	2.20	148.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	10.40	204.90	5.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	14.70	100.80	3.25	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	9.20	46.20	2.70	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	6.25	29.75	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	7.50	179.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	11.90	278.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	62.15	1329.85	1449.55	7.30	0.00	0.00	0.00	0.00	0.00	2848.85 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	2.00	42.90	48.32	0.24	0.00	0.00	0.00	0.00	0.00	7.78 CMS
<b>Max</b>	0.00	0.00	0.00	14.70	278.50	377.20	1.50	0.00	0.00	0.00	0.00	0.00	377.20 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	5.37	114.90	125.24	0.63	0.00	0.00	0.00	0.00	0.00	246.14 MCM
<b>Momentary Peak</b>	430.00	CMS, at 143.50 m. (MSL), at 18.00 Hours, on Aug 30, 2019											
<b>Runoff Yield</b>	35.64	Liters/Second/Square KM. Momentary Peak Yield 1963.47 Liters/Second/Square KM.											



## WATER YEAR : 2019

## MUN RIVER BASIN

## Huai Ban at Ban Na Phu, Amnart Charoen (M.156)

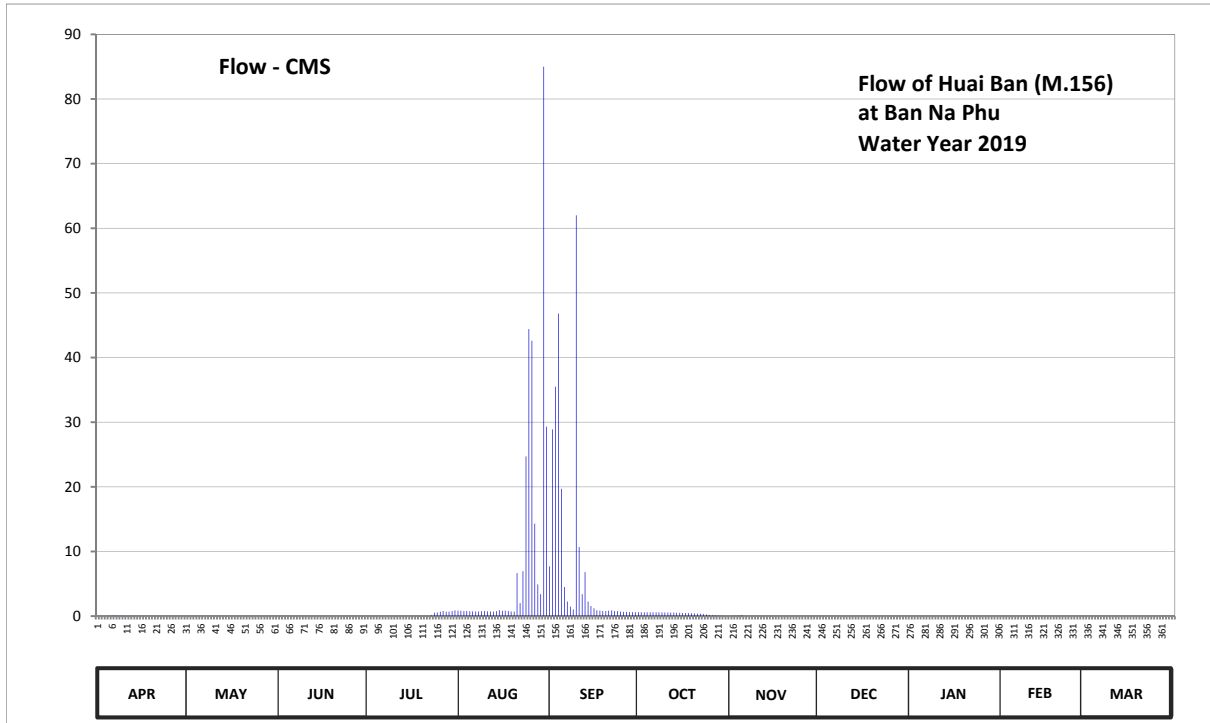
Lat 15 - 59 - 14 N Long 104 - 38 - 28 E

Location : on left bank at the bridge on road.

	<b>Ban Na Phu</b>	<b>Amphoe Mueang</b>	<b>Changwat Amnart Charoen</b>
<b>Drainage Area</b>	40 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+139.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the footpath of the bridge.	<b>Elevation</b>	+144.66 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The concrete weir situated about 250 meters downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.10	139.88	139.86	139.95	140.53	141.38	140.41	140.01	140.36	140.09	139.75	139.74	
2	139.10	139.88	139.86	140.01	140.52	142.52	140.40	140.02	140.37	140.08	139.75	139.74	
3	139.10	139.87	139.86	140.00	140.50	142.80	140.40	140.04	140.37	140.06	139.75	139.74	
4	139.29	139.87	139.86	139.99	140.49	143.17	140.40	140.08	140.37	140.05	139.75	139.74	
5	139.95	139.87	139.86	139.98	140.48	142.06	140.39	140.12	140.36	140.04	139.75	139.74	
6	140.08	139.87	139.86	139.97	140.47	141.10	140.39	140.13	140.36	140.02	139.75	139.74	
7	140.07	139.87	139.86	139.96	140.46	140.85	140.39	140.13	140.35	140.00	139.75	139.74	
8	140.06	139.87	139.86	139.95	140.46	140.69	140.39	140.13	140.35	139.99	139.75	139.74	
9	140.05	139.86	139.86	139.96	140.47	140.61	140.38	140.12	140.34	139.98	139.75	139.74	
10	140.03	139.86	139.86	140.01	140.50	143.40	140.38	140.12	140.34	139.97	139.75	139.74	
11	140.03	139.86	139.86	140.02	140.47	141.58	140.38	140.12	140.33	139.95	139.74	139.74	
12	140.02	139.86	139.86	140.00	140.46	140.99	140.37	140.12	140.33	139.94	139.74	139.74	
13	140.02	139.86	139.86	139.99	140.45	141.32	140.37	140.12	140.32	139.93	139.74	139.74	
14	140.01	139.86	139.86	139.98	140.48	140.85	140.36	140.12	140.32	139.91	139.74	139.74	
15	140.01	139.86	139.86	139.97	140.56	140.71	140.36	140.12	140.31	139.90	139.74	139.74	
16	140.00	139.86	139.86	139.96	140.51	140.64	140.35	140.12	140.30	139.89	139.74	139.74	
17	140.00	139.86	139.86	139.95	140.52	140.54	140.34	140.11	140.29	139.88	139.74	139.74	
18	139.99	139.86	139.86	139.97	140.49	140.52	140.33	140.11	140.28	139.87	139.74	139.74	
19	139.99	139.86	139.86	140.03	140.46	140.50	140.32	140.11	140.27	139.86	139.74	139.74	
20	139.97	139.86	139.86	140.02	140.44	140.49	140.31	140.11	140.26	139.84	139.74	139.74	
21	139.96	139.86	139.86	140.02	141.31	140.52	140.30	140.11	140.25	139.83	139.74	139.74	
22	139.95	139.86	139.86	140.03	140.80	140.54	140.29	140.11	140.23	139.82	139.74	139.74	
23	139.93	139.86	139.86	140.11	141.33	140.50	140.27	140.11	140.20	139.81	139.74	139.74	
24	139.91	139.86	139.86	140.36	142.31	140.48	140.23	140.10	140.15	139.80	139.74	139.74	
25	139.90	139.86	139.86	140.38	143.11	140.45	140.19	140.11	140.13	139.79	139.74	139.74	
26	139.90	139.86	139.86	140.45	143.06	140.43	140.15	140.18	140.13	139.78	139.74	139.74	
27	139.89	139.86	139.86	140.49	141.79	140.43	140.11	140.26	140.12	139.77	139.74	139.74	
28	139.89	139.86	139.86	140.45	141.14	140.42	140.07	140.33	140.12	139.76	139.74	139.74	
29	139.88	139.86	139.86	140.45	140.99	140.41	140.04	140.38	140.11	139.76	139.74	139.74	
30	139.88	139.86	139.86	140.50	143.63	140.41	140.02	140.37	140.11	139.75	139.74	139.74	
31		139.86		140.54	142.54		140.01		140.11	139.75		139.74	
Mean	139.87	139.86	139.86	140.11	141.02	141.04	140.29	140.14	140.27	139.90	139.74	139.74	
Max	140.08	139.88	139.86	140.54	143.63	143.40	140.41	140.38	140.37	140.09	139.75	139.74	143.63
Min	139.10	139.86	139.86	139.95	140.44	140.41	140.01	140.01	140.11	139.75	139.74	139.74	139.10
Annual Max Momentary Gage Height	144.05		m. (MSL.) ,				at 12.00 Hours, on Aug 30, 2019						
Zero Gage at Bottom Elevation	139.10		m. (MSL.) ,			River Bed	139.47		m. (MSL)				
Left Bank Elevation		144.68		m. (MSL.) ,									
Right Bank Elevation		144.68		m. (MSL.) ,		Drainage Are	40		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.86	7.70	0.62	0.01	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.01	0.84	28.90	0.60	0.02	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.80	35.50	0.60	0.04	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.78	46.80	0.60	0.08	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.76	19.70	0.58	0.12	0.00	0.00	0.00	0.00	
6	0.08	0.00	0.00	0.00	0.74	4.50	0.58	0.00	0.00	0.00	0.00	0.00	
7	0.07	0.00	0.00	0.00	0.72	2.25	0.58	0.00	0.00	0.00	0.00	0.00	
8	0.06	0.00	0.00	0.00	0.72	1.45	0.58	0.00	0.00	0.00	0.00	0.00	
9	0.05	0.00	0.00	0.00	0.74	1.05	0.56	0.00	0.00	0.00	0.00	0.00	
10	0.03	0.00	0.00	0.01	0.80	62.00	0.56	0.00	0.00	0.00	0.00	0.00	
11	0.03	0.00	0.00	0.02	0.74	10.70	0.56	0.00	0.00	0.00	0.00	0.00	
12	0.02	0.00	0.00	0.00	0.72	3.40	0.54	0.00	0.00	0.00	0.00	0.00	
13	0.02	0.00	0.00	0.00	0.70	6.80	0.54	0.00	0.00	0.00	0.00	0.00	
14	0.01	0.00	0.00	0.00	0.76	2.25	0.52	0.00	0.00	0.00	0.00	0.00	
15	0.01	0.00	0.00	0.00	0.92	1.55	0.52	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.82	1.20	0.50	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.84	0.88	0.48	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.78	0.84	0.46	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.03	0.72	0.80	0.44	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.02	0.68	0.78	0.42	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.02	6.65	0.84	0.40	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.03	2.00	0.88	0.38	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.11	6.95	0.80	0.34	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.52	24.70	0.76	0.26	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.56	44.40	0.70	0.19	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.70	42.60	0.66	0.15	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.78	14.30	0.66	0.11	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.70	4.90	0.64	0.07	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.70	3.40	0.62	0.04	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.80	85.00	0.62	0.02	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.88	29.30	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.38	0.00	0.00	5.89	279.64	246.23	12.81	0.27	0.00	0.00	0.00	0.00	545.22 CMSDAY
<b>Mean</b>	0.01	0.00	0.00	0.19	9.02	8.21	0.41	0.01	0.00	0.00	0.00	0.00	1.49 CMS
<b>Max</b>	0.08	0.00	0.00	0.88	85.00	62.00	0.62	0.12	0.00	0.00	0.00	0.00	85.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.68	0.62	0.01	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.03	0.00	0.00	0.51	24.16	21.27	1.11	0.02	0.00	0.00	0.00	0.00	47.11 MCM
<b>Momentary Peak</b>	129.50	CMS, at 144.05 m. (MSL), at 12.00 Hours, on Aug 30, 2019											
<b>Runoff Yield</b>	37.34	Liters/Second/Square KM. Momentary Peak Yield 3237.50 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MUN RIVER BASIN

Huai Lam Phong at Ban Nikhom, Yasothon (M.157)

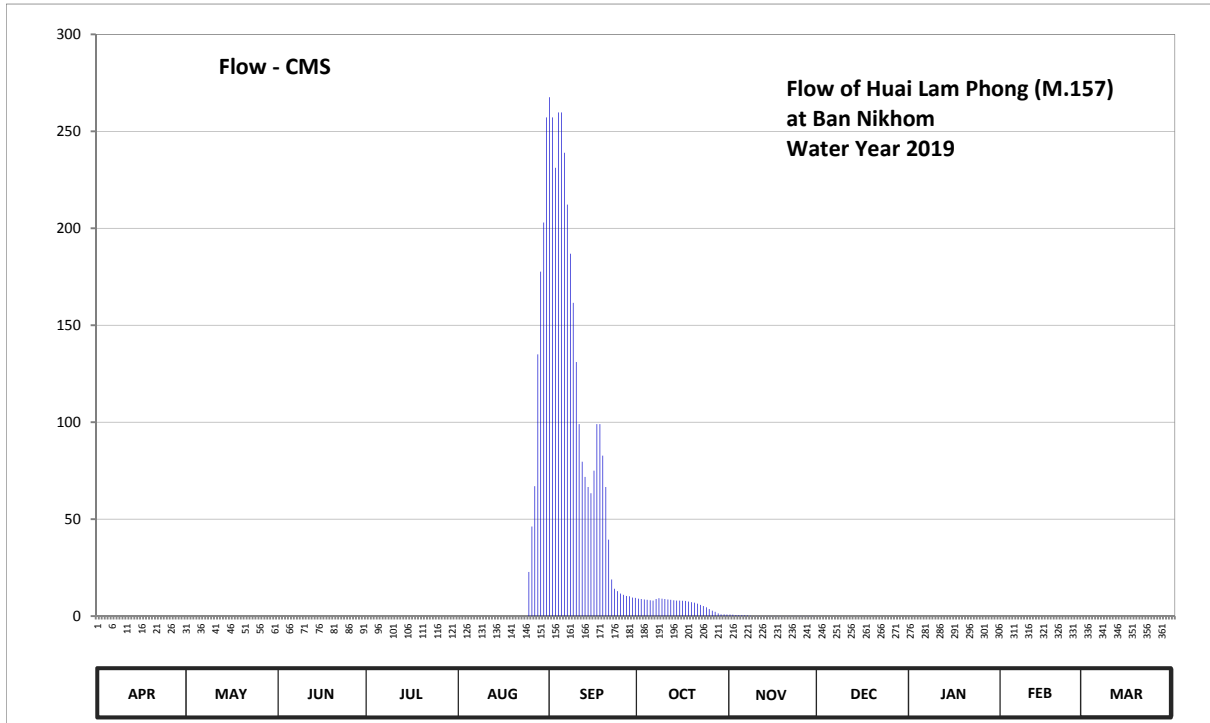
Lat 15 - 48 - 17 N Long 104 - 19 - 52 E

Location : on right bank at the bridge of Arun Prasoet road.

	Ban Nikhom	Amphoe Pa Tio	Changwat Yasothon
<b>Drainage Area</b>	729 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+121.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank upstream side of the footpath of the bridge.	<b>Elevation</b>	+131.518 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 - 1999, 2001 - 2010 , 2019 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1997 - 1999, 2001 - 2010 , 2019 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.30	123.06	123.10	122.90	123.01	128.16	125.25	124.41	124.00	123.69	123.30	123.03	
2	123.29	123.06	123.10	122.90	123.01	128.12	125.24	124.35	123.98	123.68	123.30	123.03	
3	123.25	123.07	123.09	122.89	123.00	128.02	125.23	124.28	123.96	123.67	123.30	123.02	
4	123.25	123.07	123.08	122.88	123.00	128.13	125.22	124.25	123.94	123.66	123.29	123.01	
5	123.26	123.07	123.07	122.87	122.99	128.13	125.21	124.23	123.92	123.64	123.29	123.00	
6	123.26	123.08	123.06	122.86	122.99	128.05	125.20	124.19	123.90	123.62	123.29	122.99	
7	123.26	123.08	123.05	122.86	122.98	127.94	125.24	124.15	123.89	123.59	123.28	122.99	
8	123.25	123.08	123.04	122.85	123.00	127.83	125.26	124.09	123.88	123.56	123.27	122.98	
9	123.25	123.09	123.03	122.85	122.99	127.72	125.25	124.05	123.87	123.54	123.26	122.98	
10	123.24	123.09	123.02	122.85	122.99	127.58	125.24	124.04	123.86	123.52	123.25	122.97	
11	123.23	123.09	123.01	122.84	122.99	127.42	125.23	124.04	123.85	123.50	123.24	122.97	
12	123.22	123.10	122.99	122.84	123.01	127.22	125.22	124.03	123.85	123.49	123.22	122.96	
13	123.21	123.10	122.97	122.88	123.01	127.07	125.21	124.03	123.83	123.48	123.20	122.96	
14	123.20	123.10	122.96	122.90	123.02	126.94	125.20	124.03	123.81	123.47	123.18	122.96	
15	123.19	123.11	122.97	122.90	123.03	126.86	125.20	124.03	123.80	123.46	123.17	122.95	
16	123.18	123.11	123.01	122.89	123.05	127.14	125.19	124.04	123.79	123.45	123.16	122.95	
17	123.18	123.11	123.02	122.88	123.07	127.42	125.18	124.04	123.78	123.44	123.15	122.95	
18	123.17	123.12	123.01	122.87	123.08	127.42	125.15	124.04	123.77	123.43	123.14	122.94	
19	123.14	123.12	123.01	122.86	123.09	127.26	125.12	124.05	123.75	123.42	123.12	122.94	
20	123.11	123.12	123.00	122.85	123.10	126.94	125.09	124.05	123.74	123.40	123.10	122.94	
21	123.09	123.13	122.99	122.83	123.11	126.24	125.04	124.05	123.74	123.39	123.08	122.93	
22	123.07	123.13	122.98	122.81	123.13	125.63	124.98	124.04	123.73	123.38	123.08	122.93	
23	123.06	123.12	122.97	122.81	123.16	125.47	124.92	124.04	123.73	123.37	123.07	122.93	
24	123.06	123.12	122.96	122.83	123.26	125.43	124.85	124.03	123.72	123.36	123.07	122.93	
25	123.06	123.11	122.95	122.88	125.76	125.38	124.76	124.03	123.72	123.35	123.06	122.93	
26	123.06	123.11	122.94	122.89	126.43	125.35	124.68	124.03	123.71	123.34	123.06	122.92	
27	123.06	123.11	122.93	122.93	126.95	125.32	124.62	124.02	123.71	123.33	123.05	122.92	
28	123.06	123.10	122.92	122.92	127.60	125.31	124.54	124.02	123.71	123.32	123.04	122.92	
29	123.05	123.10	122.91	122.91	127.79	125.28	124.47	124.02	123.70	123.31	123.03	122.91	
30	123.05	123.09	122.90	122.93	127.90	125.27	124.44	124.01	123.70	123.31	123.03	122.91	
31		123.10		123.01	128.12		124.42		123.70	123.30		122.91	
Mean	123.17	123.10	123.00	122.88	123.99	126.87	125.03	124.09	123.81	123.47	123.17	122.96	
Max	123.30	123.13	123.10	123.01	128.12	128.16	125.26	124.41	124.00	123.69	123.30	123.03	128.16
Min	123.05	123.06	122.90	122.81	122.98	125.27	124.42	124.01	123.70	123.30	123.03	122.91	122.81
Annual Max Momentary Gage Height	128.18		m. (MSL.) ,			at 06.00 Hours, on Sep 1, 2019							
Zero Gage at Bottom Elevation	121.50		m. (MSL.) ,			River Bed 122.75		m. (MSL)					
Left Bank Elevation		131.27		m. (MSL.) ,									
Right Bank Elevation		131.63		m. (MSL.) ,		Drainage Are	729	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

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	267.60	9.00	0.82	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	257.20	8.80	0.70	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	231.20	8.60	0.56	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	259.80	8.40	0.50	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	259.80	8.20	0.46	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	239.00	8.00	0.38	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	212.20	8.80	0.30	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	186.90	9.20	0.18	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	161.60	9.00	0.10	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	131.00	8.80	0.08	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	99.00	8.60	0.08	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	79.60	8.40	0.06	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	71.80	8.20	0.06	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	66.60	8.00	0.06	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	63.40	8.00	0.06	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	75.00	7.90	0.08	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	99.00	7.80	0.08	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	99.00	7.50	0.08	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	82.80	7.20	0.10	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	66.60	6.90	0.10	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	39.40	6.40	0.10	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	18.90	5.80	0.08	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	14.10	5.20	0.08	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	12.90	4.50	0.06	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	22.80	11.60	3.60	0.06	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	46.20	11.00	2.80	0.06	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	67.00	10.40	2.20	0.04	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	135.00	10.20	1.40	0.04	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	177.70	9.60	0.94	0.04	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	203.00	9.40	0.88	0.02	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	257.20	0.84	0.84	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	908.90	3156.60	199.86	5.42	0.00	0.00	0.00	0.00	4270.78 CMSDAY
Mean	0.00	0.00	0.00	0.00	29.32	105.22	6.45	0.18	0.00	0.00	0.00	0.00	11.67 CMS
Max	0.00	0.00	0.00	0.00	257.20	267.60	9.20	0.82	0.00	0.00	0.00	0.00	267.60 CMS
Min	0.00	0.00	0.00	0.00	0.00	9.40	0.84	0.02	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	78.53	272.73	17.27	0.47	0.00	0.00	0.00	0.00	369.00 MCM
Momentary Peak	272.80	CMS, at 128.18 m. (MSL), at 06.00 Hours, on Sep 1, 2019											
Runoff Yield	16.05	Liters/Second/Square KM. Momentary Peak Yield 374.21 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MUN RIVER BASIN

Lam Chi at Ban Lum Din, Surin (M.159)

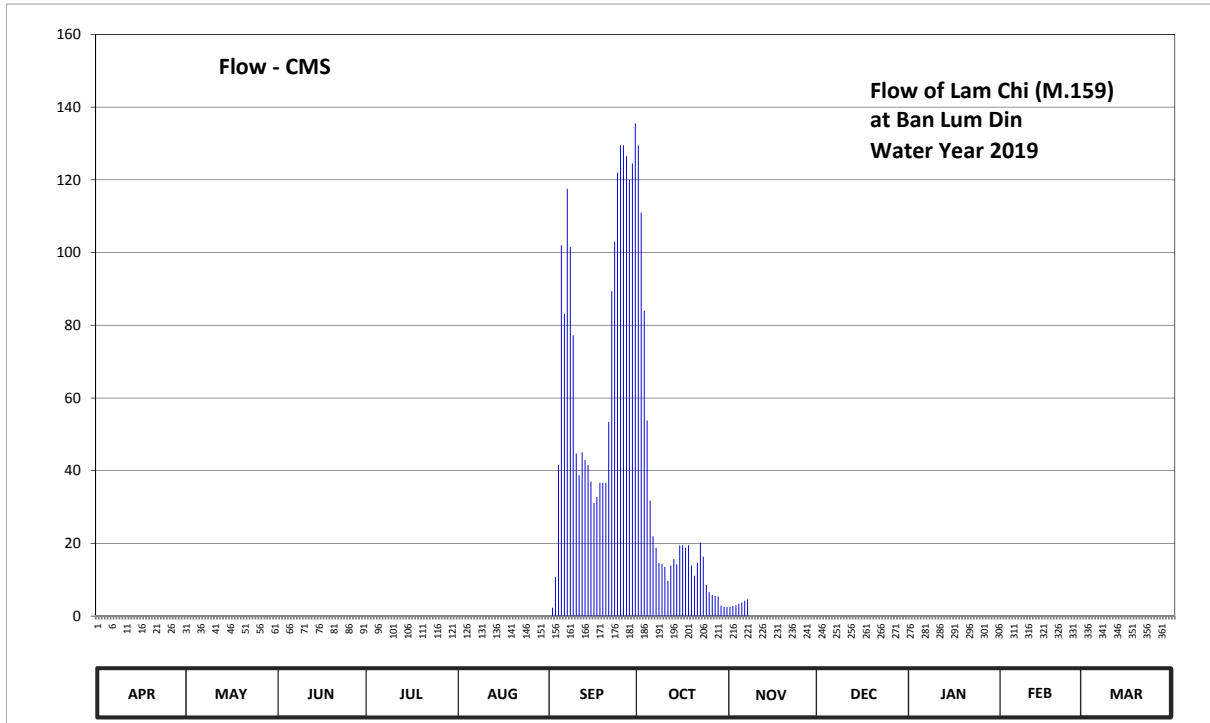
Lat 15 - 08 - 24 N Long 103 - 25 - 57 E

Location : on right bank at Ban Lum Din.

	<b>Ban Lum Din</b>	<b>Amphoe Chom Phra</b>	<b>Changwat Surin</b>
<b>Drainage Area</b>	4,806 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+120.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at staff gage line.		<b>Elevation</b> +131.079 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.21	121.53	121.20	121.35	121.46	122.17	126.15	122.86	123.00	122.69	122.23	121.74	
2	121.22	121.51	121.21	121.33	121.50	122.83	125.78	122.88	122.99	122.68	122.20	121.73	
3	121.22	121.50	121.21	121.33	121.50	123.25	125.20	122.90	122.98	122.67	122.19	121.71	
4	121.22	121.50	121.20	121.32	121.50	124.13	124.47	122.92	122.96	122.66	122.16	121.70	
5	121.22	121.49	121.30	121.31	121.49	125.60	123.85	122.94	122.95	122.65	122.13	121.68	
6	121.27	121.48	121.30	121.30	121.49	125.18	123.57	122.96	122.94	122.64	122.12	121.65	
7	121.30	121.47	121.31	121.28	121.48	125.91	123.48	122.98	122.92	122.63	122.11	121.63	
8	121.30	121.46	121.32	121.27	121.47	125.59	123.36	123.00	122.90	122.62	122.10	121.63	
9	121.30	121.44	121.32	121.25	121.45	125.05	123.35	123.00	122.89	122.61	122.10	121.64	
10	121.31	121.43	121.35	121.20	121.43	124.22	123.33	123.00	122.87	122.60	122.10	121.64	
11	121.30	121.40	121.35	121.20	121.43	124.05	123.22	123.00	122.86	122.58	122.09	121.65	
12	121.30	121.39	121.50	121.20	121.43	124.23	123.34	123.00	122.85	122.55	122.08	121.64	
13	121.29	121.36	121.72	121.20	121.43	124.17	123.39	123.00	122.84	122.53	122.08	121.60	
14	121.29	121.35	121.71	121.20	121.43	124.13	123.35	123.00	122.83	122.52	122.05	121.59	
15	121.28	121.34	121.70	121.20	121.43	124.00	123.50	123.00	122.82	122.51	122.03	121.58	
16	121.27	121.33	121.65	121.20	121.43	123.83	123.50	123.00	122.81	122.50	122.02	121.57	
17	121.25	121.32	121.63	121.35	121.42	123.88	123.48	123.00	122.80	122.47	121.98	121.56	
18	121.27	121.31	121.62	121.37	121.42	123.99	123.50	123.00	122.79	122.45	121.92	121.55	
19	121.34	121.30	121.60	121.40	121.60	123.99	123.34	123.00	122.78	122.42	122.10	121.54	
20	121.50	121.29	121.57	121.46	121.60	123.99	123.26	123.00	122.77	122.40	121.88	121.55	
21	121.70	121.28	121.57	121.44	121.60	124.46	123.36	123.00	122.76	122.39	121.88	121.55	
22	121.72	121.27	121.56	121.44	121.59	125.32	123.52	123.00	122.75	122.39	121.88	121.54	
23	121.75	121.26	121.50	121.43	121.59	125.62	123.41	123.00	122.74	122.38	121.88	121.52	
24	121.77	121.25	121.48	121.43	121.59	126.00	123.18	123.00	122.73	122.37	121.98	121.53	
25	121.81	121.24	121.46	121.43	121.61	126.15	123.08	123.00	122.72	122.34	121.98	121.51	
26	121.79	121.23	121.44	121.43	121.65	126.15	123.04	123.00	122.71	122.32	121.82	121.51	
27	121.68	121.22	121.42	121.43	121.66	126.09	123.03	123.00	122.71	122.30	121.82	121.51	
28	121.63	121.21	121.39	121.44	121.65	125.96	123.02	123.00	122.70	122.27	121.81	121.49	
29	121.58	121.20	121.37	121.44	121.65	126.05	122.89	123.00	122.70	122.24	121.81	121.48	
30	121.55	121.20	121.36	121.44	121.80	126.27	122.85	123.00	122.69	122.24	121.81	121.48	
31		121.20		121.44	122.01		122.85		122.69	122.24		121.48	
Mean	121.42	121.35	121.44	121.34	121.54	124.74	123.57	122.98	122.82	122.48	122.02	121.59	
Max	121.81	121.53	121.72	121.46	122.01	126.27	126.15	123.00	123.00	122.69	122.23	121.74	126.27
Min	121.21	121.20	121.20	121.20	121.42	122.17	122.85	122.86	122.69	122.24	121.81	121.48	121.20
Annual Max Momentary Gage Height	126.29		m. (MSL.) ,				at 18.00 Hours, on Sep 30, 2019						
Zero Gage at Bottom Elevation	120.90		m. (MSL.) ,			River Bed	120.78	m. (MSL.)					
Left Bank Elevation		132.18	m. (MSL.) ,										
Right Bank Elevation		132.24	m. (MSL.) ,			Drainage Are	4,806	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	129.50	2.60	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	2.30	111.00	2.80	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	10.75	84.00	3.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	41.55	53.80	3.40	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	102.00	31.75	3.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	83.10	21.95	4.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	117.50	18.80	4.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	101.55	14.60	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	77.25	14.25	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	44.70	13.55	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	38.75	9.70	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	45.05	13.90	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	42.95	15.65	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	41.55	14.25	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	37.00	19.50	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	31.05	19.50	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	32.80	18.80	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	36.65	19.50	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	36.65	13.90	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	36.65	11.10	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	53.40	14.60	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	89.40	20.20	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	103.00	16.35	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	122.00	8.60	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	129.50	6.60	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	129.50	5.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	126.50	5.60	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	120.00	5.40	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	124.50	2.90	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	135.50	2.50	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	2093.10	740.05	24.40	0.00	0.00	0.00	0.00	2857.55 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	69.77	23.87	0.81	0.00	0.00	0.00	0.00	7.81 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	135.50	129.50	4.60	0.00	0.00	0.00	0.00	135.50 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	180.84	63.94	2.11	0.00	0.00	0.00	0.00	246.89 MCM
<b>Momentary Peak</b>	136.50 CMS. at 126.29 m. (MSL.) at 18.00 Hours , on Sep 30 , 2019												
<b>Runoff Yield</b>	1.63 Liters/Second/Square KM.			<b>Momentary Peak Yield</b>			28.40 Liters/Second/Square KM.						

## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Dom Yai at Ban Kham Samran, Ubon Ratehathani (M.170)

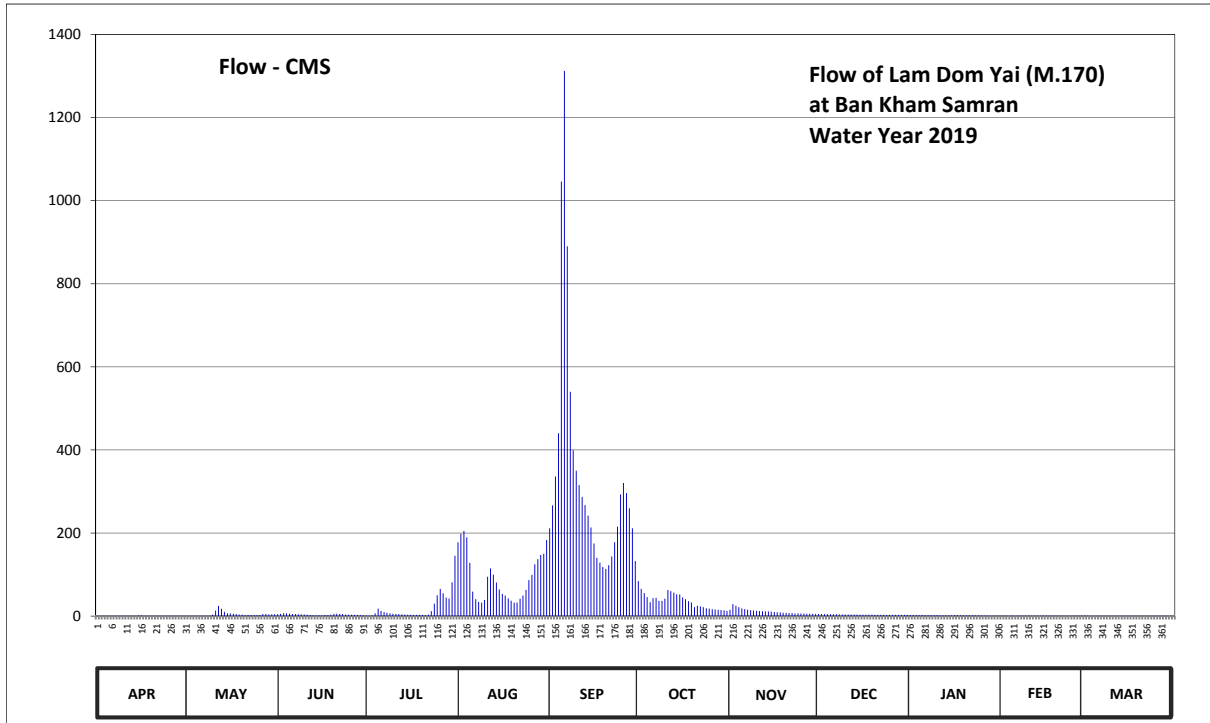
Lat 14 - 47 - 19 N Long 105 - 06 - 10 E

Location : on right bank at the bridge

	<b>Ban</b> Kham Samran	<b>Amphoe</b> Det Udom	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	1,745 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+123.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank upstream at the footpath	<b>Elevation</b>	+133.374 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +133.090 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 53 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.72	123.72	124.15	123.86	129.25	129.81	127.23	124.92	124.22	123.98	123.78	123.78	
2	123.71	123.73	124.23	123.82	129.59	130.57	126.71	125.49	124.20	123.97	123.78	123.77	
3	123.71	123.74	124.38	123.88	129.71	131.23	126.38	125.37	124.18	123.96	123.78	123.76	
4	123.71	123.75	124.37	124.35	129.45	131.78	126.06	125.25	124.17	123.95	123.77	123.75	
5	123.71	123.75	124.28	125.10	128.33	132.93	125.65	125.13	124.17	123.95	123.77	123.74	
6	123.71	123.75	124.20	124.75	126.50	133.29	125.97	125.04	124.17	123.94	123.77	123.73	
7	123.71	123.75	124.19	124.58	125.89	132.70	125.99	124.95	124.15	123.93	123.77	123.72	
8	123.71	123.75	124.15	124.48	125.68	132.05	125.75	124.89	124.12	123.92	123.77	123.72	
9	123.71	123.78	124.14	124.37	125.61	131.61	125.75	124.83	124.10	123.92	123.77	123.71	
10	123.71	124.05	124.09	124.28	125.83	131.33	125.93	124.78	124.10	123.91	123.78	123.71	
11	123.71	124.80	124.04	124.23	127.49	131.07	126.62	124.76	124.09	123.90	123.79	123.71	
12	123.71	125.35	123.98	124.19	127.99	130.80	126.54	124.74	124.08	123.90	123.81	123.70	
13	123.71	125.08	123.93	124.14	127.62	130.58	126.42	124.71	124.07	123.89	123.83	123.70	
14	123.75	124.63	123.90	124.09	127.15	130.26	126.28	124.68	124.07	123.89	123.83	123.70	
15	123.90	124.39	123.88	124.04	126.67	129.84	126.26	124.64	124.06	123.90	123.81	123.69	
16	123.86	124.34	123.90	124.00	126.32	129.21	126.03	124.59	124.06	123.92	123.81	123.69	
17	123.71	124.28	123.97	124.00	126.17	128.60	125.88	124.55	124.05	123.91	123.81	123.68	
18	123.71	124.18	123.98	123.99	125.96	128.34	125.72	124.51	124.04	123.90	123.80	123.68	
19	123.71	124.09	124.05	123.99	125.77	128.08	125.62	124.47	124.03	123.90	123.82	123.68	
20	123.71	124.03	124.23	123.98	125.61	127.96	125.25	124.45	124.02	123.90	123.82	123.67	
21	123.71	123.92	124.29	123.93	125.62	128.19	125.37	124.43	124.01	123.90	123.81	123.67	
22	123.71	123.95	124.24	124.06	125.93	128.67	125.32	124.41	124.00	123.89	123.80	123.66	
23	123.71	123.95	124.18	124.72	126.19	129.26	125.25	124.37	123.99	123.89	123.80	123.66	
24	123.71	123.95	124.07	125.54	126.64	129.87	125.15	124.34	123.98	123.88	123.79	123.66	
25	123.71	123.93	124.06	126.20	127.29	130.86	125.10	124.33	123.99	123.86	123.79	123.66	
26	123.71	123.97	124.04	126.71	127.61	131.11	125.03	124.31	124.00	123.84	123.79	123.66	
27	123.71	124.18	123.99	126.37	128.24	130.89	124.98	124.29	124.00	123.82	123.79	123.66	
28	123.71	124.23	123.95	126.02	128.54	130.48	124.93	124.28	124.01	123.81	123.78	123.65	
29	123.71	124.10	123.91	125.94	128.74	129.81	124.91	124.26	124.00	123.80	123.78	123.65	
30	123.71	124.13	123.90	127.16	128.80	128.44	124.86	124.25	124.02	123.79	123.77	123.65	
31		124.17		128.70	129.35		124.75		124.00	123.78		123.65	
Mean	123.72	124.11	124.09	124.82	127.28	130.32	125.73	124.67	124.07	123.89	123.79	123.69	
Max	123.90	125.35	124.38	128.70	129.71	133.29	127.23	125.49	124.22	123.98	123.83	123.78	133.29
Min	123.71	123.72	123.88	123.82	125.61	127.96	124.75	124.25	123.98	123.78	123.77	123.65	123.65
Annual Max Momentary Gage Height	133.35		m. (MSL.) ,				at 06.00 Hours, on Sep 6, 2019						
Zero Gage at Bottom Elevation	123.30		m. (MSL.) ,			River Bed	122.69	m. (MSL.)					
Left Bank Elevation		133.08		m. (MSL.) ,									
Right Bank Elevation		133.10		m. (MSL.) ,		Drainage Are	1,745	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.84	0.84	4.50	1.60	177.38	211.44	84.20	14.80	5.20	2.80	0.96	0.96		
2	0.82	0.86	5.30	1.20	198.06	266.60	65.30	28.70	5.00	2.70	0.96	0.94		
3	0.82	0.88	6.80	1.80	205.36	336.20	55.40	25.10	4.80	2.60	0.96	0.92		
4	0.82	0.90	6.70	6.50	189.54	440.20	45.80	21.50	4.70	2.50	0.94	0.90		
5	0.82	0.90	5.80	18.00	128.20	1046.00	33.50	18.60	4.70	2.50	0.94	0.88		
6	0.82	0.90	5.00	12.25	59.00	1312.50	43.10	16.80	4.70	2.40	0.94	0.86		
7	0.82	0.90	4.90	9.70	40.70	890.00	43.70	15.25	4.50	2.30	0.94	0.84		
8	0.82	0.90	4.50	8.20	34.40	540.00	36.50	14.35	4.20	2.20	0.94	0.84		
9	0.82	0.96	4.40	6.70	32.30	399.40	36.50	13.45	4.00	2.20	0.94	0.82		
10	0.82	3.50	3.90	5.80	38.90	350.20	41.90	12.70	4.00	2.10	0.96	0.82		
11	0.82	13.00	3.40	5.30	94.60	315.40	62.60	12.40	3.90	2.00	0.98	0.82		
12	0.82	24.50	2.80	4.90	114.60	287.00	60.20	12.10	3.80	2.00	1.10	0.80		
13	0.82	17.60	2.30	4.40	99.80	267.40	56.60	11.65	3.70	1.90	1.30	0.80		
14	0.90	10.45	2.00	3.90	81.00	241.80	52.40	11.20	3.70	1.90	1.30	0.80		
15	2.00	6.90	1.80	3.40	64.10	213.27	51.80	10.60	3.60	2.00	1.10	0.78		
16	1.60	6.40	2.00	3.00	53.60	174.94	44.90	9.85	3.60	2.20	1.10	0.78		
17	0.82	5.80	2.70	3.00	49.10	140.00	40.40	9.25	3.50	2.10	1.10	0.76		
18	0.82	4.80	2.80	2.90	42.80	128.60	35.60	8.65	3.40	2.00	1.00	0.76		
19	0.82	3.90	3.50	2.90	37.10	118.20	32.60	8.05	3.30	2.00	1.20	0.76		
20	0.82	3.30	5.30	2.80	32.30	113.40	21.50	7.75	3.20	2.00	1.20	0.74		
21	0.82	2.20	5.90	2.30	32.60	122.60	25.10	7.45	3.10	2.00	1.10	0.74		
22	0.82	2.50	5.40	3.60	41.90	143.50	23.60	7.15	3.00	1.90	1.00	0.72		
23	0.82	2.50	4.80	11.80	49.70	177.98	21.50	6.70	2.90	1.90	1.00	0.72		
24	0.82	2.50	3.70	30.20	63.20	215.09	19.00	6.40	2.80	1.80	0.98	0.72		
25	0.82	2.30	3.60	50.00	86.60	293.00	18.00	6.30	2.90	1.60	0.98	0.72		
26	0.82	2.70	3.40	65.30	99.40	320.30	16.60	6.10	3.00	1.40	0.98	0.72		
27	0.82	4.80	2.90	55.10	124.60	296.00	15.70	5.90	3.00	1.20	0.98	0.72		
28	0.82	5.30	2.50	44.60	137.00	259.40	14.95	5.80	3.10	1.10	0.96	0.70		
29	0.82	4.00	2.10	42.20	147.00	211.44	14.65	5.60	3.00	1.00	0.96	0.70		
30	0.82	4.30	2.00	81.40	150.00	132.60	13.90	5.50	3.20	0.98		0.70		
31		4.70		145.00	183.46		12.25		3.00	0.96		0.70		
Total	26.66	145.99	116.70	639.75	2888.30	9964.46	1139.75	345.65	114.50	60.24	29.80	24.44	15496.24	CMSDAY
Mean	0.89	4.71	3.89	20.64	93.17	332.15	36.77	11.52	3.69	1.94	1.03	0.79	42.34	CMS
Max	2.00	24.50	6.80	145.00	205.36	1312.50	84.20	28.70	5.20	2.80	1.30	0.96	1312.50	CMS
Min	0.82	0.84	1.80	1.20	32.30	113.40	12.25	5.50	2.80	0.96	0.94	0.70	0.70	CMS
Runoff	2.30	12.61	10.08	55.27	249.55	860.93	98.47	29.86	9.89	5.20	2.57	2.11	1338.88	MCM
Momentary Peak	1357.50	CMS. at 133.35 m. (MSL.) at 06.00 Hours , on Sep 6 , 2019												
Runoff Yield	24.33	Liters/Second/Square KM.		Momentary Peak Yield			777.94	Liters/Second/Square KM.						



## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima (M.171)

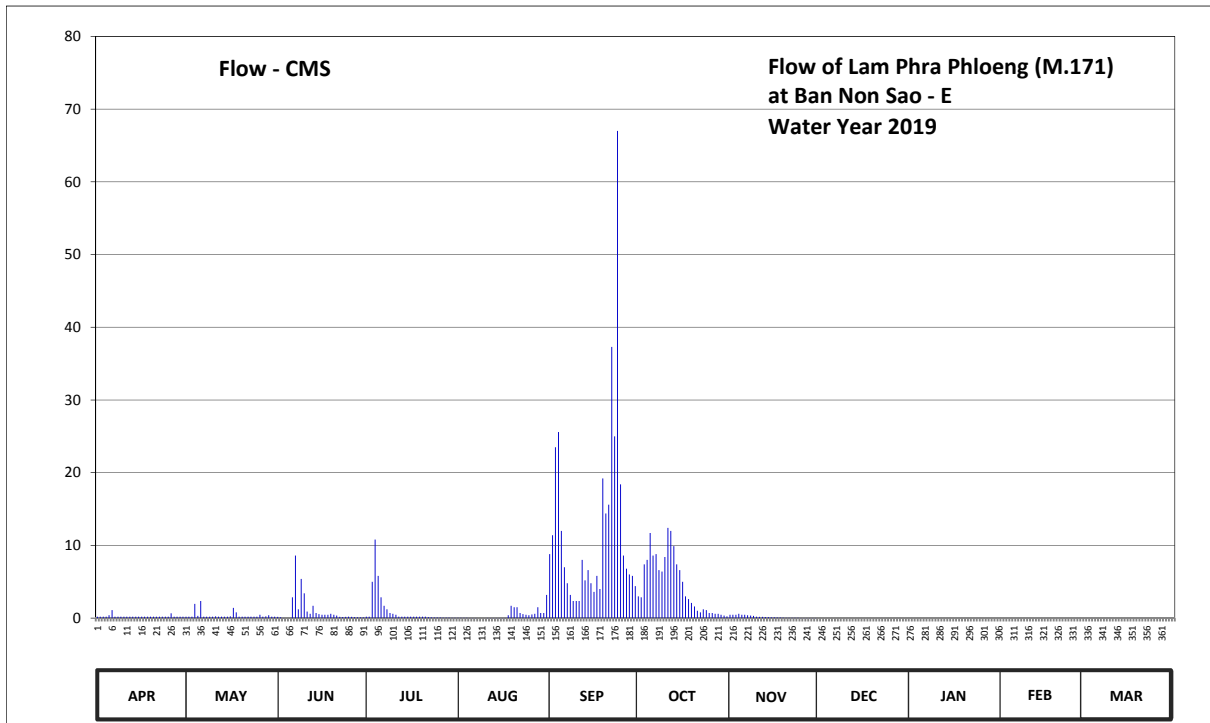
Lat 14 - 29 - 58 N Long 101 - 46 - 22 E

Location : on right bank at Ban Non Sao - E.

	<b>Ban</b>	<b>Non Sao - E</b>	<b>Amphoe</b>	<b>Wang Nam Khieo</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	554	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+272.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank downstream at the footpath				<b>Elevation</b>	+280.170 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2002 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2002 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2002 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	272.70	272.70	272.68	272.70	272.50	273.29	273.00	272.75	272.40	272.25	272.11	272.11	
2	272.70	272.70	272.59	272.70	272.49	273.38	272.99	272.75	272.39	272.25	272.11	272.11	
3	272.70	272.70	272.45	273.10	272.48	273.67	273.22	272.75	272.38	272.25	272.11	272.11	
4	272.70	272.92	272.40	273.36	272.47	273.71	273.25	272.78	272.38	272.25	272.11	272.11	
5	272.74	272.72	272.40	273.14	272.45	273.40	273.39	272.75	272.38	272.25	272.11	272.11	
6	272.84	272.95	272.99	272.99	272.43	273.20	273.28	272.75	272.38	272.23	272.11	272.11	
7	272.70	272.70	273.28	272.90	272.41	273.09	273.29	272.74	272.37	272.23	272.11	272.11	
8	272.70	272.70	272.85	272.85	272.40	273.01	273.18	272.73	272.36	272.23	272.11	272.11	
9	272.70	272.70	273.12	272.80	272.40	272.95	273.17	272.72	272.36	272.22	272.11	272.11	
10	272.70	272.70	273.02	272.78	272.40	272.95	273.27	272.69	272.36	272.22	272.11	272.11	
11	272.70	272.71	272.82	272.75	272.41	272.95	273.41	272.68	272.36	272.22	272.11	272.11	
12	272.70	272.70	272.78	272.70	272.44	273.25	273.40	272.68	272.35	272.22	272.11	272.11	
13	272.70	272.70	272.90	272.70	272.45	273.11	273.33	272.65	272.35	272.22	272.11	272.11	
14	272.70	272.70	272.80	272.70	272.45	273.18	273.22	272.62	272.35	272.22	272.11	272.11	
15	272.70	272.70	272.77	272.70	272.45	273.09	273.18	272.60	272.34	272.21	272.11	272.11	
16	272.70	272.71	272.75	272.70	272.45	273.03	273.10	272.60	272.34	272.20	272.11	272.11	
17	272.70	272.87	272.75	272.70	272.45	273.14	273.00	272.58	272.34	272.19	272.11	272.11	
18	272.70	272.81	272.75	272.70	272.74	273.05	272.97	272.55	272.33	272.18	272.11	272.11	
19	272.70	272.70	272.78	272.70	272.90	273.58	272.93	272.52	272.32	272.18	272.11	272.11	
20	272.70	272.70	272.75	272.70	272.88	273.46	272.89	272.50	272.32	272.17	272.11	272.11	
21	272.70	272.70	272.73	272.69	272.88	273.49	272.83	272.50	272.31	272.16	272.11	272.11	
22	272.70	272.70	272.68	272.64	272.80	273.89	272.81	272.48	272.30	272.16	272.11	272.11	
23	272.70	272.70	272.65	272.59	272.77	273.70	272.85	272.48	272.30	272.15	272.11	272.11	
24	272.70	272.70	272.67	272.57	272.75	274.20	272.84	272.48	272.29	272.14	272.11	272.11	
25	272.70	272.70	272.60	272.56	272.74	273.56	272.80	272.45	272.29	272.14	272.11	272.11	
26	272.79	272.75	272.68	272.55	272.76	273.28	272.80	272.45	272.28	272.13	272.11	272.11	
27	272.70	272.70	272.63	272.54	272.78	273.19	272.78	272.45	272.28	272.13	272.11	272.11	
28	272.70	272.71	272.60	272.53	272.88	273.15	272.78	272.44	272.28	272.12	272.11	272.11	
29	272.70	272.74	272.60	272.52	272.80	273.14	272.75	272.43	272.28	272.12	272.11	272.11	
30	272.70	272.70	272.60	272.50	272.80	273.07	272.73	272.41	272.28	272.11	272.11	272.11	
31		272.70		272.50	273.01		272.71		272.28	272.11		272.11	
Mean	272.71	272.73	272.74	272.73	272.61	273.31	273.04	272.60	272.33	272.19	272.11	272.11	
Max	272.84	272.95	273.28	273.36	273.01	274.20	273.41	272.78	272.40	272.25	272.11	272.11	274.20
Min	272.70	272.70	272.40	272.50	272.40	272.95	272.71	272.41	272.28	272.11	272.11	272.11	272.11
Annual Max Momentary Gage Height	274.65		m. (MSL.) ,				at 06.00 Hours, on Sep 24, 2019						
Zero Gage at Bottom Elevation	272.20		m. (MSL.) ,			River Bed	272.12	m. (MSL.)					
Left Bank Elevation		279.88		m. (MSL.) ,									
Right Bank Elevation		279.93		m. (MSL.) ,		Drainage Are	554	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.20	0.18	0.20	0.05	8.80	3.00	0.45	0.00	0.00	0.00	0.00	
2	0.20	0.20	0.10	0.20	0.05	11.40	2.87	0.45	0.00	0.00	0.00	0.00	
3	0.20	0.20	0.03	5.00	0.04	23.50	7.40	0.45	0.00	0.00	0.00	0.00	
4	0.20	1.96	0.00	10.80	0.04	25.60	8.00	0.60	0.00	0.00	0.00	0.00	
5	0.40	0.30	0.00	5.80	0.03	12.00	11.70	0.45	0.00	0.00	0.00	0.00	
6	1.10	2.35	2.87	2.87	0.02	7.00	8.60	0.45	0.00	0.00	0.00	0.00	
7	0.20	0.20	8.60	1.70	0.01	4.80	8.80	0.40	0.00	0.00	0.00	0.00	
8	0.20	0.20	1.20	1.20	0.00	3.20	6.60	0.35	0.00	0.00	0.00	0.00	
9	0.20	0.20	5.40	0.70	0.00	2.35	6.40	0.30	0.00	0.00	0.00	0.00	
10	0.20	0.20	3.40	0.60	0.00	2.35	8.40	0.19	0.00	0.00	0.00	0.00	
11	0.20	0.25	0.90	0.45	0.01	2.35	12.40	0.18	0.00	0.00	0.00	0.00	
12	0.20	0.20	0.60	0.20	0.02	8.00	12.00	0.18	0.00	0.00	0.00	0.00	
13	0.20	0.20	1.70	0.20	0.03	5.20	9.90	0.15	0.00	0.00	0.00	0.00	
14	0.20	0.20	0.70	0.20	0.03	6.60	7.40	0.12	0.00	0.00	0.00	0.00	
15	0.20	0.20	0.55	0.20	0.03	4.80	6.60	0.10	0.00	0.00	0.00	0.00	
16	0.20	0.25	0.45	0.20	0.03	3.60	5.00	0.10	0.00	0.00	0.00	0.00	
17	0.20	1.40	0.45	0.20	0.03	5.80	3.00	0.09	0.00	0.00	0.00	0.00	
18	0.20	0.80	0.45	0.20	0.40	4.00	2.61	0.08	0.00	0.00	0.00	0.00	
19	0.20	0.20	0.60	0.20	1.70	19.20	2.09	0.06	0.00	0.00	0.00	0.00	
20	0.20	0.20	0.45	0.20	1.50	14.40	1.60	0.05	0.00	0.00	0.00	0.00	
21	0.20	0.20	0.35	0.19	1.50	15.60	1.00	0.05	0.00	0.00	0.00	0.00	
22	0.20	0.20	0.18	0.14	0.70	37.30	0.80	0.04	0.00	0.00	0.00	0.00	
23	0.20	0.20	0.15	0.10	0.55	25.00	1.20	0.04	0.00	0.00	0.00	0.00	
24	0.20	0.20	0.17	0.09	0.45	67.00	1.10	0.04	0.00	0.00	0.00	0.00	
25	0.20	0.20	0.20	0.08	0.40	18.40	0.70	0.03	0.00	0.00	0.00	0.00	
26	0.65	0.45	0.18	0.08	0.50	8.60	0.70	0.03	0.00	0.00	0.00	0.00	
27	0.20	0.20	0.13	0.07	0.60	6.80	0.60	0.03	0.00	0.00	0.00	0.00	
28	0.20	0.25	0.10	0.07	1.50	6.00	0.60	0.02	0.00	0.00	0.00	0.00	
29	0.20	0.40	0.10	0.06	0.70	5.80	0.45	0.02	0.00	0.00	0.00	0.00	
30	0.20	0.20	0.10	0.05	0.70	4.40	0.35	0.01	0.00	0.00	0.00	0.00	
31		0.20		0.05	3.20		0.25		0.00	0.00		0.00	
<b>Total</b>	7.55	12.61	30.29	32.30	14.82	369.85	142.12	5.51	0.00	0.00	0.00	0.00	615.05 CMSDAY
<b>Mean</b>	0.25	0.41	1.01	1.04	0.48	12.33	4.58	0.18	0.00	0.00	0.00	0.00	1.68 CMS
<b>Max</b>	1.10	2.35	8.60	10.80	3.20	67.00	12.40	0.60	0.00	0.00	0.00	0.00	67.00 CMS
<b>Min</b>	0.20	0.20	0.00	0.05	0.00	2.35	0.25	0.01	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.65	1.09	2.62	2.79	1.28	31.96	12.28	0.48	0.00	0.00	0.00	0.00	53.14 MCM
<b>Momentary Peak</b>	112.50 CMS. at 274.65 m. (MSL.) at 06.00 Hours , on Sep 24, 2019												
<b>Runoff Yield</b>	3.05 Liters/Second/Square KM.			Momentary Peak Yield			203.44 Liters/Second/Square KM.						

## WATER YEAR : 2019

## 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.

<b>Ban</b>	Non Sao - E	<b>Amphoe</b>	Wang Nam Khieo	<b>Changwat</b>	Nakhon Ratchasima
<b>Drainage Area</b>	143	sq.km.			
<b>Type of Gage</b>	Staff gage.				
<b>Zero Gage at Bottom</b>	+293.200 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank downstream side at the footpath of the bridge.			<b>Elevation</b>	+299.100 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings				
<b>Period of Available Gage Records</b>	2003 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2003 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	2003 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.20	293.19	292.90	293.24	293.11	293.75	293.46	293.25	293.10	292.90	292.90	292.90	
2	293.20	293.19	292.90	293.47	293.09	293.63	293.50	293.26	293.10	292.90	292.90	292.90	
3	293.20	293.18	292.90	293.87	293.04	293.93	293.50	293.27	293.09	292.90	292.90	292.90	
4	293.21	293.17	292.95	293.66	293.02	293.93	293.54	293.28	293.09	292.90	292.90	292.90	
5	293.26	293.16	293.15	293.57	292.97	293.62	293.60	293.28	293.08	292.90	292.90	292.90	
6	293.38	293.15	293.40	293.51	292.94	293.52	293.54	293.30	293.08	292.90	292.90	292.90	
7	293.39	293.14	293.38	293.50	292.92	293.44	293.55	293.30	293.07	292.90	292.90	292.90	
8	293.39	293.13	293.36	293.48	292.90	293.41	293.58	293.30	293.07	292.90	292.90	292.90	
9	293.40	293.12	293.34	293.45	292.90	293.40	293.54	293.29	293.07	292.90	292.90	292.90	
10	293.37	293.11	293.33	293.39	292.90	293.42	293.51	293.29	293.06	292.90	292.90	292.90	
11	293.27	293.10	293.34	293.35	292.90	293.58	293.58	293.27	293.05	292.90	292.90	292.90	
12	293.26	293.09	293.32	293.35	292.90	293.74	293.50	293.26	293.05	292.90	292.90	292.90	
13	293.24	293.08	293.32	293.34	292.90	293.58	293.60	293.25	293.04	292.90	292.90	292.90	
14	293.23	293.07	293.29	293.33	292.90	293.60	293.58	293.23	293.04	292.90	292.90	292.90	
15	293.21	293.06	293.24	293.31	292.90	293.58	293.50	293.23	293.04	292.90	292.90	292.90	
16	293.21	293.05	293.21	293.29	292.90	293.57	293.49	293.22	293.04	292.90	292.90	292.90	
17	293.20	293.04	293.21	293.27	292.95	293.56	293.44	293.21	293.04	292.90	292.90	292.90	
18	293.20	293.03	293.20	293.25	293.19	293.53	293.43	293.20	293.03	292.90	292.90	292.90	
19	293.20	293.02	293.20	293.23	293.24	293.82	293.41	293.20	293.02	292.90	292.90	292.90	
20	293.20	293.01	293.18	293.23	293.25	293.72	293.39	293.20	293.01	292.90	292.90	292.90	
21	293.20	293.00	293.22	293.21	293.24	293.74	293.38	293.19	292.99	292.90	292.90	292.90	
22	293.20	292.99	293.36	293.20	293.24	294.06	293.35	293.19	292.98	292.90	292.90	292.90	
23	293.20	292.98	293.37	293.19	293.23	293.93	293.35	293.18	292.95	292.90	292.90	292.90	
24	293.20	292.97	293.35	293.18	293.24	294.26	293.34	293.17	292.93	292.90	292.90	292.90	
25	293.20	292.96	293.34	293.17	293.25	293.70	293.34	293.15	292.91	292.90	292.90	292.90	
26	293.20	292.95	293.33	293.16	293.27	293.58	293.33	293.14	292.90	292.90	292.90	292.90	
27	293.20	292.94	293.32	293.15	293.30	293.54	293.33	293.12	292.90	292.90	292.90	292.90	
28	293.20	292.93	293.29	293.14	293.33	293.48	293.32	293.11	292.90	292.90	292.90	292.90	
29	293.20	292.92	293.26	293.13	293.33	293.45	293.31	293.10	292.90	292.90	292.90	292.90	
30	293.20	292.91	293.24	293.12	293.35	293.45	293.30	293.10	292.90	292.90	292.90	292.90	
31		292.90		293.11	293.49		293.29		292.90	292.90		292.90	
Mean	293.24	293.05	293.24	293.32	293.10	293.65	293.45	293.22	293.01	292.90	292.90	292.90	
Max	293.40	293.19	293.40	293.87	293.49	294.26	293.60	293.30	293.10	292.90	292.90	292.90	294.26
Min	293.20	292.90	292.90	293.11	292.90	293.40	293.29	293.10	292.90	292.90	292.90	292.90	292.90
Annual Max Momentary Gage Height	294.46		m. (MSL.) ,				at 06.00 Hours, on Sep 24, 2019						
Zero Gage at Bottom Elevation	293.20		m. (MSL.) ,			River Bed	292.78	m. (MSL.)					
Left Bank Elevation		299.09		m. (MSL.) ,									
Right Bank Elevation		299.10		m. (MSL.) ,		Drainage Are	143	Square Kilometers					



## WATER YEAR : 2019

## MUN RIVER BASIN

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

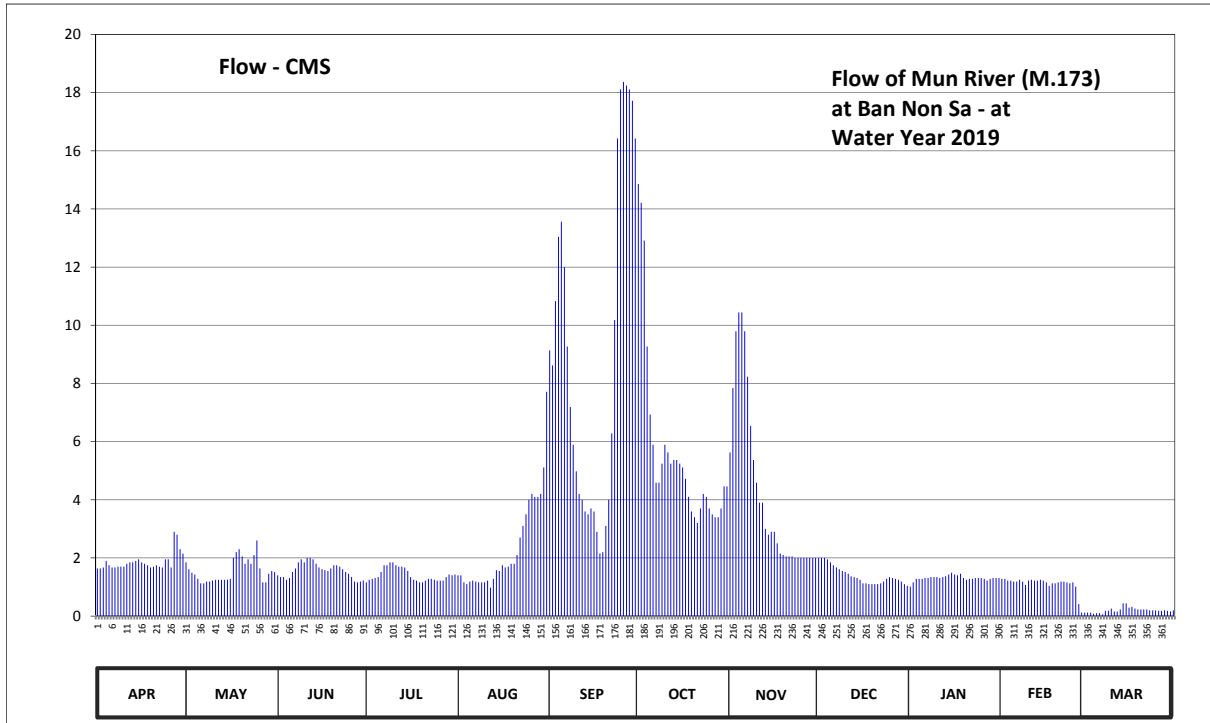
Lat 14 - 44 - 37 N Long 102 - 12 - 54 E

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

	<b>Ban Non Sa - at</b>	<b>Amphoe Chok Chai</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	4,211 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+174.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+183.858 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.38	176.43	176.30	176.22	176.30	177.08	177.52	176.81	176.46	176.17	176.26	175.86	
2	176.38	176.37	176.28	176.25	176.30	177.04	177.47	176.98	176.46	176.22	176.26	175.86	
3	176.39	176.33	176.28	176.26	176.22	177.21	177.37	177.13	176.46	176.26	176.24	175.86	
4	176.44	176.31	176.25	176.27	176.20	177.38	177.09	177.18	176.45	176.26	176.24	175.84	
5	176.41	176.26	176.27	176.28	176.23	177.42	176.91	177.18	176.43	176.26	176.23	175.85	
6	176.39	176.21	176.34	176.34	176.24	177.30	176.83	177.13	176.41	176.27	176.23	175.85	
7	176.39	176.21	176.38	176.41	176.23	177.09	176.73	177.01	176.39	176.27	176.25	175.83	
8	176.40	176.23	176.43	176.41	176.22	176.93	176.73	176.88	176.37	176.28	176.23	175.89	
9	176.40	176.23	176.45	176.43	176.22	176.83	176.78	176.79	176.35	176.28	176.19	175.89	
10	176.40	176.24	176.43	176.43	176.22	176.76	176.83	176.73	176.34	176.28	176.24	175.92	
11	176.42	176.25	176.46	176.41	176.24	176.70	176.81	176.67	176.32	176.27	176.25	175.88	
12	176.43	176.25	176.46	176.40	176.16	176.68	176.78	176.67	176.29	176.28	176.24	175.88	
13	176.43	176.25	176.45	176.40	176.26	176.64	176.79	176.58	176.28	176.29	176.24	175.91	
14	176.44	176.25	176.42	176.39	176.36	176.63	176.79	176.56	176.27	176.31	176.25	175.98	
15	176.45	176.25	176.39	176.35	176.35	176.65	176.78	176.57	176.25	176.33	176.24	175.98	
16	176.43	176.26	176.37	176.28	176.41	176.64	176.77	176.57	176.21	176.31	176.22	175.93	
17	176.42	176.46	176.36	176.25	176.39	176.57	176.74	176.53	176.21	176.30	176.18	175.94	
18	176.41	176.50	176.35	176.24	176.40	176.49	176.69	176.49	176.20	176.32	176.21	175.92	
19	176.39	176.51	176.38	176.22	176.42	176.50	176.64	176.48	176.20	176.27	176.21	175.91	
20	176.40	176.47	176.41	176.22	176.42	176.59	176.62	176.47	176.20	176.25	176.22	175.91	
21	176.41	176.42	176.41	176.24	176.48	176.68	176.60	176.47	176.20	176.26	176.23	175.91	
22	176.40	176.45	176.40	176.26	176.55	176.86	176.65	176.47	176.21	176.26	176.23	175.91	
23	176.39	176.42	176.37	176.26	176.59	177.16	176.70	176.46	176.23	176.27	176.22	175.90	
24	176.45	176.48	176.34	176.25	176.63	177.64	176.69	176.46	176.26	176.27	176.21	175.90	
25	176.45	176.54	176.32	176.24	176.68	177.77	176.65	176.46	176.28	176.27	176.22	175.90	
26	176.39	176.38	176.28	176.24	176.70	177.79	176.63	176.46	176.27	176.26	176.17	175.89	
27	176.57	176.22	176.23	176.24	176.69	177.78	176.62	176.46	176.26	176.24	175.97	175.89	
28	176.56	176.22	176.22	176.28	176.69	177.77	176.62	176.46	176.25	176.26	175.86	175.90	
29	176.51	176.32	176.23	176.31	176.70	177.74	176.65	176.46	176.23	176.27	175.86	175.89	
30	176.49	176.35	176.24	176.30	176.77	177.64	176.72	176.46	176.20	176.27	176.27	175.88	
31		176.34		176.31	176.97		176.72		176.18	176.27		175.90	
Mean	176.43	176.34	176.35	176.30	176.43	177.07	176.80	176.67	176.29	176.27	176.19	175.90	
Max	176.57	176.54	176.46	176.43	176.97	177.79	177.52	177.18	176.46	176.33	176.26	175.98	177.79
Min	176.38	176.21	176.22	176.22	176.16	176.49	176.60	176.46	176.18	176.17	175.86	175.83	175.83
Annual Max Momentary Gage Height	177.81												
Zero Gage at Bottom Elevation	174.80						175.43						
Left Bank Elevation		183.90											
Right Bank Elevation		183.89											
Drainage Area						4,211							



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.64	1.85	1.40	1.16	1.40	9.14	14.86	5.63	2.00	1.01	1.28	0.12	
2	1.64	1.61	1.34	1.25	1.40	8.62	14.21	7.84	2.00	1.16	1.28	0.12	
3	1.67	1.49	1.34	1.28	1.16	10.83	12.91	9.79	2.00	1.28	1.22	0.12	
4	1.90	1.43	1.25	1.31	1.10	13.04	9.27	10.44	1.95	1.28	1.22	0.08	
5	1.75	1.28	1.31	1.34	1.19	13.56	6.93	10.44	1.85	1.28	1.19	0.10	
6	1.67	1.13	1.52	1.52	1.22	12.00	5.89	9.79	1.75	1.31	1.19	0.10	
7	1.67	1.13	1.64	1.75	1.19	9.27	4.59	8.23	1.67	1.31	1.25	0.06	
8	1.70	1.19	1.85	1.75	1.16	7.19	4.59	6.54	1.61	1.34	1.19	0.18	
9	1.70	1.19	1.95	1.85	1.16	5.89	5.24	5.37	1.55	1.34	1.07	0.18	
10	1.70	1.22	1.85	1.85	1.16	4.98	5.89	4.59	1.52	1.34	1.22	0.26	
11	1.80	1.25	2.00	1.75	1.22	4.20	5.63	3.90	1.46	1.31	1.25	0.16	
12	1.85	1.25	2.00	1.70	0.98	4.00	5.24	3.90	1.37	1.34	1.22	0.16	
13	1.85	1.25	1.95	1.70	1.28	3.60	5.37	3.00	1.34	1.37	1.22	0.23	
14	1.90	1.25	1.80	1.67	1.58	3.50	5.37	2.80	1.31	1.43	1.25	0.44	
15	1.95	1.25	1.67	1.55	1.55	3.70	5.24	2.90	1.25	1.49	1.22	0.44	
16	1.85	1.28	1.61	1.34	1.75	3.60	5.11	2.90	1.13	1.43	1.16	0.29	
17	1.80	2.00	1.58	1.25	1.67	2.90	4.72	2.50	1.13	1.40	1.04	0.32	
18	1.75	2.20	1.55	1.22	1.70	2.15	4.10	2.15	1.10	1.46	1.13	0.26	
19	1.67	2.30	1.64	1.16	1.80	2.20	3.60	2.10	1.10	1.31	1.13	0.23	
20	1.70	2.05	1.75	1.16	1.80	3.10	3.40	2.05	1.10	1.25	1.16	0.23	
21	1.75	1.80	1.75	1.22	2.10	4.00	3.20	2.05	1.10	1.28	1.19	0.23	
22	1.70	1.95	1.70	1.28	2.70	6.28	3.70	2.05	1.13	1.28	1.19	0.23	
23	1.67	1.80	1.61	1.28	3.10	10.18	4.20	2.00	1.19	1.31	1.16	0.20	
24	1.95	2.10	1.52	1.25	3.50	16.42	4.10	2.00	1.28	1.31	1.13	0.20	
25	1.95	2.60	1.46	1.22	4.00	18.11	3.70	2.00	1.34	1.31	1.16	0.20	
26	1.67	1.64	1.34	1.22	4.20	18.37	3.50	2.00	1.31	1.28	1.01	0.18	
27	2.90	1.16	1.19	1.22	4.10	18.24	3.40	2.00	1.28	1.22	0.41	0.18	
28	2.80	1.16	1.16	1.34	4.10	18.11	3.40	2.00	1.25	1.28	0.12	0.20	
29	2.30	1.46	1.19	1.43	4.20	17.72	3.70	2.00	1.19	1.31	0.12	0.18	
30	2.15	1.55	1.22	1.40	5.11	16.42	4.46	2.00	1.10	1.31		0.16	
31		1.52		1.43	7.71		4.46		1.04	1.31		0.20	
<b>Total</b>	<b>56.00</b>	<b>48.34</b>	<b>47.14</b>	<b>43.85</b>	<b>72.29</b>	<b>271.32</b>	<b>173.98</b>	<b>126.96</b>	<b>43.40</b>	<b>40.64</b>	<b>31.38</b>	<b>6.24</b>	<b>961.54</b> CMSDAY
<b>Mean</b>	<b>1.87</b>	<b>1.56</b>	<b>1.57</b>	<b>1.41</b>	<b>2.33</b>	<b>9.04</b>	<b>5.61</b>	<b>4.23</b>	<b>1.40</b>	<b>1.31</b>	<b>1.08</b>	<b>0.20</b>	<b>2.63</b> CMS
<b>Max</b>	<b>2.90</b>	<b>2.60</b>	<b>2.00</b>	<b>1.85</b>	<b>7.71</b>	<b>18.37</b>	<b>14.86</b>	<b>10.44</b>	<b>2.00</b>	<b>1.49</b>	<b>1.28</b>	<b>0.44</b>	<b>18.37</b> CMS
<b>Min</b>	<b>1.64</b>	<b>1.13</b>	<b>1.16</b>	<b>1.16</b>	<b>0.98</b>	<b>2.15</b>	<b>3.20</b>	<b>2.00</b>	<b>1.04</b>	<b>1.01</b>	<b>0.12</b>	<b>0.06</b>	<b>0.06</b> CMS
<b>Runoff</b>	<b>4.84</b>	<b>4.18</b>	<b>4.07</b>	<b>3.79</b>	<b>6.25</b>	<b>23.44</b>	<b>15.03</b>	<b>10.97</b>	<b>3.75</b>	<b>3.51</b>	<b>2.71</b>	<b>0.54</b>	<b>83.08</b> MCM
<b>Momentary Peak</b>	<b>18.63 CMS. at 177.81 m. (MSL.) at 03.00 Hours , on Sep 26 , 2019</b>												
<b>Runoff Yield</b>	<b>0.63 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>4.42 Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## MUN RIVER BASIN

## Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)

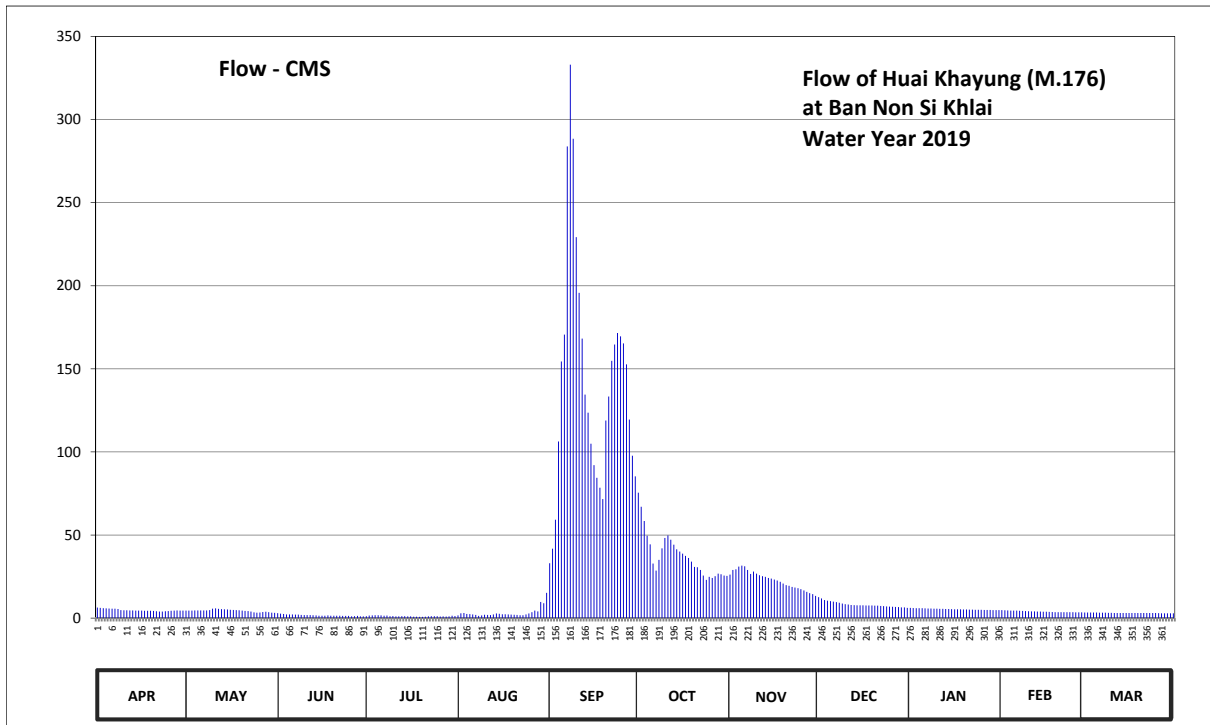
Lat 15 - 00 - 18 N Long 104 - 38 - 14 E

Location : on left bank at Ban Non Si Khlai.

	<b>Ban</b>	<b>Non Si Khlai</b>	<b>Amphoe</b>	<b>Kanthararom</b>	<b>Changwat</b>	<b>Si Sa Ket</b>
<b>Drainage Area</b>	3,131	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+110.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the footpath of the bridge.				<b>Elevation</b>	+124.131 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2003 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 54 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.03	111.63	111.18	110.59	110.75	113.60	115.64	113.26	112.58	112.02	111.69	111.32	
2	112.02	111.63	111.09	110.72	111.17	114.04	115.30	113.40	112.54	112.01	111.68	111.32	
3	112.00	111.63	111.02	110.75	111.21	114.91	114.87	113.42	112.49	112.00	111.66	111.32	
4	111.97	111.65	110.95	110.77	111.04	116.87	114.43	113.50	112.45	112.00	111.64	111.31	
5	111.94	111.65	110.95	110.76	110.99	118.47	114.17	113.53	112.42	111.98	111.62	111.31	
6	111.92	111.66	110.94	110.73	110.94	118.93	113.59	113.51	112.39	111.97	111.62	111.30	
7	111.92	111.65	110.90	110.67	110.85	120.63	113.38	113.40	112.36	111.95	111.61	111.30	
8	111.87	111.65	110.89	110.70	110.65	121.13	113.70	113.28	112.32	111.94	111.59	111.29	
9	111.70	111.70	110.85	110.59	110.73	120.84	114.05	113.35	112.28	111.93	111.56	111.27	
10	111.68	111.91	110.82	110.60	110.88	120.54	114.36	113.29	112.24	111.92	111.54	111.25	
11	111.67	111.96	110.82	110.55	110.83	120.23	114.44	113.24	112.22	111.90	111.51	111.24	
12	111.66	111.90	110.80	110.55	110.81	119.82	114.31	113.21	112.19	111.89	111.51	111.24	
13	111.65	111.85	110.76	110.58	110.92	119.25	114.16	113.19	112.18	111.87	111.48	111.23	
14	111.63	111.81	110.74	110.57	111.12	118.99	114.02	113.16	112.17	111.86	111.48	111.22	
15	111.62	111.79	110.69	110.54	111.06	118.43	113.95	113.14	112.17	111.85	111.47	111.22	
16	111.63	111.75	110.68	110.54	110.97	118.00	113.89	113.11	112.17	111.83	111.45	111.22	
17	111.61	111.73	110.67	110.50	110.96	117.69	113.82	113.08	112.16	111.82	111.44	111.22	
18	111.60	111.70	110.74	110.49	110.92	117.45	113.76	113.04	112.16	111.81	111.42	111.22	
19	111.60	111.68	110.69	110.47	110.89	117.17	113.65	112.99	112.16	111.80	111.39	111.22	
20	111.57	111.64	110.67	110.47	110.86	117.33	113.49	112.94	112.15	111.79	111.39	111.22	
21	111.53	111.58	110.68	110.49	110.83	117.81	113.48	112.92	112.15	111.78	111.39	111.22	
22	111.49	111.56	110.67	110.55	110.76	118.48	113.40	112.89	112.13	111.77	111.38	111.21	
23	111.48	111.49	110.66	110.57	110.78	118.76	113.23	112.87	112.12	111.76	111.38	111.21	
24	111.54	111.34	110.65	110.59	110.95	118.96	113.10	112.85	112.10	111.75	111.37	111.21	
25	111.56	111.28	110.65	110.57	111.13	118.90	113.19	112.82	112.09	111.74	111.37	111.21	
26	111.61	111.33	110.55	110.53	111.38	118.78	113.16	112.78	112.08	111.73	111.36	111.19	
27	111.63	111.42	110.58	110.54	111.63	118.42	113.21	112.74	112.07	111.73	111.36	111.17	
28	111.65	111.45	110.64	110.51	111.50	117.35	113.29	112.70	112.06	111.73	111.35	111.17	
29	111.63	111.37	110.56	110.55	112.37	116.53	113.27	112.67	112.04	111.71	111.34	111.17	
30	111.63	111.28	110.55	110.69	112.29	116.03	113.23	112.62	112.04	111.70	111.34	111.16	
31		111.25		110.62	112.71		113.22		112.02	111.70		111.16	
Mean	111.70	111.61	110.77	110.59	111.13	118.14	113.83	113.10	112.22	111.85	111.48	111.24	
Max	112.03	111.96	111.18	110.77	112.71	121.13	115.64	113.53	112.58	112.02	111.69	111.32	121.13
Min	111.48	111.25	110.55	110.47	110.65	113.60	113.10	112.62	112.02	111.70	111.34	111.16	110.47
Annual Max Momentary Gage Height	121.14		m. (MSL.) ,			at 10.00 Hours, on Sep 8, 2019							
Zero Gage at Bottom Elevation	110.20		m. (MSL.) ,			River Bed	110.07	m. (MSL.)					
Left Bank Elevation		123.87		m. (MSL.) ,									
Right Bank Elevation		123.57		m. (MSL.) ,		Drainage Are	3,131	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.30	4.52	2.94	1.17	1.65	33.00	75.50	26.20	12.60	6.20	4.76	3.36	
2	6.20	4.52	2.67	1.56	2.91	41.80	67.00	29.00	11.80	6.10	4.72	3.36	
3	6.00	4.52	2.46	1.65	3.03	59.20	58.40	29.40	10.90	6.00	4.64	3.36	
4	5.88	4.60	2.25	1.71	2.52	106.25	49.60	31.00	10.50	6.00	4.56	3.33	
5	5.76	4.60	2.25	1.68	2.37	154.45	44.40	31.60	10.20	5.92	4.48	3.33	
6	5.68	4.64	2.22	1.59	2.22	170.55	32.80	31.20	9.90	5.88	4.48	3.30	
7	5.68	4.60	2.10	1.41	1.95	283.85	28.60	29.00	9.60	5.80	4.44	3.30	
8	5.48	4.60	2.07	1.50	1.35	333.00	35.00	26.60	9.20	5.76	4.36	3.27	
9	4.80	4.80	1.95	1.17	1.59	288.40	42.00	28.00	8.80	5.72	4.24	3.21	
10	4.72	5.64	1.86	1.20	2.04	229.20	48.20	26.80	8.40	5.68	4.16	3.15	
11	4.68	5.84	1.86	1.05	1.89	195.70	49.80	25.80	8.20	5.60	4.04	3.12	
12	4.64	5.60	1.80	1.05	1.83	168.20	47.20	25.20	7.90	5.56	4.04	3.12	
13	4.60	5.40	1.68	1.14	2.16	134.50	44.20	24.80	7.80	5.48	3.92	3.09	
14	4.52	5.24	1.62	1.11	2.76	123.60	41.40	24.20	7.70	5.44	3.92	3.06	
15	4.48	5.16	1.47	1.02	2.58	104.90	40.00	23.80	7.70	5.40	3.88	3.06	
16	4.52	5.00	1.44	1.02	2.31	92.00	38.80	23.20	7.70	5.32	3.80	3.06	
17	4.44	4.92	1.41	0.90	2.28	84.39	37.40	22.60	7.60	5.28	3.76	3.06	
18	4.40	4.80	1.62	0.87	2.16	78.50	36.20	21.80	7.60	5.24	3.68	3.06	
19	4.40	4.72	1.47	0.81	2.07	71.63	34.00	20.80	7.60	5.20	3.57	3.06	
20	4.28	4.56	1.41	0.81	1.98	118.90	30.80	19.80	7.50	5.16	3.57	3.06	
21	4.12	4.32	1.44	0.87	1.89	133.30	30.60	19.40	7.50	5.12	3.57	3.06	
22	3.96	4.24	1.41	1.05	1.68	154.80	29.00	18.80	7.30	5.08	3.54	3.03	
23	3.92	3.96	1.38	1.11	1.74	164.60	25.60	18.40	7.20	5.04	3.54	3.03	
24	4.16	3.42	1.35	1.17	2.25	171.60	23.00	18.00	7.00	5.00	3.51	3.03	
25	4.24	3.24	1.35	1.11	2.79	169.50	24.80	17.40	6.90	4.96	3.51	3.03	
26	4.44	3.39	1.05	0.99	3.54	165.30	24.20	16.60	6.80	4.92	3.48	2.97	
27	4.52	3.68	1.14	1.02	4.52	152.70	25.20	15.80	6.70	4.92	3.48	2.91	
28	4.60	3.80	1.32	0.93	4.00	119.50	26.80	15.00	6.60	4.92	3.45	2.91	
29	4.52	3.51	1.08	1.05	9.70	97.75	26.40	14.40	6.40	4.84	3.42	2.91	
30	4.52	3.24	1.05	1.47	8.90	85.25	25.60	13.40	6.40	4.80		2.88	
31		3.15		1.26	15.20		25.40		6.20	4.80		2.88	
<b>Total</b>	144.46	138.23	51.12	36.45	99.86	4286.32	1167.90	688.00	254.20	167.14	114.52	96.36	7244.56 CMSDAY
<b>Mean</b>	4.82	4.46	1.70	1.18	3.22	142.88	37.67	22.93	8.20	5.39	3.95	3.11	19.79 CMS
<b>Max</b>	6.30	5.84	2.94	1.71	15.20	333.00	75.50	31.60	12.60	6.20	4.76	3.36	333.00 CMS
<b>Min</b>	3.92	3.15	1.05	0.81	1.35	33.00	23.00	13.40	6.20	4.80	3.42	2.88	0.81 CMS
<b>Runoff</b>	12.48	11.94	4.42	3.15	8.63	370.34	100.91	59.44	21.96	14.44	9.89	8.33	625.93 MCM
<b>Momentary Peak</b>	334.00 CMS, at 121.14 m. (MSL.), at 10.00 Hours, on Sep 8, 2019												
<b>Runoff Yield</b>	6.34 Liters/Second/Square KM.			Momentary Peak Yield 106.68 Liters/Second/Square KM.									



## WATER YEAR : 2019

## MUN RIVER BASIN

Lam Ta Khong at Ban Non Sawang, Nakhon Ratchasima (M.177)

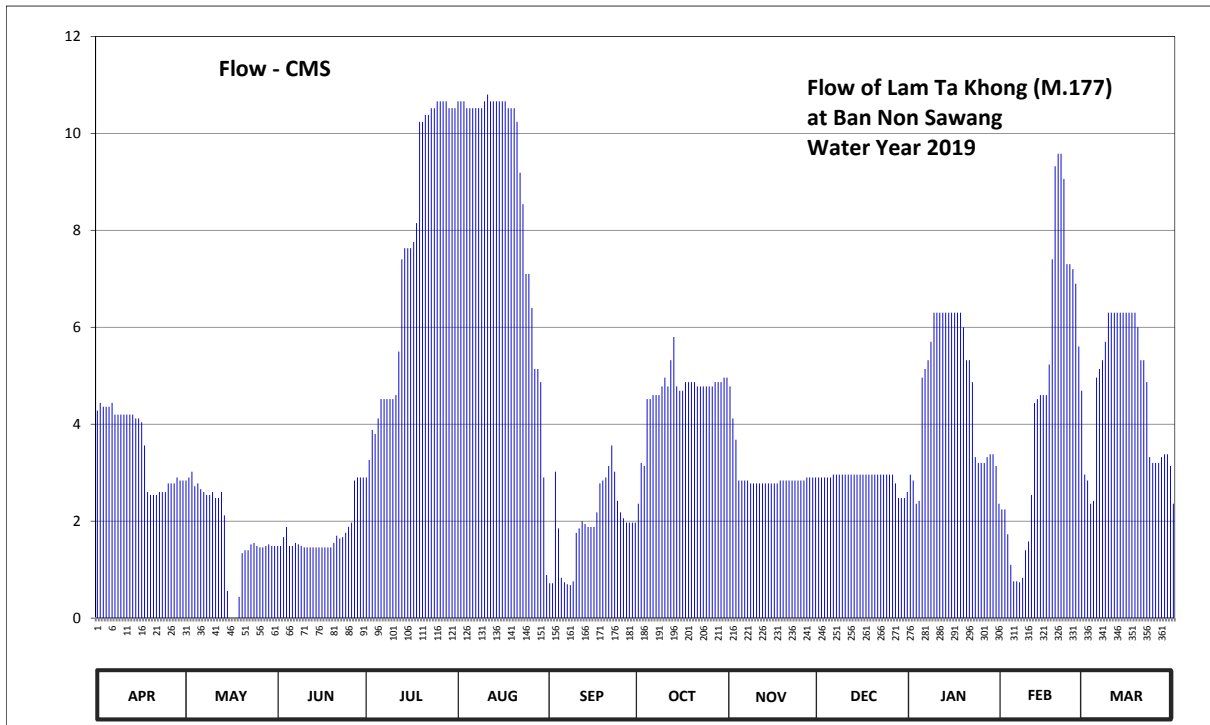
Lat 14 - 50 - 57 N Long 101 - 37 - 12 E

Location : on right bank at the bridge.

	<b>Ban Non Sawang</b>	<b>Amphoe Si Khui</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	1,519 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+236.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+243.940 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.16	238.94	238.63	238.95	239.74	238.36	238.86	239.22	238.95	238.96	238.84	238.93	
2	239.18	238.95	238.63	239.01	239.74	238.36	239.00	239.14	238.95	238.94	238.84	238.93	
3	239.17	238.97	238.69	239.11	239.74	238.97	238.99	239.08	238.95	238.86	238.71	238.92	
4	239.17	238.92	238.76	239.10	239.73	238.75	239.19	238.94	238.95	238.87	238.50	238.84	
5	239.17	238.93	238.63	239.14	239.73	238.41	239.19	238.94	238.95	239.24	238.38	238.62	
6	239.18	238.91	238.63	239.19	239.73	238.37	239.20	238.94	238.96	239.26	238.38	238.61	
7	239.15	238.90	238.65	239.19	239.73	238.35	239.20	238.94	238.96	239.28	238.37	238.62	
8	239.15	238.89	238.64	239.19	239.73	238.34	239.20	238.93	238.96	239.32	238.41	238.62	
9	239.15	238.89	238.63	239.19	239.73	238.38	239.22	238.93	238.96	239.38	238.60	238.61	
10	239.15	238.90	238.62	239.19	239.74	238.72	239.24	238.93	238.96	239.38	238.66	238.60	
11	239.15	238.88	238.62	239.20	239.75	238.75	239.22	238.93	238.96	239.38	238.89	238.60	
12	239.15	238.88	238.62	239.30	239.74	238.80	239.28	238.93	238.96	239.38	239.18	238.60	
13	239.15	238.90	238.62	239.49	239.74	238.78	239.33	238.93	238.96	239.38	239.19	238.60	
14	239.14	238.82	238.62	239.51	239.74	238.76	239.22	238.93	238.96	239.38	239.20	238.62	
15	239.14	238.28	238.62	239.51	239.74	238.76	239.21	238.93	238.96	239.38	239.20	238.66	
16	239.13	237.98	238.62	239.51	239.74	238.76	239.21	238.93	238.96	239.38	239.20	238.81	
17	239.06	237.88	238.62	239.52	239.74	238.83	239.23	238.93	238.96	239.38	239.27	239.07	
18	238.90	237.95	238.62	239.55	239.73	238.93	239.23	238.94	238.96	239.38	239.49	239.07	
19	238.89	238.22	238.62	239.71	239.73	238.94	239.23	238.94	238.96	239.35	239.64	239.07	
20	238.89	238.58	238.65	239.71	239.73	238.95	239.23	238.94	238.96	239.28	239.66	239.06	
21	238.89	238.60	238.70	239.72	239.71	238.99	239.22	238.94	238.96	239.28	239.66	239.06	
22	238.90	238.60	238.68	239.72	239.63	239.06	239.22	238.94	238.96	239.23	239.62	239.06	
23	238.90	238.64	238.69	239.73	239.58	238.97	239.22	238.94	238.96	239.02	239.48	239.13	
24	238.90	238.65	238.72	239.73	239.46	238.87	239.22	238.94	238.96	239.00	239.48	239.26	
25	238.93	238.63	238.76	239.74	239.46	238.83	239.22	238.94	238.96	239.00	239.47	239.26	
26	238.93	238.62	238.79	239.74	239.39	238.81	239.22	238.94	238.96	239.00	239.44	239.26	
27	238.93	238.62	238.94	239.74	239.26	238.79	239.23	238.95	238.93	239.02	239.31	239.26	
28	238.95	238.63	238.95	239.74	239.26	238.79	239.23	238.95	238.88	239.03	239.21	239.26	
29	238.94	238.64	238.95	239.73	239.23	238.79	239.23	238.95	238.88	239.03	238.94	239.26	
30	238.94	238.63	238.95	239.73	238.95	238.79	239.24	238.95	238.88	238.99	238.99	239.08	
31		238.63		239.73	238.43		239.24		238.90	238.86		238.54	
Mean	239.05	238.66	238.70	239.46	239.58	238.73	239.20	238.96	238.95	239.18	239.08	238.90	
Max	239.18	238.97	238.95	239.74	239.75	239.06	239.33	239.22	238.96	239.38	239.66	239.26	239.75
Min	238.89	237.88	238.62	238.95	238.43	238.34	238.86	238.93	238.88	238.86	238.37	238.54	237.88
Annual Max Momentary Gage Height	239.75		m. (MSL.) ,			at 06.00 Hours, on Aug 11, 2019							
Zero Gage at Bottom Elevation	236.70		m. (MSL.) ,			River Bed	237.42	m. (MSL.)					
Left Bank Elevation	243.96		m. (MSL.) ,										
Right Bank Elevation	243.94		m. (MSL.) ,			Drainage Area	1,519	Square Kilometers					

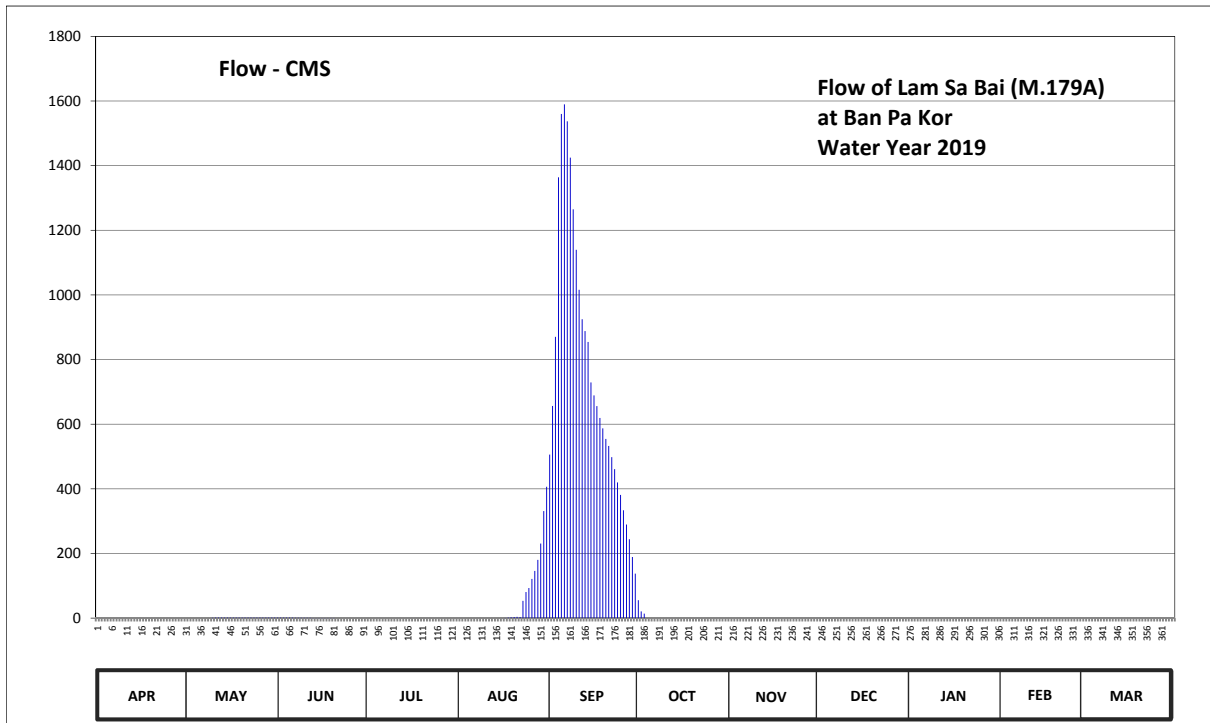


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.28	2.84	1.49	2.90	10.66	0.72	2.36	4.78	2.90	2.96	2.24	2.96	
2	4.44	2.90	1.49	3.26	10.66	0.72	3.20	4.12	2.90	2.84	2.24	2.84	
3	4.36	3.02	1.67	3.88	10.66	3.02	3.14	3.68	2.90	2.36	1.73	2.36	
4	4.36	2.72	1.88	3.80	10.52	1.85	4.52	2.84	2.90	2.42	1.10	2.42	
5	4.36	2.78	1.49	4.12	10.52	0.83	4.52	2.84	2.90	4.96	0.76	4.96	
6	4.44	2.66	1.49	4.52	10.52	0.74	4.60	2.84	2.96	5.14	0.76	5.14	
7	4.20	2.60	1.55	4.52	10.52	0.70	4.60	2.84	2.96	5.32	0.74	5.32	
8	4.20	2.54	1.52	4.52	10.52	0.68	4.60	2.78	2.96	5.70	0.83	5.70	
9	4.20	2.54	1.49	4.52	10.52	0.76	4.78	2.78	2.96	6.30	1.40	6.30	
10	4.20	2.60	1.46	4.52	10.66	1.76	4.96	2.78	2.96	6.30	1.58	6.30	
11	4.20	2.48	1.46	4.60	10.80	1.85	4.78	2.78	2.96	6.30	2.54	6.30	
12	4.20	2.48	1.46	5.50	10.66	2.00	5.32	2.78	2.96	6.30	4.44	6.30	
13	4.20	2.60	1.46	7.40	10.66	1.94	5.80	2.78	2.96	6.30	4.52	6.30	
14	4.12	2.12	1.46	7.63	10.66	1.88	4.78	2.78	2.96	6.30	4.60	6.30	
15	4.12	0.56	1.46	7.63	10.66	1.88	4.69	2.78	2.96	6.30	4.60	6.30	
16	4.04	0.00	1.46	7.63	10.66	1.88	4.69	2.78	2.96	6.30	4.60	6.30	
17	3.56	0.00	1.46	7.76	10.66	2.18	4.87	2.78	2.96	6.30	5.23	6.30	
18	2.60	0.00	1.46	8.15	10.52	2.78	4.87	2.84	2.96	6.30	7.40	6.30	
19	2.54	0.44	1.46	10.24	10.52	2.84	4.87	2.84	2.96	6.00	9.32	6.00	
20	2.54	1.34	1.55	10.24	10.52	2.90	4.87	2.84	2.96	5.32	9.58	5.32	
21	2.54	1.40	1.70	10.38	10.24	3.14	4.78	2.84	2.96	5.32	9.58	5.32	
22	2.60	1.40	1.64	10.38	9.19	3.56	4.78	2.84	2.96	4.87	9.06	4.87	
23	2.60	1.52	1.67	10.52	8.54	3.02	4.78	2.84	2.96	3.32	7.30	3.32	
24	2.60	1.55	1.76	10.52	7.10	2.42	4.78	2.84	2.96	3.20	7.30	3.20	
25	2.78	1.49	1.88	10.66	7.10	2.18	4.78	2.84	2.96	3.20	7.20	3.20	
26	2.78	1.46	1.97	10.66	6.40	2.06	4.78	2.84	2.96	3.20	6.90	3.20	
27	2.78	1.46	2.84	10.66	5.14	1.97	4.87	2.90	2.78	3.32	5.60	3.32	
28	2.90	1.49	2.90	10.66	5.14	1.97	4.87	2.90	2.48	3.38	4.69	3.38	
29	2.84	1.52	2.90	10.52	4.87	1.97	4.87	2.90	2.48	3.38	2.84	3.38	
30	2.84	1.49	2.90	10.52	2.90	1.97	4.96	2.90	2.48	3.14		3.14	
31		1.49		10.52	0.89		4.96		2.60	2.36		2.36	
Total	106.42	55.49	52.38	233.34	279.59	58.17	144.03	88.90	89.48	144.71	130.68	144.71	1527.90 CMSDAY
Mean	3.55	1.79	1.75	7.53	9.02	1.94	4.65	2.96	2.89	4.67	4.51	4.67	4.17 CMS
Max	4.44	3.02	2.90	10.66	10.80	3.56	5.80	4.78	2.96	6.30	9.58	6.30	10.80 CMS
Min	2.54	0.00	1.46	2.90	0.89	0.68	2.36	2.78	2.48	2.36	0.74	2.36	0.00 CMS
Runoff	9.19	4.79	4.53	20.16	24.16	5.03	12.44	7.68	7.73	12.50	11.29	12.50	132.01 MCM
Momentary Peak	10.80	CMS.	at 239.75 m. (MSL.)	at 06.00 Hours	, on Aug 11, 2019								
Runoff Yield	2.76	Liters/Second/Square KM.		Momentary Peak Yield	7.11	Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.36	0.00	0.00	506.00	55.20	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.40	0.00	0.00	656.40	20.80	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.40	0.00	0.00	870.40	13.60	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	1.38	0.00	0.00	1364.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	1.32	0.00	0.00	1560.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	1.28	0.00	0.00	1590.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	1.16	0.00	0.00	1537.50	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.00	0.00	0.00	1425.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.96	0.00	0.00	1265.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	1.02	0.94	0.00	0.00	1139.50	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	1.30	0.88	0.00	0.00	1016.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	1.34	0.78	0.00	0.00	925.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	1.34	0.70	0.00	0.00	888.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	1.36	0.70	0.00	0.00	854.40	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	1.36	0.64	0.00	0.00	729.30	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	1.34	0.62	0.00	0.01	689.40	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	1.34	0.66	0.00	0.38	655.80	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	1.34	0.64	0.00	1.42	619.50	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	1.34	0.40	0.00	2.34	587.30	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	1.34	0.24	0.00	3.50	554.50	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	1.32	0.11	0.00	3.75	532.50	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	1.32	0.10	0.00	3.40	498.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	1.30	0.09	0.00	53.50	461.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	1.30	0.07	0.00	80.50	420.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	1.32	0.03	0.00	93.00	381.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	1.34	0.00	0.00	121.20	333.80	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.34	0.00	0.00	145.80	289.80	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	1.32	0.00	0.00	180.10	244.20	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	1.30	0.00	0.00	230.60	188.90	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.34	0.00	0.00	331.40	137.80	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	1.36	0.00	0.00	406.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	28.98	18.86	0.00	1657.40	22920.00	89.60	0.00	0.00	0.00	0.00	0.00	24714.84 CMSDAY
<b>Mean</b>	0.00	0.93	0.63	0.00	53.46	764.00	2.89	0.00	0.00	0.00	0.00	0.00	67.53 CMS
<b>Max</b>	0.00	1.36	1.40	0.00	406.50	1590.00	55.20	0.00	0.00	0.00	0.00	0.00	1590.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	137.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	2.50	1.63	0.00	143.20	1980.29	7.74	0.00	0.00	0.00	0.00	0.00	2135.36 MCM
<b>Momentary Peak</b>	1597.50	CMS. at 123.89 m. (MSL.) at 06.00 Hours , on Sep 6 , 2019											
<b>Runoff Yield</b>	19.10	Liters/Second/Square KM. Momentary Peak Yield 450.51 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MUN RIVER BASIN

## Huai Hin Lap at Ban Hin Plueng, Nakhon Ratchasima (M.183A)

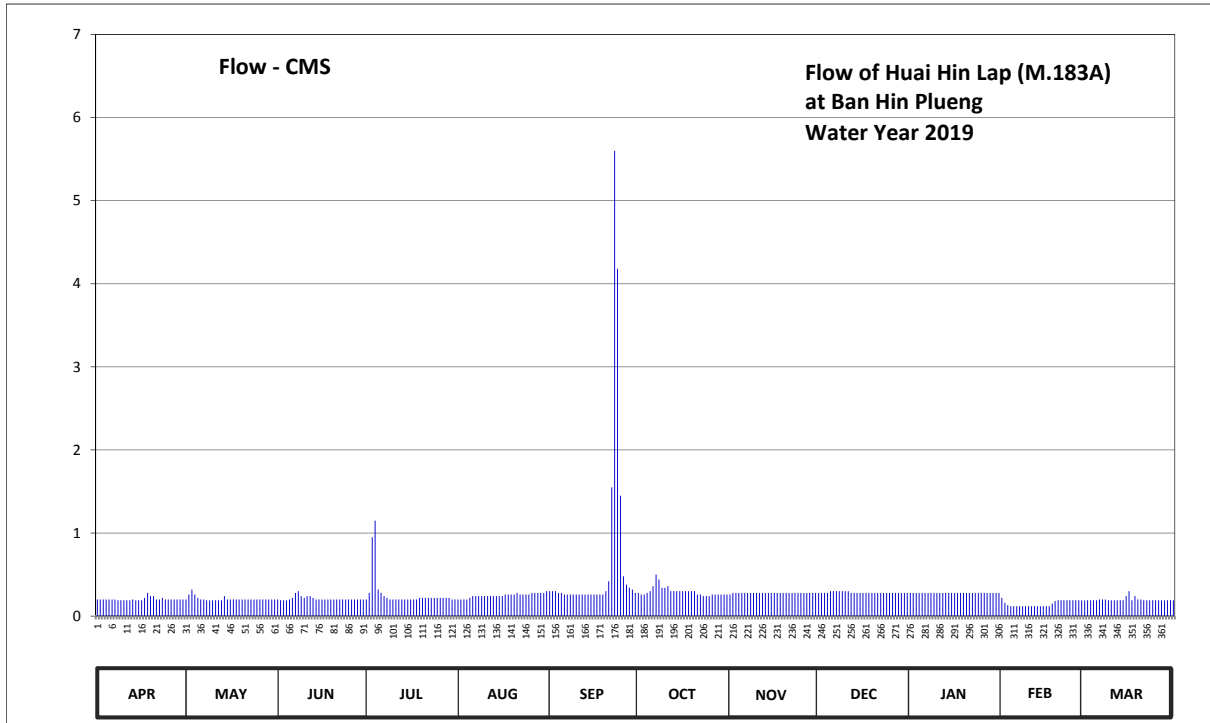
Lat 14 - 43 - 26 N Long 101 - 34 - 19 E

Location : on left bank at the bridge on highway.

	<b>Ban</b> Hin Plueng	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	250 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+292.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+297.232 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2016 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2016 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2016 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.80	292.80	292.80	292.80	292.80	292.85	292.84	292.83	292.84	292.84	292.81	292.79	
2	292.80	292.83	292.79	292.84	292.80	292.85	292.83	292.84	292.84	292.84	292.76	292.79	
3	292.80	292.86	292.79	293.07	292.80	292.85	292.83	292.84	292.84	292.84	292.73	292.79	
4	292.80	292.83	292.79	293.11	292.80	292.84	292.84	292.84	292.84	292.84	292.72	292.79	
5	292.80	292.81	292.80	292.86	292.81	292.84	292.85	292.84	292.85	292.84	292.72	292.79	
6	292.80	292.80	292.81	292.84	292.82	292.83	292.88	292.84	292.85	292.84	292.72	292.80	
7	292.80	292.80	292.84	292.82	292.82	292.83	292.95	292.84	292.85	292.84	292.72	292.80	
8	292.79	292.79	292.85	292.81	292.82	292.83	292.92	292.84	292.85	292.84	292.72	292.80	
9	292.79	292.79	292.82	292.80	292.82	292.83	292.87	292.84	292.85	292.84	292.72	292.79	
10	292.79	292.79	292.81	292.80	292.82	292.83	292.87	292.84	292.85	292.84	292.72	292.79	
11	292.79	292.79	292.82	292.80	292.82	292.83	292.88	292.84	292.85	292.84	292.72	292.79	
12	292.79	292.79	292.82	292.80	292.82	292.83	292.85	292.84	292.84	292.84	292.72	292.79	
13	292.80	292.79	292.81	292.80	292.82	292.83	292.85	292.84	292.84	292.84	292.72	292.79	
14	292.79	292.82	292.80	292.80	292.82	292.83	292.85	292.84	292.84	292.84	292.72	292.79	
15	292.79	292.80	292.80	292.80	292.82	292.83	292.85	292.84	292.84	292.84	292.72	292.82	
16	292.79	292.80	292.80	292.80	292.82	292.83	292.85	292.84	292.84	292.84	292.72	292.85	
17	292.81	292.80	292.80	292.80	292.83	292.83	292.85	292.84	292.84	292.84	292.72	292.79	
18	292.84	292.80	292.80	292.80	292.83	292.83	292.85	292.84	292.84	292.84	292.75	292.82	
19	292.82	292.80	292.80	292.81	292.83	292.83	292.85	292.84	292.84	292.84	292.78	292.80	
20	292.82	292.80	292.80	292.81	292.83	292.85	292.85	292.84	292.84	292.84	292.79	292.80	
21	292.80	292.80	292.80	292.81	292.84	292.91	292.83	292.84	292.84	292.84	292.79	292.79	
22	292.80	292.80	292.80	292.81	292.83	293.19	292.83	292.84	292.84	292.84	292.79	292.79	
23	292.81	292.80	292.80	292.81	292.83	293.71	292.82	292.84	292.84	292.84	292.79	292.79	
24	292.80	292.80	292.80	292.81	292.83	293.56	292.82	292.84	292.84	292.84	292.79	292.79	
25	292.80	292.80	292.80	292.81	292.83	293.17	292.82	292.84	292.84	292.84	292.79	292.79	
26	292.80	292.80	292.80	292.81	292.84	292.94	292.83	292.84	292.84	292.84	292.79	292.79	
27	292.80	292.80	292.80	292.81	292.84	292.89	292.83	292.84	292.84	292.84	292.79	292.79	
28	292.80	292.80	292.80	292.81	292.84	292.87	292.83	292.84	292.84	292.84	292.79	292.79	
29	292.80	292.80	292.80	292.81	292.84	292.86	292.83	292.84	292.84	292.84	292.79	292.79	
30	292.80	292.80	292.80	292.80	292.84	292.84	292.83	292.84	292.84	292.84	292.79	292.79	
31		292.80		292.80	292.85		292.83		292.84	292.84	292.79	292.79	
Mean	292.80	292.80	292.81	292.83	292.82	292.92	292.85	292.84	292.84	292.84	292.75	292.80	
Max	292.84	292.86	292.85	293.11	292.85	293.71	292.95	292.84	292.85	292.84	292.81	292.85	293.71
Min	292.79	292.79	292.79	292.80	292.80	292.83	292.82	292.83	292.84	292.84	292.72	292.79	292.72
Annual Max Momentary Gage Height	294.04		m. (MSL.) ,			at 08.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	292.60		m. (MSL.) ,			River Bed 292.50	m. (MSL.)						
Left Bank Elevation		297.23	m. (MSL.) ,										
Right Bank Elevation		297.20	m. (MSL.) ,			Drainage Are	250	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.20	0.20	0.20	0.20	0.30	0.28	0.26	0.28	0.28	0.22	0.19	
2	0.20	0.26	0.19	0.28	0.20	0.30	0.26	0.28	0.28	0.28	0.16	0.19	
3	0.20	0.32	0.19	0.95	0.20	0.30	0.26	0.28	0.28	0.28	0.13	0.19	
4	0.20	0.26	0.19	1.15	0.20	0.28	0.28	0.28	0.28	0.28	0.12	0.19	
5	0.20	0.22	0.20	0.32	0.22	0.28	0.30	0.28	0.30	0.28	0.12	0.19	
6	0.20	0.20	0.22	0.28	0.24	0.26	0.36	0.28	0.30	0.28	0.12	0.20	
7	0.20	0.20	0.28	0.24	0.24	0.26	0.50	0.28	0.30	0.28	0.12	0.20	
8	0.19	0.19	0.30	0.22	0.24	0.26	0.44	0.28	0.30	0.28	0.12	0.20	
9	0.19	0.19	0.24	0.20	0.24	0.26	0.34	0.28	0.30	0.28	0.12	0.19	
10	0.19	0.19	0.22	0.20	0.24	0.26	0.34	0.28	0.30	0.28	0.12	0.19	
11	0.19	0.19	0.24	0.20	0.24	0.26	0.36	0.28	0.30	0.28	0.12	0.19	
12	0.19	0.19	0.24	0.20	0.24	0.26	0.30	0.28	0.28	0.28	0.12	0.19	
13	0.20	0.19	0.22	0.20	0.24	0.26	0.30	0.28	0.28	0.28	0.12	0.19	
14	0.19	0.24	0.20	0.20	0.24	0.26	0.30	0.28	0.28	0.28	0.12	0.19	
15	0.19	0.20	0.20	0.20	0.24	0.26	0.30	0.28	0.28	0.28	0.12	0.24	
16	0.19	0.20	0.20	0.20	0.24	0.26	0.30	0.28	0.28	0.28	0.12	0.30	
17	0.22	0.20	0.20	0.20	0.26	0.26	0.30	0.28	0.28	0.28	0.12	0.19	
18	0.28	0.20	0.20	0.20	0.26	0.26	0.30	0.28	0.28	0.28	0.15	0.24	
19	0.24	0.20	0.20	0.22	0.26	0.26	0.30	0.28	0.28	0.28	0.18	0.20	
20	0.24	0.20	0.20	0.22	0.26	0.30	0.30	0.28	0.28	0.28	0.19	0.20	
21	0.20	0.20	0.20	0.22	0.28	0.42	0.26	0.28	0.28	0.28	0.19	0.19	
22	0.20	0.20	0.20	0.22	0.26	1.55	0.26	0.28	0.28	0.28	0.19	0.19	
23	0.22	0.20	0.20	0.22	0.26	5.60	0.24	0.28	0.28	0.28	0.19	0.19	
24	0.20	0.20	0.20	0.22	0.26	4.18	0.24	0.28	0.28	0.28	0.19	0.19	
25	0.20	0.20	0.20	0.22	0.26	1.45	0.24	0.28	0.28	0.28	0.19	0.19	
26	0.20	0.20	0.20	0.22	0.28	0.48	0.26	0.28	0.28	0.28	0.19	0.19	
27	0.20	0.20	0.20	0.22	0.28	0.38	0.26	0.28	0.28	0.28	0.19	0.19	
28	0.20	0.20	0.20	0.22	0.28	0.34	0.26	0.28	0.28	0.28	0.19	0.19	
29	0.20	0.20	0.20	0.22	0.28	0.32	0.26	0.28	0.28	0.28	0.19	0.19	
30	0.20	0.20	0.20	0.20	0.28	0.28	0.26	0.28	0.28	0.28		0.19	
31		0.20		0.20	0.30		0.26		0.28	0.28		0.19	
Total	6.12	6.44	6.33	8.46	7.72	20.40	9.22	8.38	8.82	8.68	4.42	6.15	101.14 CMSDAY
Mean	0.20	0.21	0.21	0.27	0.25	0.68	0.30	0.28	0.28	0.28	0.15	0.20	0.28 CMS
Max	0.28	0.32	0.30	1.15	0.30	5.60	0.50	0.28	0.30	0.28	0.22	0.30	5.60 CMS
Min	0.19	0.19	0.19	0.20	0.20	0.26	0.24	0.26	0.28	0.28	0.12	0.19	0.12 CMS
Runoff	0.53	0.56	0.55	0.73	0.67	1.76	0.80	0.72	0.76	0.75	0.38	0.53	8.74 MCM
Momentary Peak	9.18	CMS. at 294.04 m. (MSL.) at 08.00 Hours , on Sep 23 , 2019											
Runoff Yield	1.00	Liters/Second/Square KM.		Momentary Peak Yield		33.26	Liters/Second/Square KM.						

## WATER YEAR : 2019

## MUN RIVER BASIN

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

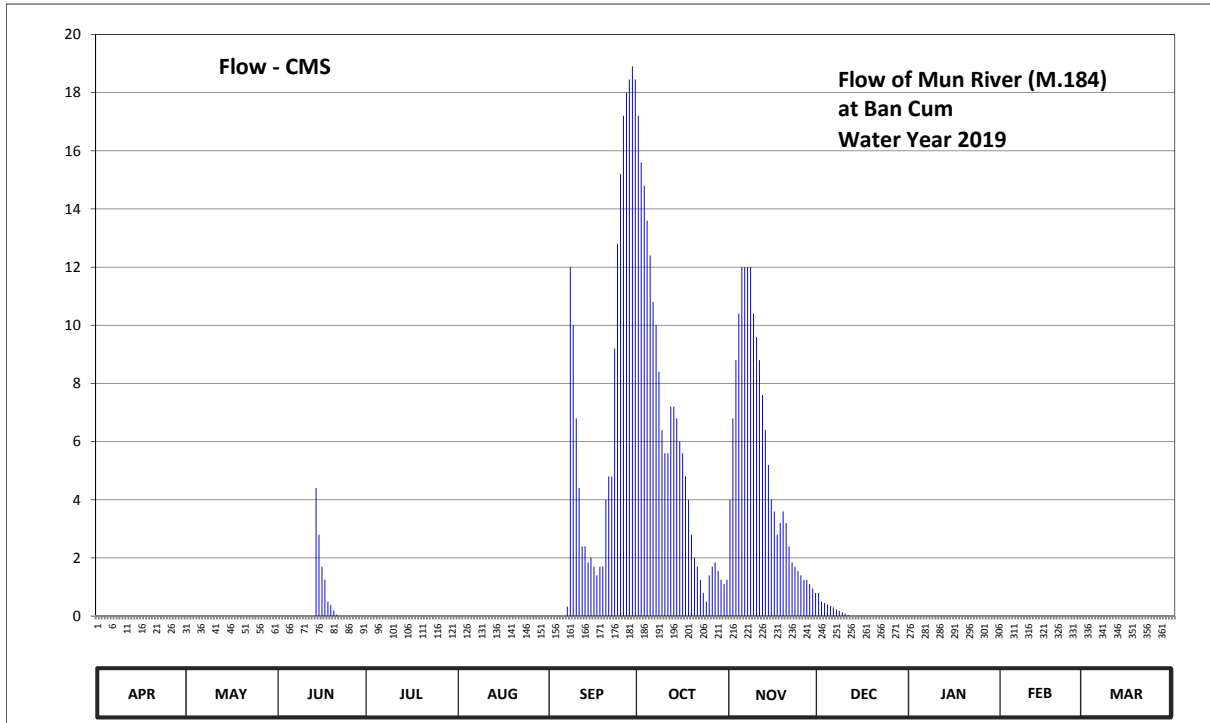
Lat 15 - 13 - 12 N Long 102 - 25 - 41 E

Location : on right at the bridge on highway.

	<b>Ban Cum</b>	<b>Amphoe Phimai</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	11,489 sq.km.			
<b>Type of Gage</b>	Water - stage recorder.			
<b>Zero Gage at Bottom</b>	+150.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b>	+156.067 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2008 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2008 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	2008 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records fair. Stage-discharge relation defined by 4 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.13	152.06	151.77	152.02	151.42	151.67	153.48	153.15	153.02	152.47	152.13	151.88	
2	152.12	152.05	151.75	151.97	151.40	151.69	153.44	153.22	153.00	152.46	152.12	151.87	
3	152.12	152.04	151.73	151.96	151.38	151.73	153.42	153.27	152.98	152.45	152.11	151.86	
4	152.14	152.03	151.72	151.96	151.37	151.77	153.39	153.31	152.96	152.44	152.10	151.85	
5	152.13	152.03	151.73	151.95	151.37	151.79	153.36	153.35	152.94	152.43	152.10	151.84	
6	152.13	152.01	151.74	151.93	151.37	151.81	153.32	153.35	152.92	152.42	152.09	151.85	
7	152.13	152.00	151.77	151.90	151.37	152.93	153.30	153.35	152.89	152.41	152.08	151.86	
8	152.12	151.98	151.77	151.86	151.36	153.35	153.26	153.35	152.87	152.40	152.08	151.86	
9	152.12	151.96	151.79	151.82	151.34	153.30	153.21	153.31	152.85	152.39	152.07	151.85	
10	152.11	151.96	151.79	151.79	151.32	153.22	153.19	153.29	152.83	152.38	152.06	151.84	
11	152.11	151.96	151.79	151.77	151.32	153.16	153.19	153.27	152.81	152.37	152.05	151.83	
12	152.12	151.95	151.90	151.73	151.32	153.11	153.23	153.24	152.79	152.35	152.04	151.81	
13	152.13	151.94	152.80	151.66	151.31	153.11	153.23	153.21	152.77	152.33	152.04	151.81	
14	152.13	151.94	153.16	151.62	151.31	153.09	153.22	153.18	152.74	152.32	152.03	151.81	
15	152.12	151.95	153.12	151.56	151.30	153.10	153.20	153.15	152.72	152.31	152.02	151.80	
16	152.12	151.94	153.08	151.54	151.29	153.08	153.19	153.14	152.70	152.30	152.01	151.79	
17	152.12	151.93	153.05	151.53	151.29	153.06	153.17	153.12	152.68	152.29	152.00	151.78	
18	152.11	151.91	153.00	151.51	151.29	153.08	153.15	153.13	152.67	152.28	151.99	151.77	
19	152.11	151.90	152.95	151.51	151.28	153.08	153.12	153.14	152.65	152.27	151.99	151.77	
20	152.11	151.89	152.88	151.52	151.28	153.15	153.10	153.13	152.63	152.25	151.98	151.76	
21	152.10	151.87	152.82	151.52	151.28	153.17	153.08	153.11	152.61	152.24	151.97	151.75	
22	152.10	151.86	152.75	151.50	151.28	153.17	153.05	153.09	152.59	152.23	151.96	151.74	
23	152.12	151.85	152.65	151.50	151.27	153.28	153.02	153.08	152.59	152.22	151.95	151.73	
24	152.12	151.85	152.57	151.49	151.27	153.37	153.00	153.07	152.57	152.21	151.94	151.73	
25	152.12	151.83	152.50	151.48	151.27	153.43	153.06	153.06	152.56	152.20	151.92	151.72	
26	152.11	151.82	152.43	151.47	151.30	153.48	153.08	153.05	152.55	152.20	151.91	151.71	
27	152.10	151.82	152.35	151.47	151.30	153.50	153.09	153.05	152.54	152.18	151.90	151.70	
28	152.09	151.82	152.25	151.45	151.30	153.51	153.07	153.04	152.52	152.18	151.89	151.69	
29	152.08	151.81	152.18	151.44	151.33	153.52	153.05	153.03	152.51	152.16	151.89	151.68	
30	152.08	151.80	152.10	151.43	151.42	153.51	153.04	153.02	152.50	152.15	151.88	151.67	
31		151.79		151.42	151.64		153.05		152.49	152.14		151.65	
Mean	152.11	151.92	152.33	151.65	151.33	152.94	153.19	153.18	152.72	152.30	152.01	151.78	
Max	152.14	152.06	153.16	152.02	151.64	153.52	153.48	153.35	153.02	152.47	152.13	151.88	153.52
Min	152.08	151.79	151.72	151.42	151.27	151.67	153.00	153.02	152.49	152.14	151.89	151.65	151.27
Annual Max Momentary Gage Height	153.52		m. (MSL.) ,				at 13.00 Hours, on Sep 28, 2019						
Zero Gage at Bottom Elevation	150.00		m. (MSL.) ,			River Bed	149.56	m. (MSL.)					
Left Bank Elevation		155.85		m. (MSL.) ,									
Right Bank Elevation		155.98		m. (MSL.) ,		Drainage Area	11,489	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	17.20	4.00	0.80	0.00	0.00	0.00			
2	0.00	0.00	0.00	0.00	0.00	0.00	15.60	6.80	0.50	0.00	0.00	0.00			
3	0.00	0.00	0.00	0.00	0.00	0.00	14.80	8.80	0.45	0.00	0.00	0.00			
4	0.00	0.00	0.00	0.00	0.00	0.00	13.60	10.40	0.40	0.00	0.00	0.00			
5	0.00	0.00	0.00	0.00	0.00	0.00	12.40	12.00	0.35	0.00	0.00	0.00			
6	0.00	0.00	0.00	0.00	0.00	0.00	10.80	12.00	0.30	0.00	0.00	0.00			
7	0.00	0.00	0.00	0.00	0.00	0.33	10.00	12.00	0.23	0.00	0.00	0.00			
8	0.00	0.00	0.00	0.00	0.00	12.00	8.40	12.00	0.18	0.00	0.00	0.00			
9	0.00	0.00	0.00	0.00	0.00	10.00	6.40	10.40	0.13	0.00	0.00	0.00			
10	0.00	0.00	0.00	0.00	0.00	6.80	5.60	9.60	0.08	0.00	0.00	0.00			
11	0.00	0.00	0.00	0.00	0.00	4.40	5.60	8.80	0.03	0.00	0.00	0.00			
12	0.00	0.00	0.00	0.00	0.00	2.40	7.20	7.60	0.00	0.00	0.00	0.00			
13	0.00	0.00	0.00	0.00	0.00	2.40	7.20	6.40	0.00	0.00	0.00	0.00			
14	0.00	0.00	4.40	0.00	0.00	1.85	6.80	5.20	0.00	0.00	0.00	0.00			
15	0.00	0.00	2.80	0.00	0.00	2.00	6.00	4.00	0.00	0.00	0.00	0.00			
16	0.00	0.00	1.70	0.00	0.00	1.70	5.60	3.60	0.00	0.00	0.00	0.00			
17	0.00	0.00	1.25	0.00	0.00	1.40	4.80	2.80	0.00	0.00	0.00	0.00			
18	0.00	0.00	0.50	0.00	0.00	1.70	4.00	3.20	0.00	0.00	0.00	0.00			
19	0.00	0.00	0.38	0.00	0.00	1.70	2.80	3.60	0.00	0.00	0.00	0.00			
20	0.00	0.00	0.20	0.00	0.00	4.00	2.00	3.20	0.00	0.00	0.00	0.00			
21	0.00	0.00	0.05	0.00	0.00	4.80	1.70	2.40	0.00	0.00	0.00	0.00			
22	0.00	0.00	0.00	0.00	0.00	4.80	1.25	1.85	0.00	0.00	0.00	0.00			
23	0.00	0.00	0.00	0.00	0.00	9.20	0.80	1.70	0.00	0.00	0.00	0.00			
24	0.00	0.00	0.00	0.00	0.00	12.80	0.50	1.55	0.00	0.00	0.00	0.00			
25	0.00	0.00	0.00	0.00	0.00	15.20	1.40	1.40	0.00	0.00	0.00	0.00			
26	0.00	0.00	0.00	0.00	0.00	17.20	1.70	1.25	0.00	0.00	0.00	0.00			
27	0.00	0.00	0.00	0.00	0.00	18.00	1.85	1.25	0.00	0.00	0.00	0.00			
28	0.00	0.00	0.00	0.00	0.00	18.45	1.55	1.10	0.00	0.00	0.00	0.00			
29	0.00	0.00	0.00	0.00	0.00	18.90	1.25	0.95	0.00	0.00	0.00	0.00			
30	0.00	0.00	0.00	0.00	0.00	18.45	1.10	0.80	0.00	0.00	0.00	0.00			
31	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00			
<b>Total</b>	0.00	0.00	11.28	0.00	0.00	190.48	181.15	160.65	3.45	0.00	0.00	0.00	547.01 CMSDAY		
<b>Mean</b>	0.00	0.00	0.38	0.00	0.00	6.35	5.84	5.35	0.11	0.00	0.00	0.00	1.49 CMS		
<b>Max</b>	0.00	0.00	4.40	0.00	0.00	18.90	17.20	12.00	0.80	0.00	0.00	0.00	18.90 CMS		
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.80	0.00	0.00	0.00	0.00	0.00 CMS		
<b>Runoff</b>	0.00	0.00	0.97	0.00	0.00	16.46	15.65	13.88	0.30	0.00	0.00	0.00	47.26 MCM		
<b>Momentary Peak</b>	18.90 CMS. at 153.52 m. (MSL.) at 13.00 Hours , on Sep 28 , 2019														
<b>Runoff Yield</b>	0.13 Liters/Second/Square KM.													Momentary Peak Yield 1.65 Liters/Second/Square KM.	



## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Plai Mat at Ban Phai Noi, Buri Ram (M.185)

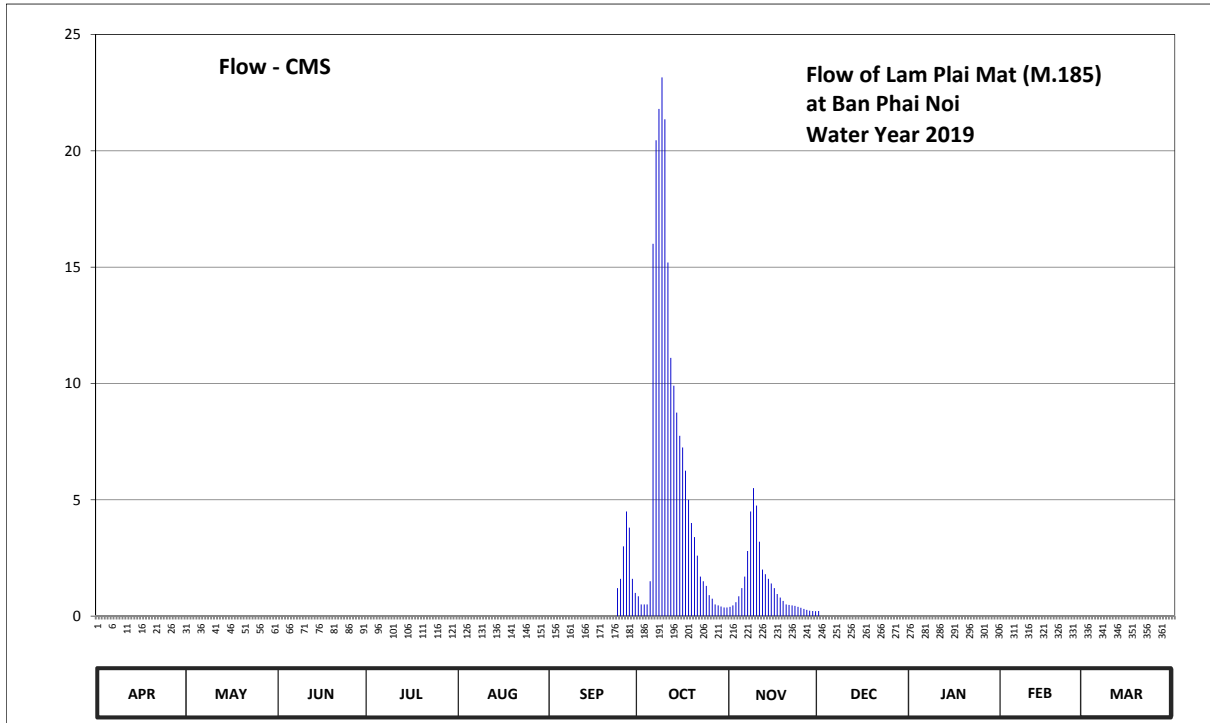
Lat 14 - 59 - 57 N Long 102 - 49 - 02 E

Location : on right at the bridge on highway.

	<b>Ban</b>	Phai Noi	<b>Amphoe</b>	Lam Plai Mat	<b>Changwat</b>	Buri Ram
<b>Drainage Area</b>	4,880	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+149.700 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the gage site.				<b>Elevation</b>	+157.900 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2008 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2008 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2008 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	151.27	150.95	151.06	150.90	150.90	151.06	152.67	152.52	152.38	152.85	152.40	152.13	
2	151.26	150.95	151.04	150.90	150.90	151.07	152.60	152.57	152.45	152.85	152.40	152.10	
3	151.24	150.95	151.03	150.90	150.90	151.12	152.60	152.62	152.52	152.85	152.38	152.10	
4	151.23	150.95	151.02	150.90	150.90	151.15	152.60	152.67	152.59	152.84	152.38	152.10	
5	151.21	150.97	151.01	150.90	150.90	151.15	152.75	152.72	152.66	152.83	152.38	152.10	
6	151.20	150.97	151.00	150.90	150.90	151.15	153.30	152.77	152.73	152.82	152.38	152.10	
7	151.18	150.97	150.99	150.90	150.90	151.15	153.41	152.84	152.80	152.81	152.38	152.10	
8	151.17	150.97	150.98	150.90	150.90	151.34	153.44	152.92	152.87	152.80	152.35	152.10	
9	151.15	150.98	150.97	150.90	150.90	151.40	153.47	152.96	152.94	152.79	152.35	152.10	
10	151.14	150.98	150.96	150.90	150.90	151.40	153.43	152.93	153.05	152.79	152.35	152.10	
11	151.13	150.98	150.96	150.90	150.90	151.40	153.28	152.86	153.05	152.76	152.35	152.10	
12	151.12	150.99	150.96	150.90	150.90	151.40	153.17	152.80	153.05	152.75	152.35	152.08	
13	151.11	151.00	150.95	150.90	150.90	151.40	153.13	152.78	153.04	152.73	152.35	152.08	
14	151.10	151.01	150.95	150.90	150.90	151.40	153.09	152.76	153.03	152.72	152.35	152.08	
15	151.09	151.01	150.95	150.90	150.90	151.40	153.05	152.74	153.02	152.70	152.35	152.08	
16	151.08	151.01	150.94	150.90	150.90	151.40	153.03	152.72	153.01	152.69	152.35	152.08	
17	151.07	151.01	150.93	150.90	150.90	151.40	152.99	152.69	153.00	152.67	152.35	152.07	
18	151.06	151.02	150.92	150.90	150.90	151.60	152.94	152.66	152.99	152.66	152.35	152.03	
19	151.05	151.02	150.92	150.90	150.90	152.00	152.90	152.63	152.98	152.64	152.35	152.00	
20	151.04	151.03	150.92	150.90	150.90	152.04	152.87	152.60	152.97	152.62	152.34	152.00	
21	151.03	151.03	150.92	150.90	150.90	152.10	152.83	152.58	152.96	152.60	152.34	152.00	
22	151.02	151.04	150.92	150.90	150.90	152.10	152.77	152.57	152.95	152.58	152.34	152.00	
23	151.01	151.05	150.92	150.90	150.90	152.10	152.75	152.55	152.94	152.56	152.20	152.00	
24	151.00	151.06	150.91	150.90	150.90	152.72	152.73	152.52	152.93	152.53	152.20	152.00	
25	150.99	151.06	150.91	150.90	150.90	152.76	152.68	152.49	152.92	152.50	152.20	151.98	
26	150.98	151.06	150.90	150.90	150.90	152.85	152.65	152.45	152.90	152.47	152.20	151.95	
27	150.97	151.08	150.90	150.90	150.90	152.92	152.60	152.42	152.89	152.44	152.20	151.95	
28	150.96	151.08	150.90	150.90	150.90	152.89	152.57	152.39	152.88	152.41	152.15	151.93	
29	150.95	151.08	150.90	150.90	150.90	152.76	152.53	152.38	152.87	152.40	152.15	151.90	
30	150.95	151.08	150.90	150.90	150.99	152.70	152.50	152.37	152.86	152.40	152.15	151.90	
31		151.08		150.90	151.06		152.50		152.85	152.39		151.90	
Mean	151.09	151.01	150.95	150.90	150.91	151.78	152.90	152.65	152.87	152.66	152.32	152.04	
Max	151.27	151.08	151.06	150.90	151.06	152.92	153.47	152.96	153.05	152.85	152.40	152.13	153.47
Min	150.95	150.95	150.90	150.90	150.90	151.06	152.50	152.37	152.38	152.39	152.15	151.90	150.90
Annual Max Momentary Gage Height	153.50		m. (MSL.) ,				at 06.00 Hours, on Oct 10, 2019						
Zero Gage at Bottom Elevation	149.70		m. (MSL.) ,			River Bed	151.08	m. (MSL.)					
Left Bank Elevation		161.28		m. (MSL.) ,									
Right Bank Elevation		161.31		m. (MSL.) ,		Drainage Are	4,880	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	0.85	0.40	0.22	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.46	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.60	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.85	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.20	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	16.00	1.70	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	20.45	2.80	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	21.80	4.50	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	23.15	5.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	21.35	4.75	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	15.20	3.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	11.10	2.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	9.90	1.80	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	8.75	1.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	7.75	1.40	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	7.25	1.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	6.25	0.95	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.65	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	3.40	0.50	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	2.60	0.48	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	1.70	0.46	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.44	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	1.20	1.30	0.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	1.60	0.90	0.36	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	3.00	0.75	0.31	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	4.50	0.50	0.27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	3.80	0.46	0.23	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	1.60	0.41	0.22	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	1.00	0.37	0.21	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	16.70	196.06	40.24	0.22	0.00	0.00	0.00	253.22 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	0.56	6.32	1.34	0.01	0.00	0.00	0.00	0.69 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	4.50	23.15	5.50	0.22	0.00	0.00	0.00	23.15 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.21	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	1.44	16.94	3.48	0.02	0.00	0.00	0.00	21.88 MCM
<b>Momentary Peak</b>	24.50 CMS. at 153.50 m. (MSL.) at 06.00 Hours , on Oct 10 , 2019												
<b>Runoff Yield</b>	0.14 Liters/Second/Square KM.			<b>Momentary Peak Yield</b>			5.02 Liters/Second/Square KM.						

## WATER YEAR : 2019

## MUN RIVER BASIN

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

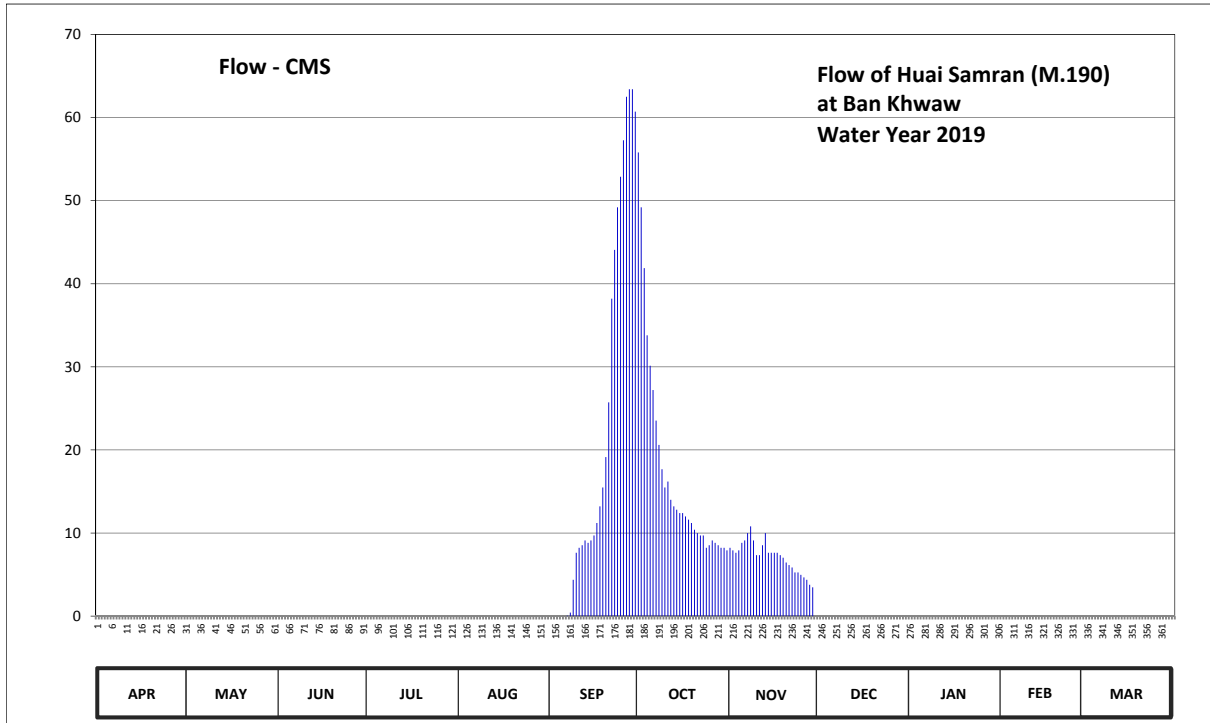
Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on right at the bridge on highway.

	<b>Ban Khwaw</b>	<b>Amphoe Uthumphon Phisai</b>	<b>Changwat</b>	<b>Si Sa Ket</b>
<b>Drainage Area</b>	2,339 sq.km.			
<b>Type of Gage</b>	Water - stage recorder.			
<b>Zero Gage at Bottom</b>	+119.700 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b>	+129.804 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2008 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2008 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	2008 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.96	123.50	123.37	123.03	122.48	122.14	125.17	124.44	124.28	124.11	123.67	123.14	
2	122.96	123.50	123.36	123.03	122.48	122.17	125.08	124.43	124.28	124.10	123.66	123.11	
3	123.05	123.49	123.35	123.02	122.48	122.31	124.98	124.42	124.28	124.09	123.64	123.10	
4	123.30	123.49	123.34	123.00	122.48	122.69	124.87	124.43	124.28	124.08	123.62	123.08	
5	123.32	123.48	123.33	122.97	122.48	123.14	124.82	124.46	124.27	124.06	123.60	123.07	
6	123.32	123.47	123.31	122.96	122.48	123.55	124.78	124.47	124.27	124.05	123.59	123.04	
7	123.32	123.46	123.30	122.94	122.48	123.86	124.73	124.50	124.27	124.03	123.58	123.02	
8	123.33	123.46	123.29	122.91	122.48	124.05	124.69	124.52	124.27	124.02	123.56	122.99	
9	123.33	123.47	123.28	122.89	122.47	124.31	124.65	124.47	124.27	124.01	123.54	122.97	
10	123.34	123.48	123.26	122.88	122.43	124.42	124.62	124.41	124.27	124.00	123.53	122.94	
11	123.34	123.49	123.25	122.86	122.40	124.44	124.63	124.41	124.27	123.98	123.52	122.92	
12	123.35	123.50	123.24	122.84	122.38	124.45	124.60	124.45	124.27	123.96	123.51	122.89	
13	123.35	123.50	123.23	122.81	122.35	124.47	124.58	124.50	124.27	123.95	123.49	122.87	
14	123.34	123.50	123.21	122.79	122.32	124.46	124.57	124.42	124.26	123.93	123.48	122.84	
15	123.33	123.50	123.21	122.76	122.31	124.47	124.56	124.42	124.26	123.92	123.45	122.81	
16	123.33	123.50	123.21	122.73	122.29	124.49	124.56	124.42	124.26	123.91	123.43	122.80	
17	123.32	123.49	123.22	122.72	122.26	124.53	124.55	124.42	124.26	123.89	123.42	122.78	
18	123.31	123.49	123.21	122.69	122.23	124.58	124.54	124.41	124.25	123.88	123.40	122.77	
19	123.31	123.48	123.19	122.67	122.19	124.62	124.53	124.40	124.25	123.87	123.38	122.76	
20	123.30	123.46	123.19	122.64	122.16	124.67	124.51	124.38	124.25	123.86	123.36	122.75	
21	123.29	123.45	123.19	122.62	122.12	124.76	124.50	124.37	124.24	123.84	123.34	122.73	
22	123.28	123.45	123.19	122.60	122.10	124.93	124.49	124.36	124.23	123.83	123.31	122.71	
23	123.28	123.44	123.18	122.57	122.10	125.01	124.49	124.34	124.22	123.82	123.28	122.68	
24	123.29	123.45	123.17	122.55	122.10	125.08	124.44	124.34	124.20	123.80	123.27	122.66	
25	123.28	123.43	123.15	122.54	122.11	125.13	124.45	124.33	124.20	123.79	123.24	122.64	
26	123.27	123.41	123.14	122.53	122.12	125.19	124.47	124.32	124.19	123.77	123.22	122.62	
27	123.26	123.40	123.12	122.52	122.11	125.25	124.46	124.31	124.18	123.76	123.20	122.59	
28	123.47	123.40	123.10	122.52	122.08	125.26	124.45	124.29	124.16	123.75	123.18	122.56	
29	123.47	123.39	123.07	122.51	122.06	125.26	124.44	124.28	124.15	123.72	123.16	122.54	
30	123.49	123.38	123.04	122.50	122.09	125.23	124.44	124.28	124.14	123.70	123.14	122.53	
31		123.38		122.50	122.12		124.43		124.12	123.69		122.51	
Mean	123.30	123.46	123.22	122.75	122.28	124.30	124.62	124.40	124.24	123.91	123.44	122.82	
Max	123.49	123.50	123.37	123.03	122.48	125.26	125.17	124.52	124.28	124.11	123.67	123.14	125.26
Min	122.96	123.38	123.04	122.50	122.06	122.14	124.43	124.28	124.12	123.69	123.16	122.51	122.06
Annual Max Momentary Gage Height	125.27												at 01.00 Hours, on Sep 29, 2019
Zero Gage at Bottom Elevation	119.70						120.57						m. (MSL.)
Left Bank Elevation		129.80											m. (MSL.)
Right Bank Elevation		129.85											m. (MSL.)
Drainage Area						2,339							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	55.80	8.22	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	49.20	7.92	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	41.87	7.63	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	33.80	7.92	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	30.13	8.81	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	27.20	9.11	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.06	23.53	10.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.43	20.60	10.80	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	4.36	17.67	9.11	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	7.63	15.47	7.33	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	8.22	16.20	7.33	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	8.52	14.00	8.52	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	9.11	13.20	10.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	8.81	12.80	7.63	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	9.11	12.40	7.63	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	9.70	12.40	7.63	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	11.20	12.00	7.63	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	13.20	11.60	7.33	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	15.47	11.20	7.03	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	19.13	10.40	6.44	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	25.73	10.00	6.14	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	38.20	9.70	5.85	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	44.07	9.70	5.25	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	49.20	8.22	5.25	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	52.87	8.52	4.96	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	57.27	9.11	4.66	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	62.50	8.81	4.36	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	63.40	8.52	3.77	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	63.40	8.22	3.47	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	60.70	8.22	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	7.92	7.92	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	642.29	538.41	207.73	0.00	0.00	0.00	0.00	1388.43 CMSDAY
<b>Mean</b>	0.00	0.00	0.00	0.00	0.00	21.41	17.37	6.92	0.00	0.00	0.00	0.00	3.79 CMS
<b>Max</b>	0.00	0.00	0.00	0.00	0.00	63.40	55.80	10.80	0.00	0.00	0.00	0.00	63.40 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	7.92	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.00	0.00	0.00	55.49	46.52	17.95	0.00	0.00	0.00	0.00	119.96 MCM
<b>Momentary Peak</b>	64.30	CMS. at 125.27 m. (MSL.) at 01.00 Hours , on Sep 29 , 2019											
<b>Runoff Yield</b>	1.63	Liters/Second/Square KM. Momentary Peak Yield 27.49 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MUN RIVER BASIN

## Lam Ta Khong at Ban Khok Kruad, Nakhon Ratchasima (M.191)

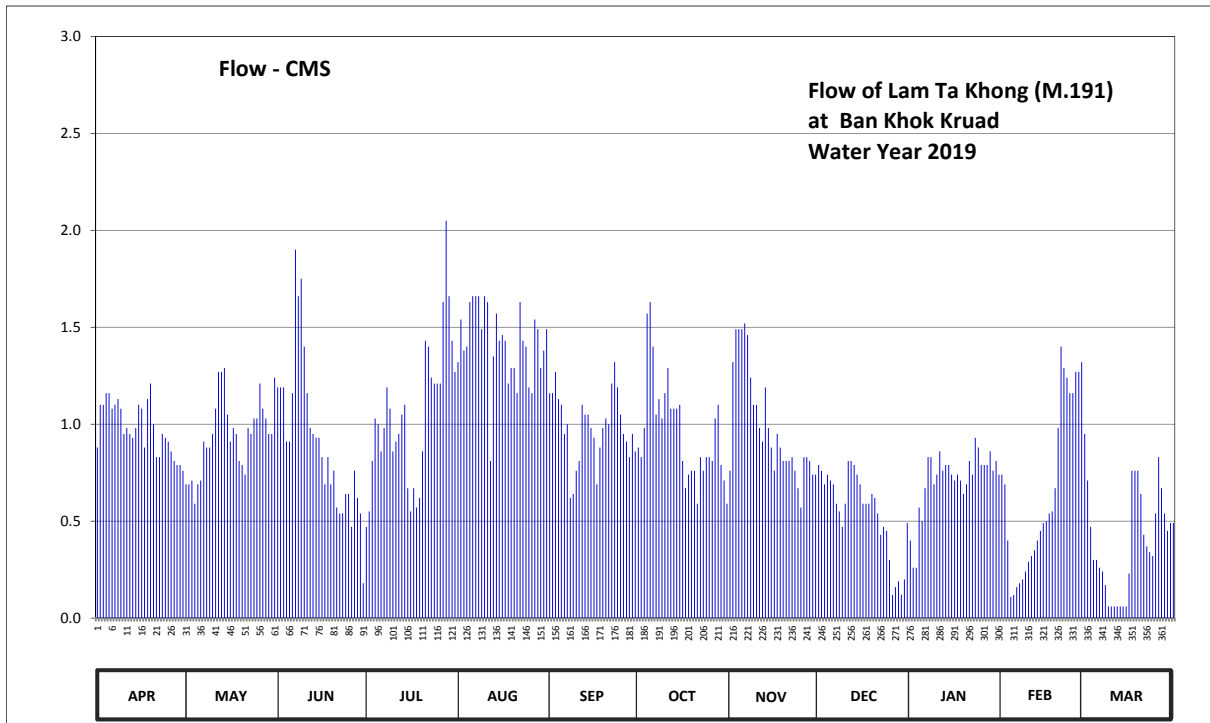
Lat 44 - 55 - 57 N Long 101 - 57 - 07 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Khok Kruad	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	2,854 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+191.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+195.991 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.73	192.65	192.85	192.54	192.90	192.84	192.73	192.68	192.69	192.50	192.67	192.76	
2	192.82	192.65	192.85	192.59	192.98	192.84	192.71	192.90	192.68	192.41	192.65	192.66	
3	192.82	192.66	192.85	192.70	192.92	192.88	192.77	192.96	192.65	192.41	192.50	192.54	
4	192.84	192.61	192.74	192.79	192.93	192.83	192.99	192.96	192.67	192.60	192.29	192.44	
5	192.84	192.65	192.74	192.78	193.01	192.82	193.01	192.96	192.66	192.56	192.30	192.44	
6	192.81	192.66	192.84	192.72	193.02	192.76	192.93	192.97	192.65	192.64	192.33	192.41	
7	192.82	192.74	193.10	192.77	193.02	192.78	192.80	192.95	192.61	192.71	192.35	192.40	
8	192.83	192.73	193.02	192.85	193.02	192.62	192.83	192.87	192.59	192.71	192.37	192.34	
9	192.81	192.73	193.05	192.81	192.96	192.63	192.79	192.82	192.54	192.65	192.40	192.25	
10	192.76	192.76	192.93	192.72	193.02	192.68	192.84	192.82	192.61	192.67	192.43	192.25	
11	192.77	192.81	192.84	192.74	193.01	192.70	192.89	192.77	192.70	192.72	192.45	192.25	
12	192.76	192.88	192.77	192.76	192.70	192.82	192.81	192.74	192.70	192.68	192.47	192.25	
13	192.75	192.88	192.76	192.80	192.91	192.80	192.81	192.85	192.69	192.69	192.50	192.25	
14	192.77	192.89	192.75	192.82	192.99	192.80	192.81	192.77	192.67	192.69	192.53	192.25	
15	192.82	192.80	192.75	192.64	192.94	192.77	192.82	192.73	192.65	192.67	192.55	192.25	
16	192.81	192.74	192.71	192.59	192.95	192.75	192.70	192.68	192.61	192.66	192.56	192.39	
17	192.73	192.77	192.65	192.64	192.94	192.65	192.64	192.76	192.61	192.67	192.58	192.68	
18	192.83	192.76	192.71	192.60	192.86	192.73	192.67	192.73	192.61	192.66	192.59	192.68	
19	192.86	192.70	192.65	192.62	192.89	192.77	192.68	192.70	192.63	192.63	192.64	192.68	
20	192.78	192.69	192.68	192.72	192.89	192.79	192.68	192.70	192.62	192.65	192.77	192.63	
21	192.71	192.67	192.60	192.94	192.84	192.78	192.61	192.70	192.58	192.70	192.93	192.52	
22	192.71	192.77	192.58	192.93	193.01	192.86	192.71	192.71	192.52	192.67	192.89	192.48	
23	192.76	192.76	192.58	192.87	192.94	192.90	192.68	192.68	192.54	192.75	192.87	192.46	
24	192.75	192.79	192.63	192.86	192.93	192.85	192.71	192.64	192.53	192.73	192.84	192.45	
25	192.74	192.79	192.63	192.86	192.85	192.80	192.71	192.60	192.44	192.69	192.84	192.58	
26	192.72	192.86	192.54	192.86	192.84	192.76	192.70	192.71	192.30	192.69	192.88	192.71	
27	192.70	192.81	192.68	193.01	192.98	192.74	192.79	192.71	192.33	192.69	192.88	192.64	
28	192.69	192.79	192.62	193.15	192.96	192.71	192.82	192.70	192.36	192.72	192.90	192.58	
29	192.69	192.76	192.58	193.02	192.89	192.76	192.69	192.67	192.30	192.68	192.75	192.53	
30	192.68	192.76	192.35	192.94	192.92	192.72	192.66	192.67	192.37	192.70		192.55	
31		192.87		192.88	192.96		192.61		192.55	192.67		192.55	
Mean	192.77	192.75	192.73	192.79	192.93	192.77	192.76	192.77	192.57	192.65	192.61	192.48	
Max	192.86	192.89	193.10	193.15	193.02	192.90	193.01	192.97	192.70	192.75	192.93	192.76	193.15
Min	192.68	192.61	192.35	192.54	192.70	192.62	192.61	192.60	192.30	192.41	192.29	192.25	192.25
Annual Max Momentary Gage Height	193.26		m. (MSL.) ,				at 10.00 Hours ,						on Jul 28 , 2019
Zero Gage at Bottom Elevation	191.80		m. (MSL.) ,			River Bed	192.01		m. (MSL.)				
Left Bank Elevation		195.98		m. (MSL.) ,									
Right Bank Elevation		196.00		m. (MSL.) ,		Drainage Are	2,854		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	0.69	1.19	0.47	1.32	1.16	0.88	0.76	0.79	0.40	0.74	0.95	
2	1.10	0.69	1.19	0.55	1.54	1.16	0.83	1.32	0.76	0.26	0.69	0.71	
3	1.10	0.71	1.19	0.81	1.38	1.27	0.98	1.49	0.69	0.26	0.40	0.47	
4	1.16	0.59	0.91	1.03	1.40	1.13	1.57	1.49	0.74	0.57	0.11	0.30	
5	1.16	0.69	0.91	1.00	1.63	1.10	1.63	1.49	0.71	0.50	0.12	0.30	
6	1.08	0.71	1.16	0.86	1.66	0.95	1.40	1.52	0.69	0.67	0.16	0.26	
7	1.10	0.91	1.90	0.98	1.66	1.00	1.05	1.46	0.59	0.83	0.18	0.24	
8	1.13	0.88	1.66	1.19	1.66	0.62	1.13	1.24	0.55	0.83	0.20	0.17	
9	1.08	0.88	1.75	1.08	1.49	0.64	1.03	1.10	0.47	0.69	0.24	0.06	
10	0.95	0.95	1.40	0.86	1.66	0.76	1.16	1.10	0.59	0.74	0.29	0.06	
11	0.98	1.08	1.16	0.91	1.63	0.81	1.29	0.98	0.81	0.86	0.32	0.06	
12	0.95	1.27	0.98	0.95	0.81	1.10	1.08	0.91	0.81	0.76	0.35	0.06	
13	0.93	1.27	0.95	1.05	1.35	1.05	1.08	1.19	0.79	0.79	0.40	0.06	
14	0.98	1.29	0.93	1.10	1.57	1.05	1.08	0.98	0.74	0.79	0.45	0.06	
15	1.10	1.05	0.93	0.67	1.43	0.98	1.10	0.88	0.69	0.74	0.49	0.06	
16	1.08	0.91	0.83	0.55	1.46	0.93	0.81	0.76	0.59	0.71	0.50	0.23	
17	0.88	0.98	0.69	0.67	1.43	0.69	0.67	0.95	0.59	0.74	0.54	0.76	
18	1.13	0.95	0.83	0.57	1.21	0.88	0.74	0.88	0.59	0.71	0.55	0.76	
19	1.21	0.81	0.69	0.62	1.29	0.98	0.76	0.81	0.64	0.64	0.67	0.76	
20	1.00	0.79	0.76	0.86	1.29	1.03	0.76	0.81	0.62	0.69	0.98	0.64	
21	0.83	0.74	0.57	1.43	1.16	1.00	0.59	0.81	0.54	0.81	1.40	0.43	
22	0.83	0.98	0.54	1.40	1.63	1.21	0.83	0.83	0.43	0.74	1.29	0.37	
23	0.95	0.95	0.54	1.24	1.43	1.32	0.76	0.76	0.47	0.93	1.24	0.34	
24	0.93	1.03	0.64	1.21	1.40	1.19	0.83	0.67	0.45	0.88	1.16	0.32	
25	0.91	1.03	0.64	1.21	1.19	1.05	0.83	0.57	0.30	0.79	1.16	0.54	
26	0.86	1.21	0.47	1.21	1.16	0.95	0.81	0.83	0.12	0.79	1.27	0.83	
27	0.81	1.08	0.76	1.63	1.54	0.91	1.03	0.83	0.16	0.79	1.27	0.67	
28	0.79	1.03	0.62	2.05	1.49	0.83	1.10	0.81	0.19	0.86	1.32	0.54	
29	0.79	0.95	0.54	1.66	1.29	0.95	0.79	0.74	0.12	0.76	0.93	0.45	
30	0.76	0.95	0.18	1.43	1.38	0.86	0.71	0.74	0.20	0.81		0.49	
31		1.24		1.27	1.49		0.59		0.49	0.74		0.49	
Total	29.44	29.29	27.51	32.52	44.03	29.56	29.90	29.71	16.92	22.08	19.42	12.44	322.82 CMSDAY
Mean	0.98	0.94	0.92	1.05	1.42	0.99	0.96	0.99	0.55	0.71	0.67	0.40	0.88 CMS
Max	1.21	1.29	1.90	2.05	1.66	1.32	1.63	1.52	0.81	0.93	1.40	0.95	2.05 CMS
Min	0.76	0.59	0.18	0.47	0.81	0.62	0.59	0.57	0.12	0.26	0.11	0.06	0.06 CMS
Runoff	2.54	2.53	2.38	2.81	3.80	2.55	2.58	2.57	1.46	1.91	1.68	1.07	27.89 MCM
Momentary Peak	2.38	CMS. at 193.26 m. (MSL.) at 10.00 Hours , on Jul 28, 2019											
Runoff Yield	0.31	Liters/Second/Square KM. Momentary Peak Yield 0.83 Liters/Second/Square KM.											

**WATER YEAR : 2019****MUN RIVER BASIN****Mun River at Ban Kok, Si Sa Ket (M.193)**

Lat 15 - 08 - 30 N Long 104 - 42 - 45 E

Location : on left bank at the bridge on road.

	<b>Ban Kok</b>	<b>Amphoe Kanthararom</b>	<b>Changwat</b>	<b>Si Sa Ket</b>
<b>Drainage Area</b>	53,263	sq.km.		
<b>Type of Gage</b>	Staff gage			
<b>Zero Gage at Bottom</b>	+106.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank near the gage site.			<b>Elevation</b> +123.000 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00 ,09.00, 12.00,15.00 and 18.00 hours.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings			
<b>Period of Available Gage Records</b>	2019 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2019 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	2019 to date			
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records poor. Stage-discharge relation defined by 29 discharge measurements made in 2019.			

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.50	106.86	106.96	106.59	107.46	111.29	113.98	107.85	107.87	107.06	107.16	107.05	
2	106.50	106.91	106.95	106.58	107.51	111.65	113.69	107.80	107.87	107.05	107.09	107.05	
3	106.50	106.96	106.99	106.53	107.50	111.92	113.40	107.81	107.86	107.05	107.05	107.05	
4	106.49	106.97	107.03	106.57	107.44	112.32	113.07	107.85	107.88	107.06	107.05	107.05	
5	106.50	107.02	107.10	106.57	107.40	113.68	112.23	107.88	107.89	107.04	107.05	107.05	
6	106.50	107.09	107.15	106.56	107.33	114.38	111.15	107.86	107.87	107.03	107.05	107.03	
7	106.51	107.12	107.16	106.52	107.23	115.29	110.29	107.85	107.90	107.02	107.05	107.03	
8	106.55	107.15	107.08	106.56	107.06	116.02	109.57	107.85	107.87	107.01	107.05	107.03	
9	106.55	107.17	107.00	106.59	106.97	116.46	109.20	107.82	107.86	107.01	107.04	107.04	
10	106.53	107.02	106.95	106.67	107.20	116.78	108.84	107.81	107.90	107.02	107.04	107.04	
11	106.52	107.01	106.92	106.71	107.26	116.96	108.55	107.81	107.90	107.02	107.05	107.04	
12	106.52	107.08	106.89	106.73	107.25	117.05	108.46	107.80	107.88	107.02	107.05	107.05	
13	106.51	107.26	106.84	106.72	107.24	117.05	108.35	107.75	107.91	107.01	107.05	107.05	
14	106.50	107.26	106.80	106.73	107.28	117.04	108.20	107.76	107.95	107.01	107.04	107.05	
15	106.51	107.23	106.74	106.76	107.20	116.94	108.05	107.82	107.95	107.00	107.04	107.05	
16	106.53	107.18	106.75	106.79	107.20	116.85	107.92	107.75	107.95	107.00	107.04	107.05	
17	106.52	107.09	106.75	106.80	107.24	116.74	107.87	107.78	107.99	107.00	107.03	107.05	
18	106.50	107.12	106.78	106.93	107.28	116.64	107.87	107.80	108.01	107.00	107.02	107.05	
19	106.50	107.09	106.73	106.92	107.21	116.52	107.89	107.82	108.02	107.00	107.00	107.05	
20	106.50	107.07	106.71	106.90	107.23	116.40	107.91	107.78	108.02	107.00	107.01	107.05	
21	106.53	107.05	106.69	106.92	107.31	116.28	108.20	107.80	108.02	107.00	107.02	107.05	
22	106.53	107.00	106.66	106.99	107.33	116.17	108.83	107.83	108.02	107.02	107.03	107.05	
23	106.54	107.03	106.63	107.16	107.33	116.07	108.87	107.81	108.02	107.02	107.03	107.05	
24	106.59	107.01	106.62	107.30	107.46	115.90	108.15	107.81	108.02	107.03	107.03	107.05	
25	106.66	106.92	106.61	107.35	107.84	115.71	107.61	107.82	108.01	107.06	107.03	107.05	
26	106.68	106.71	106.60	107.40	108.20	115.52	107.85	107.85	107.90	107.10	107.03	107.05	
27	106.71	106.75	106.56	107.32	108.53	115.33	107.52	107.85	107.85	107.12	107.03	107.05	
28	106.75	106.89	106.56	107.22	109.03	115.02	107.67	107.89	107.72	107.15	107.04	107.04	
29	106.78	107.00	106.57	107.14	109.51	114.73	107.77	107.88	107.47	107.18	107.04	107.04	
30	106.82	106.97	106.58	107.10	109.93	114.32	107.83	107.85	107.30	107.20	107.02	107.04	
31		106.96		107.24	110.27		107.84		107.15	107.18		107.02	
Mean	106.56	107.03	106.81	106.87	107.68	115.43	109.18	107.82	107.87	107.05	107.04	107.05	
Max	106.82	107.26	107.16	107.40	110.27	117.05	113.98	107.89	108.02	107.20	107.16	107.05	117.05
Min	106.49	106.71	106.56	106.52	106.97	111.29	107.52	107.75	107.15	107.00	107.00	107.02	106.49
Annual Max Momentary Gage Height	117.05		m. (MSL.) ,			at 06.00 Hours ,	on Sep 12 , 2019						
Zero Gage at Bottom Elevation	106.00		m. (MSL.) ,			River Bed	105.20	m. (MSL.)					
Left Bank Elevation		120.45		m. (MSL.) ,									
Right Bank Elevation		120.18		m. (MSL.) ,		Drainage Are	53,263	Square Kilometers					





## WATER YEAR : 2019

## PING RIVER BASIN

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

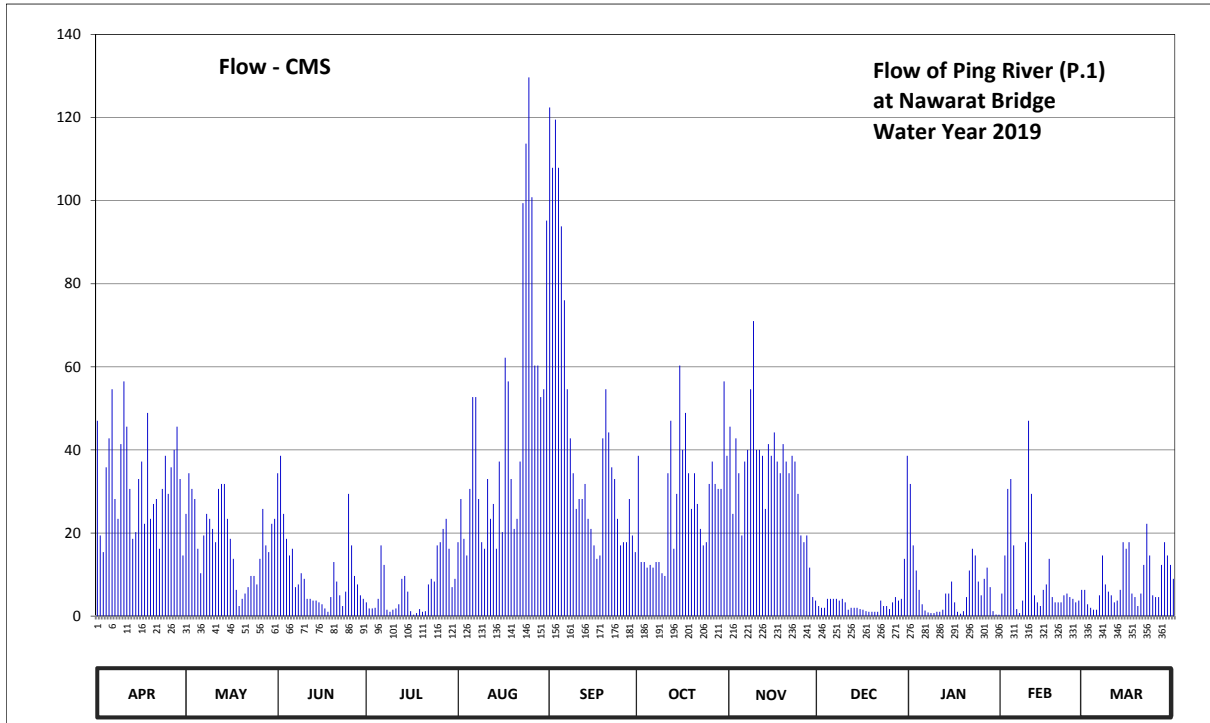
Lat 18 - 47 - 10 N Long 99 - 00 - 27 E

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

	<b>Ban</b>	Nawarat Bridge	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	6,350	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+300.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near automatic gage building				<b>Elevation</b>	+305.310 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1921 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1954 - 1960 , 1967 to date					
<b>Rated by Flot</b>	1936 - 1938					
<b>Rated by Current Meter</b>	1954 - 1960 , 1967 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	302.00	301.83	301.91	301.53	301.76	302.42	301.94	301.99	301.51	301.89	301.58	301.60	
2	301.78	301.91	301.94	301.49	301.86	302.32	301.70	301.83	301.50	301.75	301.72	301.52	
3	301.73	301.88	301.83	301.49	301.77	302.40	301.70	301.97	301.50	301.67	301.88	301.50	
4	301.92	301.86	301.77	301.50	301.72	302.32	301.68	301.91	301.55	301.60	301.90	301.47	
5	301.97	301.74	301.72	301.55	301.88	302.22	301.69	301.78	301.55	301.52	301.75	301.47	
6	302.04	301.66	301.74	301.75	302.03	302.14	301.68	301.93	301.55	301.46	301.48	301.57	
7	301.86	301.78	301.61	301.69	302.03	302.04	301.70	301.95	301.55	301.43	301.42	301.72	
8	301.82	301.83	301.62	301.47	301.86	301.97	301.70	302.04	301.54	301.42	301.54	301.62	
9	301.96	301.82	301.66	301.44	301.76	301.91	301.66	302.12	301.55	301.42	301.76	301.59	
10	302.05	301.80	301.64	301.47	301.74	301.84	301.65	301.95	301.53	301.44	302.00	301.57	
11	301.99	301.76	301.55	301.49	301.90	301.86	301.91	301.95	301.47	301.44	301.87	301.53	
12	301.88	301.88	301.55	301.52	301.82	301.86	302.00	301.94	301.50	301.47	301.57	301.54	
13	301.77	301.89	301.54	301.64	301.85	301.89	301.74	301.84	301.50	301.58	301.53	301.60	
14	301.79	301.89	301.54	301.65	301.74	301.82	301.87	301.96	301.50	301.58	301.51	301.76	
15	301.90	301.82	301.53	301.59	301.93	301.80	302.07	301.94	301.48	301.63	301.60	301.74	
16	301.93	301.77	301.52	301.45	301.79	301.75	301.95	301.98	301.47	301.53	301.62	301.76	
17	301.81	301.71	301.49	301.39	302.08	301.71	302.01	301.93	301.45	301.44	301.71	301.58	
18	302.01	301.60	301.44	301.42	302.05	301.72	301.91	301.91	301.44	301.41	301.56	301.56	
19	301.82	301.51	301.56	301.48	301.90	301.97	301.84	301.96	301.44	301.45	301.53	301.51	
20	301.85	301.55	301.70	301.44	301.80	302.04	301.91	301.93	301.44	301.56	301.53	301.58	
21	301.86	301.58	301.63	301.45	301.82	301.98	301.85	301.91	301.44	301.67	301.53	301.69	
22	301.74	301.61	301.57	301.62	301.93	301.92	301.80	301.94	301.54	301.74	301.57	301.81	
23	301.88	301.65	301.51	301.64	302.26	301.90	301.75	301.93	301.51	301.72	301.58	301.72	
24	301.94	301.65	301.59	301.63	302.36	301.82	301.76	301.87	301.51	301.63	301.56	301.57	
25	301.87	301.62	301.87	301.75	302.47	301.75	301.89	301.78	301.48	301.57	301.55	301.56	
26	301.92	301.71	301.75	301.76	302.27	301.76	301.93	301.76	301.53	301.64	301.53	301.56	
27	301.95	301.84	301.65	301.80	302.07	301.76	301.89	301.78	301.56	301.68	301.54	301.69	
28	301.99	301.75	301.62	301.82	302.07	301.86	301.88	301.68	301.54	301.61	301.60	301.76	
29	301.90	301.73	301.57	301.74	302.03	301.78	301.88	301.56	301.55	301.45	301.71	301.72	
30	301.72	301.81	301.55	301.61	302.04	301.73	302.05	301.54	301.71	301.40		301.69	
31		301.82		301.64	302.23		301.94		301.94	301.39		301.64	
Mean	301.89	301.75	301.64	301.58	301.96	301.94	301.84	301.89	301.53	301.55	301.63	301.62	
Max	302.05	301.91	301.94	301.82	302.47	302.42	302.07	302.12	301.94	301.89	302.00	301.81	302.47
Min	301.72	301.51	301.44	301.39	301.72	301.71	301.65	301.54	301.44	301.39	301.42	301.47	301.39
Annual Max Momentary Gage Height	302.55		m. (MSL.) ,			at 22.00 Hours ,		on Aug 31 , 2019					
Zero Gage at Bottom Elevation	300.50		m. (MSL.) ,			River Bed	299.24	m. (MSL.)					
Left Bank Elevation		307.86		m. (MSL.) ,									
Right Bank Elevation		307.76		m. (MSL.) ,		Drainage Are	6,350	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.00	24.60	34.40	3.29	17.80	122.40	38.60	45.60	2.43	31.80	5.44	6.30	
2	19.40	34.40	38.60	1.84	28.20	107.90	13.00	24.60	2.00	17.00	14.60	2.86	
3	15.40	30.60	24.60	1.84	18.60	119.50	13.00	42.80	2.00	10.99	30.60	2.00	
4	35.80	28.20	18.60	2.00	14.60	107.90	11.66	34.40	4.15	6.30	33.00	1.52	
5	42.80	16.20	14.60	4.15	30.60	93.80	12.33	19.40	4.15	2.86	17.00	1.52	
6	54.60	10.32	16.20	17.00	52.70	76.00	11.66	37.20	4.15	1.36	1.68	5.01	
7	28.20	19.40	6.97	12.33	52.70	54.60	13.00	40.00	4.15	0.88	0.72	14.60	
8	23.40	24.60	7.64	1.52	28.20	42.80	13.00	54.60	3.72	0.72	3.72	7.64	
9	41.40	23.40	10.32	1.04	17.80	34.40	10.32	71.00	4.15	0.72	17.80	5.87	
10	56.50	21.00	8.98	1.52	16.20	25.80	9.65	40.00	3.29	1.04	47.00	5.01	
11	45.60	17.80	4.15	1.84	33.00	28.20	34.40	40.00	1.52	1.04	29.40	3.29	
12	30.60	30.60	4.15	2.86	23.40	28.20	47.00	38.60	2.00	1.52	5.01	3.72	
13	18.60	31.80	3.72	8.98	27.00	31.80	16.20	25.80	2.00	5.44	3.29	6.30	
14	20.20	31.80	3.72	9.65	16.20	23.40	29.40	41.40	2.00	5.44	2.43	17.80	
15	33.00	23.40	3.29	5.87	37.20	21.00	60.30	38.60	1.68	8.31	6.30	16.20	
16	37.20	18.60	2.86	1.20	20.20	17.00	40.00	44.20	1.52	3.29	7.64	17.80	
17	22.20	13.80	1.84	0.36	62.20	13.80	48.90	37.20	1.20	1.04	13.80	5.44	
18	48.90	6.30	1.04	0.72	56.50	14.60	34.40	34.40	1.04	0.56	4.58	4.58	
19	23.40	2.43	4.58	1.68	33.00	42.80	25.80	41.40	1.04	1.20	3.29	2.43	
20	27.00	4.15	13.00	1.04	21.00	54.60	34.40	37.20	1.04	4.58	3.29	5.44	
21	28.20	5.44	8.31	1.20	23.40	44.20	27.00	34.40	1.04	10.99	3.29	12.33	
22	16.20	6.97	5.01	7.64	37.20	35.80	21.00	38.60	3.72	16.20	5.01	22.20	
23	30.60	9.65	2.43	8.98	99.40	33.00	17.00	37.20	2.43	14.60	5.44	14.60	
24	38.60	9.65	5.87	8.31	113.70	23.40	17.80	29.40	2.43	8.31	4.58	5.01	
25	29.40	7.64	29.40	17.00	129.65	17.00	31.80	19.40	1.68	5.01	4.15	4.58	
26	35.80	13.80	17.00	17.80	100.80	17.80	37.20	17.80	3.29	8.98	3.29	4.58	
27	40.00	25.80	9.65	21.00	60.30	17.80	31.80	19.40	4.58	11.66	3.72	12.33	
28	45.60	17.00	7.64	23.40	60.30	28.20	30.60	11.66	3.72	6.97	6.30	17.80	
29	33.00	15.40	5.01	16.20	52.70	19.40	30.60	4.58	4.15	1.20	13.80	14.60	
30	14.60	22.20	4.15	6.97	54.60	15.40	56.50	3.72	13.80	0.40		12.33	
31		23.40		8.98	95.20		38.60		38.60	0.36		8.98	
Total	983.20	570.35	317.73	218.21	1434.35	1312.50	856.92	1004.56	128.67	190.77	300.17	264.67	7582.10 CMSDAY
Mean	32.77	18.40	10.59	7.04	46.27	43.75	27.64	33.49	4.15	6.15	10.35	8.54	20.72 CMS
Max	56.50	34.40	38.60	23.40	129.65	122.40	60.30	71.00	38.60	31.80	47.00	22.20	129.65 CMS
Min	14.60	2.43	1.04	0.36	14.60	13.80	9.65	3.72	1.04	0.36	0.72	1.52	0.36 CMS
Runoff	84.95	49.28	27.45	18.85	123.93	113.40	74.04	86.79	11.12	16.48	25.93	22.87	655.09 MCM
Momentary Peak	142.00 CMS. at 302.55 m. (MSL.) at 22.00 Hours , on Aug 31 , 2019												
Runoff Yield	3.27 Liters/Second/Square KM.			Momentary Peak Yield 22.36				Liters/Second/Square KM.					

## WATER YEAR : 2019

## PING RIVER BASIN

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

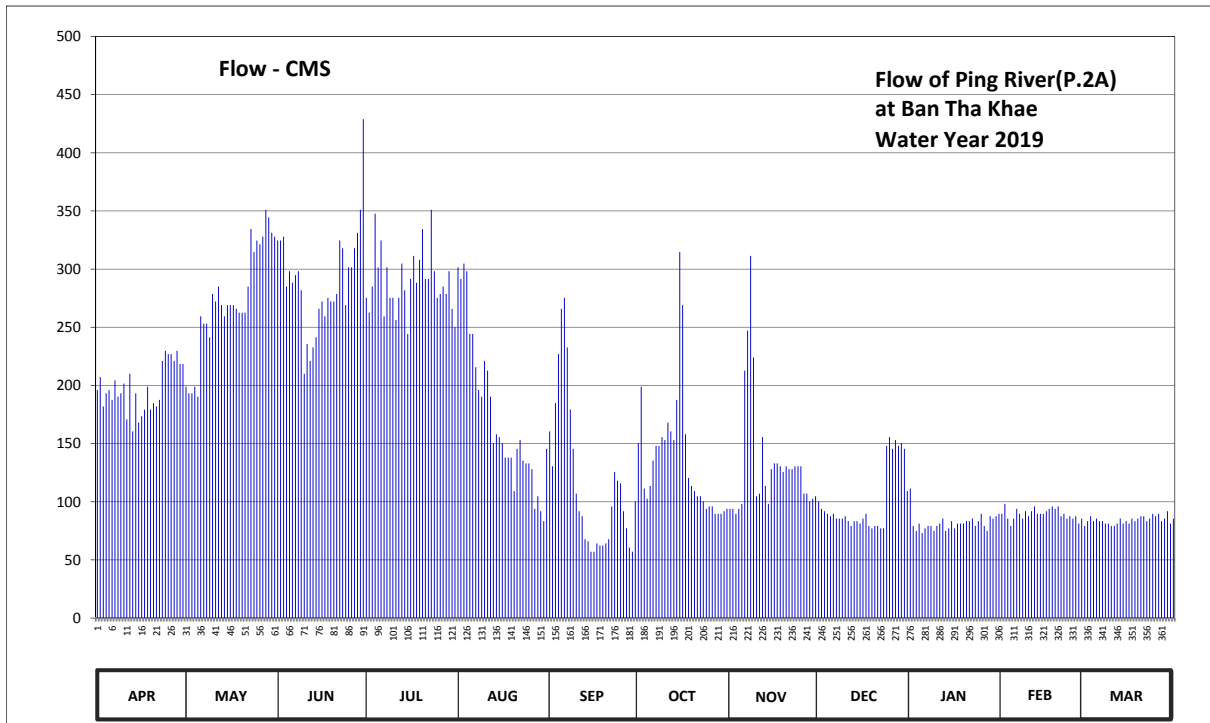
Lat 16 - 51 - 11 N Long 99 - 07 - 34 E

Location : on right bank about 200 meters downstream from Kittikhachon I Bridge.

	<b>Ban Tha Khae</b>	<b>Amphoe Mueang</b>	<b>Changwat Tak</b>
<b>Drainage Area</b>	38,681 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+104.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near automatic gage building	<b>Elevation</b>	+116.118 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1952 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1952 - 1960 , 1963 - 1967 , 1971 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1952 - 1960 , 1963 - 1967 , 1971 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 12 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.60	104.61	105.02	104.87	104.95	104.47	104.43	104.19	104.22	104.27	104.17	104.11	
2	104.64	104.59	105.02	104.83	104.92	104.35	104.61	104.19	104.19	104.12	104.21	104.13	
3	104.55	104.59	105.03	104.90	104.96	104.56	104.27	104.17	104.18	104.10	104.15	104.16	
4	104.59	104.61	104.90	105.09	104.94	104.71	104.23	104.19	104.17	104.13	104.12	104.14	
5	104.60	104.58	104.94	104.95	104.77	104.84	104.28	104.21	104.16	104.09	104.15	104.15	
6	104.57	104.82	104.91	105.02	104.77	104.87	104.37	104.66	104.17	104.11	104.19	104.15	
7	104.63	104.80	104.93	104.82	104.67	104.73	104.42	104.78	104.15	104.12	104.17	104.15	
8	104.58	104.80	104.94	104.95	104.60	104.54	104.42	104.98	104.15	104.12	104.15	104.14	
9	104.59	104.76	104.89	104.87	104.58	104.41	104.45	104.70	104.15	104.10	104.18	104.13	
10	104.62	104.88	104.65	104.87	104.69	104.25	104.44	104.24	104.16	104.12	104.16	104.12	
11	104.51	104.86	104.74	104.81	104.66	104.18	104.50	104.25	104.14	104.13	104.18	104.12	
12	104.65	104.90	104.69	104.87	104.58	104.16	104.47	104.45	104.12	104.15	104.20	104.13	
13	104.47	104.85	104.73	104.96	104.43	104.06	104.44	104.28	104.14	104.10	104.17	104.15	
14	104.59	104.82	104.76	104.89	104.46	104.05	104.57	104.21	104.14	104.11	104.17	104.13	
15	104.50	104.85	104.84	104.77	104.45	104.00	104.99	104.34	104.13	104.14	104.17	104.14	
16	104.52	104.85	104.86	104.92	104.43	104.00	104.85	104.36	104.15	104.11	104.18	104.13	
17	104.54	104.85	104.82	104.98	104.38	104.04	104.46	104.36	104.17	104.13	104.19	104.15	
18	104.61	104.84	104.87	104.91	104.38	104.03	104.31	104.35	104.12	104.13	104.20	104.15	
19	104.54	104.83	104.86	104.97	104.38	104.03	104.28	104.33	104.11	104.13	104.19	104.15	
20	104.56	104.83	104.86	105.05	104.26	104.04	104.26	104.35	104.12	104.14	104.20	104.16	
21	104.55	104.83	104.88	104.92	104.41	104.06	104.24	104.34	104.12	104.14	104.16	104.16	
22	104.57	104.90	105.02	104.92	104.44	104.20	104.24	104.34	104.11	104.15	104.17	104.14	
23	104.69	105.05	105.00	105.10	104.37	104.33	104.22	104.35	104.11	104.12	104.15	104.15	
24	104.72	104.99	104.85	104.94	104.36	104.30	104.19	104.35	104.42	104.14	104.16	104.17	
25	104.71	105.02	104.95	104.87	104.36	104.29	104.20	104.35	104.45	104.17	104.15	104.16	
26	104.71	105.01	104.95	104.88	104.34	104.18	104.20	104.25	104.41	104.12	104.16	104.17	
27	104.69	105.03	105.00	104.90	104.19	104.11	104.17	104.25	104.44	104.10	104.13	104.14	
28	104.72	105.10	105.04	104.88	104.24	104.02	104.17	104.22	104.42	104.16	104.15	104.15	
29	104.68	105.08	105.10	104.94	104.18	104.00	104.17	104.23	104.43	104.15	104.16	104.18	
30	104.68	105.04	105.31	104.84	104.14	104.22	104.18	104.24	104.41	104.16	104.11	104.13	
31		105.03		104.79	104.41		104.19		104.26	104.17		104.15	
Mean	104.61	104.86	104.91	104.91	104.51	104.27	104.36	104.35	104.21	104.13	104.17	104.14	
Max	104.72	105.10	105.31	105.10	104.96	104.87	104.99	104.98	104.45	104.27	104.21	104.18	105.31
Min	104.47	104.58	104.65	104.77	104.14	104.00	104.17	104.17	104.11	104.09	104.12	104.11	104.00
Annual Max Momentary Gage Height	105.83	m. (MSL.) , at 11.00 Hours, on May 27, 2019											
Zero Gage at Bottom Elevation	104.00	m. (MSL.) , River Bed 102.60 m. (MSL.)											
Left Bank Elevation	109.98	m. (MSL.) ,											
Right Bank Elevation	109.91	m. (MSL.) , Drainage Are 38,681 Square Kilometers											



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.00	198.80	324.60	275.40	301.50	160.50	150.50	93.90	100.40	111.40	89.70	79.20	
2	207.20	193.20	324.60	262.60	291.60	130.50	198.80	93.90	93.90	79.20	98.20	83.40	
3	182.00	193.20	327.90	285.00	304.80	184.80	111.40	89.70	91.80	75.00	85.50	87.60	
4	193.20	198.80	285.00	347.70	298.20	226.90	102.60	93.90	89.70	81.30	79.20	83.40	
5	196.00	190.40	298.20	301.50	244.30	265.80	113.60	98.20	87.60	73.20	85.50	85.50	
6	187.60	259.40	288.30	324.60	244.30	275.40	135.50	212.80	89.70	77.10	93.90	83.40	
7	204.40	253.00	294.90	259.40	215.60	232.70	148.00	247.20	85.50	79.20	89.70	83.40	
8	190.40	253.00	298.20	301.50	196.00	179.20	148.00	311.40	85.50	79.20	85.50	81.30	
9	193.20	241.40	281.80	275.40	190.40	145.50	155.50	224.00	85.50	75.00	91.80	81.30	
10	201.60	278.60	210.00	275.40	221.20	107.00	153.00	104.80	87.60	79.20	87.60	79.20	
11	170.80	272.20	235.60	256.20	212.80	91.80	168.00	107.00	83.40	81.30	91.80	79.20	
12	210.00	285.00	221.20	275.40	190.40	87.60	160.50	155.50	79.20	85.50	96.00	81.30	
13	160.50	269.00	232.70	304.80	150.50	67.80	153.00	113.60	83.40	75.00	89.70	85.50	
14	193.20	259.40	241.40	281.80	158.00	66.00	187.60	98.20	83.40	77.10	89.70	81.30	
15	168.00	269.00	265.80	244.30	155.50	57.00	314.70	128.00	81.30	83.40	89.70	83.40	
16	173.60	269.00	272.20	291.60	150.50	57.00	269.00	133.00	85.50	77.10	91.80	81.30	
17	179.20	269.00	259.40	311.40	138.00	64.20	158.00	133.00	89.70	81.30	93.90	85.50	
18	198.80	265.80	275.40	288.30	138.00	62.40	120.50	130.50	79.20	81.30	96.00	83.40	
19	179.20	262.60	272.20	308.10	138.00	62.40	113.60	125.50	77.10	81.30	93.90	85.50	
20	184.80	262.60	272.20	334.50	109.20	64.20	109.20	130.50	79.20	83.40	96.00	87.60	
21	182.00	262.60	278.60	291.60	145.50	67.80	104.80	128.00	79.20	83.40	87.60	87.60	
22	187.60	285.00	324.60	291.60	153.00	96.00	104.80	128.00	77.10	85.50	89.70	83.40	
23	221.20	334.50	318.00	351.00	135.50	125.50	100.40	130.50	77.10	79.20	85.50	85.50	
24	229.80	314.70	269.00	298.20	133.00	118.00	93.90	130.50	148.00	83.40	87.60	89.70	
25	226.90	324.60	301.50	275.40	133.00	115.80	96.00	130.50	155.50	89.70	85.50	87.60	
26	226.90	321.30	301.50	278.60	128.00	91.80	96.00	107.00	145.50	79.20	87.60	89.70	
27	221.20	327.90	318.00	285.00	93.90	77.10	89.70	107.00	153.00	75.00	81.30	83.40	
28	229.80	351.00	331.20	278.60	104.80	60.60	89.70	100.40	148.00	87.60	85.50	85.50	
29	218.40	344.40	351.00	298.20	91.80	57.00	89.70	102.60	150.50	85.50	87.60	91.80	
30	218.40	331.20	428.80	265.80	83.40	100.40	91.80	104.80	145.50	87.60		81.30	
31		327.90		250.10	145.50		93.90		109.20	89.70		85.50	
Total	5931.90	8468.50	8703.80	8969.00	5396.20	3498.70	4221.70	3993.90	3107.20	2542.30	2593.00	2612.70	60038.90 CMSDAY
Mean	197.73	273.18	290.13	289.32	174.07	116.62	136.18	133.13	100.23	82.01	89.41	84.28	164.04 CMS
Max	229.80	351.00	428.80	351.00	304.80	275.40	314.70	311.40	155.50	111.40	98.20	91.80	428.80 CMS
Min	160.50	190.40	210.00	244.30	83.40	57.00	89.70	89.70	77.10	73.20	79.20	79.20	57.00 CMS
Runoff	512.52	731.68	752.01	774.92	466.23	302.29	364.75	345.07	268.46	219.65	224.04	225.74	5187.36 MCM
Momentary Peak	664.30	CMS.	at 105.83 m. (MSL.)	at 11.00 Hours	on May 27, 2019								
Runoff Yield	4.25	Liters/Second/Square KM.		Momentary Peak Yield	17.17	Liters/Second/Square KM.							

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Taeng at Ban Mae Taeng , Chiang Mai (P.4A)

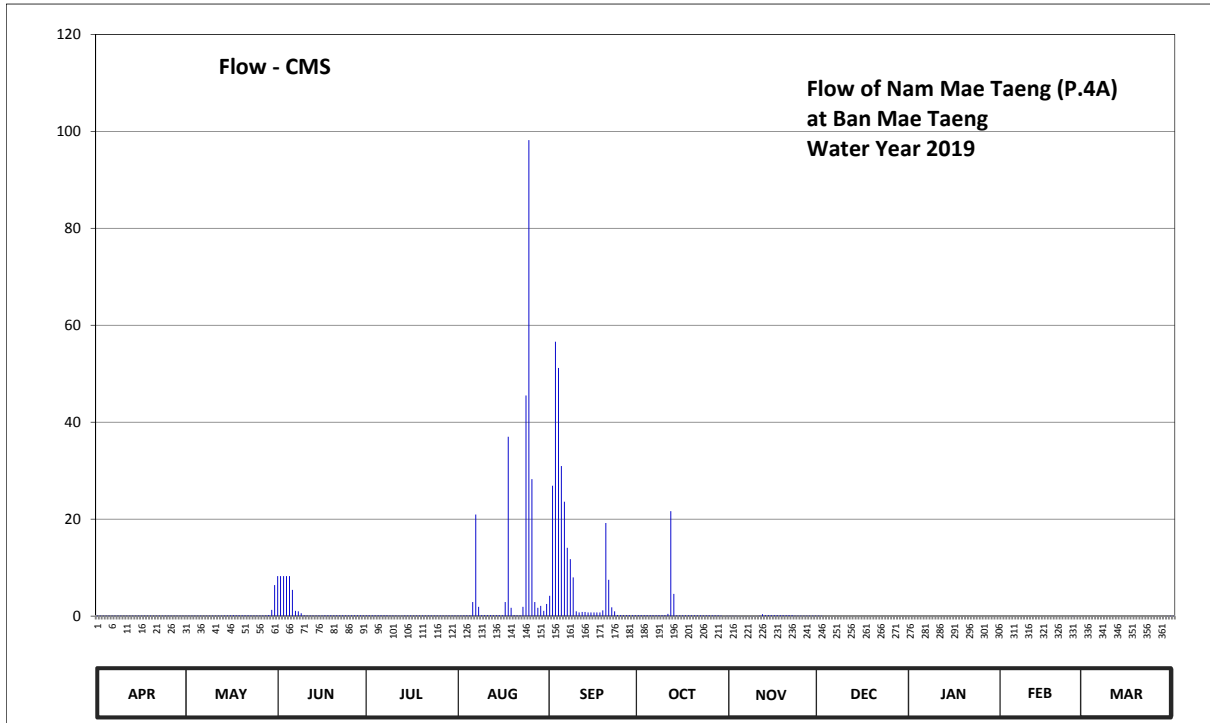
Lat 19 - 07 - 15 N Long 98 - 56 - 53 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban Mae Taeng</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,930 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+334.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In the vicinity of Amphoe Mae Taeng office	<b>Elevation</b>	+339.946 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1955 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1955 - 1960 , 1967 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1955 - 1960 , 1967 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	332.81	332.80	333.55	332.85	332.82	333.36	332.90	332.76	332.80	332.50	332.50	332.50	
2	332.81	332.80	333.55	332.85	332.83	334.12	332.90	332.75	332.72	332.50	332.50	332.50	
3	332.81	332.80	333.55	332.85	332.85	334.71	332.90	332.69	332.51	332.50	332.50	332.50	
4	332.81	332.80	333.55	332.85	332.86	334.62	332.90	332.60	332.51	332.50	332.50	332.50	
5	332.81	332.80	333.55	332.85	332.86	334.21	332.90	332.60	332.51	332.50	332.50	332.50	
6	332.81	332.80	333.42	332.85	333.29	334.04	332.90	332.60	332.51	332.50	332.50	332.50	
7	332.81	332.80	333.11	332.85	333.97	333.77	332.90	332.60	332.51	332.50	332.50	332.50	
8	332.81	332.80	333.10	332.85	333.19	333.69	332.90	332.60	332.51	332.50	332.50	332.50	
9	332.80	332.80	333.02	332.84	332.90	333.54	332.90	332.60	332.51	332.50	332.50	332.50	
10	332.80	332.80	332.85	332.84	332.89	333.10	332.89	332.60	332.51	332.50	332.50	332.50	
11	332.80	332.80	332.83	332.83	332.89	333.05	332.99	332.68	332.51	332.50	332.50	332.50	
12	332.80	332.80	332.83	332.81	332.89	333.07	333.99	332.97	332.50	332.50	332.50	332.50	
13	332.80	332.81	332.83	332.81	332.89	333.07	333.38	332.90	332.50	332.50	332.50	332.50	
14	332.80	332.83	332.83	332.82	332.89	333.05	332.85	332.90	332.50	332.50	332.50	332.50	
15	332.80	332.84	332.83	332.82	332.89	333.05	332.85	332.90	332.50	332.50	332.50	332.50	
16	332.80	332.87	332.84	332.82	332.89	333.05	332.85	332.90	332.50	332.50	332.50	332.50	
17	332.80	332.89	332.85	332.82	333.29	333.05	332.85	332.90	332.50	332.50	332.50	332.50	
18	332.80	332.85	332.86	332.82	334.34	333.05	332.85	332.90	332.50	332.50	332.50	332.50	
19	332.80	332.85	332.85	332.82	333.17	333.12	332.85	332.90	332.50	332.50	332.50	332.50	
20	332.80	332.85	332.85	332.82	332.90	333.92	332.85	332.90	332.50	332.50	332.50	332.50	
21	332.80	332.85	332.86	332.82	332.85	333.52	332.85	332.90	332.50	332.50	332.50	332.50	
22	332.80	332.85	332.87	332.82	332.85	333.18	332.85	332.88	332.50	332.50	332.50	332.50	
23	332.80	332.84	332.87	332.82	333.19	333.10	332.85	332.84	332.50	332.50	332.50	332.50	
24	332.80	332.84	332.85	332.82	334.51	332.91	332.85	332.80	332.50	332.50	332.50	332.50	
25	332.80	332.84	332.83	332.82	335.34	332.90	332.85	332.80	332.50	332.50	332.58	332.50	
26	332.80	332.84	332.86	332.82	334.15	332.90	332.85	332.80	332.50	332.50	332.51	332.50	
27	332.80	332.84	332.86	332.82	333.29	332.90	332.85	332.80	332.50	332.50	332.50	332.50	
28	332.80	332.87	332.86	332.82	333.17	332.90	332.85	332.80	332.50	332.50	332.50	332.50	
29	332.80	332.91	332.85	332.82	333.21	332.90	332.79	332.80	332.50	332.50	332.50	332.54	
30	332.80	333.13	332.85	332.82	333.11	332.90	332.63	332.80	332.50	332.50	332.50	332.69	
31		333.47		332.82	333.25		332.75		332.50	332.50		332.70	
Mean	332.80	332.86	333.01	332.83	333.24	333.36	332.91	332.78	332.52	332.50	332.50	332.51	
Max	332.81	333.47	333.55	332.85	335.34	334.71	333.99	332.97	332.80	332.50	332.58	332.70	335.34
Min	332.80	332.80	332.83	332.81	332.82	332.90	332.63	332.60	332.50	332.50	332.50	332.50	332.50
Annual Max Momentary Gage Height	335.45		m. (MSL.) ,				at 15.00 Hours ,						on Aug 25 , 2019
Zero Gage at Bottom Elevation	334.00		m. (MSL.) ,			River Bed	332.40		m. (MSL.)				
Left Bank Elevation		339.96		m. (MSL.) ,									
Right Bank Elevation		339.91		m. (MSL.) ,		Drainage Are	1,930		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.10	8.25	0.15	0.12	4.20	0.20	0.08	0.10	0.01	0.01	0.01	
2	0.11	0.10	8.25	0.15	0.13	26.90	0.20	0.08	0.07	0.01	0.01	0.01	
3	0.11	0.10	8.25	0.15	0.15	56.60	0.20	0.06	0.01	0.01	0.01	0.01	
4	0.11	0.10	8.25	0.15	0.16	51.20	0.20	0.03	0.01	0.01	0.01	0.01	
5	0.11	0.10	8.25	0.15	0.16	30.95	0.20	0.03	0.01	0.01	0.01	0.01	
6	0.11	0.10	5.40	0.15	2.90	23.60	0.20	0.03	0.01	0.01	0.01	0.01	
7	0.11	0.10	1.10	0.15	20.95	14.10	0.20	0.03	0.01	0.01	0.01	0.01	
8	0.11	0.10	1.00	0.15	1.90	11.75	0.20	0.03	0.01	0.01	0.01	0.01	
9	0.10	0.10	0.60	0.14	0.20	8.00	0.20	0.03	0.01	0.01	0.01	0.01	
10	0.10	0.10	0.15	0.14	0.19	1.00	0.19	0.03	0.01	0.01	0.01	0.01	
11	0.10	0.10	0.13	0.13	0.19	0.75	0.47	0.05	0.01	0.01	0.01	0.01	
12	0.10	0.10	0.13	0.11	0.19	0.85	21.65	0.41	0.01	0.01	0.01	0.01	
13	0.10	0.11	0.13	0.11	0.19	0.85	4.60	0.20	0.01	0.01	0.01	0.01	
14	0.10	0.13	0.13	0.12	0.19	0.75	0.15	0.20	0.01	0.01	0.01	0.01	
15	0.10	0.14	0.13	0.12	0.19	0.75	0.15	0.20	0.01	0.01	0.01	0.01	
16	0.10	0.17	0.14	0.12	0.19	0.75	0.15	0.20	0.01	0.01	0.01	0.01	
17	0.10	0.19	0.15	0.12	2.90	0.75	0.15	0.20	0.01	0.01	0.01	0.01	
18	0.10	0.15	0.16	0.12	37.00	0.75	0.15	0.20	0.01	0.01	0.01	0.01	
19	0.10	0.15	0.15	0.12	1.70	1.20	0.15	0.20	0.01	0.01	0.01	0.01	
20	0.10	0.15	0.15	0.12	0.20	19.20	0.15	0.20	0.01	0.01	0.01	0.01	
21	0.10	0.15	0.16	0.12	0.15	7.50	0.15	0.20	0.01	0.01	0.01	0.01	
22	0.10	0.15	0.17	0.12	0.15	1.80	0.15	0.18	0.01	0.01	0.01	0.01	
23	0.10	0.14	0.17	0.12	1.90	1.00	0.15	0.10	0.01	0.01	0.01	0.01	
24	0.10	0.14	0.15	0.12	45.50	0.23	0.15	0.10	0.01	0.01	0.01	0.01	
25	0.10	0.14	0.13	0.12	98.20	0.20	0.15	0.10	0.01	0.01	0.03	0.01	
26	0.10	0.14	0.16	0.12	28.25	0.20	0.15	0.10	0.01	0.01	0.01	0.01	
27	0.10	0.14	0.16	0.12	2.90	0.20	0.15	0.10	0.01	0.01	0.01	0.01	
28	0.10	0.17	0.16	0.12	1.70	0.20	0.15	0.10	0.01	0.01	0.01	0.01	
29	0.10	0.23	0.15	0.12	2.10	0.20	0.10	0.10	0.01	0.01	0.01	0.02	
30	0.10	1.30	0.15	0.12	1.10	0.20	0.04	0.10	0.01	0.01		0.06	
31		6.40		0.12	2.50		0.08		0.01	0.01		0.06	
<b>Total</b>	3.08	11.49	52.46	3.99	254.25	266.63	31.18	3.67	0.46	0.31	0.31	0.42	628.25 CMSDAY
<b>Mean</b>	0.10	0.37	1.75	0.13	8.20	8.89	1.01	0.12	0.01	0.01	0.01	0.01	1.72 CMS
<b>Max</b>	0.11	6.40	8.25	0.15	98.20	56.60	21.65	0.41	0.10	0.01	0.03	0.06	98.20 CMS
<b>Min</b>	0.10	0.10	0.13	0.11	0.12	0.20	0.04	0.03	0.01	0.01	0.01	0.01	0.01 CMS
<b>Runoff</b>	0.27	0.99	4.53	0.34	21.97	23.04	2.69	0.32	0.04	0.03	0.03	0.04	54.28 MCM
<b>Momentary Peak</b>	107.00 CMS. at 335.45 m. (MSL.) at 15.00 Hours , on Aug 25 , 2019												
<b>Runoff Yield</b>	0.89 Liters/Second/Square KM.			Momentary Peak Yield 55.44 Liters/Second/Square KM.									

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Kuang at Tha Nang Bridge , Lamphun (P.5)

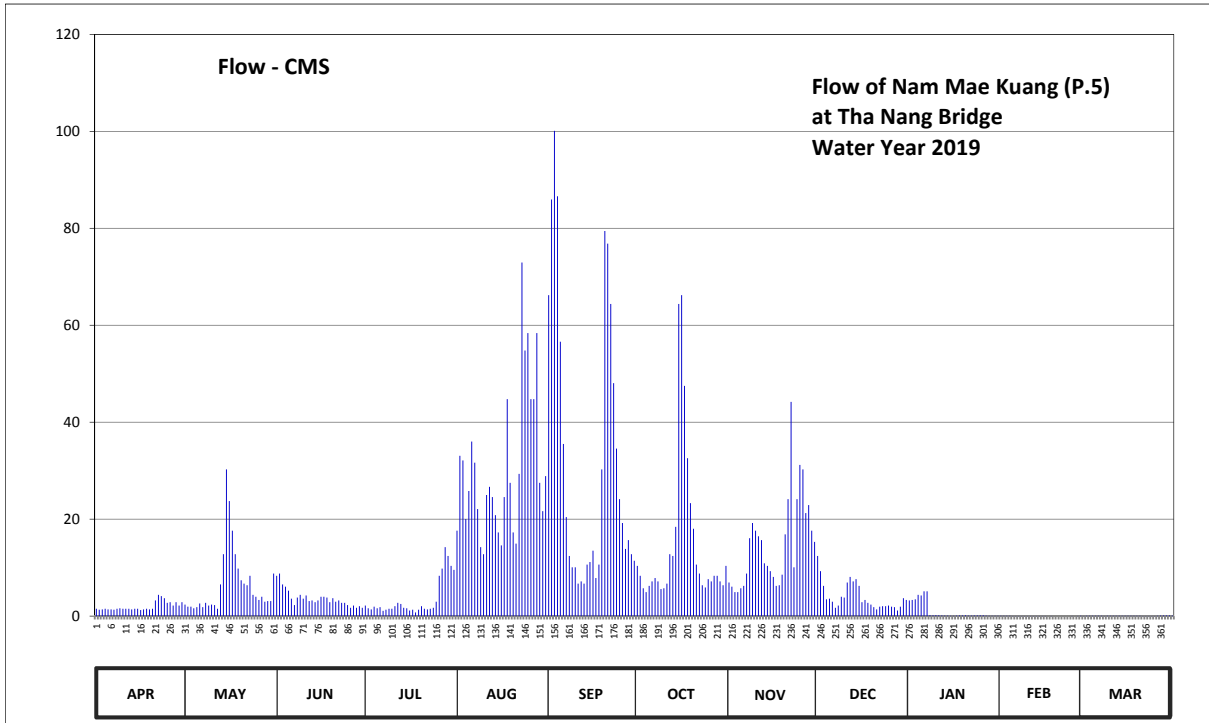
Lat 18 - 34 - 32 N Long 99 - 00 - 44 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	<b>Ban</b>	Tha Nang Bridge	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Lamphun
<b>Drainage Area</b>	1,569	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+288.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage site.				<b>Elevation</b>	+294.592 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1978 - 1992 , 2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1978 - 1992 , 2006 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1978 - 1992 , 2006 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.41	290.49	290.87	290.47	291.16	292.12	290.95	290.81	291.02	290.56	290.41	290.37	
2	290.39	290.45	290.89	290.42	291.52	292.43	290.87	290.76	290.91	290.57	290.41	290.42	
3	290.40	290.45	290.79	290.40	291.50	292.64	290.74	290.69	290.77	290.58	290.41	290.40	
4	290.41	290.42	290.76	290.45	291.22	292.44	290.69	290.69	290.58	290.65	290.40	290.40	
5	290.40	290.44	290.71	290.42	291.36	291.96	290.77	290.74	290.59	290.64	290.35	290.40	
6	290.40	290.51	290.59	290.44	291.58	291.57	290.82	290.77	290.54	290.70	290.34	290.40	
7	290.39	290.44	290.48	290.36	291.49	291.23	290.85	290.89	290.43	290.70	290.30	290.39	
8	290.41	290.52	290.61	290.39	291.27	291.02	290.82	291.12	290.47	290.71	290.30	290.36	
9	290.42	290.47	290.65	290.41	291.07	290.94	290.73	291.20	290.62	290.64	290.30	290.40	
10	290.41	290.49	290.59	290.41	291.03	290.94	290.74	291.16	290.61	290.66	290.30	290.40	
11	290.41	290.48	290.64	290.46	291.34	290.80	290.80	291.13	290.81	290.62	290.28	290.39	
12	290.41	290.41	290.55	290.52	291.38	290.82	291.03	291.11	290.86	290.54	290.28	290.40	
13	290.40	290.79		290.50	291.33	290.80	291.02	290.97	290.82	290.50	290.28	290.40	
14	290.41	291.03	290.53	290.43	291.24	290.96	291.18	290.95	290.84	290.49	290.28	290.39	
15	290.41	291.46	290.56	290.42	291.15	290.98	292.09	290.91	290.77	290.45	290.28	290.40	
16	290.38	291.31	290.62	290.37	291.08	291.05	292.12	290.86	290.53	290.46	290.28	290.40	
17	290.40	291.16	290.62	290.39	291.33	290.85	291.80	290.77	290.57	290.49	290.27	290.40	
18	290.41	291.03	290.61	290.32	291.75	290.96	291.51	290.78	290.52	290.55	290.28	290.40	
19	290.40	290.93	290.53	290.39	291.40	291.46	291.30	290.88	290.49	290.57	290.26	290.40	
20	290.41	290.83	290.60	290.46	291.15	292.33	291.17	291.14	290.44	290.60	290.27	290.40	
21	290.56	290.80	290.54	290.41	291.09	292.29	290.96	291.32	290.40	290.49	290.25	290.37	
22	290.65	290.78	290.56	290.40	291.44	292.09	290.89	291.74	290.45	290.51	290.25	290.35	
23	290.63	290.87	290.52	290.41	292.23	291.81	290.78	290.94	290.46	290.57	290.25	290.36	
24	290.60	290.65	290.52	290.43	291.93	291.55	290.75	291.32	290.46	290.56	290.26	290.37	
25	290.52	290.62	290.48	290.54	291.99	291.32	290.84	291.48	290.47	290.60	290.29	290.38	
26	290.53	290.57	290.43	290.87	291.75	291.20	290.82	291.46	290.45	290.60	290.25	290.42	
27	290.47	290.62	290.47	290.93	291.75	291.06	290.87	291.25	290.44	290.50	290.28	290.50	
28	290.53	290.54	290.43	291.07	291.99	291.11	290.87	291.29	290.37	290.45	290.43	290.53	
29	290.47	290.55	290.46	291.02	291.40	291.03	290.82	291.16	290.45	290.42	290.50	290.55	
30	290.53	290.55	290.43	290.95	291.26	290.99	290.78	291.10	290.60	290.43	290.25	290.55	
31		290.89		290.92	291.43		290.95		290.57	290.41		290.51	
Mean	290.45	290.70	290.59	290.53	291.44	291.43	291.01	291.05	290.59	290.56	290.31	290.41	
Max	290.65	291.46	290.89	291.07	292.23	292.64	292.12	291.74	291.02	290.71	290.50	290.55	292.64
Min	290.38	290.41	290.43	290.32	291.03	290.80	290.69	290.69	290.37	290.41	290.25	290.35	290.25
Annual Max Momentary Gage Height	292.69		m. (MSL.) ,				at 13.00 Hours ,						
Zero Gage at Bottom Elevation	288.50		m. (MSL.) ,			River Bed	288.75	m. (MSL.)					
Left Bank Elevation	295.89		m. (MSL.) ,										
Right Bank Elevation	296.07		m. (MSL.) ,			Drainage Are	1,569	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.51	2.39	8.31	2.17	17.64	66.20	10.35	6.93	12.42	3.22	0.06	0.04	
2	1.32	1.95	8.77	1.62	33.08	85.95	8.31	6.06	9.27	3.34	0.06	0.06	
3	1.40	1.95	6.54	1.40	32.10	100.10	5.74	4.96	6.22	3.46	0.06	0.05	
4	1.51	1.62	6.06	1.95	20.02	86.60	4.96	4.96	3.46	4.40	0.05	0.05	
5	1.40	1.84	5.26	1.62	25.82	56.60	6.22	5.74	3.58	4.26	0.04	0.05	
6	1.40	2.62	3.58	1.84	36.02	35.53	7.16	6.22	2.98	5.10	0.03	0.05	
7	1.32	1.84	2.28	1.08	31.64	20.43	7.85	8.77	1.73	5.10	0.02	0.05	
8	1.51	2.74	3.84	1.32	22.07	12.42	7.16	16.08	2.17	0.21	0.02	0.04	
9	1.62	2.17	4.40	1.51	14.22	10.08	5.58	19.20	3.98	0.17	0.02	0.05	
10	1.51	2.39	3.58	1.51	12.78	10.08	5.74	17.64	3.84	0.18	0.02	0.05	
11	1.51	2.28	4.26	2.06	24.98	6.70	6.70	16.47	6.93	0.16	0.02	0.05	
12	1.51	1.51	3.10	2.74	26.66	7.16	12.78	15.69	8.08	0.12	0.02	0.05	
13	1.40	6.54	3.22	2.50	24.56	6.70	12.42	10.89	7.16	0.10	0.02	0.05	
14	1.51	12.78	2.86	1.73	20.84	10.62	18.42	10.35	7.62	0.10	0.02	0.05	
15	1.51	30.26	3.22	1.62	17.25	11.16	64.40	9.27	6.22	0.08	0.02	0.05	
16	1.24	23.72	3.98	1.16	14.58	13.50	66.20	8.08	2.86	0.08	0.02	0.05	
17	1.40	17.64	3.98	1.32	24.56	7.85	47.50	6.22	3.34	0.10	0.01	0.05	
18	1.51	12.78	3.84	0.76	44.75	10.62	32.59	6.38	2.74	0.13	0.02	0.05	
19	1.40	9.81	2.86	1.32	27.50	30.26	23.30	8.54	2.39	0.14	0.01	0.05	
20	1.51	7.39	3.70	2.06	17.25	79.45	18.03	16.86	1.84	0.15	0.01	0.05	
21	3.22	6.70	2.98	1.51	14.94	76.85	10.62	24.14	1.40	0.10	0.01	0.04	
22	4.40	6.38	3.22	1.40	29.34	64.40	8.77	44.20	1.95	0.11	0.01	0.04	
23	4.12	8.31	2.74	1.51	72.95	48.05	6.38	10.08	2.06	0.14	0.01	0.04	
24	3.70	4.40	2.74	1.73	54.80	34.55	5.90	24.14	2.06	0.13	0.01	0.04	
25	2.74	3.98	2.28	2.98	58.40	24.14	7.62	31.18	2.17	0.15	0.02	0.04	
26	2.86	3.34	1.73	8.31	44.75	19.20	7.16	30.26	1.95	0.15	0.01	0.06	
27	2.17	3.98	2.17	9.81	44.75	13.86	8.31	21.25	1.84	0.10	0.02	0.10	
28	2.86	2.98	1.73	14.22	58.40	15.69	8.31	22.89	1.16	0.08	0.07	0.12	
29	2.17	3.10	2.06	12.42	27.50	12.78	7.16	17.64	1.95	0.06	0.10	0.13	
30	2.86	3.10	1.73	10.35	21.66	11.43	6.38	15.30	3.70	0.07		0.13	
31		8.77		9.54	28.88		10.35		3.34	0.06		0.11	
Total	60.10	201.26	111.02	107.07	944.69	988.96	458.37	446.39	122.41	31.75	0.81	1.84	3474.67 CMSDAY
Mean	2.00	6.49	3.70	3.45	30.47	32.97	14.79	14.88	3.95	1.02	0.03	0.06	9.49 CMS
Max	4.40	30.26	8.77	14.22	72.95	100.10	66.20	44.20	12.42	5.10	0.10	0.13	100.10 CMS
Min	1.24	1.51	1.73	0.76	12.78	6.70	4.96	4.96	1.16	0.06	0.01	0.04	0.01 CMS
Runoff	5.19	17.39	9.59	9.25	81.62	85.45	39.60	38.57	10.58	2.74	0.07	0.16	300.21 MCM
Momentary Peak		103.60			CMS. at 292.69 m. (MSL.) at 13.00 Hours , on Sep 3, 2019								
Runoff Yield		6.07			Liters/Second/Square KM.								Momentary Peak Yield 66.03 Liters/Second/Square KM.



## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	42,464 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+71.730 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage observers house.	<b>Elevation</b>	+77.717 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1960 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1960 - 1961 , 1967 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1960 - 1961 , 1967 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phumiphol Dam reservoir above gage site. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.31	72.46	72.81	72.83	72.44	72.42	72.05	72.03	72.12	72.18	72.04	72.06	
2	72.34	72.36	72.77	72.60	72.54	72.55	72.17	72.02	72.11	72.18	72.05	72.03	
3	72.32	72.35	72.79	72.60	72.51	72.44	72.33	72.02	72.10	72.11	72.05	72.04	
4	72.27	72.35	72.78	72.61	72.52	72.48	72.19	72.02	72.09	72.09	72.04	72.06	
5	72.30	72.35	72.71	72.70	72.52	72.56	72.19	72.09	72.08	72.09	72.01	72.05	
6	72.31	72.36	72.76	72.62	72.43	72.65	72.24	72.21	72.06	72.05	72.02	72.05	
7	72.29	72.50	72.74	72.66	72.42	72.65	72.27	72.34	72.06	72.05	72.05	72.05	
8	72.31	72.53	72.72	72.55	72.36	72.57	72.30	72.44	72.04	72.05	72.04	72.05	
9	72.28	72.53	72.67	72.62	72.32	72.40	72.30	72.51	72.04	72.04	72.02	72.04	
10	72.29	72.51	72.64	72.52	72.34	72.31	72.30	72.38	72.05	72.03	72.04	72.03	
11	72.31	72.58	72.52	72.55	72.39	72.23	72.29	72.14	72.05	72.03	72.03	72.03	
12	72.25	72.56	72.56	72.51	72.40	72.18	72.34	72.08	72.05	72.05	72.04	72.03	
13	72.35	72.61	72.51	72.53	72.36	72.15	72.31	72.13	72.04	72.07	72.05	72.03	
14	72.27	72.61	72.54	72.56	72.31	72.10	72.30	72.11	72.05	72.06	72.04	72.04	
15	72.32	72.57	72.55	72.53	72.21	72.07	72.41	72.06	72.06	72.06	72.02	72.05	
16	72.30	72.60	72.63	72.51	72.20	72.02	72.69	72.10	72.06	72.07	72.03	72.04	
17	72.32	72.57	72.62	72.56	72.18	72.00	72.50	72.17	72.06	72.05	72.03	72.03	
18	72.36	72.59	72.56	72.58	72.15	71.99	72.32	72.18	72.07	72.06	72.04	72.04	
19	72.40	72.56	72.59	72.52	72.16	72.02	72.22	72.18	72.05	72.06	72.05	72.05	
20	72.35	72.57	72.58	72.55	72.14	72.04	72.18	72.17	72.04	72.05	72.04	72.05	
21	72.36	72.61	72.64	72.57	72.10	72.06	72.16	72.19	72.05	72.06	72.05	72.05	
22	72.37	72.58	72.63	72.50	72.18	72.08	72.13	72.18	72.05	72.05	72.03	72.06	
23	72.37	72.65	72.70	72.55	72.23	72.14	72.12	72.19	72.05	72.06	72.03	72.05	
24	72.46	72.72	72.66	72.60	72.19	72.21	72.10	72.19	72.05	72.05	72.04	72.05	
25	72.47	72.68	72.59	72.51	72.20	72.19	72.08	72.19	72.15	72.03	72.05	72.06	
26	72.48	72.69	72.68	72.49	72.22	72.17	72.07	72.20	72.22	72.05	72.06	72.06	
27	72.47	72.69	72.67	72.48	72.27	72.12	72.08	72.16	72.24	72.06	72.06	72.06	
28	72.46	72.75	72.70	72.48	72.35	72.07	72.05	72.16	72.26	72.03	72.05	72.06	
29	72.48	72.77	72.74	72.49	72.37	72.02	72.05	72.14	72.24	72.02	72.05	72.06	
30	72.45	72.74	72.73	72.49	72.39	71.99	72.05	72.12	72.25	72.04	72.04	72.07	
31		72.77		72.46	72.33		72.06		72.24	72.04		72.07	
Mean	72.35	72.57	72.66	72.56	72.31	72.23	72.22	72.17	72.10	72.06	72.04	72.05	
Max	72.48	72.77	72.81	72.83	72.54	72.65	72.69	72.51	72.26	72.18	72.06	72.07	72.83
Min	72.25	72.35	72.51	72.46	72.10	71.99	72.05	72.02	72.04	72.02	72.01	72.03	71.99
Annual Max Momentary Gage Height	73.04		m. (MSL.) ,				at 08.00 Hours ,						on Jul 1 , 2019
Zero Gage at Bottom Elevation	71.73		m. (MSL.) ,				River Bed 69.69						m. (MSL.)
Left Bank Elevation		77.97		m. (MSL.) ,									
Right Bank Elevation		77.69		m. (MSL.) ,			Drainage Are 42,464						Square Kilometers



## WATER YEAR : 2019

## 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.

	<b>Ban Yanree</b>	<b>Amphoe Sam Ngao</b>	<b>Changwat Tak</b>
<b>Drainage Area</b>	26,241 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+129.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the pier of the bridge.		<b>Elevation</b> +137.031 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Phumiphol Dam reservoir downstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.14	129.88	130.61	130.58	130.51	129.26	130.30	129.81	129.71	129.50	129.61	129.58	
2	130.08	129.97	130.62	130.35	130.48	129.28	129.86	129.76	129.73	129.44	129.65	129.61	
3	130.12	130.04	130.53	130.42	130.46	129.33	129.84	129.82	129.74	129.55	129.57	129.64	
4	130.17	129.94	130.52	130.51	130.58	129.35	129.89	129.84	129.72	129.38	129.34	129.60	
5	130.15	130.13	130.51	130.52	130.17	129.34	129.95	130.19	129.75	129.44	129.54	129.56	
6	130.07	130.35	130.54	130.49	130.28	129.31	130.03	130.92	129.59	129.57	129.54	129.64	
7	130.15	130.32	130.47	130.38	129.95	129.28	129.94	130.66	129.62	129.59	129.49	129.64	
8	130.08	130.38	130.54	130.35	130.02	129.31	130.08	130.34	129.63	129.61	129.56	129.58	
9	130.12	130.39	130.40	130.28	129.99	129.33	130.04	129.71	129.70	129.55	129.50	129.67	
10	130.06	130.34	130.31	130.37	129.98	129.24	130.06	129.77	129.79	129.50	129.54	129.61	
11	130.03	130.41	130.36	130.31	130.03	129.44	130.02	130.05	129.63	129.65	129.65	129.63	
12	130.18	130.43	130.33	130.33	129.81	129.35	129.92	129.89	129.74	129.57	129.62	129.63	
13	130.15	130.29	130.45	130.36	129.86	129.45	129.98	130.04	129.65	129.58	129.57	129.67	
14	130.16	130.30	130.55	130.39	129.80	129.37	130.55	129.99	129.62	129.65	129.55	129.64	
15	130.12	130.39	130.56	130.39	129.82	129.48	130.65	129.96	129.64	129.59	129.54	129.61	
16	130.09	130.35	130.53	130.39	129.75	129.49	129.97	129.84	129.82	129.63	129.57	129.69	
17	130.09	130.33	130.50	130.39	129.74	129.46	129.75	129.86	129.79	129.57	129.62	129.67	
18	130.22	130.28	130.55	130.41	129.76	129.43	129.78	129.87	129.68	129.58	129.58	129.59	
19	130.12	130.25	130.50	130.43	129.53	129.39	129.78	129.91	129.71	129.65	129.65	129.60	
20	130.08	130.51	130.56	130.59	129.50	129.45	129.77	129.92	129.75	129.62	129.65	129.64	
21	130.16	130.44	130.66	130.59	129.58	129.45	129.80	129.83	129.60	129.66	129.58	129.64	
22	130.30	130.55	130.67	130.53	129.58	129.42	129.88	129.95	129.81	129.57	129.62	129.58	
23	130.29	130.63	130.72	130.56	129.55	129.42	129.85	129.87	130.15	129.63	129.56	129.66	
24	130.30	130.60	130.64	130.35	129.56	129.48	129.83	129.94	129.92	129.65	129.63	129.64	
25	130.31	130.49	130.65	130.34	129.61	129.34	129.86	129.77	129.83	129.73	129.60	129.62	
26	130.25	130.51	130.60	130.44	129.30	129.34	129.76	129.80	129.93	129.62	129.63	129.61	
27	130.29	130.63	130.52	130.48	129.33	129.27	129.78	129.74	129.89	129.60	129.63	129.63	
28	130.30	130.63	130.64	130.62	129.29	129.30	129.75	129.76	129.91	129.55	129.53	129.62	
29	130.19	130.73	130.69	130.53	129.28	129.82	129.75	129.86	129.87	129.55	129.55	129.64	
30	130.05	130.61	130.83	130.45	129.31	130.10	129.77	129.73	129.65	129.55	129.55	129.64	
31		130.62		130.40	129.40		129.76		129.70	129.61		129.74	
Mean	130.16	130.38	130.55	130.44	129.80	129.41	129.93	129.95	129.75	129.58	129.57	129.63	
Max	130.31	130.73	130.83	130.62	130.58	130.10	130.65	130.92	130.15	129.73	129.65	129.74	130.92
Min	130.03	129.88	130.31	130.28	129.28	129.24	129.75	129.71	129.59	129.38	129.34	129.56	129.24
Annual Max Momentary Gage Height	132.42		m. (MSL.) ,			at 24.00 Hours ,							
Zero Gage at Bottom Elevation	129.00		m. (MSL.) ,			River Bed	127.58	m. (MSL.)					
Left Bank Elevation		136.84		m. (MSL.) ,									
Right Bank Elevation		135.17		m. (MSL.) ,		Drainage Are	26,241	Square Kilometers					



## WATER YEAR : 2019

## PING RIVER BASIN

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

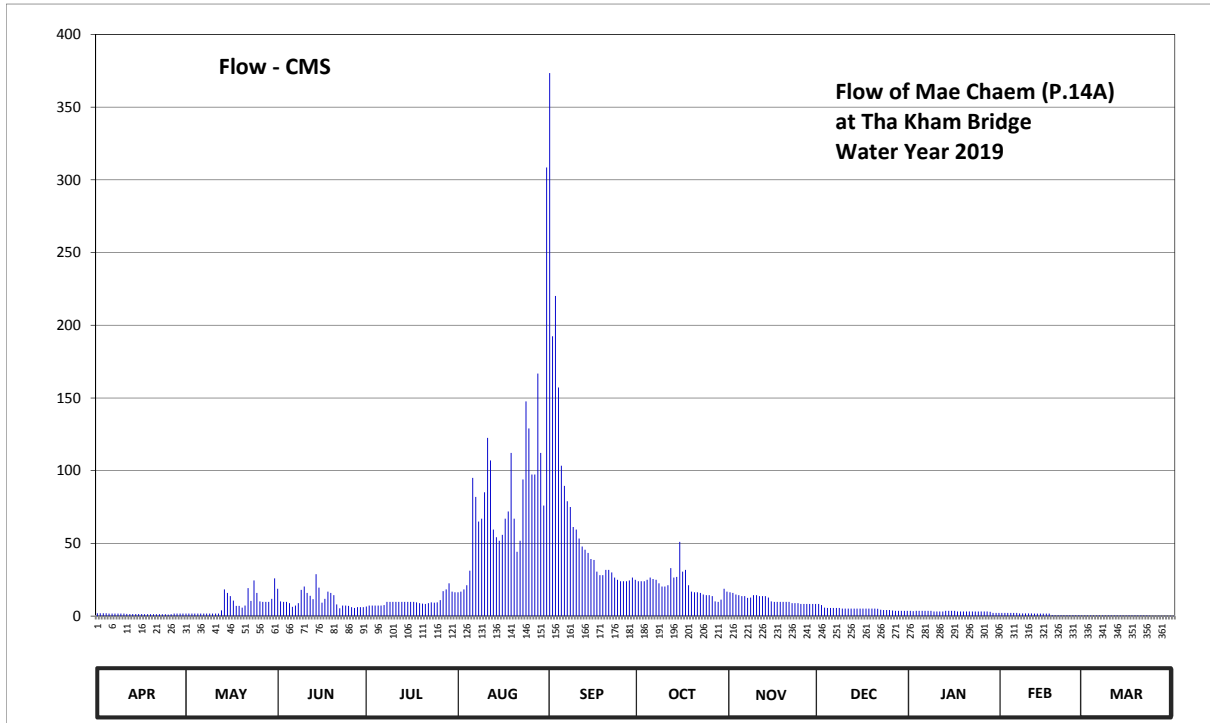
Lat 19 - 12 - 02 N Long 98 - 37 - 01 E

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

	<b>Ban</b>	-	<b>Amphoe</b>	Chom Thong	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	3,909	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+261.863 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	about 10 meters in front of automatic gage building.				<b>Elevation</b>	+267.972 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1953 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1955 - 1960 , 1967 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1955 - 1960 , 1967 to date					
<b>Stability of Channel Regimes</b>	Fairly stable by some silting.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. The concrete weir situated about 6 kilometers downstream from the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.40	261.38	262.02	261.63	261.96	264.67	262.14	261.96	261.71	261.48	261.41	261.19	
2	261.40	261.38	261.77	261.66	261.97	263.69	262.14	261.95	261.68	261.47	261.41	261.19	
3	261.40	261.38	261.76	261.66	262.01	263.86	262.14	261.92	261.59	261.48	261.41	261.19	
4	261.40	261.38	261.76	261.66	262.08	263.47	262.16	261.91	261.58	261.48	261.41	261.19	
5	261.37	261.38	261.73	261.66	262.27	263.07	262.19	261.89	261.58	261.48	261.41	261.19	
6	261.38	261.38	261.62	261.66	263.00	262.95	262.17	261.89	261.58	261.48	261.41	261.19	
7	261.38	261.38	261.66	261.68	262.88	262.85	262.16	261.85	261.58	261.48	261.39	261.19	
8	261.38	261.38	261.73	261.76	262.71	262.81	262.11	261.86	261.58	261.48	261.39	261.19	
9	261.38	261.38	262.00	261.76	262.73	262.67	262.06	261.91	261.56	261.46	261.39	261.19	
10	261.37	261.38	262.06	261.76	262.91	262.65	262.06	261.91	261.56	261.46	261.39	261.19	
11	261.35	261.38	261.95	261.76	263.22	262.58	262.08	261.89	261.56	261.46	261.39	261.19	
12	261.34	261.38	261.90	261.76	263.10	262.51	262.30	261.89	261.56	261.46	261.38	261.19	
13	261.34	261.50	261.82	261.76	262.65	262.48	262.19	261.89	261.56	261.48	261.38	261.19	
14	261.34	262.01	262.23	261.76	262.59	262.45	262.20	261.86	261.56	261.48	261.38	261.19	
15	261.34	261.95	262.04	261.76	262.56	262.39	262.55	261.77	261.56	261.48	261.38	261.19	
16	261.34	261.89	261.74	261.76	262.61	262.38	262.26	261.76	261.56	261.48	261.38	261.19	
17	261.33	261.79	261.83	261.76	262.73	262.26	262.28	261.76	261.56	261.46	261.37	261.19	
18	261.33	261.65	261.97	261.75	262.78	262.22	262.08	261.76	261.56	261.46	261.24	261.17	
19	261.33	261.65	261.95	261.73	263.14	262.22	261.97	261.76	261.56	261.46	261.21	261.16	
20	261.33	261.59	261.91	261.72	262.73	262.28	261.96	261.76	261.56	261.46	261.21	261.16	
21	261.33	261.66	261.70	261.71	262.46	262.28	261.96	261.76	261.55	261.46	261.21	261.16	
22	261.33	262.03	261.57	261.73	262.56	262.25	261.95	261.73	261.52	261.46	261.21	261.16	
23	261.33	261.78	261.66	261.75	262.99	262.19	261.92	261.73	261.51	261.46	261.21	261.15	
24	261.33	262.15	261.66	261.74	263.41	262.16	261.91	261.73	261.51	261.46	261.21	261.11	
25	261.31	261.95	261.65	261.75	263.27	262.14	261.91	261.71	261.51	261.46	261.21	261.11	
26	261.33	261.77	261.61	261.80	263.02	262.14	261.89	261.71	261.49	261.46	261.21	261.10	
27	261.38	261.76	261.58	261.98	263.02	262.14	261.77	261.71	261.48	261.46	261.20	261.10	
28	261.38	261.76	261.61	262.01	263.53	262.15	261.76	261.71	261.48	261.45	261.19	261.10	
29	261.38	261.76	261.61	262.11	263.14	262.19	261.81	261.71	261.48	261.41	261.19	261.10	
30	261.38	261.83	261.61	261.97	262.82	262.16	262.02	261.71	261.48	261.41	261.19	261.10	
31		262.18		261.96	264.35		261.97		261.48	261.41		261.10	
Mean	261.36	261.65	261.79	261.77	262.81	262.61	262.07	261.81	261.55	261.46	261.32	261.16	
Max	261.40	262.18	262.23	262.11	264.35	264.67	262.55	261.96	261.71	261.48	261.41	261.19	264.67
Min	261.31	261.38	261.57	261.63	261.96	262.14	261.76	261.71	261.48	261.41	261.19	261.10	261.10
Annual Max Momentary Gage Height	265.62		m. (MSL.) ,				at 21.00 Hours , on Aug 31 , 2019						
Zero Gage at Bottom Elevation	261.86		m. (MSL.) ,			River Bed	260.86		m. (MSL)				
Left Bank Elevation	268.21		m. (MSL.) ,										
Right Bank Elevation	268.38		m. (MSL.) ,			Drainage Are	3,909		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	1.80	18.80	6.60	16.40	373.40	24.00	16.40	8.30	3.60	2.20	0.47	
2	2.00	1.80	10.10	7.20	16.80	192.40	24.00	16.00	7.60	3.40	2.20	0.47	
3	2.00	1.80	9.80	7.20	18.40	220.20	24.00	14.80	5.80	3.60	2.20	0.47	
4	2.00	1.80	9.80	7.20	21.20	157.20	25.00	14.40	5.60	3.60	2.20	0.47	
5	1.70	1.80	8.90	7.20	31.20	103.40	26.50	13.70	5.60	3.60	2.20	0.47	
6	1.80	1.80	6.40	7.20	95.00	89.50	25.50	13.70	5.60	3.60	2.20	0.47	
7	1.80	1.80	7.20	7.60	82.00	79.00	25.00	12.50	5.60	3.60	1.90	0.47	
8	1.80	1.80	8.90	9.80	65.00	75.00	22.50	12.80	5.60	3.60	1.90	0.47	
9	1.80	1.80	18.00	9.80	67.00	61.30	20.40	14.40	5.20	3.20	1.90	0.47	
10	1.70	1.80	20.40	9.80	85.10	59.50	20.40	14.40	5.20	3.20	1.90	0.47	
11	1.50	1.80	16.00	9.80	122.60	53.40	21.20	13.70	5.20	3.20	1.90	0.47	
12	1.40	1.80	14.00	9.80	107.00	47.80	33.00	13.70	5.20	3.20	1.80	0.47	
13	1.40	4.00	11.60	9.80	59.50	45.60	26.50	13.70	5.20	3.60	1.80	0.47	
14	1.40	18.40	28.80	9.80	54.20	43.50	27.00	12.80	5.20	3.60	1.80	0.47	
15	1.40	16.00	19.60	9.80	51.80	39.30	51.00	10.10	5.20	3.60	1.80	0.47	
16	1.40	13.70	9.20	9.80	55.90	38.60	30.60	9.80	5.20	3.60	1.80	0.47	
17	1.30	10.70	11.90	9.80	67.00	30.60	31.80	9.80	5.20	3.20	1.70	0.47	
18	1.30	7.00	16.80	9.50	72.00	28.20	21.20	9.80	5.20	3.20	0.70	0.41	
19	1.30	7.00	16.00	8.90	112.20	28.20	16.80	9.80	5.20	3.20	0.55	0.38	
20	1.30	5.80	14.40	8.60	67.00	31.80	16.40	9.80	5.20	3.20	0.55	0.38	
21	1.30	7.20	8.00	8.30	44.20	31.80	16.40	9.80	5.00	3.20	0.55	0.38	
22	1.30	19.20	5.40	8.90	51.80	30.00	16.00	8.90	4.40	3.20	0.55	0.38	
23	1.30	10.40	7.20	9.50	93.90	26.50	14.80	8.90	4.20	3.20	0.55	0.35	
24	1.30	24.50	7.20	9.20	147.60	25.00	14.40	8.90	4.20	3.20	0.55	0.23	
25	1.10	16.00	7.00	9.50	129.10	24.00	14.40	8.30	4.20	3.20	0.55	0.23	
26	1.30	10.10	6.20	11.00	97.40	24.00	13.70	8.30	3.80	3.20	0.55	0.20	
27	1.80	9.80	5.60	17.20	97.40	24.00	10.10	8.30	3.60	3.20	0.50	0.20	
28	1.80	9.80	6.20	18.40	166.80	24.50	9.80	8.30	3.60	3.00	0.47	0.20	
29	1.80	9.80	6.20	22.50	112.20	26.50	11.30	8.30	3.60	2.20	0.47	0.20	
30	1.80	11.90	6.20	16.80	76.00	25.00	18.80	8.30	3.60	2.20		0.20	
31		26.00		16.40	308.50		16.80		3.60	2.20		0.20	
<b>Total</b>	47.10	258.90	341.80	322.90	2592.20	2059.20	669.30	342.40	155.90	100.60	39.94	11.93	6942.17 CMSDAY
<b>Mean</b>	1.57	8.35	11.39	10.42	83.62	68.64	21.59	11.41	5.03	3.25	1.38	0.38	18.97 CMS
<b>Max</b>	2.00	26.00	28.80	22.50	308.50	373.40	51.00	16.40	8.30	3.60	2.20	0.47	373.40 CMS
<b>Min</b>	1.10	1.80	5.40	6.60	16.40	24.00	9.80	8.30	3.60	2.20	0.47	0.20	0.20 CMS
<b>Runoff</b>	4.07	22.37	29.53	27.90	223.97	177.91	57.83	29.58	13.47	8.69	3.45	1.03	599.80 MCM
<b>Momentary Peak</b>		609.60	CMS.	at 265.62 m. (MSL.)	at 21.00 Hours ,	on Aug 31 , 2019							
<b>Runoff Yield</b>		4.87	Liters/Second/Square KM.		Momentary Peak Yield	155.95	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Wat Sri Phirom , Kamphaeng Phet (P.15)

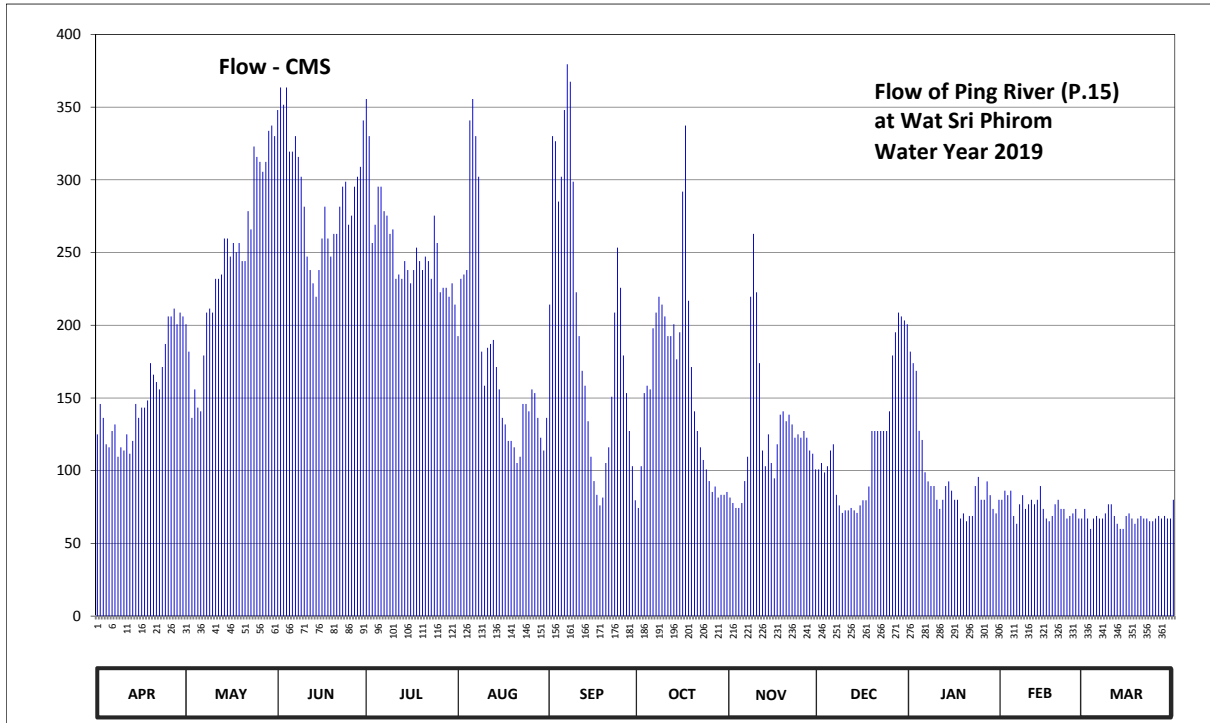
Lat 16 - 12 - 52 N Long 99 - 43 - 24 E

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

	<b>Ban</b> Wat Sri Phirom	<b>Amphoe</b> Khlong Khlung	<b>Changwat</b> Kamphaeng Phet
<b>Drainage Area</b>	44,461 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+51.555 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 30 meters from the south of Wat Sri Phirom.	<b>Elevation</b>	+61.835 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1964 - 1974 , 1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1964 - 1974 , 1997 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.63	52.93	53.39	53.41	52.90	52.98	52.38	52.42	52.52	52.86	52.63	52.61	
2	52.72	52.86	53.43	53.34	53.04	53.34	52.53	52.40	52.54	52.83	52.65	52.58	
3	52.68	52.68	53.40	53.12	53.05	53.33	52.75	52.38	52.51	52.81	52.64	52.54	
4	52.60	52.76	53.43	53.16	53.06	53.21	52.77	52.38	52.53	52.74	52.65	52.58	
5	52.59	52.71	53.31	53.24	53.37	53.26	52.76	52.40	52.58	52.73	52.59	52.59	
6	52.64	52.70	53.31	53.24	53.41	53.39	52.92	52.48	52.60	52.69	52.56	52.58	
7	52.68	52.85	53.34	53.19	53.34	53.47	52.96	52.56	52.43	52.67	52.62	52.58	
8	52.59	52.96	53.30	53.18	53.26	53.44	53.00	53.00	52.39	52.66	52.64	52.60	
9	52.61	52.97	53.26	53.14	52.86	53.25	52.98	53.14	52.36	52.66	52.61	52.62	
10	52.58	52.96	53.20	53.15	52.77	53.01	52.95	53.01	52.37	52.63	52.62	52.62	
11	52.63	53.04	53.09	53.04	52.87	52.90	52.90	52.83	52.37	52.61	52.63	52.59	
12	52.57	53.04	53.06	53.05	52.88	52.81	52.90	52.58	52.38	52.63	52.62	52.56	
13	52.61	53.05	53.03	53.04	52.89	52.77	52.93	52.53	52.37	52.66	52.63	52.54	
14	52.72	53.13	53.00	53.08	52.82	52.67	52.84	52.63	52.36	52.67	52.66	52.54	
15	52.68	53.13	53.06	53.06	52.76	52.56	52.91	52.54	52.39	52.65	52.61	52.59	
16	52.71	53.09	53.13	53.03	52.68	52.48	53.23	52.49	52.41	52.63	52.58	52.60	
17	52.71	53.12	53.20	53.06	52.66	52.43	53.36	52.60	52.41	52.63	52.57	52.58	
18	52.73	53.10	53.13	53.11	52.61	52.39	52.99	52.69	52.46	52.58	52.59	52.56	
19	52.83	53.13	53.09	53.08	52.61	52.42	52.82	52.70	52.64	52.60	52.62	52.58	
20	52.80	53.08	53.14	53.06	52.59	52.54	52.70	52.67	52.64	52.57	52.63	52.59	
21	52.78	53.08	53.14	53.09	52.54	52.59	52.64	52.69	52.64	52.59	52.61	52.58	
22	52.76	53.19	53.20	53.08	52.56	52.74	52.59	52.66	52.64	52.59	52.61	52.58	
23	52.82	53.14	53.24	53.04	52.72	52.96	52.55	52.62	52.64	52.66	52.58	52.57	
24	52.88	53.38	53.25	53.18	52.72	53.11	52.52	52.63	52.64	52.68	52.59	52.57	
25	52.95	53.30	53.16	53.12	52.70	53.02	52.48	52.62	52.70	52.63	52.60	52.58	
26	52.95	53.29	53.18	53.03	52.76	52.85	52.44	52.64	52.85	52.63	52.61	52.59	
27	52.97	53.27	53.24	53.05	52.75	52.75	52.46	52.62	52.91	52.67	52.58	52.58	
28	52.93	53.29	53.26	53.02	52.68	52.64	52.42	52.58	52.96	52.64	52.58	52.59	
29	52.96	53.35	53.28	53.00	52.62	52.53	52.43	52.57	52.95	52.61	52.55	52.58	
30	52.95	53.36	53.37	53.05	52.58	52.41	52.43	52.52	52.94	52.60	52.58	52.58	
31		53.34		52.99	52.68		52.44		52.93	52.63	52.63	52.63	
Mean	52.74	53.07	53.22	53.11	52.83	52.88	52.74	52.62	52.58	52.66	52.61	52.58	
Max	52.97	53.38	53.43	53.41	53.41	53.47	53.36	53.14	52.96	52.86	52.66	52.63	53.47
Min	52.57	52.68	53.00	52.99	52.54	52.39	52.38	52.38	52.36	52.57	52.55	52.54	52.36
Annual Max Momentary Gage Height	53.65		m. (MSL.) ,				at 20.00 Hours ,						on Jul 1 , 2019
Zero Gage at Bottom Elevation		51.56		m. (MSL.) ,			River Bed	51.22		m. (MSL.)			
Left Bank Elevation		57.28		m. (MSL.) ,									
Right Bank Elevation		57.79		m. (MSL.) ,			Drainage Are	44,461		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.98	200.63	348.02	355.58	192.50	214.18	74.40	81.56	100.92	181.90	80.02	73.74	
2	145.84	181.90	363.54	330.12	231.88	330.12	103.08	77.80	105.24	173.95	86.30	67.06	
3	136.28	136.28	351.60	256.56	234.95	326.54	153.40	74.40	98.76	168.65	83.16	59.98	
4	118.20	155.92	363.54	269.08	238.02	285.02	158.44	74.40	103.08	127.44	86.30	67.06	
5	116.04	143.32	319.38	295.28	340.86	302.12	155.92	77.80	113.88	121.08	68.83	68.83	
6	127.24	140.80	319.38	295.28	355.58	348.02	197.92	92.84	118.20	98.86	63.52	67.06	
7	131.76	179.25	330.12	278.47	330.12	379.46	208.76	109.56	83.44	92.58	76.88	67.06	
8	109.56	208.76	315.80	275.34	302.12	367.52	219.60	219.60	76.10	89.44	83.16	70.60	
9	116.04	211.47	302.12	262.82	181.90	298.70	214.18	262.82	71.00	89.44	73.74	76.88	
10	113.88	208.76	281.60	265.95	158.44	222.67	206.05	222.67	72.70	80.02	76.88	76.88	
11	124.98	231.88	247.23	231.88	184.55	192.50	192.50	173.95	72.70	73.74	80.02	68.83	
12	111.72	231.88	238.02	234.95	187.20	168.65	192.50	113.88	74.40	80.02	76.88	63.52	
13	120.46	234.95	228.81	231.88	189.85	158.44	200.63	103.08	72.70	89.44	80.02	59.98	
14	145.84	259.69	219.60	244.16	171.30	134.02	176.60	124.98	71.00	92.58	89.44	59.98	
15	136.28	259.69	238.02	238.02	155.92	109.56	195.21	105.24	76.10	86.30	73.74	68.83	
16	143.32	247.23	259.69	228.81	136.28	92.84	291.86	94.72	79.68	80.02	67.06	70.60	
17	143.32	256.56	281.60	238.02	131.76	83.44	337.28	118.20	79.68	80.02	65.29	67.06	
18	148.36	250.30	259.69	253.43	120.46	76.10	216.89	138.54	89.08	67.06	68.83	63.52	
19	173.95	256.56	247.23	244.16	120.46	81.56	171.30	140.80	127.24	70.60	76.88	67.06	
20	166.00	244.16	262.82	238.02	116.04	105.24	140.80	134.02	127.24	65.29	80.02	68.83	
21	160.96	244.16	262.82	247.23	105.24	116.04	127.24	138.54	127.24	68.83	73.74	67.06	
22	155.92	278.47	281.60	244.16	109.56	150.88	116.04	131.76	127.24	68.83	73.74	67.06	
23	171.30	265.95	295.28	231.88	145.84	208.76	107.40	122.72	127.24	89.44	67.06	65.29	
24	187.20	322.96	298.70	275.34	145.84	253.43	100.92	124.98	127.24	95.72	68.83	65.29	
25	206.05	315.80	269.08	256.56	140.80	225.74	92.84	122.72	140.80	80.02	70.60	67.06	
26	206.05	312.38	275.34	222.67	155.92	179.25	85.32	127.24	179.25	80.02	73.74	68.83	
27	211.47	305.54	295.28	225.74	153.40	153.40	89.08	122.72	195.21	92.58	67.06	67.06	
28	200.63	312.38	302.12	225.74	136.28	127.24	81.56	113.88	208.76	83.16	67.06	68.83	
29	208.76	333.70	308.96	219.60	122.72	103.08	83.44	111.72	206.05	73.74	61.75	67.06	
30	206.05	337.28	340.86	228.81	113.88	79.68	83.44	100.92	203.34	70.60		67.06	
31		330.12		214.18	136.28		85.32		200.63	80.02		80.02	
Total	4568.44	7598.73	8707.85	7859.72	5545.95	5874.20	4859.92	3758.06	3656.14	2891.39	2160.55	2103.98	59584.93
Mean	152.28	245.12	290.26	253.54	178.90	195.81	156.77	125.27	117.94	93.27	74.50	67.87	162.80
Max	211.47	337.28	363.54	355.58	355.58	379.46	337.28	262.82	208.76	181.90	89.44	80.02	379.46
Min	109.56	136.28	219.60	214.18	105.24	76.10	74.40	71.00	65.29	61.75	59.98	59.98	59.98
Runoff	394.71	656.53	752.36	679.08	479.17	507.53	419.90	324.70	315.89	249.82	186.67	181.78	5148.14
Momentary Peak	455.90	CMS.	at 53.65 m. (MSL.)	at 20.00 Hours	on Jul 1, 2019								
Runoff Yield	3.67	Liters/Second/Square KM.		3.67	Liters/Second/Square KM.		10.25	Liters/Second/Square KM.					



## WATER YEAR : 2019

## PING RIVER BASIN

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

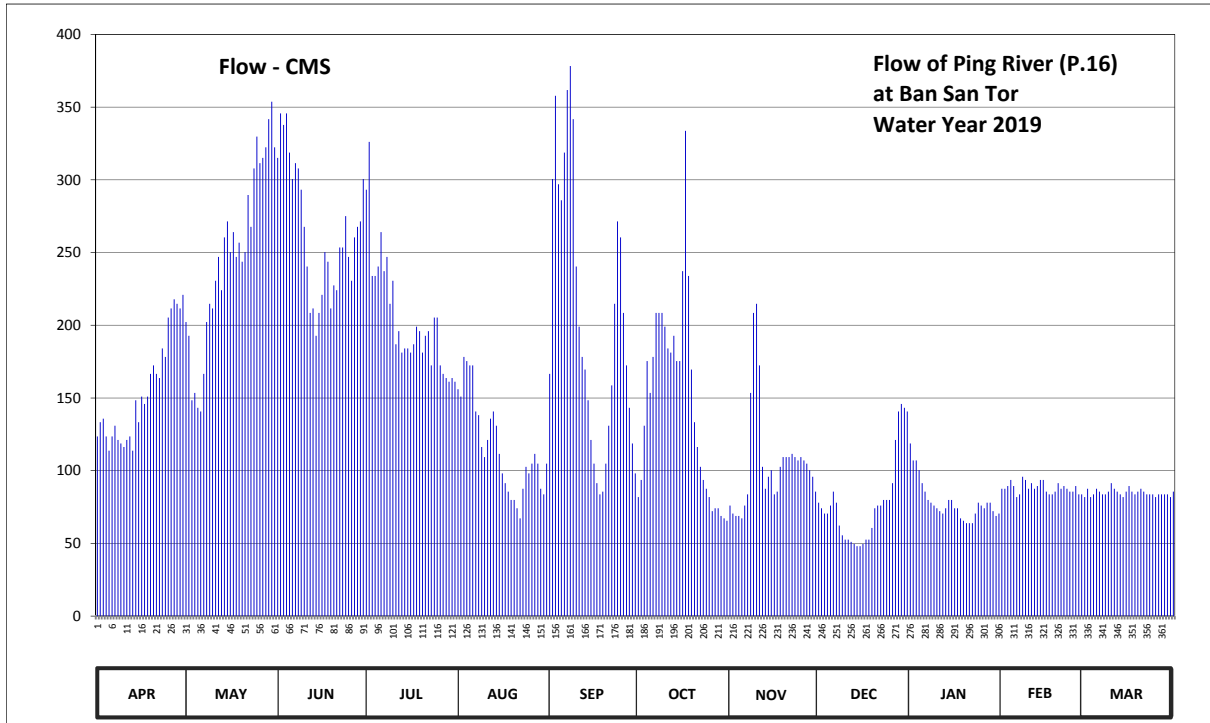
Lat 16 - 03 - 45 N Long 99 - 51 - 48 E

Location : on right bank behind the Post Office.

	Ban San Tor	Amphoe	Khanu Worakabsaburi	Changwat	Kamphaeng Phet
<b>Drainage Area</b>	45,076 sq.km.				
<b>Type of Gage</b>	Staff gage				
<b>Zero Gage at Bottom</b>	+39.780 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank near the automatic gage building.			<b>Elevation</b>	+46.604 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings				
<b>Period of Available Gage Records</b>	1954 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1960 , 1967 - 1974 , 1990 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1960 , 1964 - 1975 , 1979 , 1990 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.64	40.93	41.26	41.20	40.77	40.81	40.45	40.42	40.43	40.62	40.48	40.45	
2	40.68	40.90	41.34	41.29	40.75	41.22	40.51	40.39	40.41	40.57	40.48	40.48	
3	40.69	40.74	41.32	41.03	40.85	41.37	40.67	40.38	40.39	40.57	40.49	40.45	
4	40.64	40.76	41.34	41.03	40.84	41.21	40.84	40.38	40.39	40.54	40.51	40.46	
5	40.60	40.72	41.27	41.05	40.83	41.18	40.76	40.37	40.42	40.50	40.49	40.48	
6	40.64	40.71	41.22	41.12	40.83	41.27	40.85	40.42	40.47	40.47	40.45	40.47	
7	40.67	40.81	41.25	41.04	40.71	41.38	40.95	40.46	40.43	40.44	40.46	40.46	
8	40.63	40.93	41.24	41.07	40.70	41.42	40.95	40.76	40.34	40.43	40.52	40.46	
9	40.62	40.97	41.20	40.97	40.61	41.33	40.95	40.95	40.30	40.42	40.51	40.47	
10	40.61	40.96	41.13	41.02	40.58	41.05	40.92	40.97	40.28	40.41	40.48	40.50	
11	40.63	41.02	41.05	40.88	40.63	40.92	40.87	40.83	40.28	40.40	40.50	40.48	
12	40.64	41.07	40.95	40.91	40.69	40.85	40.86	40.55	40.27	40.39	40.48	40.47	
13	40.60	41.00	40.96	40.86	40.71	40.82	40.90	40.48	40.26	40.41	40.49	40.46	
14	40.74	41.11	40.90	40.87	40.67	40.74	40.84	40.52	40.25	40.44	40.51	40.45	
15	40.68	41.14	40.95	40.87	40.59	40.63	40.84	40.54	40.25	40.44	40.51	40.47	
16	40.75	41.08	40.99	40.86	40.53	40.56	41.04	40.46	40.26	40.41	40.47	40.49	
17	40.73	41.12	41.08	40.88	40.50	40.50	41.31	40.47	40.28	40.41	40.46	40.47	
18	40.75	41.07	41.06	40.92	40.47	40.46	41.03	40.55	40.28	40.37	40.46	40.46	
19	40.81	41.10	40.96	40.91	40.44	40.47	40.82	40.58	40.33	40.36	40.47	40.47	
20	40.83	41.06	41.01	40.86	40.44	40.56	40.68	40.58	40.41	40.35	40.50	40.48	
21	40.81	41.08	41.00	40.90	40.41	40.67	40.61	40.58	40.42	40.35	40.48	40.47	
22	40.80	41.19	41.09	40.91	40.37	40.78	40.55	40.59	40.42	40.35	40.49	40.46	
23	40.87	41.13	41.09	40.83	40.48	40.97	40.51	40.58	40.44	40.39	40.48	40.46	
24	40.85	41.24	41.15	40.94	40.55	41.14	40.48	40.57	40.44	40.43	40.47	40.46	
25	40.94	41.30	41.07	40.94	40.53	41.11	40.45	40.58	40.44	40.42	40.47	40.45	
26	40.96	41.25	41.02	40.83	40.56	40.95	40.40	40.57	40.50	40.41	40.49	40.46	
27	40.98	41.26	41.11	40.81	40.59	40.83	40.41	40.56	40.63	40.43	40.46	40.46	
28	40.97	41.28	41.13	40.80	40.56	40.72	40.41	40.54	40.71	40.43	40.46	40.46	
29	40.96	41.33	41.14	40.79	40.48	40.62	40.38	40.52	40.73	40.40	40.45	40.46	
30	40.99	41.36	41.22	40.80	40.46	40.53	40.37	40.47	40.72	40.38	40.45	40.45	
31		41.28		40.79	40.56		40.36		40.71	40.39		40.47	
Mean	40.76	41.06	41.12	40.93	40.60	40.90	40.71	40.55	40.42	40.43	40.48	40.47	
Max	40.99	41.36	41.34	41.29	40.85	41.42	41.31	40.97	40.73	40.62	40.52	40.50	41.42
Min	40.60	40.71	40.90	40.79	40.37	40.46	40.36	40.37	40.25	40.35	40.45	40.45	40.25
Annual Max Momentary Gage Height	41.49		m. (MSL.) ,				at 24.00 Hours , on Jun 4 , 2019						
Zero Gage at Bottom Elevation	39.78		m. (MSL.) ,			River Bed	38.02	m. (MSL.)					
Left Bank Elevation		46.19		m. (MSL.) ,									
Right Bank Elevation		46.92		m. (MSL.) ,		Drainage Are	45,076	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	123.56	202.19	315.12	293.25	156.05	166.61	81.80	76.04	77.96	118.68	87.56	81.80		
2	133.32	192.80	345.74	326.06	150.95	300.54	93.64	70.54	74.12	107.08	87.56	87.56		
3	135.76	148.40	337.72	233.91	178.25	357.77	130.88	68.88	70.54	107.08	89.48	81.80		
4	123.56	153.50	345.74	233.91	175.34	296.90	175.34	68.88	70.54	100.36	93.64	83.72		
5	113.80	143.30	318.77	240.45	172.43	285.96	153.50	67.22	76.04	91.40	89.48	87.56		
6	123.56	140.75	300.54	264.09	172.43	318.77	178.25	76.04	85.64	85.64	81.80	85.64		
7	130.88	166.61	311.48	237.18	140.75	361.78	208.45	83.72	77.96	79.88	83.72	83.72		
8	121.12	202.19	307.83	246.99	138.20	378.24	208.45	153.50	62.24	77.96	95.88	83.72		
9	118.68	214.71	293.25	214.71	116.24	341.73	208.45	208.45	55.60	76.04	93.64	85.64		
10	116.24	211.58	267.74	230.64	109.32	240.45	199.06	214.71	52.58	74.12	87.56	91.40		
11	121.12	230.64	240.45	186.98	121.12	199.06	184.07	172.43	52.58	72.20	91.40	87.56		
12	123.56	246.99	208.45	195.93	135.76	178.25	181.16	102.60	51.07	70.54	87.56	85.64		
13	113.80	224.10	211.58	181.16	140.75	169.52	192.80	87.56	49.56	74.12	89.48	83.72		
14	148.40	260.45	192.80	184.07	130.88	148.40	175.34	95.88	48.05	79.88	93.64	81.80		
15	133.32	271.38	208.45	184.07	111.56	121.12	175.34	100.36	48.05	79.88	93.64	85.64		
16	150.95	250.26	220.97	181.16	98.12	104.84	237.18	83.72	49.56	74.12	85.64	89.48		
17	145.85	264.09	250.26	186.98	91.40	91.40	333.71	85.64	52.58	74.12	83.72	85.64		
18	150.95	246.99	243.72	199.06	85.64	83.72	233.91	102.60	52.58	67.22	83.72	83.72		
19	166.61	256.80	211.58	195.93	79.88	85.64	169.52	109.32	60.58	65.56	85.64	85.64		
20	172.43	243.72	227.37	181.16	79.88	104.84	133.32	109.32	74.12	63.90	91.40	87.56		
21	166.61	250.26	224.10	192.80	74.12	130.88	116.24	109.32	76.04	63.90	87.56	85.64		
22	163.70	289.61	253.53	195.93	67.22	158.60	102.60	111.56	76.04	63.90	89.48	83.72		
23	184.07	267.74	253.53	172.43	87.56	214.71	93.64	109.32	79.88	70.54	87.56	83.72		
24	178.25	307.83	275.03	205.32	102.60	271.38	87.56	107.08	79.88	77.96	85.64	83.72		
25	205.32	329.70	246.99	205.32	98.12	260.45	81.80	109.32	79.88	76.04	85.64	81.80		
26	211.58	311.48	230.64	172.43	104.84	208.45	72.20	107.08	91.40	74.12	89.48	83.72		
27	217.84	315.12	260.45	166.61	111.56	172.43	74.12	104.84	121.12	77.96	83.72	83.72		
28	214.71	322.41	267.74	163.70	104.84	143.30	74.12	100.36	140.75	77.96	83.72	83.72		
29	211.58	341.73	271.38	161.15	87.56	118.68	68.88	95.88	145.85	72.20	81.80	83.72		
30	220.97	353.76	300.54	163.70	83.72	98.12	67.22	85.64	143.30	68.88	81.80	81.80		
31		322.41		161.15	104.84		65.56		140.75	70.54	85.64			
<b>Total</b>	<b>4642.10</b>	<b>7683.50</b>	<b>7943.49</b>	<b>6358.23</b>	<b>3611.93</b>	<b>6112.54</b>	<b>4558.11</b>	<b>3177.81</b>	<b>2416.84</b>	<b>2433.78</b>	<b>2550.76</b>	<b>2629.88</b>	<b>54118.97</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>154.74</b>	<b>247.85</b>	<b>264.78</b>	<b>205.10</b>	<b>116.51</b>	<b>203.75</b>	<b>147.04</b>	<b>105.93</b>	<b>77.96</b>	<b>78.51</b>	<b>87.96</b>	<b>84.83</b>	<b>147.87</b>	<b>CMS</b>
<b>Max</b>	<b>220.97</b>	<b>353.76</b>	<b>345.74</b>	<b>326.06</b>	<b>178.25</b>	<b>378.24</b>	<b>333.71</b>	<b>214.71</b>	<b>145.85</b>	<b>118.68</b>	<b>95.88</b>	<b>91.40</b>	<b>378.24</b>	<b>CMS</b>
<b>Min</b>	<b>113.80</b>	<b>140.75</b>	<b>192.80</b>	<b>161.15</b>	<b>67.22</b>	<b>83.72</b>	<b>65.56</b>	<b>67.22</b>	<b>48.05</b>	<b>63.90</b>	<b>81.80</b>	<b>81.80</b>	<b>48.05</b>	<b>CMS</b>
<b>Runoff</b>	<b>401.08</b>	<b>663.85</b>	<b>686.32</b>	<b>549.35</b>	<b>312.07</b>	<b>528.12</b>	<b>393.82</b>	<b>274.56</b>	<b>208.81</b>	<b>210.28</b>	<b>220.39</b>	<b>227.22</b>	<b>4675.88</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>407.78</b>	<b>CMS.</b>	<b>at 41.49 m. (MSL.)</b>	<b>at 24.00 Hours</b>	<b>on Jun 4, 2019</b>									
<b>Runoff Yield</b>	<b>3.29</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>9.05</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)

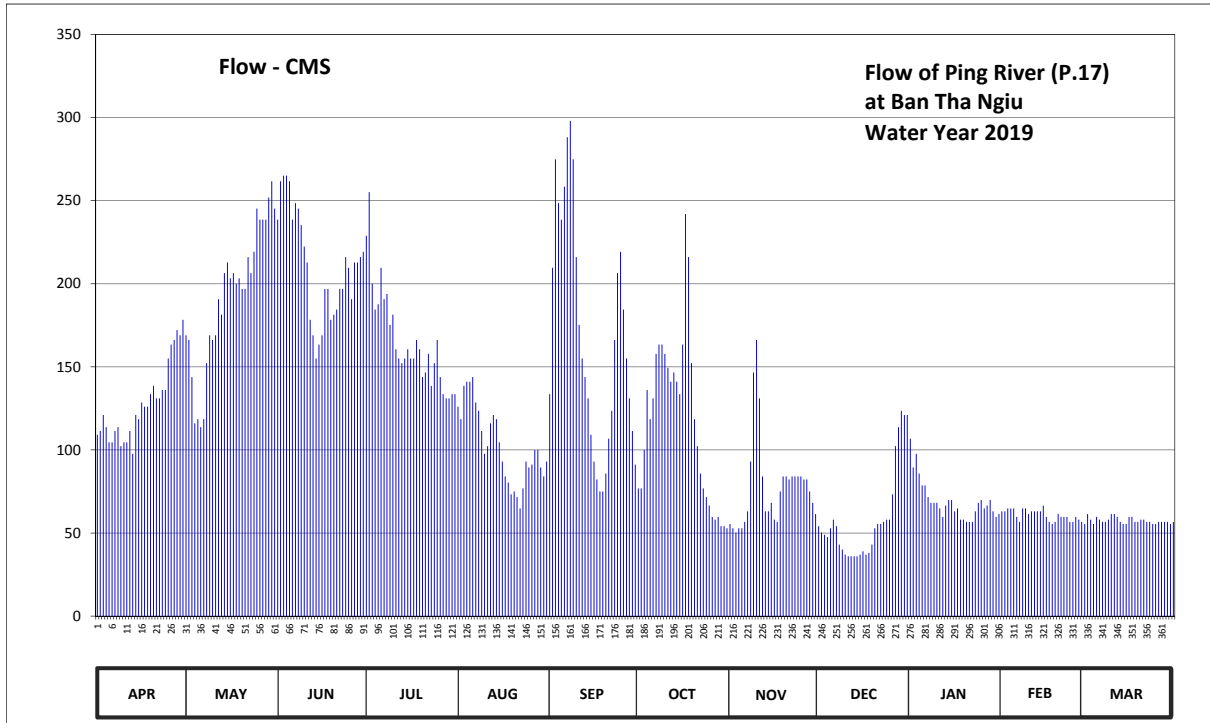
Lat 15 - 56 - 02 N Long 99 - 58 - 50 E

Location : on right bank at Som Sieo Market

	<b>Ban</b>	<b>Tha Ngiu</b>	<b>Amphoe</b>	<b>Banphot Phisai</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	45,297 sq.km.					
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 5.00 meters from the top staff gage				<b>Elevation</b>	+37.900 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1960, 1967 - 1974, 1990 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1954 - 1979, 1990 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 27 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.67	34.90	35.12	35.09	34.74	34.77	34.51	34.38	34.37	34.66	34.43	34.38	
2	34.68	34.89	35.19	35.17	34.71	35.03	34.51	34.36	34.34	34.58	34.43	34.42	
3	34.72	34.81	35.20	35.00	34.79	35.23	34.63	34.34	34.33	34.62	34.44	34.40	
4	34.69	34.70	35.20	34.95	34.80	35.15	34.78	34.36	34.32	34.56	34.44	34.38	
5	34.65	34.71	35.19	34.96	34.80	35.12	34.71	34.36	34.36	34.52	34.44	34.41	
6	34.65	34.69	35.12	35.03	34.81	35.18	34.76	34.39	34.40	34.52	34.41	34.40	
7	34.68	34.71	35.15	34.97	34.75	35.27	34.86	34.43	34.37	34.48	34.39	34.39	
8	34.69	34.84	35.14	34.98	34.73	35.30	34.88	34.60	34.28	34.46	34.44	34.39	
9	34.64	34.90	35.11	34.92	34.68	35.23	34.88	34.82	34.25	34.46	34.44	34.40	
10	34.65	34.89	35.07	34.94	34.62	35.05	34.86	34.89	34.22	34.46	34.42	34.42	
11	34.65	34.90	35.04	34.87	34.64	34.92	34.83	34.76	34.21	34.44	34.43	34.42	
12	34.68	34.97	34.93	34.85	34.70	34.85	34.80	34.55	34.21	34.41	34.43	34.41	
13	34.62	34.94	34.90	34.84	34.72	34.81	34.82	34.43	34.21	34.45	34.43	34.39	
14	34.72	35.02	34.85	34.85	34.71	34.76	34.80	34.43	34.21	34.47	34.43	34.38	
15	34.71	35.04	34.88	34.87	34.65	34.67	34.77	34.46	34.22	34.47	34.45	34.38	
16	34.75	35.01	34.90	34.85	34.60	34.60	34.88	34.40	34.24	34.43	34.41	34.41	
17	34.74	35.02	34.99	34.85	34.55	34.54	35.13	34.39	34.22	34.44	34.39	34.41	
18	34.74	35.00	34.99	34.89	34.53	34.50	35.05	34.50	34.23	34.40	34.38	34.39	
19	34.77	35.01	34.93	34.87	34.49	34.50	34.84	34.55	34.28	34.40	34.39	34.39	
20	34.79	34.99	34.94	34.81	34.50	34.56	34.71	34.55	34.36	34.39	34.42	34.40	
21	34.76	34.99	34.95	34.82	34.48	34.66	34.64	34.54	34.38	34.39	34.41	34.40	
22	34.76	35.05	34.99	34.86	34.44	34.73	34.56	34.55	34.38	34.39	34.41	34.39	
23	34.78	35.02	34.99	34.79	34.51	34.89	34.51	34.55	34.39	34.43	34.41	34.39	
24	34.78	35.06	35.05	34.84	34.60	35.02	34.48	34.55	34.40	34.46	34.39	34.38	
25	34.85	35.14	35.03	34.89	34.58	35.06	34.45	34.55	34.40	34.47	34.39	34.38	
26	34.88	35.12	34.97	34.81	34.59	34.95	34.41	34.54	34.49	34.44	34.41	34.39	
27	34.89	35.12	35.04	34.77	34.63	34.85	34.40	34.54	34.64	34.45	34.40	34.39	
28	34.91	35.12	35.04	34.76	34.63	34.76	34.41	34.50	34.69	34.47	34.39	34.39	
29	34.90	35.16	35.05	34.76	34.58	34.68	34.37	34.46	34.73	34.43	34.39	34.39	
30	34.93	35.19	35.06	34.77	34.55	34.59	34.37	34.42	34.72	34.41	34.38	34.38	
31		35.14		34.77	34.60		34.36		34.72	34.42	34.38	34.38	
Mean	34.74	34.97	35.03	34.88	34.64	34.87	34.68	34.50	34.37	34.46	34.42	34.39	
Max	34.93	35.19	35.20	35.17	34.81	35.30	35.13	34.89	34.73	34.66	34.45	34.42	35.30
Min	34.62	34.69	34.85	34.76	34.44	34.50	34.36	34.34	34.21	34.39	34.38	34.38	34.21
Annual Max Momentary Gage Height	35.31		m. (MSL.) ,			at 03.00 Hours ,	on Sep 8 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	30.63	m. (MSL.)					
Left Bank Elevation		38.71		m. (MSL.) ,									
Right Bank Elevation		38.87		m. (MSL.) ,		Drainage Are	45,297	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.10	169.00	238.60	228.80	126.00	133.50	76.80	55.40	54.10	106.80	63.10	55.40	
2	111.40	166.20	261.70	255.10	118.50	209.60	76.80	52.80	50.20	89.40	63.10	61.40	
3	121.00	143.80	265.00	200.00	138.50	274.90	99.90	50.20	48.90	97.60	64.80	58.00	
4	113.70	116.00	265.00	184.50	141.00	248.50	136.00	52.80	47.60	85.80	64.80	55.40	
5	104.50	118.50	261.70	187.60	141.00	238.60	118.50	52.80	52.80	78.60	64.80	59.70	
6	104.50	113.70	238.60	209.60	143.80	258.40	131.00	56.70	58.00	78.60	59.70	58.00	
7	111.40	118.50	248.50	190.70	128.50	288.10	157.80	63.10	54.10	71.60	56.70	56.70	
8	113.70	152.20	245.20	193.80	123.50	298.00	163.40	93.00	43.00	68.20	64.80	56.70	
9	102.20	169.00	235.30	175.20	111.40	274.90	163.40	146.60	40.00	68.20	64.80	58.00	
10	104.50	166.20	222.40	181.40	97.60	216.00	157.80	166.20	37.00	68.20	61.40	61.40	
11	104.50	169.00	212.80	160.60	102.20	175.20	149.40	131.00	36.00	64.80	63.10	61.40	
12	111.40	190.70	178.30	155.00	116.00	155.00	141.00	84.00	36.00	59.70	63.10	59.70	
13	97.60	181.40	169.00	152.20	121.00	143.80	146.60	63.10	36.00	66.50	63.10	56.70	
14	121.00	206.40	155.00	155.00	118.50	131.00	141.00	63.10	36.00	69.90	63.10	55.40	
15	118.50	212.80	163.40	160.60	104.50	109.10	133.50	68.20	37.00	69.90	66.50	55.40	
16	128.50	203.20	169.00	155.00	93.00	93.00	163.40	58.00	39.00	63.10	59.70	59.70	
17	126.00	206.40	196.90	155.00	84.00	82.20	241.90	56.70	37.00	64.80	56.70	59.70	
18	126.00	200.00	196.90	166.20	80.40	75.00	216.00	75.00	38.00	58.00	55.40	56.70	
19	133.50	203.20	178.30	160.60	73.30	75.00	152.20	84.00	43.00	58.00	56.70	56.70	
20	138.50	196.90	181.40	143.80	75.00	85.80	118.50	84.00	52.80	56.70	61.40	58.00	
21	131.00	196.90	184.50	146.60	71.60	106.80	102.20	82.20	55.40	56.70	59.70	58.00	
22	131.00	216.00	196.90	157.80	64.80	123.50	85.80	84.00	55.40	56.70	59.70	56.70	
23	136.00	206.40	196.90	138.50	76.80	166.20	76.80	84.00	56.70	63.10	59.70	56.70	
24	136.00	219.20	216.00	152.20	93.00	206.40	71.60	84.00	58.00	68.20	56.70	55.40	
25	155.00	245.20	209.60	166.20	89.40	219.20	66.50	84.00	58.00	69.90	56.70	55.40	
26	163.40	238.60	190.70	143.80	91.20	184.50	59.70	82.20	73.30	64.80	59.70	56.70	
27	166.20	238.60	212.80	133.50	99.90	155.00	58.00	82.20	102.20	66.50	58.00	56.70	
28	172.10	238.60	212.80	131.00	99.90	131.00	59.70	75.00	113.70	69.90	56.70	56.70	
29	169.00	251.80	216.00	131.00	89.40	111.40	54.10	68.20	123.50	63.10	56.70	56.70	
30	178.30	261.70	219.20	133.50	84.00	91.20	54.10	61.40	121.00	59.70	55.40	55.40	
31	245.20			133.50	93.00		52.80		121.00	61.40	56.70	56.70	
Total	3839.50	5961.30	6338.40	5138.30	3190.70	5060.80	3626.20	2343.90	1814.70	2144.40	1760.40	1781.20	42999.80 CMSDAY
Mean	127.98	192.30	211.28	165.75	102.93	168.69	116.97	78.13	58.54	69.17	60.70	57.46	117.49 CMS
Max	178.30	261.70	265.00	255.10	143.80	298.00	241.90	166.20	123.50	106.80	66.50	61.40	298.00 CMS
Min	97.60	113.70	155.00	131.00	64.80	75.00	52.80	50.20	36.00	56.70	55.40	55.40	36.00 CMS
Runoff	331.73	515.06	547.64	443.95	275.68	437.25	313.30	202.51	156.79	185.28	152.10	153.90	3715.18 MCM
Momentary Peak	301.40	CMS.	CMS. at 35.31 m. (MSL.)										at 03.00 Hours , on Sep 8, 2019
Runoff Yield	2.60	Liters/Second/Square KM.											Momentary Peak Yield 6.65 Liters/Second/Square KM.

## WATER YEAR : 2019

## PING RIVER BASIN

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

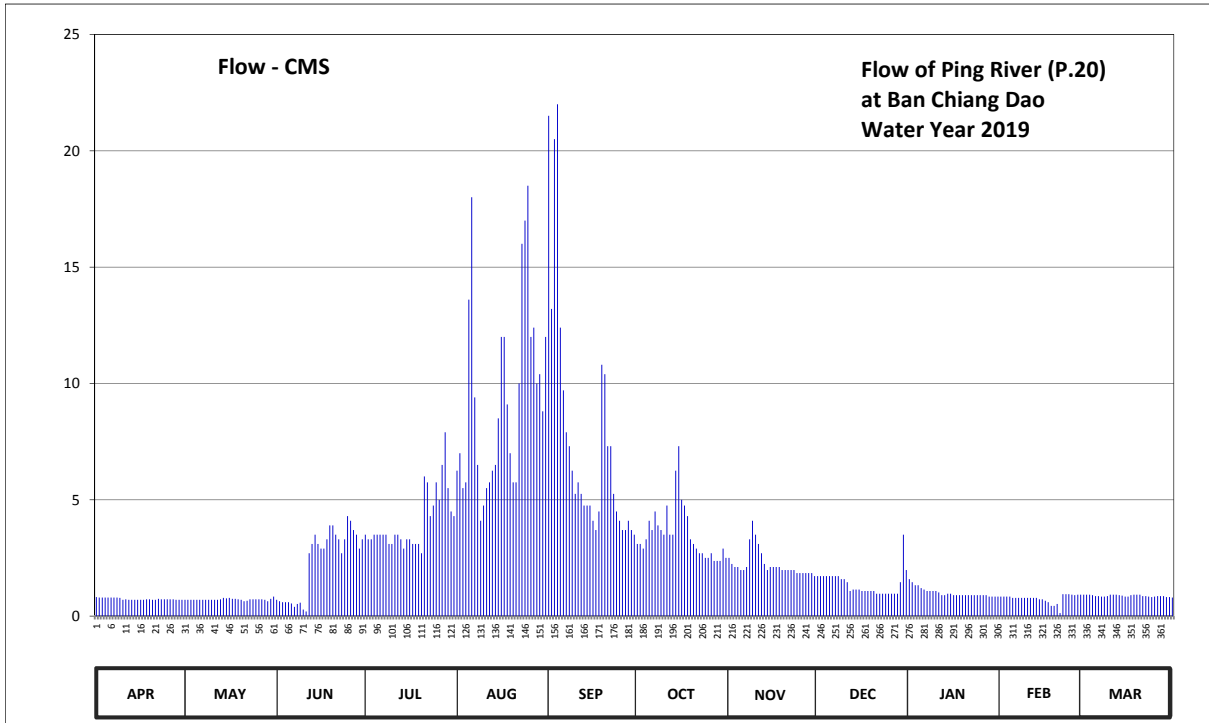
Lat 19 - 21 - 58 N Long 98 - 58 - 21 E

Location : on right bank near War Inthra Ram.

	<b>Ban</b>	<b>Chiang Dao</b>	<b>Amphoe</b>	<b>Chiang Dao</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,345	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+379.900 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	About 2 meters from automatic gage building.				<b>Elevation</b>	+384.033 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979 - 1982 , 1989 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1979 - 1982 , 1989 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.31	380.25	380.25	380.05	380.16	380.55	380.03	380.00	379.94	379.93	379.84	380.36	
2	380.30	380.25	380.22	380.04	380.20	380.38	380.03	379.98	379.94	379.92	379.84	380.36	
3	380.30	380.25	380.20	380.04	380.14	380.53	380.02	379.97	379.94	379.91	379.84	380.36	
4	380.30	380.25	380.20	380.05	380.15	380.56	380.04	379.97	379.94	379.91	379.84	380.35	
5	380.30	380.25	380.20	380.05	380.39	380.36	380.08	379.96	379.94	379.90	379.83	380.33	
6	380.30	380.25	380.17	380.05	380.48	380.29	380.06	379.96	379.94	379.89	379.83	380.33	
7	380.30	380.25	380.10	380.05	380.28	380.23	380.10	379.97	379.94	379.88	379.83	380.32	
8	380.30	380.25	380.16	380.05	380.18	380.21	380.07	380.04	379.94	379.88	379.83	380.32	
9	380.29	380.25	380.19	380.03	380.08	380.17	380.06	380.08	379.93	379.88	379.83	380.33	
10	380.25	380.25	380.04	380.03	380.11	380.13	380.05	380.05	379.93	379.88	379.83	380.36	
11	380.26	380.25	380.00	380.05	380.14	380.15	380.11	380.03	379.92	379.87	379.83	380.36	
12	380.25	380.25	380.01	380.05	380.15	380.13	380.05	380.01	379.88	379.85	379.83	380.36	
13	380.25	380.26	380.03	380.04	380.17	380.11	380.05	379.98	379.89	379.85	379.83	380.35	
14	380.25	380.29	380.05	380.02	380.18	380.11	380.17	379.96	379.89	379.86	379.82	380.34	
15	380.25	380.28	380.03	380.04	380.25	380.11	380.21	379.97	379.89	379.86	379.82	380.32	
16	380.25	380.29	380.02	380.04	380.35	380.08	380.12	379.97	379.88	379.85	379.81	380.32	
17	380.25	380.27	380.02	380.03	380.35	380.06	380.11	379.97	379.88	379.85	379.80	380.35	
18	380.26	380.27	380.04	380.03	380.27	380.10	380.09	379.97	379.88	379.85	379.76	380.36	
19	380.26	380.26	380.07	380.03	380.20	380.32	380.04	379.96	379.88	379.85	379.76	380.36	
20	380.25	380.25	380.07	380.01	380.15	380.31	380.03	379.96	379.88	379.85	379.78	380.36	
21	380.25	380.22	380.05	380.16	380.15	380.21	380.02	379.96	379.86	379.85	379.93	380.33	
22	380.27	380.23	380.04	380.15	380.30	380.21	380.01	379.96	379.86	379.85	380.37	380.33	
23	380.26	380.26	380.01	380.09	380.44	380.13	380.01	379.96	379.86	379.85	380.37	380.32	
24	380.26	380.26	380.04	380.11	380.46	380.10	380.00	379.95	379.86	379.85	380.37	380.31	
25	380.26	380.26	380.09	380.15	380.49	380.08	380.00	379.95	379.86	379.85	380.36	380.32	
26	380.26	380.26	380.08	380.12	380.35	380.06	380.01	379.95	379.86	379.85	380.35	380.33	
27	380.26	380.26	380.06	380.18	380.36	380.06	379.99	379.95	379.86	379.85	380.36	380.33	
28	380.25	380.25	380.05	380.23	380.30	380.08	379.99	379.95	379.86	379.84	380.36	380.33	
29	380.25	380.22	380.02	380.14	380.31	380.06	379.99	379.95	379.92	379.84	380.36	380.31	
30	380.25	380.27	380.04	380.10	380.26	380.05	380.02	379.94	380.05	379.84	380.31	380.31	
31		380.32		380.09	380.35		380.00		379.96	379.84	380.30	380.30	
Mean	380.27	380.26	380.09	380.07	380.26	380.20	380.05	379.98	379.91	379.87	379.97	380.34	
Max	380.31	380.32	380.25	380.23	380.49	380.56	380.21	380.08	380.05	379.93	380.37	380.36	380.56
Min	380.25	380.22	380.00	380.01	380.08	380.05	379.99	379.94	379.86	379.84	379.76	380.30	379.76
Annual Max Momentary Gage Height	380.68												at 15.00 Hours , on Sep 4 , 2019
Zero Gage at Bottom Elevation	379.90						378.67						m. (MSL.)
Left Bank Elevation		385.62											m. (MSL.)
Right Bank Elevation		386.72											m. (MSL.)
Drainage Area						1,345							Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.82	0.70	0.70	3.50	6.25	21.50	3.10	2.50	1.72	1.59	0.84	0.92	
2	0.80	0.70	0.64	3.30	7.00	13.20	3.10	2.24	1.72	1.46	0.84	0.92	
3	0.80	0.70	0.60	3.30	5.50	20.50	2.90	2.11	1.72	1.33	0.84	0.92	
4	0.80	0.70	0.60	3.50	5.75	22.00	3.30	2.11	1.72	1.33	0.84	0.90	
5	0.80	0.70	0.60	3.50	13.60	12.40	4.10	1.98	1.72	1.20	0.78	0.86	
6	0.80	0.70	0.54	3.50	18.00	9.70	3.70	1.98	1.72	1.14	0.78	0.86	
7	0.80	0.70	0.40	3.50	9.40	7.90	4.50	2.11	1.72	1.08	0.78	0.84	
8	0.80	0.70	0.52	3.50	6.50	7.30	3.90	3.30	1.72	1.08	0.78	0.84	
9	0.78	0.70	0.58	3.10	4.10	6.25	3.70	4.10	1.59	1.08	0.78	0.86	
10	0.70	0.70	0.28	3.10	4.75	5.25	3.50	3.50	1.59	1.08	0.78	0.92	
11	0.72	0.70	0.20	3.50	5.50	5.75	4.75	3.10	1.46	1.02	0.78	0.92	
12	0.70	0.70	2.70	3.50	5.75	5.25	3.50	2.70	1.08	0.90	0.78	0.92	
13	0.70	0.72	3.10	3.30	6.25	4.75	3.50	2.24	1.14	0.90	0.78	0.90	
14	0.70	0.78	3.50	2.90	6.50	4.75	6.25	1.98	1.14	0.96	0.72	0.88	
15	0.70	0.76	3.10	3.30	8.50	4.75	7.30	2.11	1.14	0.96	0.72	0.84	
16	0.70	0.78	2.90	3.30	12.00	4.10	5.00	2.11	1.08	0.90	0.66	0.84	
17	0.70	0.74	2.90	3.10	12.00	3.70	4.75	2.11	1.08	0.90	0.60	0.90	
18	0.72	0.74	3.30	3.10	9.10	4.50	4.30	2.11	1.08	0.90	0.44	0.92	
19	0.72	0.72	3.90	3.10	7.00	10.80	3.30	1.98	1.08	0.90	0.44	0.92	
20	0.70	0.70	3.90	2.70	5.75	10.40	3.10	1.98	1.08	0.90	0.52	0.92	
21	0.70	0.64	3.50	6.00	5.75	7.30	2.90	1.98	0.96	0.90	0.13	0.86	
22	0.74	0.66	3.30	5.75	10.00	7.30	2.70	1.98	0.96	0.90	0.94	0.86	
23	0.72	0.72	2.70	4.30	16.00	5.25	2.70	1.98	0.96	0.90	0.94	0.84	
24	0.72	0.72	3.30	4.75	17.00	4.50	2.50	1.85	0.96	0.90	0.94	0.82	
25	0.72	0.72	4.30	5.75	18.50	4.10	2.50	1.85	0.96	0.90	0.92	0.84	
26	0.72	0.72	4.10	5.00	12.00	3.70	2.70	1.85	0.96	0.90	0.90	0.86	
27	0.72	0.72	3.70	6.50	12.40	3.70	2.37	1.85	0.96	0.90	0.92	0.86	
28	0.70	0.70	3.50	7.90	10.00	4.10	2.37	1.85	0.96	0.84	0.92	0.86	
29	0.70	0.64	2.90	5.50	10.40	3.70	2.37	1.85	1.46	0.84	0.92	0.82	
30	0.70	0.74	3.30	4.50	8.80	3.50	2.90	1.72	3.50	0.84		0.82	
31		0.84		4.30	12.00		2.50		1.98	0.84		0.80	
Total	22.10	22.16	69.56	125.85	292.05	231.90	110.06	67.11	42.92	31.27	22.01	27.04	1064.03 CMSDAY
Mean	0.74	0.71	2.32	4.06	9.42	7.73	3.55	2.24	1.38	1.01	0.76	0.87	2.91 CMS
Max	0.82	0.84	4.30	7.90	18.50	22.00	7.30	4.10	3.50	1.59	0.94	0.92	22.00 CMS
Min	0.70	0.64	0.20	2.70	4.10	3.50	2.37	1.72	0.96	0.84	0.13	0.80	0.13 CMS
Runoff	1.91	1.91	6.01	10.87	25.23	20.04	9.51	5.80	3.71	2.70	1.90	2.34	91.93 MCM
Momentary Peak	28.80	CMS.	at 380.68 m. (MSL.)	at 15.00 Hours	on Sep 4, 2019								
Runoff Yield	2.17	Liters/Second/Square KM.		Momentary Peak Yield	21.41	Liters/Second/Square KM.							

## WATER YEAR : 2019

## PING RIVER BASIN

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

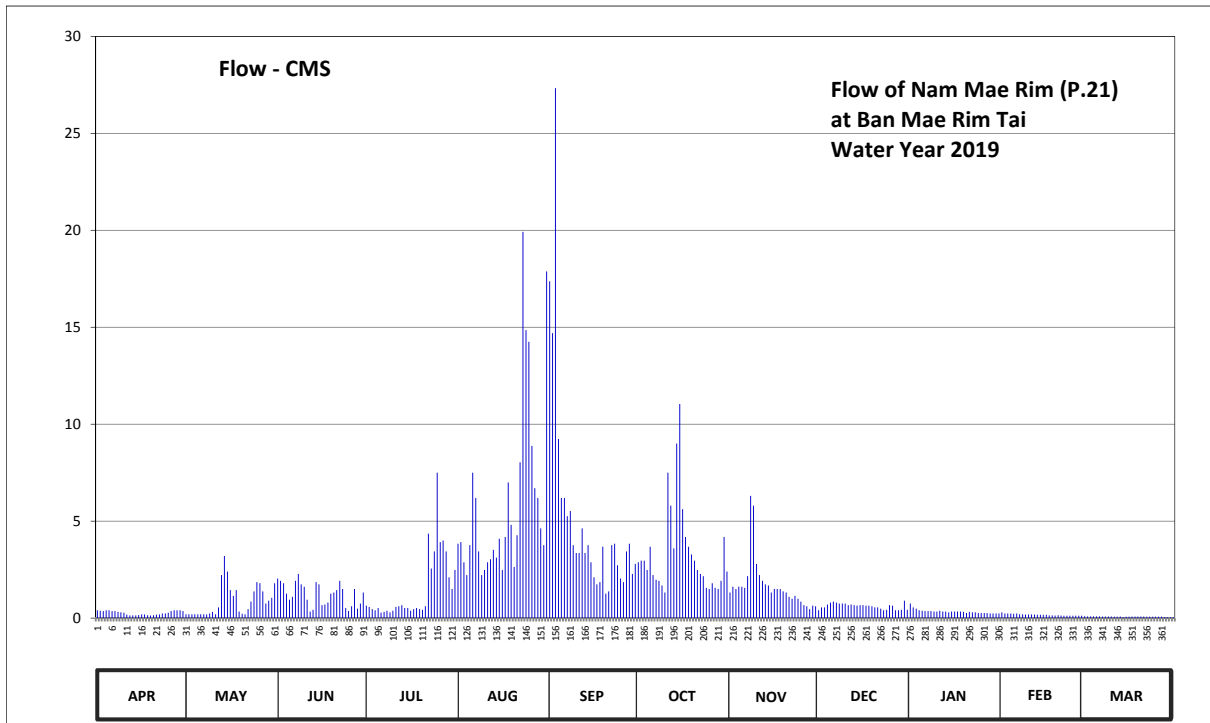
Lat 18 - 55 - 45 N Long 98 - 56 - 40 E

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

	<b>Ban Mae Rim Tai</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	452 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+319.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In the vicinity of gage observer's house.	<b>Elevation</b>	+325.270 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1954 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1954 - 1960 , 1977 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1954 - 1960 , 1977 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.20	320.10	320.54	320.28	320.78	321.91	320.66	320.42	320.20	320.31	320.15	320.00	
2	320.19	320.10	320.52	320.26	320.79	321.74	320.67	320.47	320.25	320.25	320.12	319.98	
3	320.18	320.10	320.50	320.22	320.66	322.43	320.67	320.45	320.25	320.23	320.12	319.98	
4	320.20	320.10	320.41	320.20	320.57	321.32	320.61	320.47	320.30	320.20	320.12	319.98	
5	320.20	320.10	320.35	320.24	320.77	321.04	320.76	320.47	320.32	320.19	320.11	319.99	
6	320.18	320.10	320.38	320.14	321.17	321.04	320.57	320.46	320.33	320.18	320.12	319.99	
7	320.18	320.10	320.52	320.16	321.04	320.94	320.53	320.56	320.32	320.18	320.10	319.97	
8	320.16	320.09	320.58	320.19	320.73	320.97	320.52	321.05	320.31	320.18	320.10	319.96	
9	320.15	320.12	320.49	320.15	320.57	320.77	320.48	321.00	320.31	320.17	320.08	319.96	
10	320.14	320.16	320.47	320.19	320.61	320.72	320.42	320.65	320.31	320.17	320.09	319.96	
11	320.08	320.10	320.35	320.26	320.66	320.72	321.17	320.57	320.29	320.19	320.09	319.95	
12	320.04	320.25	320.17	320.27	320.68	320.87	321.00	320.52	320.30	320.17	320.08	319.95	
13	320.04	320.57	320.21	320.29	320.74	320.72	320.75	320.49	320.29	320.17	320.07	319.96	
14	320.04	320.70	320.51	320.24	320.69	320.77	321.30	320.48	320.28	320.15	320.07	319.94	
15	320.06	320.60	320.49	320.24	320.81	320.66	321.47	320.42	320.29	320.17	320.07	319.95	
16	320.09	320.44	320.29	320.19	320.61	320.55	320.98	320.45	320.29	320.17	320.07	319.95	
17	320.09	320.39	320.30	320.22	320.82	320.49	320.82	320.45	320.28	320.17	320.04	319.96	
18	320.05	320.44	320.32	320.24	321.12	320.51	320.76	320.45	320.28	320.17	320.04	319.96	
19	320.03	320.17	320.41	320.22	320.89	320.76	320.71	320.43	320.27	320.16	320.03	319.96	
20	320.05	320.11	320.42	320.21	320.63	320.41	320.67	320.42	320.25	320.13	320.05	319.96	
21	320.08	320.10	320.44	320.27	320.83	320.43	320.61	320.38	320.25	320.16	320.03	319.96	
22	320.09	320.22	320.52	320.84	321.22	320.77	320.58	320.36	320.23	320.15	320.02	319.95	
23	320.12	320.33	320.45	320.62	322.06	320.78	320.56	320.39	320.20	320.15	320.02	319.95	
24	320.12	320.43	320.24	320.73	321.75	320.64	320.46	320.36	320.21	320.13	320.02	319.95	
25	320.14	320.51	320.18	321.17	321.71	320.54	320.45	320.33	320.29	320.13	320.02	319.95	
26	320.18	320.50	320.27	320.79	321.29	320.51	320.50	320.29	320.28	320.13	320.02	319.95	
27	320.20	320.43	320.45	320.80	321.09	320.73	320.46	320.27	320.20	320.13	320.02	319.95	
28	320.20	320.31	320.23	320.73	321.04	320.78	320.45	320.22	320.20	320.12	320.02	319.93	
29	320.20	320.34	320.31	320.55	320.87	320.58	320.52	320.28	320.21	320.12	320.01	319.90	
30	320.18	320.37	320.42	320.45	320.77	320.65	320.82	320.27	320.34	320.12	320.01	319.90	
31		320.50		320.61	321.94		320.60		320.21	320.12		319.92	
Mean	320.13	320.29	320.39	320.39	320.96	320.86	320.69	320.46	320.27	320.17	320.07	319.96	
Max	320.20	320.70	320.58	321.17	322.06	322.43	321.47	321.05	320.34	320.31	320.15	320.00	322.43
Min	320.03	320.09	320.17	320.14	320.57	320.41	320.42	320.22	320.20	320.12	320.01	319.90	319.90
Annual Max Momentary Gage Height	322.58		m. (MSL.) ,				at 12.00 Hours , on Sep 3 , 2019						
Zero Gage at Bottom Elevation	319.70		m. (MSL.) ,			River Bed	319.53	m. (MSL.)					
Left Bank Elevation		325.15		m. (MSL.) ,									
Right Bank Elevation		325.15		m. (MSL.) ,		Drainage Are	452	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	0.40	0.20	2.04	0.64	3.84	17.37	2.88	1.32	0.40	0.75	0.30	0.10				
2	0.38	0.20	1.92	0.58	3.92	14.70	2.96	1.62	0.55	0.55	0.24	0.09				
3	0.36	0.20	1.80	0.46	2.88	27.33	2.96	1.50	0.55	0.49	0.24	0.09				
4	0.40	0.20	1.26	0.40	2.22	9.24	2.48	1.62	0.70	0.40	0.24	0.09				
5	0.40	0.20	0.95	0.52	3.76	6.20	3.68	1.62	0.80	0.38	0.22	0.09				
6	0.36	0.20	1.10	0.28	7.50	6.20	2.22	1.56	0.85	0.36	0.24	0.09				
7	0.36	0.20	1.92	0.32	6.20	5.26	1.98	2.16	0.80	0.36	0.20	0.08				
8	0.32	0.19	2.28	0.38	3.44	5.53	1.92	6.30	0.75	0.36	0.20	0.08				
9	0.30	0.24	1.74	0.30	2.22	3.76	1.68	5.80	0.75	0.34	0.18	0.08				
10	0.28	0.32	1.62	0.38	2.48	3.36	1.32	2.80	0.75	0.34	0.19	0.08				
11	0.18	0.20	0.95	0.58	2.88	3.36	7.50	2.22	0.67	0.38	0.19	0.07				
12	0.14	0.55	0.34	0.61	3.04	4.63	5.80	1.92	0.70	0.34	0.18	0.07				
13	0.14	2.22	0.43	0.67	3.52	3.36	3.60	1.74	0.67	0.34	0.17	0.08				
14	0.14	3.20	1.86	0.52	3.12	3.76	9.00	1.68	0.64	0.30	0.17	0.06				
15	0.16	2.40	1.74	0.52	4.09	2.88	11.04	1.32	0.67	0.34	0.17	0.07				
16	0.19	1.44	0.67	0.38	2.48	2.10	5.62	1.50	0.67	0.34	0.17	0.07				
17	0.19	1.15	0.70	0.46	4.18	1.74	4.18	1.50	0.64	0.34	0.14	0.08				
18	0.15	1.44	0.80	0.52	7.00	1.86	3.68	1.50	0.64	0.34	0.14	0.08				
19	0.13	0.34	1.26	0.46	4.81	3.68	3.28	1.38	0.61	0.32	0.13	0.08				
20	0.15	0.22	1.32	0.43	2.64	1.26	2.96	1.32	0.55	0.26	0.15	0.08				
21	0.18	0.20	1.44	0.61	4.27	1.38	2.48	1.10	0.55	0.32	0.13	0.08				
22	0.19	0.46	1.92	4.36	8.04	3.76	2.28	1.00	0.49	0.30	0.12	0.07				
23	0.24	0.85	1.50	2.56	19.92	3.84	2.16	1.15	0.40	0.30	0.12	0.07				
24	0.24	1.38	0.52	3.44	14.85	2.72	1.56	1.00	0.43	0.26	0.12	0.07				
25	0.28	1.86	0.36	7.50	14.25	2.04	1.50	0.85	0.67	0.26	0.12	0.07				
26	0.36	1.80	0.61	3.92	8.88	1.86	1.80	0.67	0.64	0.26	0.12	0.07				
27	0.40	1.38	1.50	4.00	6.70	3.44	1.56	0.61	0.40	0.26	0.12	0.07				
28	0.40	0.75	0.49	3.44	6.20	3.84	1.50	0.46	0.40	0.24	0.12	0.06				
29	0.40	0.90	0.75	2.10	4.63	2.28	1.92	0.64	0.43	0.24	0.11	0.04				
30	0.36	1.05	1.32	1.50	3.76	2.80	4.18	0.61	0.90	0.24		0.04				
31		1.80		2.48	17.88		2.40		0.43	0.24			0.05			
<b>Total</b>	8.18	27.74	37.11	45.32	185.60	155.54	104.08	50.47	19.10	10.55	4.94	2.30	650.93 CMSDAY			
<b>Mean</b>	0.27	0.89	1.24	1.46	5.99	5.18	3.36	1.68	0.62	0.34	0.17	0.07	1.78 CMS			
<b>Max</b>	0.40	3.20	2.28	7.50	19.92	27.33	11.04	6.30	0.90	0.75	0.30	0.10	27.33 CMS			
<b>Min</b>	0.13	0.19	0.34	0.28	2.22	1.26	1.32	0.46	0.40	0.24	0.11	0.04	0.04 CMS			
<b>Runoff</b>	0.71	2.40	3.21	3.92	16.04	13.44	8.99	4.36	1.65	0.91	0.43	0.20	56.24 MCM			
<b>Momentary Peak</b>	30.56	CMS. at 322.58 m. (MSL.) at 12.00 Hours , on Sep 3 , 2019														
<b>Runoff Yield</b>	3.95	Liters/Second/Square KM.											<b>Momentary Peak Yield</b>	67.61	Liters/Second/Square KM.	



## WATER YEAR : 2019

## PING RIVER BASIN

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

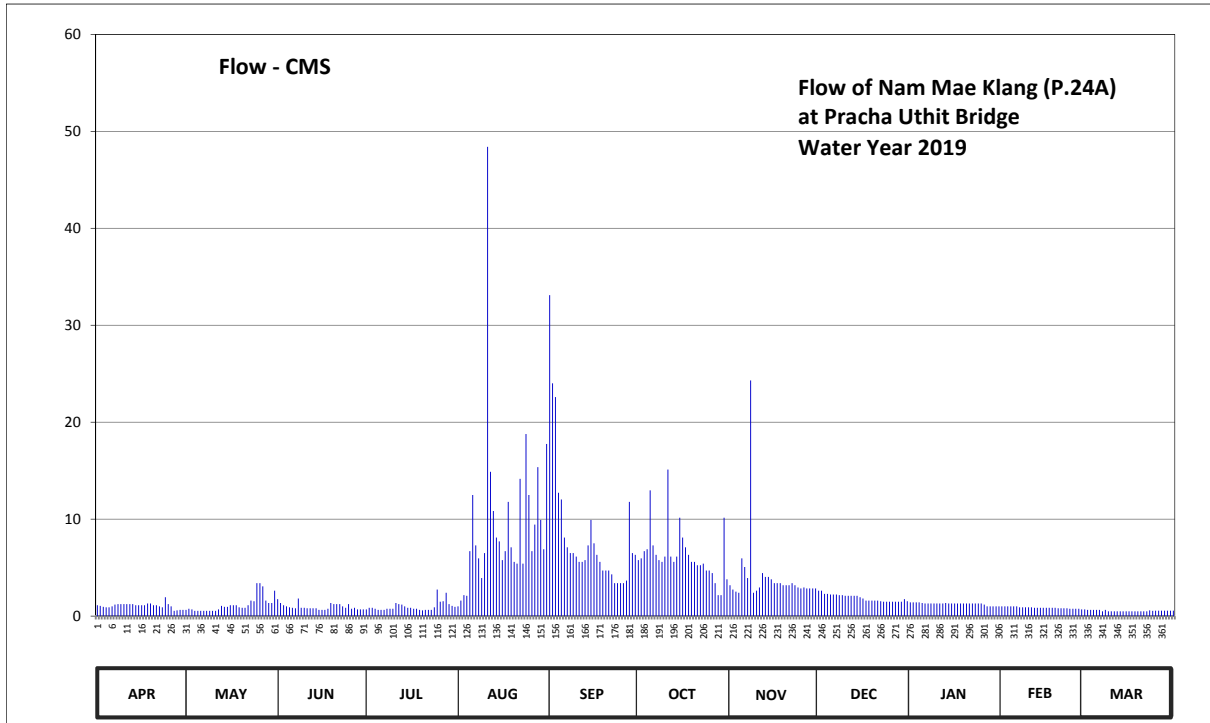
Lat 18 - 24 - 56 N Long 98 - 40 - 11 E

Location : on left bank at Pracha Uthit Bridge.

	<b>Ban</b>	Pracha Uthit Bridge	<b>Amphoe</b>	Chom Thong	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	452	sq.km.				
<b>Type of Gage</b>		Staff gage				
<b>Zero Gage at Bottom</b>	+275.000	m. (MSL.)				
<b>Bench Mark</b>		B.M.-H.D.				
<b>Location BM</b>		near the gage observer's house.			<b>Elevation</b>	+277.954 m. (MSL.)
<b>Gage Reading Frequency</b>		3-time daily reading at 06.00, 12.00 and 18.00 hours.				
<b>Basis of Mean Daily Gage Height</b>		Arithmetic mean of 3 readings				
<b>Period of Available Gage Records</b>		1973 to date				
<b>Rating Operation</b>						
<b>Period of Rating</b>		1973 to date				
<b>Rated by Flot</b>		-				
<b>Rated by Current Meter</b>		1973 to date				
<b>Stability of Channel Regimes</b>		Fairly stable.				
<b>Overbank Flow Conditions</b>		No overbank flow.				
<b>General Description</b>		Records good. Stage-discharge relation defined by 28 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.32	275.23	275.42	275.24	275.30	276.83	275.76	275.58	275.53	275.37	275.30	275.24	
2	275.31	275.25	275.36	275.27	275.40	276.52	275.77	275.54	275.53	275.37	275.30	275.23	
3	275.29	275.24	275.32	275.27	275.48	276.47	275.81	275.52	275.50	275.37	275.30	275.23	
4	275.28	275.21	275.30	275.25	275.47	276.08	275.82	275.51	275.50	275.37	275.30	275.23	
5	275.28	275.21	275.28	275.23	275.81	276.05	276.09	275.77	275.49	275.36	275.30	275.23	
6	275.30	275.21	275.27	275.23	276.07	275.88	275.84	275.72	275.49	275.35	275.30	275.23	
7	275.33	275.21	275.26	275.23	275.84	275.83	275.79	275.64	275.49	275.35	275.28	275.20	
8	275.34	275.21	275.43	275.25	275.77	275.80	275.76	276.53	275.48	275.35	275.28	275.23	
9	275.34	275.21	275.27	275.25	275.64	275.80	275.75	275.51	275.48	275.35	275.28	275.20	
10	275.34	275.21	275.27	275.25	275.80	275.78	275.78	275.53	275.47	275.35	275.28	275.20	
11	275.34	275.21	275.26	275.36	277.30	275.75	276.18	275.56	275.47	275.35	275.28	275.20	
12	275.34	275.24	275.26	275.34	276.17	275.75	275.78	275.68	275.47	275.35	275.27	275.20	
13	275.34	275.31	275.26	275.33	276.00	275.76	275.75	275.65	275.47	275.36	275.27	275.20	
14	275.32	275.29	275.26	275.30	275.88	275.84	275.78	275.65	275.47	275.35	275.27	275.20	
15	275.32	275.29	275.23	275.27	275.86	275.96	275.97	275.63	275.45	275.35	275.27	275.20	
16	275.32	275.32	275.23	275.27	275.76	275.85	275.88	275.60	275.43	275.35	275.27	275.20	
17	275.32	275.32	275.23	275.25	275.81	275.79	275.83	275.60	275.40	275.35	275.27	275.20	
18	275.35	275.32	275.25	275.25	276.04	275.75	275.79	275.60	275.40	275.35	275.27	275.20	
19	275.35	275.28	275.36	275.23	275.83	275.70	275.75	275.58	275.40	275.35	275.27	275.20	
20	275.32	275.27	275.34	275.22	275.75	275.70	275.75	275.58	275.40	275.35	275.26	275.20	
21	275.32	275.27	275.34	275.23	275.74	275.70	275.73	275.58	275.40	275.35	275.26	275.20	
22	275.30	275.32	275.34	275.23	276.14	275.67	275.73	275.60	275.39	275.35	275.26	275.20	
23	275.28	275.40	275.30	275.23	275.74	275.60	275.74	275.58	275.38	275.35	275.26	275.22	
24	275.45	275.39	275.27	275.28	276.33	275.60	275.70	275.56	275.38	275.35	275.25	275.21	
25	275.34	275.60	275.34	275.54	276.07	275.60	275.70	275.55	275.38	275.35	275.25	275.32	
26	275.30	275.60	275.25	275.38	275.81	275.60	275.68	275.56	275.38	275.33	275.25	275.32	
27	275.21	275.57	275.27	275.39	275.94	275.62	275.60	275.55	275.38	275.30	275.25	275.32	
28	275.22	275.40	275.24	275.51	276.19	276.04	275.48	275.55	275.38	275.30	275.24	275.32	
29	275.23	275.36	275.24	275.34	275.96	275.80	275.48	275.55	275.38	275.30	275.24	275.32	
30	275.23	275.36	275.24	275.31	275.82	275.79	275.97	275.55	275.42	275.30	275.24	275.32	
31		275.53		275.29	276.29		275.63		275.39	275.30		275.32	
Mean	275.31	275.32	275.29	275.29	275.90	275.86	275.78	275.62	275.44	275.34	275.27	275.24	
Max	275.45	275.60	275.43	275.54	277.30	276.83	276.18	276.53	275.53	275.37	275.30	275.32	277.30
Min	275.21	275.21	275.23	275.22	275.30	275.60	275.48	275.51	275.38	275.30	275.24	275.20	275.20
Annual Max Momentary Gage Height	278.50		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	275.00		m. (MSL.) ,			River Bed	274.72	m. (MSL.)					
Left Bank Elevation		280.23		m. (MSL.) ,									
Right Bank Elevation		280.04		m. (MSL.) ,		Drainage Are	452	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.12	0.65	1.74	0.70	1.00	33.10	5.78	3.18	2.63	1.42	1.00	0.70	
2	1.06	0.75	1.36	0.85	1.60	24.02	5.96	2.74	2.63	1.42	1.00	0.65	
3	0.95	0.70	1.12	0.85	2.16	22.60	6.70	2.52	2.30	1.42	1.00	0.65	
4	0.90	0.55	1.00	0.75	2.09	12.73	6.90	2.41	2.30	1.42	1.00	0.65	
5	0.90	0.55	0.90	0.65	6.07	12.03	12.97	5.96	2.23	1.36	1.00	0.65	
6	1.00	0.55	0.85	0.65	12.50	8.10	7.30	5.06	2.23	1.30	1.00	0.65	
7	1.18	0.55	0.80	0.65	7.30	7.10	6.32	3.92	2.23	1.30	0.90	0.50	
8	1.24	0.55	1.81	0.75	5.96	6.50	5.78	24.31	2.16	1.30	0.90	0.65	
9	1.24	0.55	0.85	0.75	3.92	6.50	5.60	2.41	2.16	1.30	0.90	0.50	
10	1.24	0.55	0.85	0.75	6.50	6.14	6.14	2.63	2.09	1.30	0.90	0.50	
11	1.24	0.55	0.80	1.36	48.40	5.60	15.12	2.96	2.09	1.30	0.90	0.50	
12	1.24	0.70	0.80	1.24	14.88	5.60	6.14	4.44	2.09	1.30	0.85	0.50	
13	1.24	1.06	0.80	1.18	10.85	5.78	5.60	4.05	2.09	1.36	0.85	0.50	
14	1.12	0.95	0.80	1.00	8.10	7.30	6.14	4.05	2.09	1.30	0.85	0.50	
15	1.12	0.95	0.65	0.85	7.70	9.91	10.15	3.79	1.95	1.30	0.85	0.50	
16	1.12	1.12	0.65	0.85	5.78	7.50	8.10	3.40	1.81	1.30	0.85	0.50	
17	1.12	1.12	0.65	0.75	6.70	6.32	7.10	3.40	1.60	1.30	0.85	0.50	
18	1.30	1.12	0.75	0.75	11.79	5.60	6.32	3.40	1.60	1.30	0.85	0.50	
19	1.30	0.90	1.36	0.65	7.10	4.70	5.60	3.18	1.60	1.30	0.85	0.50	
20	1.12	0.85	1.24	0.60	5.60	4.70	5.60	3.18	1.60	1.30	0.80	0.50	
21	1.12	0.85	1.24	0.65	5.42	4.70	5.24	3.18	1.60	1.30	0.80	0.50	
22	1.00	1.12	1.24	0.65	14.16	4.31	5.24	3.40	1.54	1.30	0.80	0.50	
23	0.90	1.60	1.00	0.65	5.42	3.40	5.42	3.18	1.48	1.30	0.80	0.60	
24	1.95	1.54	0.85	0.90	18.78	3.40	4.70	2.96	1.48	1.30	0.75	0.55	
25	1.24	3.40	1.24	2.74	12.50	3.40	4.70	2.85	1.48	1.30	0.75	0.56	
26	1.00	3.40	0.75	1.48	6.70	3.40	4.44	2.96	1.48	1.18	0.75	0.56	
27	0.55	3.07	0.85	1.54	9.44	3.66	3.40	2.85	1.48	1.00	0.75	0.56	
28	0.60	1.60	0.70	2.41	15.36	11.79	2.16	2.85	1.48	1.00	0.70	0.56	
29	0.65	1.36	0.70	1.24	9.91	6.50	2.16	2.85	1.48	1.00	0.70	0.56	
30	0.65	1.36	0.70	1.06	6.90	6.32	10.15	2.85	1.74	1.00		0.56	
31		2.63		0.95	17.76		3.79		1.54	1.00		0.56	
<b>Total</b>	32.41	37.20	29.05	30.85	298.98	252.71	196.72	120.92	58.26	39.28	24.90	17.17	1138.45 CMSDAY
<b>Mean</b>	1.08	1.20	0.97	1.00	9.64	8.42	6.35	4.03	1.88	1.27	0.86	0.55	3.11 CMS
<b>Max</b>	1.95	3.40	1.81	2.74	48.40	33.10	15.12	24.31	2.63	1.42	1.00	0.70	48.40 CMS
<b>Min</b>	0.55	0.55	0.65	0.60	1.00	3.40	2.16	2.41	1.48	1.00	0.70	0.50	0.50 CMS
<b>Runoff</b>	2.80	3.21	2.51	2.67	25.83	21.83	17.00	10.45	5.03	3.39	2.15	1.48	98.36 MCM
<b>Momentary Peak</b>	92.30 CMS. at 278.50 m. (MSL.) at 11.00 Hours , on Aug 11 , 2019												
<b>Runoff Yield</b>	6.90 Liters/Second/Square KM.			Momentary Peak Yield			204.20 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

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

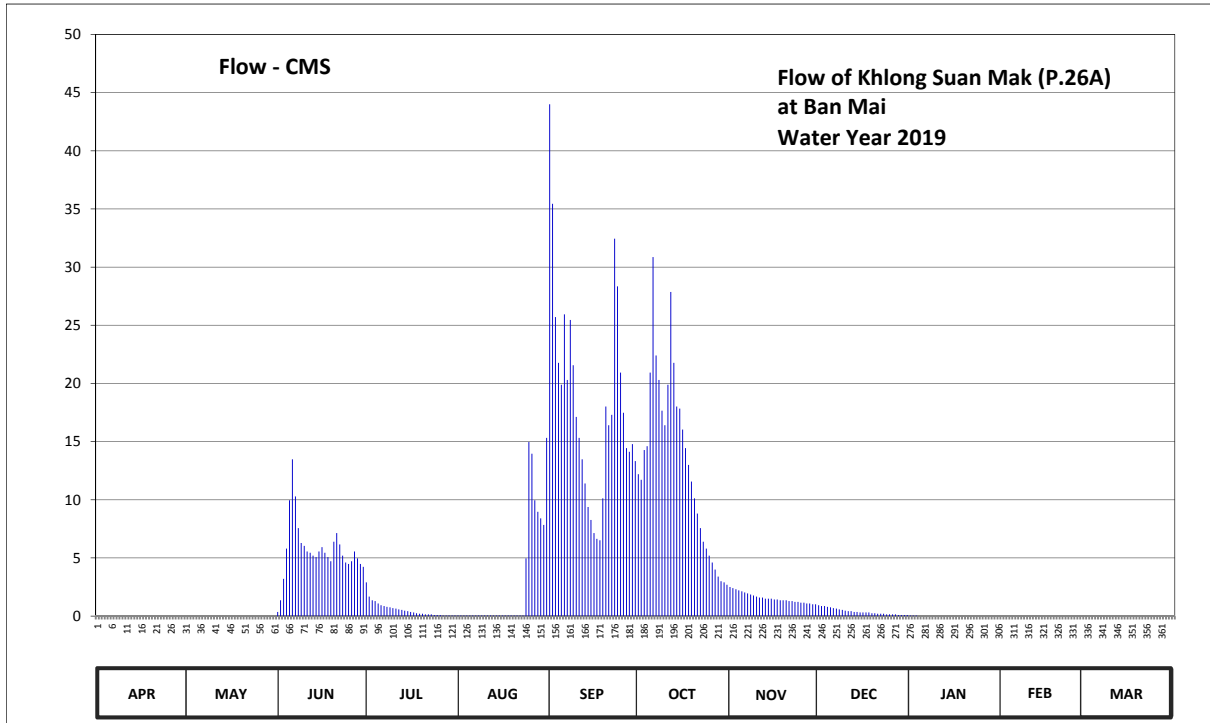
Lat 16 - 26 - 55 N Long 99 - 26 - 28 E

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

	<b>Ban Mai</b>	<b>Amphoe Mueang</b>	<b>Changwat</b>	<b>Kamphaeng Phet</b>
<b>Drainage Area</b>	974 sq.km.			
<b>Type of Gage</b>	Staff gage.			
<b>Zero Gage at Bottom</b>	+84.110 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank about 30 meters from the south of Wat Sri Phirom.	<b>Elevation</b>	+90.956 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings			
<b>Period of Available Gage Records</b>	1971 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1972 - 1974 , 1980 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	1972 - 1974 , 1980 to date			
<b>Stability of Channel Regimes</b>	Rather unstable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records very good. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 8 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.35	84.35	84.42	84.75	84.36	86.83	85.45	84.71	84.52	84.36	84.27	84.15	
2	84.35	84.35	84.58	84.62	84.36	86.53	85.42	84.70	84.51	84.36	84.27	84.15	
3	84.35	84.35	84.78	84.58	84.36	86.15	85.58	84.69	84.51	84.36	84.27	84.15	
4	84.35	84.35	85.00	84.57	84.36	85.97	85.60	84.68	84.50	84.35	84.26	84.15	
5	84.35	84.35	85.31	84.54	84.36	85.88	85.93	84.67	84.49	84.35	84.26	84.15	
6	84.35	84.35	85.53	84.52	84.36	86.16	86.36	84.66	84.48	84.35	84.26	84.15	
7	84.35	84.35	85.33	84.51	84.36	85.90	86.00	84.65	84.47	84.34	84.25	84.15	
8	84.35	84.35	85.14	84.50	84.36	86.14	85.90	84.64	84.46	84.34	84.25	84.15	
9	84.35	84.35	85.04	84.49	84.36	85.96	85.77	84.63	84.45	84.34	84.24	84.15	
10	84.35	84.35	85.02	84.48	84.36	85.74	85.70	84.62	84.44	84.34	84.24	84.15	
11	84.35	84.35	84.98	84.47	84.36	85.64	85.88	84.61	84.43	84.33	84.23	84.15	
12	84.35	84.35	84.97	84.46	84.36	85.53	86.24	84.61	84.43	84.33	84.23	84.15	
13	84.35	84.35	84.95	84.45	84.36	85.40	85.97	84.60	84.42	84.33	84.22	84.15	
14	84.35	84.35	84.94	84.44	84.36	85.27	85.79	84.60	84.42	84.32	84.22	84.15	
15	84.35	84.35	84.98	84.43	84.36	85.19	85.78	84.60	84.41	84.32	84.21	84.15	
16	84.35	84.35	85.01	84.42	84.36	85.11	85.68	84.59	84.41	84.32	84.21	84.15	
17	84.35	84.35	84.97	84.41	84.36	85.07	85.59	84.59	84.41	84.31	84.20	84.15	
18	84.35	84.35	84.94	84.40	84.36	85.06	85.50	84.58	84.41	84.31	84.20	84.15	
19	84.35	84.35	84.91	84.39	84.36	85.32	85.41	84.58	84.40	84.31	84.19	84.15	
20	84.35	84.35	85.05	84.39	84.36	85.79	85.32	84.58	84.40	84.31	84.19	84.15	
21	84.35	84.35	85.11	84.38	84.36	85.70	85.23	84.57	84.39	84.30	84.18	84.15	
22	84.35	84.35	85.03	84.38	84.36	85.75	85.14	84.57	84.39	84.30	84.18	84.15	
23	84.35	84.35	84.95	84.38	84.36	86.42	85.05	84.56	84.39	84.30	84.17	84.15	
24	84.35	84.35	84.90	84.37	84.93	86.26	85.00	84.56	84.38	84.30	84.17	84.15	
25	84.35	84.35	84.89	84.37	85.62	85.93	84.95	84.55	84.38	84.29	84.17	84.15	
26	84.35	84.35	84.91	84.37	85.56	85.76	84.90	84.55	84.38	84.29	84.16	84.15	
27	84.35	84.35	84.98	84.36	85.31	85.59	84.85	84.54	84.38	84.29	84.16	84.15	
28	84.35	84.35	84.93	84.36	85.24	85.57	84.80	84.54	84.37	84.28	84.16	84.15	
29	84.35	84.35	84.89	84.36	85.20	85.61	84.76	84.53	84.37	84.28	84.16	84.15	
30	84.35	84.35	84.87	84.36	85.16	85.52	84.75	84.53	84.37	84.28	84.15	84.15	
31		84.35		84.36	85.64		84.73		84.37	84.28		84.15	
Mean	84.35	84.35	84.98	84.45	84.61	85.76	85.45	84.60	84.42	84.32	84.21	84.15	
Max	84.35	84.35	85.53	84.75	85.64	86.83	86.36	84.71	84.52	84.36	84.27	84.15	86.83
Min	84.35	84.35	84.42	84.36	84.36	85.06	84.73	84.53	84.37	84.28	84.16	84.15	84.15
Annual Max Momentary Gage Height	86.85		m. (MSL.) ,				at 12.00 Hours ,	on Sep 1 , 2019					
Zero Gage at Bottom Elevation	84.11		m. (MSL.) ,			River Bed	82.45	m. (MSL.)					
Left Bank Elevation		87.48	m. (MSL.) ,										
Right Bank Elevation		89.53	m. (MSL.) ,			Drainage Are	974	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.36	2.90	0.05	43.99	12.20	2.50	0.94	0.05	0.00	0.00	
2	0.00	0.00	1.36	1.68	0.05	35.44	11.72	2.40	0.87	0.05	0.00	0.00	
3	0.00	0.00	3.20	1.36	0.05	25.70	14.28	2.31	0.87	0.05	0.00	0.00	
4	0.00	0.00	5.80	1.29	0.05	21.77	14.60	2.22	0.80	0.00	0.00	0.00	
5	0.00	0.00	9.96	1.08	0.05	19.88	20.93	2.13	0.75	0.00	0.00	0.00	
6	0.00	0.00	13.48	0.94	0.05	25.94	30.86	2.04	0.69	0.00	0.00	0.00	
7	0.00	0.00	10.28	0.87	0.05	20.30	22.40	1.95	0.64	0.00	0.00	0.00	
8	0.00	0.00	7.56	0.80	0.05	25.46	20.30	1.86	0.58	0.00	0.00	0.00	
9	0.00	0.00	6.28	0.75	0.05	21.56	17.66	1.77	0.53	0.00	0.00	0.00	
10	0.00	0.00	6.04	0.69	0.05	17.12	16.40	1.68	0.47	0.00	0.00	0.00	
11	0.00	0.00	5.56	0.64	0.05	15.32	19.88	1.59	0.42	0.00	0.00	0.00	
12	0.00	0.00	5.44	0.58	0.05	13.48	27.86	1.59	0.42	0.00	0.00	0.00	
13	0.00	0.00	5.20	0.53	0.05	11.40	21.77	1.50	0.36	0.00	0.00	0.00	
14	0.00	0.00	5.08	0.47	0.05	9.38	18.02	1.50	0.36	0.00	0.00	0.00	
15	0.00	0.00	5.56	0.42	0.05	8.26	17.84	1.50	0.31	0.00	0.00	0.00	
16	0.00	0.00	5.92	0.36	0.05	7.14	16.04	1.43	0.31	0.00	0.00	0.00	
17	0.00	0.00	5.44	0.31	0.05	6.64	14.44	1.43	0.31	0.00	0.00	0.00	
18	0.00	0.00	5.08	0.25	0.05	6.52	13.00	1.36	0.31	0.00	0.00	0.00	
19	0.00	0.00	4.72	0.20	0.05	10.12	11.56	1.36	0.25	0.00	0.00	0.00	
20	0.00	0.00	6.40	0.20	0.05	18.02	10.12	1.36	0.25	0.00	0.00	0.00	
21	0.00	0.00	7.14	0.15	0.05	16.40	8.82	1.29	0.20	0.00	0.00	0.00	
22	0.00	0.00	6.16	0.15	0.05	17.30	7.56	1.29	0.20	0.00	0.00	0.00	
23	0.00	0.00	5.20	0.15	0.05	32.44	6.40	1.22	0.20	0.00	0.00	0.00	
24	0.00	0.00	4.60	0.10	4.96	28.34	5.80	1.22	0.15	0.00	0.00	0.00	
25	0.00	0.00	4.48	0.10	14.96	20.93	5.20	1.15	0.15	0.00	0.00	0.00	
26	0.00	0.00	4.72	0.10	13.96	17.48	4.60	1.15	0.15	0.00	0.00	0.00	
27	0.00	0.00	5.56	0.05	9.96	14.44	4.00	1.08	0.15	0.00	0.00	0.00	
28	0.00	0.00	4.96	0.05	8.96	14.12	3.40	1.08	0.10	0.00	0.00	0.00	
29	0.00	0.00	4.48	0.05	8.40	14.78	3.00	1.01	0.10	0.00	0.00	0.00	
30	0.00	0.00	4.24	0.05	7.84	13.32	2.90	1.01	0.10	0.00	0.00	0.00	
31	0.00	0.00		0.05	15.32		2.70		0.10	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	170.26	17.32	85.51	552.99	406.26	46.98	12.04	0.15	0.00	0.00	1291.51 CMSDAY
<b>Mean</b>	0.00	0.00	5.68	0.56	2.76	18.43	13.11	1.57	0.39	0.00	0.00	0.00	3.53 CMS
<b>Max</b>	0.00	0.00	13.48	2.90	15.32	43.99	30.86	2.50	0.94	0.05	0.00	0.00	43.99 CMS
<b>Min</b>	0.00	0.00	0.36	0.05	0.05	6.52	2.70	1.01	0.10	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	14.71	1.50	7.39	47.78	35.10	4.06	1.04	0.01	0.00	0.00	111.59 MCM
<b>Momentary Peak</b>	44.65	CMS. at 86.85 m. (MSL.) at 12.00 Hours , on Sep 1 , 2019											
<b>Runoff Yield</b>	3.63	Liters/Second/Square KM. Momentary Peak Yield 45.84 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PING RIVER BASIN

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

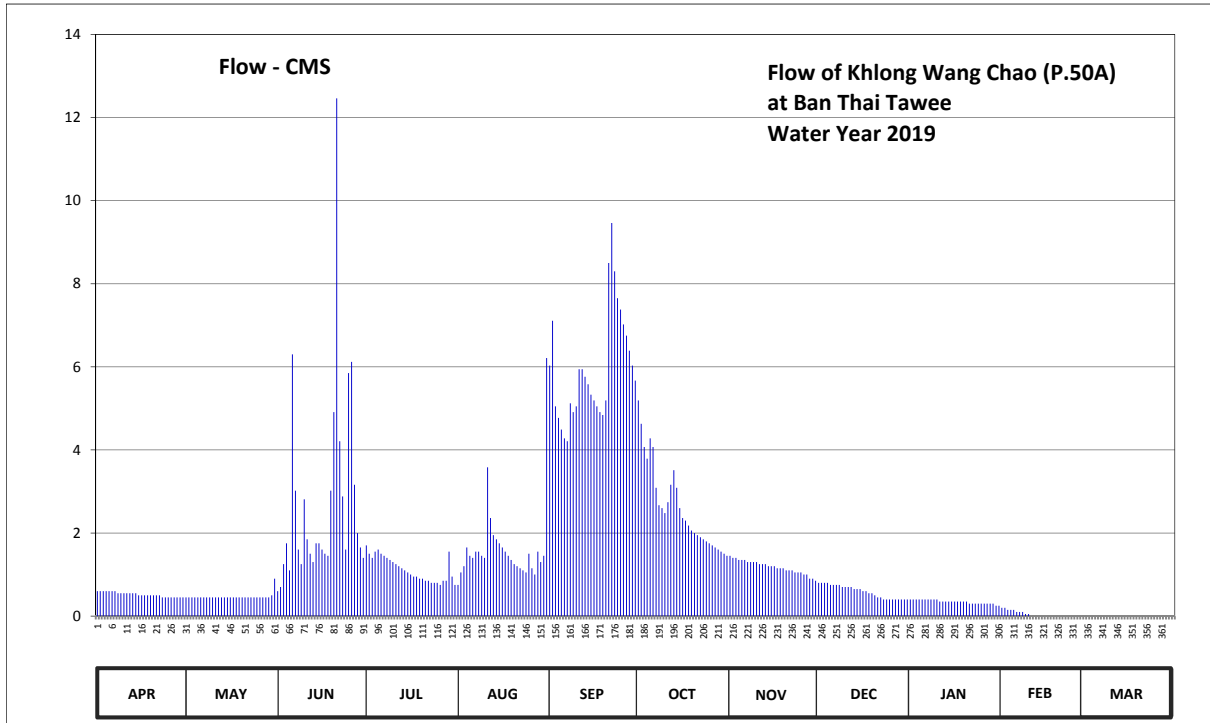
Lat 16 - 32 - 45 N Long 99 - 14 - 57 E

Location : on left bank at Ban Thai Tawee.

	<b>Ban Thai Tawee</b>	<b>Amphoe Kosumpee Nakhon</b>	<b>Changwat Kamphaeng Phet</b>
<b>Drainage Area</b>	480 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+104.360 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.	<b>Elevation</b>	+109.825 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.62	104.59	104.62	104.84	104.65	105.47	105.37	104.79	104.66	104.58	104.54	104.47	
2	104.62	104.59	104.64	104.80	104.71	105.59	105.29	104.78	104.66	104.58	104.54	104.47	
3	104.62	104.59	104.75	104.78	104.74	105.35	105.21	104.78	104.66	104.58	104.53	104.46	
4	104.62	104.59	104.85	104.81	104.83	105.31	105.17	104.77	104.66	104.58	104.53	104.46	
5	104.62	104.59	104.72	104.82	104.79	105.27	105.24	104.77	104.65	104.58	104.53	104.45	
6	104.62	104.59	105.50	104.80	104.78	105.24	105.21	104.77	104.65	104.58	104.52	104.44	
7	104.62	104.59	105.06	104.79	104.81	105.23	105.07	104.76	104.65	104.58	104.52	104.44	
8	104.61	104.59	104.82	104.78	104.81	105.36	105.01	104.76	104.65	104.58	104.52	104.43	
9	104.61	104.59	104.75	104.77	104.79	105.33	105.00	104.76	104.64	104.58	104.51	104.42	
10	104.61	104.59	105.03	104.76	104.78	105.35	104.98	104.76	104.64	104.58	104.51	104.41	
11	104.61	104.59	104.87	104.75	105.14	105.46	105.02	104.75	104.64	104.57	104.50	104.40	
12	104.61	104.59	104.80	104.74	104.96	105.46	105.08	104.75	104.64	104.57	104.50	104.40	
13	104.61	104.59	104.76	104.73	104.89	105.44	105.13	104.75	104.63	104.57	104.50	104.39	
14	104.61	104.59	104.85	104.72	104.87	105.42	105.07	104.74	104.63	104.57	104.49	104.38	
15	104.60	104.59	104.85	104.71	104.85	105.39	105.00	104.74	104.63	104.57	104.49	104.37	
16	104.60	104.59	104.82	104.70	104.83	105.37	104.96	104.74	104.62	104.57	104.49	104.36	
17	104.60	104.59	104.80	104.69	104.81	105.35	104.95	104.73	104.62	104.57	104.49	104.35	
18	104.60	104.59	104.79	104.69	104.79	105.33	104.93	104.73	104.61	104.57	104.49	104.33	
19	104.60	104.59	105.06	104.68	104.77	105.32	104.91	104.73	104.61	104.57	104.49	104.33	
20	104.60	104.59	105.33	104.68	104.75	105.37	104.90	104.72	104.60	104.57	104.48	104.33	
21	104.60	104.59	106.04	104.67	104.74	105.74	104.89	104.72	104.59	104.56	104.48	104.32	
22	104.60	104.59	105.23	104.67	104.73	105.83	104.88	104.72	104.59	104.56	104.48	104.32	
23	104.59	104.59	105.04	104.66	104.72	105.72	104.87	104.71	104.58	104.56	104.48	104.31	
24	104.59	104.59	104.82	104.66	104.71	105.65	104.86	104.71	104.58	104.56	104.48	104.31	
25	104.59	104.59	105.45	104.66	104.80	105.62	104.85	104.71	104.58	104.56	104.48	104.31	
26	104.59	104.59	105.48	104.65	104.73	105.58	104.84	104.70	104.58	104.56	104.48	104.30	
27	104.59	104.59	105.08	104.67	104.70	105.55	104.83	104.70	104.58	104.56	104.48	104.30	
28	104.59	104.59	104.90	104.67	104.81	105.51	104.82	104.68	104.58	104.56	104.47	104.29	
29	104.59	104.59	104.83	104.81	104.76	105.47	104.81	104.68	104.58	104.56	104.47	104.28	
30	104.59	104.60	104.78	104.69	104.79	105.43	104.80	104.67	104.58	104.55	104.47	104.28	
31		104.68		104.65	105.49		104.79		104.58	104.55		104.28	
Mean	104.60	104.59	104.98	104.73	104.82	105.45	104.99	104.74	104.62	104.57	104.50	104.37	
Max	104.62	104.68	106.04	104.84	105.49	105.83	105.37	104.79	104.66	104.58	104.54	104.47	106.04
Min	104.59	104.59	104.62	104.65	104.65	105.23	104.79	104.67	104.58	104.55	104.47	104.28	104.28
Annual Max Momentary Gage Height	106.52		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	104.36		m. (MSL.) ,			River Bed	104.42		m. (MSL.)				
Left Bank Elevation		109.85		m. (MSL.) ,									
Right Bank Elevation		108.08		m. (MSL.) ,		Drainage Are	480		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.45	0.60	1.70	0.75	6.03	5.19	1.45	0.80	0.40	0.20	0.00	
2	0.60	0.45	0.70	1.50	1.05	7.11	4.63	1.40	0.80	0.40	0.20	0.00	
3	0.60	0.45	1.25	1.40	1.20	5.05	4.07	1.40	0.80	0.40	0.15	0.00	
4	0.60	0.45	1.75	1.55	1.65	4.77	3.79	1.35	0.80	0.40	0.15	0.00	
5	0.60	0.45	1.10	1.60	1.45	4.49	4.28	1.35	0.75	0.40	0.15	0.00	
6	0.60	0.45	6.30	1.50	1.40	4.28	4.07	1.35	0.75	0.40	0.10	0.00	
7	0.60	0.45	3.02	1.45	1.55	4.21	3.09	1.30	0.75	0.40	0.10	0.00	
8	0.55	0.45	1.60	1.40	1.55	5.12	2.67	1.30	0.75	0.40	0.10	0.00	
9	0.55	0.45	1.25	1.35	1.45	4.91	2.60	1.30	0.70	0.40	0.05	0.00	
10	0.55	0.45	2.81	1.30	1.40	5.05	2.48	1.30	0.70	0.40	0.05	0.00	
11	0.55	0.45	1.85	1.25	3.58	5.94	2.74	1.25	0.70	0.35	0.00	0.00	
12	0.55	0.45	1.50	1.20	2.36	5.94	3.16	1.25	0.70	0.35	0.00	0.00	
13	0.55	0.45	1.30	1.15	1.95	5.76	3.51	1.25	0.65	0.35	0.00	0.00	
14	0.55	0.45	1.75	1.10	1.85	5.58	3.09	1.20	0.65	0.35	0.00	0.00	
15	0.50	0.45	1.75	1.05	1.75	5.33	2.60	1.20	0.65	0.35	0.00	0.00	
16	0.50	0.45	1.60	1.00	1.65	5.19	2.36	1.20	0.60	0.35	0.00	0.00	
17	0.50	0.45	1.50	0.95	1.55	5.05	2.30	1.15	0.60	0.35	0.00	0.00	
18	0.50	0.45	1.45	0.95	1.45	4.91	2.18	1.15	0.55	0.35	0.00	0.00	
19	0.50	0.45	3.02	0.90	1.35	4.84	2.06	1.15	0.55	0.35	0.00	0.00	
20	0.50	0.45	4.91	0.90	1.25	5.19	2.00	1.10	0.50	0.35	0.00	0.00	
21	0.50	0.45	12.46	0.85	1.20	8.50	1.95	1.10	0.45	0.30	0.00	0.00	
22	0.50	0.45	4.21	0.85	1.15	9.46	1.90	1.10	0.45	0.30	0.00	0.00	
23	0.45	0.45	2.88	0.80	1.10	8.30	1.85	1.05	0.40	0.30	0.00	0.00	
24	0.45	0.45	1.60	0.80	1.05	7.65	1.80	1.05	0.40	0.30	0.00	0.00	
25	0.45	0.45	5.85	0.80	1.50	7.38	1.75	1.05	0.40	0.30	0.00	0.00	
26	0.45	0.45	6.12	0.75	1.15	7.02	1.70	1.00	0.40	0.30	0.00	0.00	
27	0.45	0.45	3.16	0.85	1.00	6.75	1.65	1.00	0.40	0.30	0.00	0.00	
28	0.45	0.45	2.00	0.85	1.55	6.39	1.60	0.90	0.40	0.30	0.00	0.00	
29	0.45	0.45	1.65	1.55	1.30	6.03	1.55	0.90	0.40	0.30	0.00	0.00	
30	0.45	0.50	1.40	0.95	1.45	5.67	1.50	0.85	0.40	0.25	0.00	0.00	
31		0.90		0.75	6.21		1.45		0.40	0.25		0.00	
<b>Total</b>	15.65	14.45	82.34	35.00	50.85	177.90	81.57	35.40	18.25	10.70	1.25	0.00	523.36 CMSDAY
<b>Mean</b>	0.52	0.47	2.74	1.13	1.64	5.93	2.63	1.18	0.59	0.35	0.04	0.00	1.43 CMS
<b>Max</b>	0.60	0.90	12.46	1.70	6.21	9.46	5.19	1.45	0.80	0.40	0.20	0.00	12.46 CMS
<b>Min</b>	0.45	0.45	0.60	0.75	0.75	4.21	1.45	0.85	0.40	0.25	0.00	0.00	0.00 CMS
<b>Runoff</b>	1.35	1.25	7.11	3.02	4.39	15.37	7.05	3.06	1.58	0.92	0.11	0.00	45.22 MCM
<b>Momentary Peak</b>	24.76	CMS.	at 106.52 m. (MSL.)	at 06.00 Hours	on Jun 21, 2019								
<b>Runoff Yield</b>	3.01	Liters/Second/Square KM.			Momentary Peak Yield	51.91	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

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

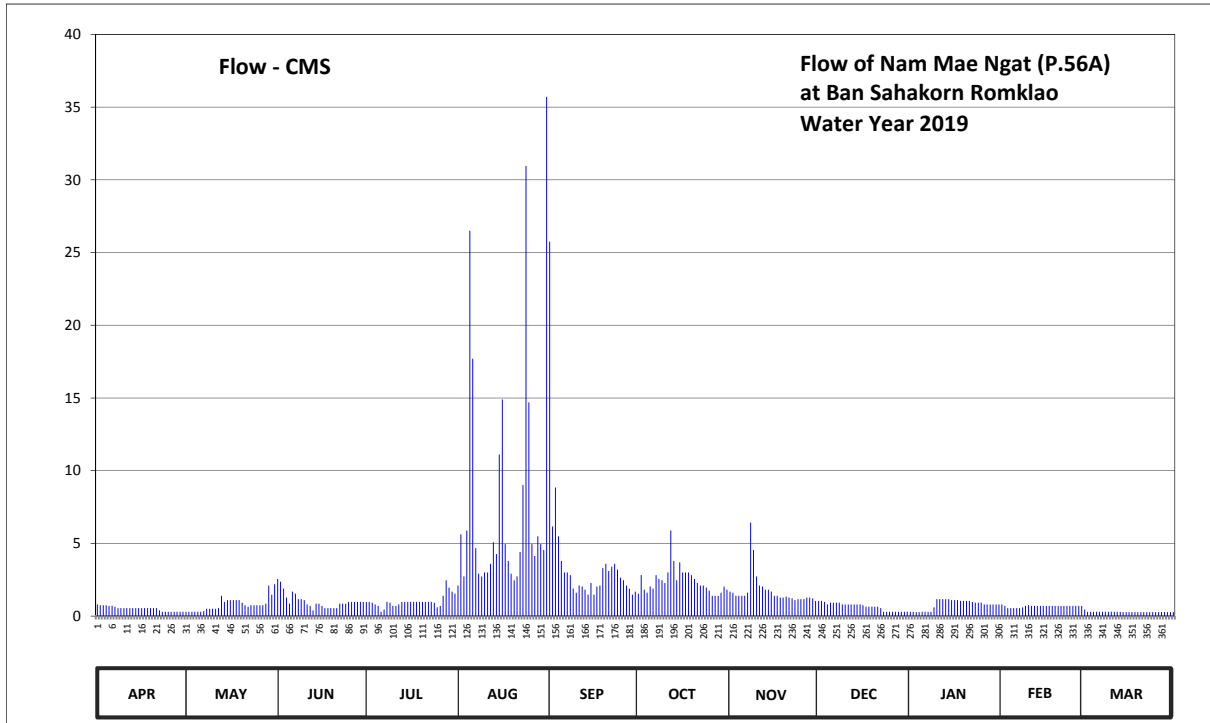
Lat 19 - 17 - 04 N Long 99 - 11 - 23 E

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

	<b>Ban</b>	Sahakorn Romklao	<b>Amphoe</b>	Phrao	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	546	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+408.300 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.				<b>Elevation</b>	+416.250 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1998 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1998 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	408.80	408.70	409.05	408.83	409.00	410.33	408.92	408.94	408.84	408.70	408.80	408.73	
2	408.79	408.70	409.03	408.83	409.32	409.36	409.08	408.93	408.84	408.70	408.78	408.70	
3	408.79	408.70	408.97	408.82	409.07	409.53	408.96	408.90	408.83	408.69	408.75	408.70	
4	408.79	408.70	408.88	408.80	409.34	409.31	408.93	408.90	408.80	408.69	408.75	408.70	
5	408.78	408.70	408.81	408.78	410.36	409.18	408.99	408.90	408.82	408.70	408.75	408.70	
6	408.78	408.70	408.94	408.70	410.00	409.10	408.97	408.90	408.82	408.70	408.75	408.70	
7	408.77	408.71	408.92	408.73	409.25	409.10	409.08	408.93	408.82	408.70	408.75	408.70	
8	408.75	408.74	408.86	408.83	409.09	409.08	409.05	409.38	408.82	408.70	408.76	408.70	
9	408.75	408.74	408.86	408.82	409.07	408.97	409.04	409.24	408.80	408.76	408.78	408.70	
10	408.75	408.74	408.85	408.78	409.10	408.93	409.02	409.07	408.80	408.86	408.79	408.70	
11	408.75	408.74	408.80	408.78	409.10	409.00	409.10	409.00	408.80	408.86	408.78	408.70	
12	408.75	408.75	408.78	408.80	409.16	408.99	409.34	408.99	408.80	408.86	408.78	408.70	
13	408.75	408.90	408.72	408.83	409.28	408.96	409.18	408.96	408.80	408.86	408.78	408.70	
14	408.75	408.83	408.81	408.83	409.22	408.91	409.04	408.96	408.80	408.86	408.78	408.69	
15	408.75	408.85	408.81	408.83	409.66	409.02	409.17	408.94	408.80	408.85	408.78	408.69	
16	408.75	408.85	408.78	408.83	409.86	408.91	409.10	408.90	408.79	408.85	408.78	408.69	
17	408.75	408.85	408.75	408.83	409.27	408.99	409.10	408.90	408.77	408.85	408.78	408.69	
18	408.75	408.85	408.75	408.83	409.18	409.00	409.10	408.88	408.77	408.84	408.78	408.69	
19	408.75	408.85	408.75	408.83	409.09	409.13	409.08	408.88	408.77	408.84	408.78	408.69	
20	408.75	408.82	408.75	408.83	409.04	409.16	409.05	408.89	408.77	408.84	408.78	408.69	
21	408.75	408.79	408.75	408.83	409.07	409.11	409.02	408.88	408.77	408.84	408.78	408.69	
22	408.72	408.77	408.81	408.83	409.23	409.14	409.00	408.87	408.75	408.83	408.78	408.69	
23	408.70	408.79	408.81	408.83	409.54	409.16	409.00	408.85	408.70	408.82	408.78	408.69	
24	408.70	408.79	408.81	408.82	410.53	409.12	408.98	408.86	408.70	408.82	408.78	408.69	
25	408.70	408.79	408.83	408.76	409.85	409.06	408.95	408.86	408.70	408.82	408.78	408.69	
26	408.70	408.79	408.83	408.78	409.27	409.04	408.90	408.86	408.70	408.80	408.78	408.69	
27	408.70	408.79	408.83	408.90	409.21	409.00	408.90	408.88	408.70	408.80	408.78	408.69	
28	408.70	408.81	408.83	409.04	409.31	408.97	408.90	408.88	408.70	408.80	408.78	408.69	
29	408.70	409.00	408.83	408.98	409.27	408.91	408.93	408.87	408.70	408.80	408.78	408.69	
30	408.70	408.91	408.83	408.94	409.24	408.94	408.99	408.84	408.70	408.80	408.78	408.69	
31		409.01		408.92	410.70		408.96		408.70	408.80		408.69	
Mean	408.74	408.80	408.83	408.83	409.41	409.11	409.03	408.93	408.77	408.79	408.78	408.70	
Max	408.80	409.01	409.05	409.04	410.70	410.33	409.34	409.38	408.84	408.86	408.80	408.73	410.70
Min	408.70	408.70	408.72	408.70	409.00	408.91	408.90	408.84	408.70	408.69	408.75	408.69	408.69
Annual Max Momentary Gage Height	411.13		m. (MSL.) ,				at 20.00 Hours ,						
Zero Gage at Bottom Elevation	408.30		m. (MSL.) ,				River Bed	408.57		m. (MSL.)			
Left Bank Elevation		415.80		m. (MSL.) ,									
Right Bank Elevation		415.86		m. (MSL.) ,			Drainage Are	546		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.80	0.30	2.55	0.98	2.10	25.75	1.54	1.68	1.04	0.30	0.80	0.45	
2	0.75	0.30	2.37	0.98	5.62	6.16	2.82	1.61	1.04	0.30	0.70	0.30	
3	0.75	0.30	1.89	0.92	2.73	8.85	1.82	1.40	0.98	0.27	0.55	0.30	
4	0.75	0.30	1.28	0.80	5.89	5.49	1.61	1.40	0.80	0.27	0.55	0.30	
5	0.70	0.30	0.86	0.70	26.50	3.80	2.03	1.40	0.92	0.30	0.55	0.30	
6	0.70	0.30	1.68	0.30	17.70	3.00	1.89	1.40	0.92	0.30	0.55	0.30	
7	0.65	0.35	1.54	0.45	4.68	3.00	2.82	1.61	0.92	0.30	0.55	0.30	
8	0.55	0.50	1.16	0.98	2.91	2.82	2.55	6.43	0.92	0.30	0.60	0.30	
9	0.55	0.50	1.16	0.92	2.73	1.89	2.46	4.54	0.80	0.60	0.70	0.30	
10	0.55	0.50	1.10	0.70	3.00	1.61	2.28	2.73	0.80	1.16	0.75	0.30	
11	0.55	0.50	0.80	0.70	3.00	2.10	3.00	2.10	0.80	1.16	0.70	0.30	
12	0.55	0.55	0.70	0.80	3.60	2.03	5.89	2.03	0.80	1.16	0.70	0.30	
13	0.55	1.40	0.40	0.98	5.08	1.82	3.80	1.82	0.80	1.16	0.70	0.30	
14	0.55	0.98	0.86	0.98	4.27	1.47	2.46	1.82	0.80	1.16	0.70	0.27	
15	0.55	1.10	0.86	0.98	11.11	2.28	3.70	1.68	0.80	1.10	0.70	0.27	
16	0.55	1.10	0.70	0.98	14.90	1.47	3.00	1.40	0.75	1.10	0.70	0.27	
17	0.55	1.10	0.55	0.98	4.95	2.03	3.00	1.40	0.65	1.10	0.70	0.27	
18	0.55	1.10	0.55	0.98	3.80	2.10	3.00	1.28	0.65	1.04	0.70	0.27	
19	0.55	1.10	0.55	0.98	2.91	3.30	2.82	1.28	0.65	1.04	0.70	0.27	
20	0.55	0.92	0.55	0.98	2.46	3.60	2.55	1.34	0.65	1.04	0.70	0.27	
21	0.55	0.75	0.55	0.98	2.73	3.10	2.28	1.28	0.65	1.04	0.70	0.27	
22	0.40	0.65	0.86	0.98	4.41	3.40	2.10	1.22	0.55	0.98	0.70	0.27	
23	0.30	0.75	0.86	0.98	9.01	3.60	2.10	1.10	0.30	0.92	0.70	0.27	
24	0.30	0.75	0.86	0.92	30.95	3.20	1.96	1.16	0.30	0.92	0.70	0.27	
25	0.30	0.75	0.98	0.60	14.70	2.64	1.75	1.16	0.30	0.92	0.70	0.27	
26	0.30	0.75	0.98	0.70	4.95	2.46	1.40	1.16	0.30	0.80	0.70	0.27	
27	0.30	0.75	0.98	1.40	4.14	2.10	1.40	1.28	0.30	0.80	0.70	0.27	
28	0.30	0.86	0.98	2.46	5.49	1.89	1.40	1.28	0.30	0.80	0.70	0.27	
29	0.30	2.10	0.98	1.96	4.95	1.47	1.61	1.22	0.30	0.80	0.70	0.27	
30	0.30	1.47	0.98	1.68	4.54	1.68	2.03	1.04	0.30	0.80		0.27	
31		2.19		1.54	35.70		1.82		0.30	0.80		0.27	
<b>Total</b>	15.60	25.27	31.12	31.27	251.51	110.11	74.89	52.25	20.39	24.74	19.60	8.91	665.66 CMSDAY
<b>Mean</b>	0.52	0.82	1.04	1.01	8.11	3.67	2.42	1.74	0.66	0.80	0.68	0.29	1.82 CMS
<b>Max</b>	0.80	2.19	2.55	2.46	35.70	25.75	5.89	6.43	1.04	1.16	0.80	0.45	35.70 CMS
<b>Min</b>	0.30	0.30	0.40	0.30	2.10	1.47	1.40	1.04	0.30	0.27	0.55	0.27	0.27 CMS
<b>Runoff</b>	1.35	2.18	2.69	2.70	21.73	9.51	6.47	4.51	1.76	2.14	1.69	0.77	57.51 MCM
<b>Momentary Peak</b>	49.23 CMS. at 411.13 m. (MSL.) at 20.00 Hours , on Aug 31, 2019												
<b>Runoff Yield</b>	3.38 Liters/Second/Square KM.			Momentary Peak Yield			91.34 Liters/Second/Square KM.						



## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Ban Mae Tae , Chiang Mai (P.67)

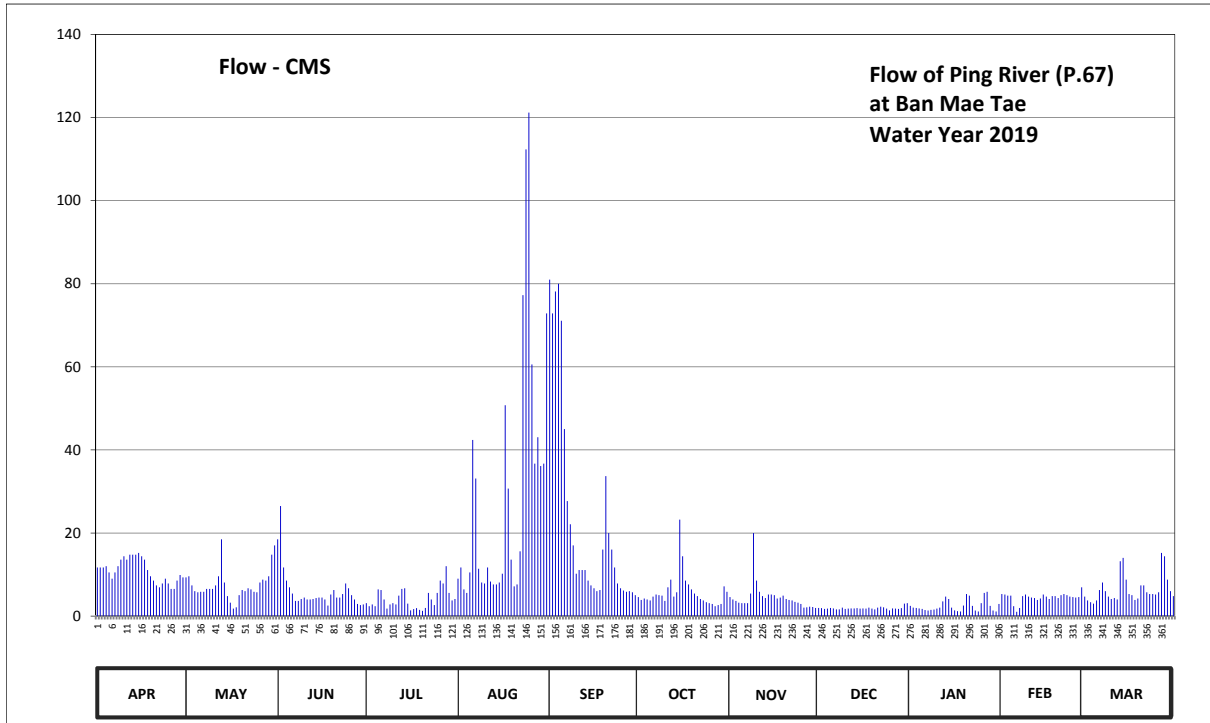
Lat 19 - 01 - 11 N Long 98 - 57 - 43 E

Location : on left bank at the bridge on highway.

	<b>Ban Mae Tae</b>	<b>Amphoe San Sai</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	5,323 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+315.926 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+323.690 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1995 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1995 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	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 29 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	315.39	315.31	315.55	314.91	315.30	316.42	315.04	315.04	314.78	314.84	315.10	315.05	
2	315.39	315.32	315.70	314.83	315.39	316.33	314.98	314.99	314.77	314.79	315.09	314.97	
3	315.39	315.23	315.39	314.88	315.18	316.39	315.01	314.96	314.74	314.78	315.07	314.93	
4	315.40	315.15	315.28	314.83	315.12	316.41	314.99	314.92	314.75	314.76	315.07	314.90	
5	315.35	315.13	315.21	315.18	315.35	316.31	314.97	314.91	314.78	314.74	314.83	314.97	
6	315.30	315.14	315.11	315.17	315.96	316.00	315.05	314.91	314.76	314.69	314.61	315.17	
7	315.35	315.14	314.96	314.99	315.81	315.72	315.09	314.91	314.72	314.67	314.78	315.26	
8	315.40	315.19	314.96	314.75	315.38	315.62	315.08	315.11	314.72	314.70	315.06	315.15	
9	315.44	315.19	315.00	314.88	315.26	315.52	315.07	315.58	314.79	314.71	315.09	315.05	
10	315.46	315.19	315.03	314.91	315.25	315.34	314.96	315.28	314.74	314.75	315.05	315.00	
11	315.44	315.23	314.99	314.88	315.39	315.37	315.21	315.14	314.75	314.79	315.03	315.02	
12	315.47	315.32	314.99	315.07	315.27	315.37	315.29	315.06	314.76	314.95	315.02	314.99	
13	315.47	315.55	315.00	315.19	315.24	315.37	315.05	315.02	314.76	315.05	314.98	315.43	
14	315.47	315.26	315.02	315.20	315.24	315.28	315.13	315.09	314.77	315.00	315.01	315.45	
15	315.48	315.06	315.03	314.90	315.26	315.23	315.64	315.09	314.75	314.79	315.09	315.29	
16	315.46	314.92	315.03	314.68	315.34	315.20	315.46	315.08	314.76	314.68	315.05	315.10	
17	315.44	314.75	314.99	314.73	316.07	315.15	315.28	315.01	314.75	314.64	315.00	315.08	
18	315.37	314.80	314.85	314.77	315.77	315.17	315.24	315.03	314.79	314.62	315.06	314.98	
19	315.32	315.08	315.09	314.70	315.44	315.50	315.18	315.07	314.76	314.85	315.06	315.01	
20	315.28	315.17	315.17	314.65	315.22	315.82	315.11	315.00	314.72	315.10	315.02	315.23	
21	315.23	315.15	315.03	314.78	315.24	315.58	315.06	314.98	314.79	315.07	315.08	315.23	
22	315.21	315.20	315.03	315.12	315.49	315.50	315.00	314.97	314.82	314.84	315.10	315.13	
23	315.25	315.18	315.10	314.99	316.38	315.39	314.97	314.94	314.80	314.67	315.08	315.10	
24	315.30	315.14	315.25	314.86	316.72	315.25	314.93	314.92	314.75	314.62	315.05	315.10	
25	315.25	315.13	315.20	315.12	316.80	315.20	314.91	314.89	314.68	314.91	315.04	315.09	
26	315.19	315.26	315.08	315.28	316.19	315.16	314.89	314.79	314.76	315.12	315.03	315.13	
27	315.19	315.29	314.99	315.25	315.87	315.14	314.83	314.80	314.75	315.14	315.04	315.48	
28	315.28	315.28	314.89	315.40	315.97	315.15	314.86	314.82	314.74	314.84	315.21	315.46	
29	315.33	315.32	314.86	315.12	315.86	315.13	314.89	314.81	314.77	314.67	315.26	315.29	
30	315.31	315.47	314.88	314.97	315.87	315.08	315.22	314.78	314.90	314.62	315.15	315.15	
31		315.52		315.00	316.33		315.14		314.91	314.89		315.06	
Mean	315.35	315.20	315.09	314.97	315.64	315.54	315.08	315.00	314.77	314.82	315.03	315.14	
Max	315.48	315.55	315.70	315.40	316.80	316.42	315.64	315.58	314.91	315.14	315.26	315.48	316.80
Min	315.19	314.75	314.85	314.65	315.12	315.08	314.83	314.78	314.68	314.62	314.61	314.90	314.61
Annual Max Momentary Gage Height	317.04		m. (MSL.) ,			at 20.00 Hours , on Aug 24 , 2019							
Zero Gage at Bottom Elevation	315.93		m. (MSL.) ,			River Bed	312.02	m. (MSL.)					
Left Bank Elevation		326.35		m. (MSL.) ,									
Right Bank Elevation		326.25		m. (MSL.) ,		Drainage Are	5,323	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.70	9.30	18.50	3.11	9.00	81.00	4.58	4.58	1.98	2.46	5.30	4.70		
2	11.70	9.60	26.50	2.37	11.70	72.84	3.88	3.99	1.92	2.04	5.18	3.77		
3	11.70	7.39	11.70	2.82	6.42	78.12	4.22	3.66	1.74	1.98	4.94	3.33		
4	12.00	6.00	8.54	2.37	5.58	80.00	3.99	3.22	1.80	1.86	4.94	3.00		
5	10.50	5.72	6.93	6.42	10.50	71.08	3.77	3.11	1.98	1.74	2.37	3.77		
6	9.00	5.86	5.44	6.28	42.40	45.00	4.70	3.11	1.86	1.45	1.05	6.28		
7	10.50	5.86	3.66	3.99	33.10	27.70	5.18	3.11	1.62	1.35	1.98	8.08		
8	12.00	6.56	3.66	1.80	11.40	22.10	5.06	5.44	1.62	1.50	4.82	6.00		
9	13.60	6.56	4.10	2.82	8.08	17.00	4.94	20.00	2.04	1.56	5.18	4.70		
10	14.40	6.56	4.46	3.11	7.85	10.20	3.66	8.54	1.74	1.80	4.70	4.10		
11	13.60	7.39	3.99	2.82	11.70	11.10	6.93	5.86	1.80	2.04	4.46	4.34		
12	14.80	9.60	3.99	4.94	8.31	11.10	8.77	4.82	1.86	3.55	4.34	3.99		
13	14.80	18.50	4.10	6.56	7.62	11.10	4.70	4.34	1.86	4.70	3.88	13.20		
14	14.80	8.08	4.34	6.70	7.62	8.54	5.72	5.18	1.92	4.10	4.22	14.00		
15	15.20	4.82	4.46	3.00	8.08	7.39	23.20	5.18	1.80	2.04	5.18	8.77		
16	14.40	3.22	4.46	1.40	10.20	6.70	14.40	5.06	1.86	1.40	4.70	5.30		
17	13.60	1.80	3.99	1.68	50.74	6.00	8.54	4.22	1.80	1.20	4.10	5.06		
18	11.10	2.10	2.55	1.92	30.70	6.28	7.62	4.46	2.04	1.10	4.82	3.88		
19	9.60	5.06	5.18	1.50	13.60	16.00	6.42	4.94	1.80	2.55	4.82	4.22		
20	8.54	6.28	6.28	1.25	7.16	33.70	5.44	4.10	1.62	5.30	4.34	7.39		
21	7.39	6.00	4.46	1.98	7.62	20.00	4.82	3.88	2.04	4.94	5.06	7.39		
22	6.93	6.70	4.46	5.58	15.60	16.00	4.10	3.77	2.28	2.46	5.30	5.72		
23	7.85	6.42	5.30	3.99	77.24	11.70	3.77	3.44	2.10	1.35	5.06	5.30		
24	9.00	5.86	7.85	2.64	112.32	7.85	3.33	3.22	1.80	1.10	4.70	5.30		
25	7.85	5.72	6.70	5.58	121.20	6.70	3.11	2.91	1.40	3.11	4.58	5.18		
26	6.56	8.08	5.06	8.54	60.58	6.14	2.91	2.04	1.86	5.58	4.46	5.72		
27	6.56	8.77	3.99	7.85	36.70	5.86	2.37	2.10	1.80	5.86	4.58	15.20		
28	8.54	8.54	2.91	12.00	43.05	6.00	2.64	2.28	1.74	2.46	6.93	14.40		
29	9.90	9.60	2.64	5.58	36.10	5.72	2.91	2.19	1.92	1.35	8.08	8.77		
30	9.30	14.80	2.82	3.77	36.70	5.06	7.16	1.98	3.00	1.10		6.00		
31		17.00		4.10	72.84		5.86		3.11	2.91		4.82		
<b>Total</b>	<b>327.42</b>	<b>233.75</b>	<b>183.02</b>	<b>128.47</b>	<b>921.71</b>	<b>713.98</b>	<b>178.70</b>	<b>134.73</b>	<b>59.71</b>	<b>77.94</b>	<b>134.07</b>	<b>201.68</b>	<b>3295.18</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>10.91</b>	<b>7.54</b>	<b>6.10</b>	<b>4.14</b>	<b>29.73</b>	<b>23.80</b>	<b>5.76</b>	<b>4.49</b>	<b>1.93</b>	<b>2.51</b>	<b>4.62</b>	<b>6.51</b>	<b>9.00</b>	<b>CMS</b>
<b>Max</b>	<b>15.20</b>	<b>18.50</b>	<b>26.50</b>	<b>12.00</b>	<b>121.20</b>	<b>81.00</b>	<b>23.20</b>	<b>20.00</b>	<b>3.11</b>	<b>5.86</b>	<b>8.08</b>	<b>15.20</b>	<b>121.20</b>	<b>CMS</b>
<b>Min</b>	<b>6.56</b>	<b>1.80</b>	<b>2.55</b>	<b>1.25</b>	<b>5.58</b>	<b>5.06</b>	<b>2.37</b>	<b>1.98</b>	<b>1.40</b>	<b>1.10</b>	<b>1.05</b>	<b>3.00</b>	<b>1.05</b>	<b>CMS</b>
<b>Runoff</b>	<b>28.29</b>	<b>20.20</b>	<b>15.81</b>	<b>11.10</b>	<b>79.64</b>	<b>61.69</b>	<b>15.44</b>	<b>11.64</b>	<b>5.16</b>	<b>6.73</b>	<b>11.58</b>	<b>17.43</b>	<b>284.70</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>151.30 CMS. at 317.04 m. (MSL) at 20.00 Hours , on Aug 24 , 2019</b>													
<b>Runoff Yield</b>	<b>1.70</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>				<b>28.42</b>	<b>Liters/Second/Square KM.</b>					

## WATER YEAR : 2019

## PING RIVER BASIN

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

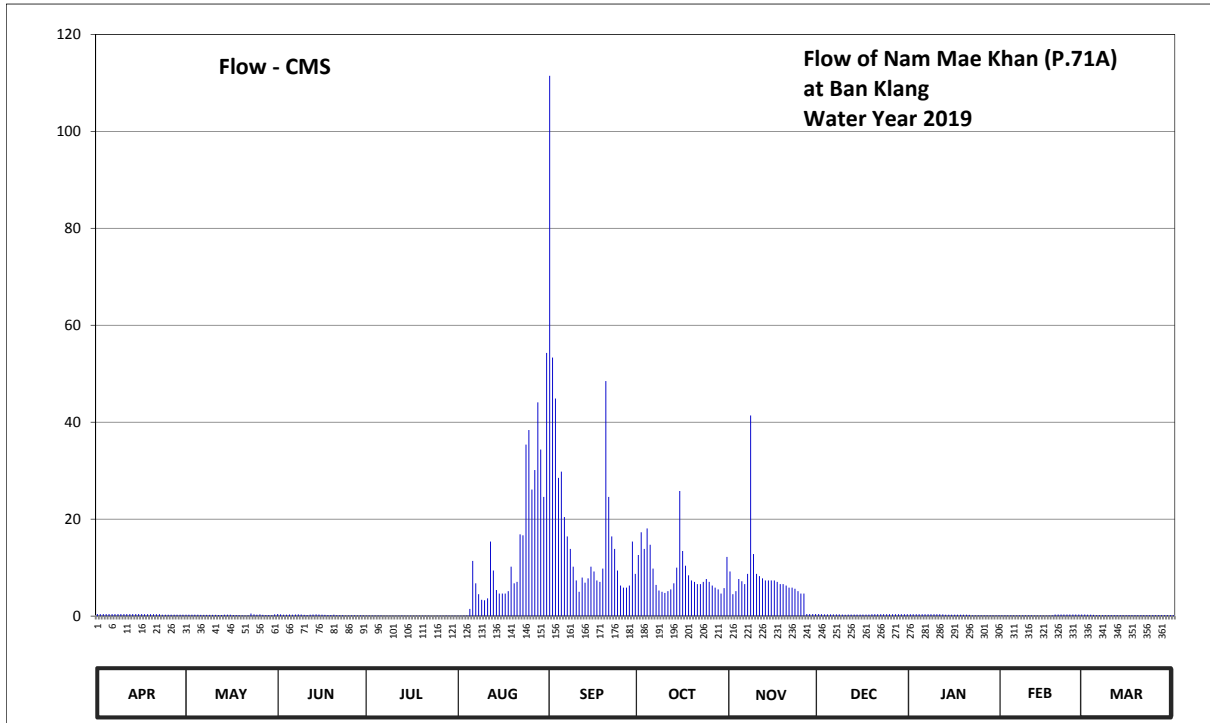
Lat 18 - 32 - 50 N Long 98 - 51 - 44 E

Location : on left bank at the bridge on highway.

	<b>Ban Klang</b>	<b>Amphoe</b> San Pa Tong	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	1,634 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+283.285 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3 meters from the top staff gage.	<b>Elevation</b>	+287.570 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	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 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.48	284.29	284.49	284.04	283.99	287.39	284.98	284.81	284.49	284.44	284.09	284.35	
2	284.48	284.29	284.40	284.05	284.00	286.26	285.20	284.48	284.46	284.44	284.09	284.29	
3	284.48	284.29	284.29	284.05	284.04	286.06	285.04	284.53	284.39	284.44	284.09	284.29	
4	284.48	284.29	284.29	284.05	284.04	285.60	285.23	284.71	284.39	284.44	284.09	284.27	
5	284.48	284.28	284.37	284.05	284.12	285.64	285.08	284.68	284.39	284.44	284.09	284.19	
6	284.48	284.27	284.30	284.03	284.92	285.32	284.84	284.64	284.39	284.44	284.09	284.19	
7	284.48	284.25	284.36	284.01	284.65	285.16	284.63	284.78	284.39	284.44	284.09	284.19	
8	284.48	284.26	284.39	283.98	284.48	285.04	284.54	285.98	284.39	284.44	284.09	284.19	
9	284.48	284.27	284.36	283.98	284.38	284.86	284.52	284.99	284.37	284.44	284.09	284.19	
10	284.48	284.26	284.26	283.98	284.37	284.69	284.50	284.78	284.33	284.44	284.09	284.19	
11	284.48	284.24	284.20	283.98	284.41	284.52	284.53	284.75	284.34	284.44	284.08	284.19	
12	284.48	284.22	284.30	283.98	285.11	284.73	284.56	284.72	284.34	284.41	284.07	284.19	
13	284.48	284.22	284.37	284.04	284.82	284.66	284.65	284.69	284.34	284.29	284.07	284.19	
14	284.48	284.28	284.38	284.00	284.55	284.72	284.85	284.69	284.34	284.29	284.06	284.19	
15	284.47	284.29	284.36	284.00	284.49	284.86	285.51	284.69	284.34	284.29	284.04	284.19	
16	284.47	284.28	284.32	283.99	284.49	284.81	285.02	284.69	284.34	284.29	284.04	284.19	
17	284.46	284.23	284.27	283.99	284.49	284.69	284.87	284.67	284.34	284.29	284.04	284.19	
18	284.46	284.20	284.20	283.99	284.53	284.67	284.76	284.64	284.36	284.29	284.08	284.19	
19	284.46	284.16	284.20	283.99	284.86	284.84	284.69	284.64	284.44	284.29	284.35	284.19	
20	284.46	284.09	284.29	283.99	284.65	286.15	284.67	284.62	284.45	284.29	284.37	284.19	
21	284.46	284.05	284.14	283.98	284.67	285.47	284.64	284.59	284.44	284.25	284.37	284.19	
22	284.42	284.12	284.15	283.98	285.18	285.16	284.64	284.59	284.44	284.12	284.37	284.19	
23	284.31	284.60	284.16	283.95	285.17	285.04	284.67	284.57	284.44	284.12	284.37	284.19	
24	284.31	284.39	284.07	283.90	285.81	284.82	284.71	284.53	284.44	284.12	284.37	284.19	
25	284.31	284.30	284.07	283.99	285.89	284.62	284.67	284.49	284.44	284.12	284.37	284.19	
26	284.31	284.40	284.10	284.00	285.52	284.59	284.62	284.49	284.44	284.11	284.37	284.19	
27	284.30	284.27	284.09	284.02	285.65	284.59	284.59	284.49	284.44	284.11	284.37	284.19	
28	284.29	284.23	284.07	284.03	286.04	284.62	284.56	284.47	284.44	284.10	284.37	284.19	
29	284.29	284.21	284.09	284.02	285.78	285.11	284.49	284.48	284.44	284.09	284.37	284.19	
30	284.29	284.18	284.09	284.00	285.47	284.78	284.58	284.49	284.44	284.09	284.37	284.19	
31		284.39		283.99	286.28		284.96		284.44	284.09		284.19	
Mean	284.43	284.26	284.25	284.00	284.87	285.12	284.77	284.68	284.40	284.29	284.19	284.20	
Max	284.48	284.60	284.49	284.05	286.28	287.39	285.51	285.98	284.49	284.44	284.37	284.35	287.39
Min	284.29	284.05	284.07	283.90	283.99	284.52	284.49	284.47	284.33	284.09	284.04	284.19	283.90
Annual Max Momentary Gage Height	288.01		m. (MSL.) ,				at 06.00 Hours , on Sep 1 , 2019						
Zero Gage at Bottom Elevation	283.29		m. (MSL.) ,			River Bed	282.44	m. (MSL.)					
Left Bank Elevation		290.16		m. (MSL.) ,									
Right Bank Elevation		290.12		m. (MSL.) ,		Drainage Are	1,634	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.42	0.28	0.43	0.12	0.10	111.45	12.60	9.20	0.43	0.39	0.15	0.33		
2	0.42	0.28	0.36	0.13	0.10	53.35	17.30	4.53	0.41	0.39	0.15	0.28		
3	0.42	0.28	0.28	0.13	0.12	44.90	13.86	5.14	0.35	0.39	0.15	0.28		
4	0.42	0.28	0.28	0.13	0.12	28.50	18.08	7.65	0.35	0.39	0.15	0.27		
5	0.42	0.28	0.34	0.13	1.47	29.80	14.72	7.20	0.35	0.39	0.15	0.21		
6	0.42	0.27	0.29	0.12	11.40	20.42	9.80	6.60	0.35	0.39	0.15	0.21		
7	0.42	0.26	0.33	0.11	6.75	16.44	6.45	8.70	0.35	0.39	0.15	0.21		
8	0.42	0.26	0.35	0.09	4.53	13.86	5.27	41.38	0.35	0.39	0.15	0.21		
9	0.42	0.27	0.33	0.09	3.37	10.20	5.02	12.80	0.34	0.39	0.15	0.21		
10	0.42	0.26	0.26	0.09	3.28	7.35	4.78	8.70	0.31	0.39	0.15	0.21		
11	0.42	0.25	0.22	0.09	3.67	5.02	5.14	8.25	0.32	0.39	0.15	0.21		
12	0.42	0.23	0.29	0.09	15.37	7.95	5.51	7.80	0.32	0.37	0.14	0.21		
13	0.42	0.23	0.34	0.12	9.40	6.90	6.75	7.35	0.32	0.28	0.14	0.21		
14	0.42	0.28	0.35	0.10	5.39	7.80	10.00	7.35	0.32	0.28	0.14	0.21		
15	0.42	0.28	0.33	0.10	4.65	10.20	25.80	7.35	0.32	0.28	0.12	0.21		
16	0.42	0.28	0.30	0.10	4.65	9.20	13.43	7.35	0.32	0.28	0.12	0.21		
17	0.41	0.24	0.27	0.10	4.65	7.35	10.40	7.05	0.32	0.28	0.12	0.21		
18	0.41	0.22	0.22	0.10	5.14	7.05	8.40	6.60	0.33	0.28	0.15	0.21		
19	0.41	0.20	0.22	0.10	10.20	9.80	7.35	6.60	0.39	0.28	0.33	0.21		
20	0.41	0.15	0.28	0.10	6.75	48.50	7.05	6.30	0.40	0.28	0.34	0.21		
21	0.41	0.13	0.18	0.09	7.05	24.60	6.60	5.88	0.39	0.26	0.34	0.21		
22	0.38	0.17	0.19	0.09	16.87	16.44	6.60	5.88	0.39	0.17	0.34	0.21		
23	0.30	0.52	0.20	0.08	16.66	13.86	7.05	5.63	0.39	0.17	0.34	0.21		
24	0.30	0.35	0.14	0.06	35.38	9.40	7.65	5.14	0.39	0.17	0.34	0.21		
25	0.30	0.29	0.14	0.10	38.38	6.30	7.05	4.65	0.39	0.17	0.34	0.21		
26	0.30	0.36	0.16	0.10	26.10	5.88	6.30	4.65	0.39	0.17	0.34	0.21		
27	0.29	0.27	0.15	0.11	30.13	5.88	5.88	0.43	0.39	0.17	0.34	0.21		
28	0.28	0.24	0.14	0.12	44.10	6.30	5.51	0.42	0.39	0.16	0.34	0.21		
29	0.28	0.23	0.15	0.11	34.35	15.37	4.65	0.42	0.39	0.15	0.34	0.21		
30	0.28	0.21	0.15	0.10	24.60	8.70	5.76	0.43	0.39	0.15		0.21		
31		0.35		0.10	54.30		12.20		0.39	0.15		0.21		
<b>Total</b>	<b>11.48</b>	<b>8.20</b>	<b>7.67</b>	<b>3.20</b>	<b>429.03</b>	<b>568.77</b>	<b>282.96</b>	<b>217.43</b>	<b>11.24</b>	<b>8.79</b>	<b>6.31</b>	<b>6.83</b>	<b>1561.91</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>0.38</b>	<b>0.26</b>	<b>0.26</b>	<b>0.10</b>	<b>13.84</b>	<b>18.96</b>	<b>9.13</b>	<b>7.25</b>	<b>0.36</b>	<b>0.28</b>	<b>0.22</b>	<b>0.22</b>	<b>4.27</b>	<b>CMS</b>
<b>Max</b>	<b>0.42</b>	<b>0.52</b>	<b>0.43</b>	<b>0.13</b>	<b>54.30</b>	<b>111.45</b>	<b>25.80</b>	<b>41.38</b>	<b>0.43</b>	<b>0.39</b>	<b>0.34</b>	<b>0.33</b>	<b>111.45</b>	<b>CMS</b>
<b>Min</b>	<b>0.28</b>	<b>0.13</b>	<b>0.14</b>	<b>0.06</b>	<b>0.10</b>	<b>5.02</b>	<b>4.65</b>	<b>0.42</b>	<b>0.31</b>	<b>0.15</b>	<b>0.12</b>	<b>0.21</b>	<b>0.06</b>	<b>CMS</b>
<b>Runoff</b>	<b>0.99</b>	<b>0.71</b>	<b>0.66</b>	<b>0.28</b>	<b>37.07</b>	<b>49.14</b>	<b>24.45</b>	<b>18.79</b>	<b>0.97</b>	<b>0.76</b>	<b>0.55</b>	<b>0.59</b>	<b>134.95</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>148.63 CMS. at 288.01 m. (MSL.) at 06.00 Hours , on Sep 1, 2019</b>													
<b>Runoff Yield</b>	<b>2.62 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>			<b>90.96 Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Ban Sop Soi , Chiang Mai (P.73)

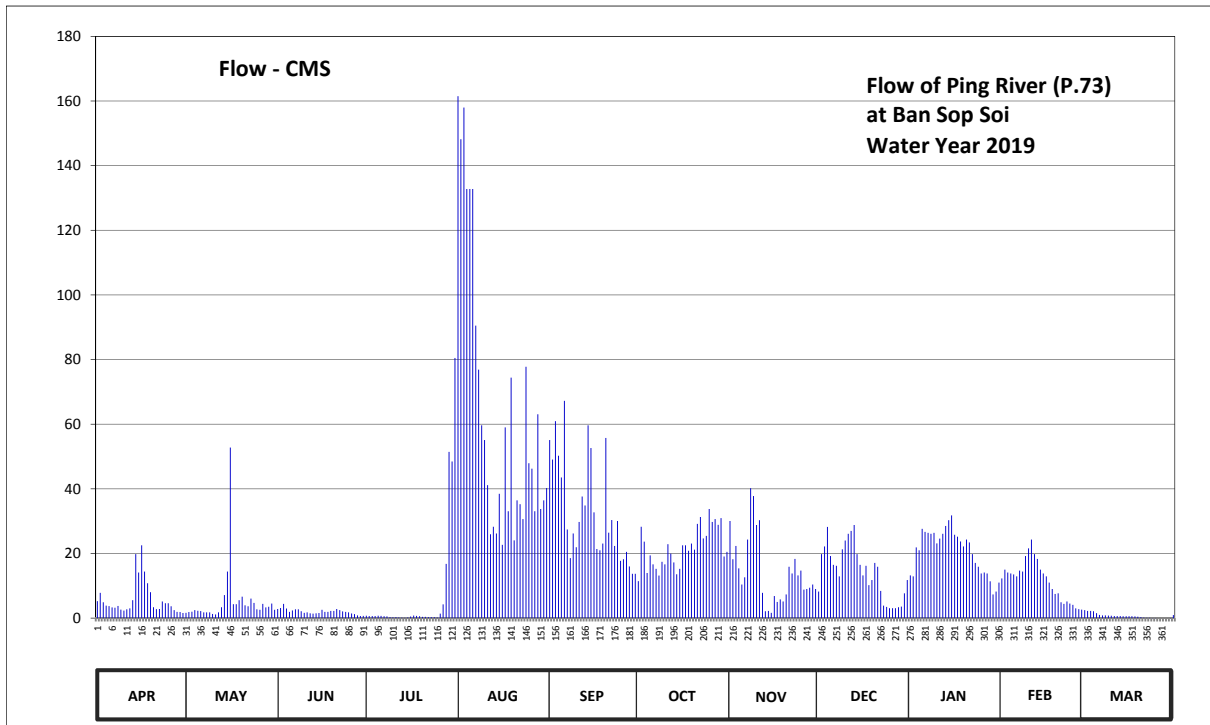
Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

Location : on left bank at Sop Soi Phatana Bridge.

	<b>Ban Sop Soi</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,814 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+261.750 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the abutment of the bridge.	<b>Elevation</b>	+267.505 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1997 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	262.02	261.25	261.63	260.83	263.82	262.81	261.24	262.27	262.21	262.44	262.41	261.52	
2	262.19	261.33	261.72	260.75	263.73	262.71	262.21	261.71	262.66	262.43	262.50	261.45	
3	261.99	261.37	261.94	260.75	263.80	262.90	262.01	261.94	262.74	262.73	262.47	261.45	
4	261.88	261.52	261.68	260.76	263.62	262.73	261.43	261.53	262.94	262.70	262.46	261.41	
5	261.85	261.46	261.35	260.83	263.62	262.61	261.78	262.32	262.64	262.92	262.45	261.21	
6	261.78	261.43	261.50	260.80	263.62	262.99	261.61	262.42	262.55	262.89	262.43	260.99	
7	261.74	261.29	261.61	260.72	263.25	262.18	261.52	262.81	262.54	262.88	262.49	260.89	
8	261.86	261.30	261.61	260.69	263.11	261.73	261.37	263.32	262.43	262.87	262.48	260.89	
9	261.58	261.30	261.42	260.44	262.88	262.13	261.66	263.25	262.71	262.88	262.64	260.88	
10	261.47	261.11	261.25	260.36	262.81	261.92	261.61	262.96	262.80	262.77	262.72	260.83	
11	261.60	261.06	261.29	260.43	262.56	262.26	261.97	263.01	262.87	262.82	262.81	260.77	
12	261.69	261.29	261.19	260.26	262.12	262.48	261.81	262.19	262.90	262.87	262.66	260.76	
13	262.04	261.79	261.15	260.24	262.21	262.41	261.65	261.42	262.96	262.95	262.61	260.75	
14	262.66	262.15	261.19	260.16	262.13	262.88	261.40	261.44	262.66	263.01	262.50	260.74	
15	262.47	262.48	261.23	260.32	262.50	262.77	261.52	261.25	262.55	263.06	262.46	260.74	
16	262.75	263.67	261.56	260.66	261.96	262.35	261.95	262.13	262.44	262.86	262.43	260.74	
17	262.48	261.93	261.34	260.86	262.87	261.89	261.95	262.00	262.54	262.84	262.35	260.73	
18	262.34	261.93	261.34	260.80	262.36	261.87	261.86	262.06	262.31	262.79	262.25	260.71	
19	262.20	262.04	261.44	260.73	263.08	261.98	261.98	262.01	262.39	262.74	262.17	260.61	
20	261.79	262.12	261.45	260.56	262.03	262.82	261.88	262.16	262.57	262.81	262.18	260.41	
21	261.62	261.89	261.63	260.54	262.45	262.14	262.24	262.53	262.53	262.78	261.99	260.22	
22	261.63	261.84	261.53	260.45	262.42	262.28	262.31	262.46	262.22	262.66	261.94	260.14	
23	262.01	262.08	261.40	260.45	262.29	261.94	262.06	262.61	261.88	262.57	262.01	260.08	
24	261.96	261.97	261.35	260.40	263.12	262.27	262.10	262.44	261.81	262.53	261.95	260.03	
25	261.96	261.60	261.30	260.25	262.69	261.68	262.38	262.49	261.70	262.46	261.91	259.94	
26	261.84	261.55	261.18	260.28	262.66	261.71	262.26	262.24	261.71	262.47	261.69	259.87	
27	261.53	261.94	261.09	260.61	262.36	261.84	262.29	262.25	261.70	262.46	261.62	259.84	
28	261.34	261.77	260.91	261.62	262.93	261.57	262.23	262.27	261.79	262.37	261.58	259.85	
29	261.32	261.82	260.78	262.75	262.38	261.41	262.30	262.32	261.83	262.16	261.57	259.83	
30	261.23	261.95	260.80	262.70	262.45	261.41	261.76	262.25	262.18	262.21	261.52	260.05	
31		261.56		263.15	262.54		261.84		262.39	262.35		260.97	
Mean	261.89	261.74	261.36	260.81	262.79	262.22	261.88	262.27	262.39	262.69	262.27	260.62	
Max	262.75	263.67	261.94	263.15	263.82	262.99	262.38	263.32	262.96	263.06	262.81	261.52	263.82
Min	261.23	261.06	260.78	260.16	261.96	261.41	261.24	261.25	261.70	262.16	261.57	259.83	259.83
Annual Max Momentary Gage Height	263.91		m. (MSL.) ,			at 15.00 Hours ,		on Aug 1 , 2019					
Zero Gage at Bottom Elevation	261.75		m. (MSL.) ,			River Bed	258.07	m. (MSL.)					
Left Bank Elevation	267.73		m. (MSL.) ,										
Right Bank Elevation	268.03		m. (MSL.) ,			Drainage Are	14,814	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.26	1.65	2.81	0.74	161.50	55.10	11.42	30.05	8.20	13.20	12.30	2.45		
2	7.83	1.88	3.12	0.62	148.20	49.05	28.25	18.22	19.80	12.90	15.00	2.24		
3	4.90	2.00	4.40	0.62	158.00	60.95	23.65	22.31	22.20	21.90	14.10	2.24		
4	3.88	2.45	2.98	0.63	132.80	50.25	13.97	15.40	28.20	21.00	13.80	2.11		
5	3.70	2.27	1.94	0.74	132.80	43.50	19.41	10.40	19.20	27.60	13.50	1.53		
6	3.33	2.17	2.39	0.69	132.80	67.25	16.61	12.60	16.50	26.70	12.90	0.98		
7	3.19	1.77	2.74	0.57	90.50	27.45	15.25	24.30	16.20	26.40	14.70	0.83		
8	3.76	1.80	2.74	0.53	76.90	18.56	13.15	40.20	12.90	26.10	14.40	0.83		
9	2.64	1.80	2.14	0.30	59.65	26.20	17.41	37.75	21.30	26.40	19.20	0.81		
10	2.30	1.28	1.65	0.24	55.10	21.93	16.61	28.80	24.00	23.10	21.60	0.74		
11	2.70	1.15	1.77	0.29	41.15	29.75	22.88	30.30	26.10	24.60	24.30	0.65		
12	3.02	1.77	1.48	0.18	25.95	37.65	19.93	7.83	27.00	26.10	19.80	0.63		
13	5.52	3.37	1.38	0.16	28.25	34.85	17.25	2.14	28.80	28.50	18.30	0.62		
14	19.80	7.15	1.48	0.12	26.20	59.65	13.55	2.20	19.80	30.30	15.00	0.60		
15	14.10	14.40	1.59	0.21	38.45	52.65	15.25	1.65	16.50	31.80	13.80	0.60		
16	22.50	52.80	2.58	0.50	22.69	32.70	22.50	6.81	13.20	25.80	12.90	0.60		
17	14.40	4.30	1.91	0.78	59.00	21.37	22.50	5.00	16.20	25.20	11.00	0.59		
18	10.80	4.30	1.91	0.69	33.05	21.01	20.83	5.78	10.20	23.70	9.00	0.56		
19	8.00	5.52	2.20	0.59	74.39	23.07	23.07	5.13	11.80	22.20	7.49	0.45		
20	3.37	6.64	2.24	0.40	24.05	55.75	21.19	7.32	17.10	24.30	7.66	0.28		
21	2.77	3.94	2.81	0.39	36.45	26.45	29.15	15.90	15.90	23.40	4.90	0.15		
22	2.81	3.64	2.48	0.31	35.25	30.35	31.30	13.80	8.40	19.80	4.40	0.11		
23	5.13	6.04	2.08	0.31	30.65	22.31	24.65	18.30	3.88	17.10	5.13	0.08		
24	4.60	4.70	1.94	0.27	77.80	30.05	25.45	13.20	3.46	15.90	4.50	0.06		
25	4.60	2.70	1.80	0.17	47.90	17.73	33.75	14.70	3.05	13.80	4.10	0.03		
26	3.64	2.55	1.45	1.36	46.25	18.22	29.75	8.80	3.09	14.10	3.02	0.01		
27	2.48	4.40	1.23	4.25	33.05	20.47	30.65	9.00	3.05	13.80	2.77	0.01		
28	1.91	3.30	0.86	16.77	63.05	16.00	28.85	9.40	3.37	11.40	2.64	0.01		
29	1.86	3.52	0.66	51.45	33.75	13.69	30.95	10.40	3.58	7.32	2.61	0.01		
30	1.59	4.50	0.69	48.45	36.45	13.69	19.07	9.00	7.66	8.20		0.07		
31		2.58		80.50	40.25		20.47		11.80	11.00		0.95		
Total	176.39	162.34	61.45	213.83	2002.28	997.65	678.72	436.69	442.44	643.62	324.82	21.83	6162.06	CMSDAY
Mean	5.88	5.24	2.05	6.90	64.59	33.26	21.89	14.56	14.27	20.76	11.20	0.70	16.84	CMS
Max	22.50	52.80	4.40	80.50	161.50	67.25	33.75	40.20	28.80	31.80	24.30	2.45	161.50	CMS
Min	1.59	1.15	0.66	0.12	22.69	13.69	11.42	1.65	3.05	7.32	2.61	0.01	0.01	CMS
Runoff	15.24	14.03	5.31	18.47	173.00	86.20	58.64	37.73	38.23	55.61	28.06	1.89	532.40	MCM
Momentary Peak	177.25 CMS. at 263.91 m. (MSL.) at 15.00 Hours , on Aug 1, 2019													
Runoff Yield	1.14 Liters/Second/Square KM.			Momentary Peak Yield				11.97 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Ban Sop Pae , Chiang Mai (P.73A)

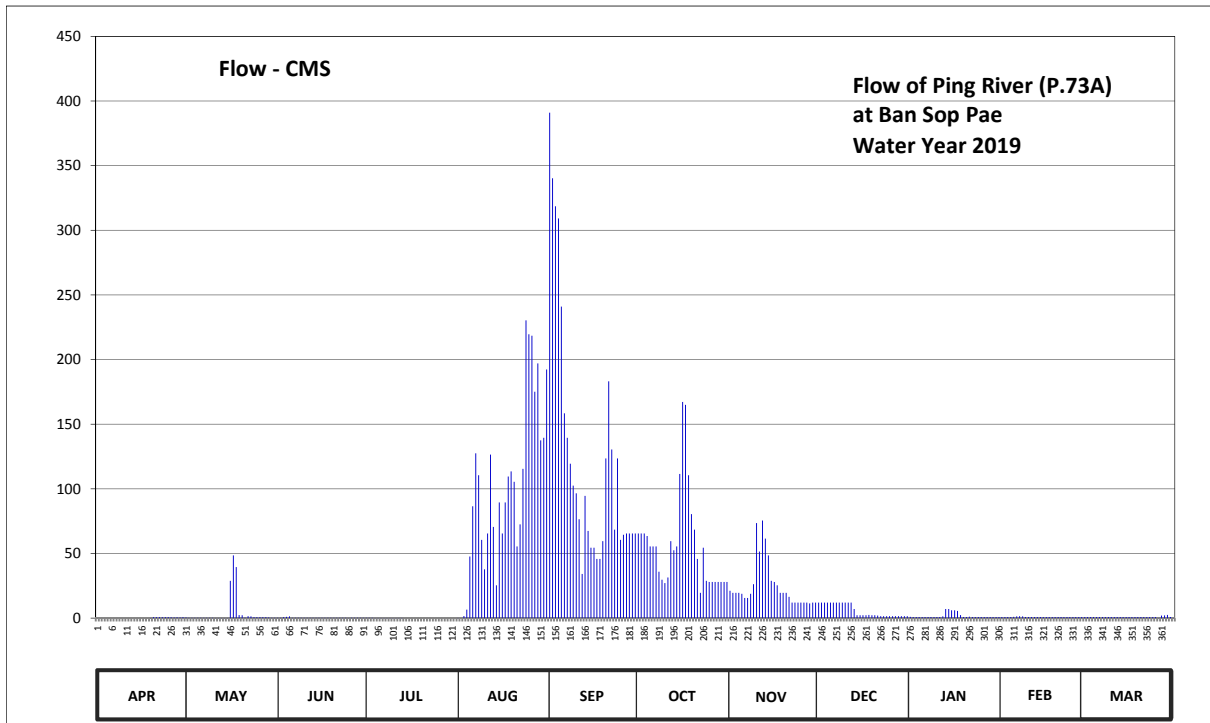
Lat 18 - 15 - 12 N Long 98 - 38 - 29 E

Location : on right bank at Ban Sop Pae.

	<b>Ban Sop Pae</b>	<b>Amphoe</b> Chom Thong	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	14,820 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+257.670 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the abutment of the bridge.	<b>Elevation</b>	+267.505 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2017 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2017 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2017 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.77	258.04	257.97	257.97	257.90	261.51	258.77	258.29	258.17	257.79	257.77	257.77	
2	257.77	257.97	257.98	257.97	257.74	261.15	258.77	258.27	258.17	257.77	257.77	257.77	
3	257.77	257.97	258.07	257.95	257.90	260.99	258.77	258.27	258.17	257.77	257.77	257.77	
4	257.77	257.97	258.09	257.87	258.08	260.92	258.75	258.27	258.17	257.77	257.77	257.77	
5	257.77	257.97	258.15	257.87	258.59	260.40	258.67	258.26	258.17	257.77	257.78	257.77	
6	257.77	257.97	257.97	257.87	258.98	259.69	258.67	258.22	258.17	257.77	257.85	257.77	
7	257.77	257.97	257.97	257.87	259.39	259.51	258.67	258.22	258.17	257.77	257.87	257.77	
8	257.77	257.97	257.97	257.87	259.22	259.31	258.46	258.26	258.17	257.77	257.85	257.77	
9	257.77	257.97	257.97	257.87	258.72	259.14	258.39	258.35	258.17	257.77	257.77	257.77	
10	257.77	257.95	257.97	257.87	258.48	259.08	258.36	258.85	258.17	257.77	257.77	257.77	
11	257.77	257.87	257.97	257.87	258.77	258.88	258.41	258.63	258.17	257.77	257.77	257.77	
12	257.77	257.87	257.97	257.87	259.38	258.44	258.71	258.87	258.17	257.86	257.77	257.77	
13	257.77	257.87	257.97	257.86	258.82	259.06	258.64	258.73	258.09	258.09	257.77	257.77	
14	257.77	257.87	257.97	257.80	258.34	258.79	258.67	258.60	257.97	258.09	257.77	257.77	
15	257.77	257.87	257.97	257.77	259.01	258.66	259.23	258.38	257.97	258.07	257.77	257.77	
16	257.77	258.38	257.97	257.77	258.77	258.66	259.77	258.37	257.97	258.07	257.77	257.77	
17	257.77	258.60	257.97	257.77	259.01	258.57	259.75	258.34	257.97	258.06	257.77	257.77	
18	257.77	258.50	257.97	257.77	259.21	258.57	259.22	258.27	258.00	257.98	257.77	257.77	
19	257.86	257.98	257.97	257.77	259.25	258.71	258.92	258.27	257.97	257.77	257.77	257.77	
20	258.06	257.97	257.97	257.77	259.17	259.35	258.80	258.27	257.97	257.77	257.77	257.77	
21	258.07	258.02	257.97	257.77	258.67	259.91	258.57	258.23	257.94	257.82	257.77	257.77	
22	258.07	258.16	257.97	257.77	258.84	259.42	258.27	258.17	257.87	257.77	257.77	257.77	
23	258.07	258.14	257.99	257.77	259.27	258.80	258.66	258.17	257.87	257.77	257.77	257.77	
24	258.07	258.07	257.95	257.77	260.31	259.35	258.38	258.17	257.87	257.77	257.77	257.76	
25	258.07	258.07	257.89	257.77	260.22	258.72	258.37	258.17	257.87	257.77	257.77	257.77	
26	258.05	258.07	257.96	257.77	260.21	258.76	258.37	258.17	257.87	257.77	257.77	257.81	
27	258.03	258.07	257.97	257.76	259.84	258.77	258.37	258.17	257.87	257.77	257.77	258.22	
28	258.05	258.07	257.97	257.77	260.03	258.77	258.37	258.16	257.87	257.77	257.77	258.24	
29	258.03	258.04	257.97	257.75	259.49	258.77	258.37	258.17	257.87	257.77	257.77	258.29	
30	258.06	257.97	257.97	257.72	259.51	258.77	258.37	258.17	257.87	257.77	257.77	258.08	
31		257.97		257.73	259.99		258.37		257.87	257.77		257.87	
Mean	257.88	258.04	257.98	257.82	259.07	259.31	258.67	258.32	258.02	257.83	257.78	257.83	
Max	258.07	258.60	258.15	257.97	260.31	261.51	259.77	258.87	258.17	258.09	257.87	258.29	261.51
Min	257.77	257.87	257.89	257.72	257.74	258.44	258.27	258.16	257.87	257.77	257.77	257.76	257.72
Annual Max Momentary Gage Height	261.63		m. (MSL.) ,				at 16.00 Hours , on Sep 1 , 2019						
Zero Gage at Bottom Elevation	257.67		m. (MSL.) ,			River Bed	255.02	m. (MSL.)					
Left Bank Elevation	267.39		m. (MSL.) ,										
Right Bank Elevation	267.41		m. (MSL.) ,			Drainage Are	14,820	Square Kilometers					

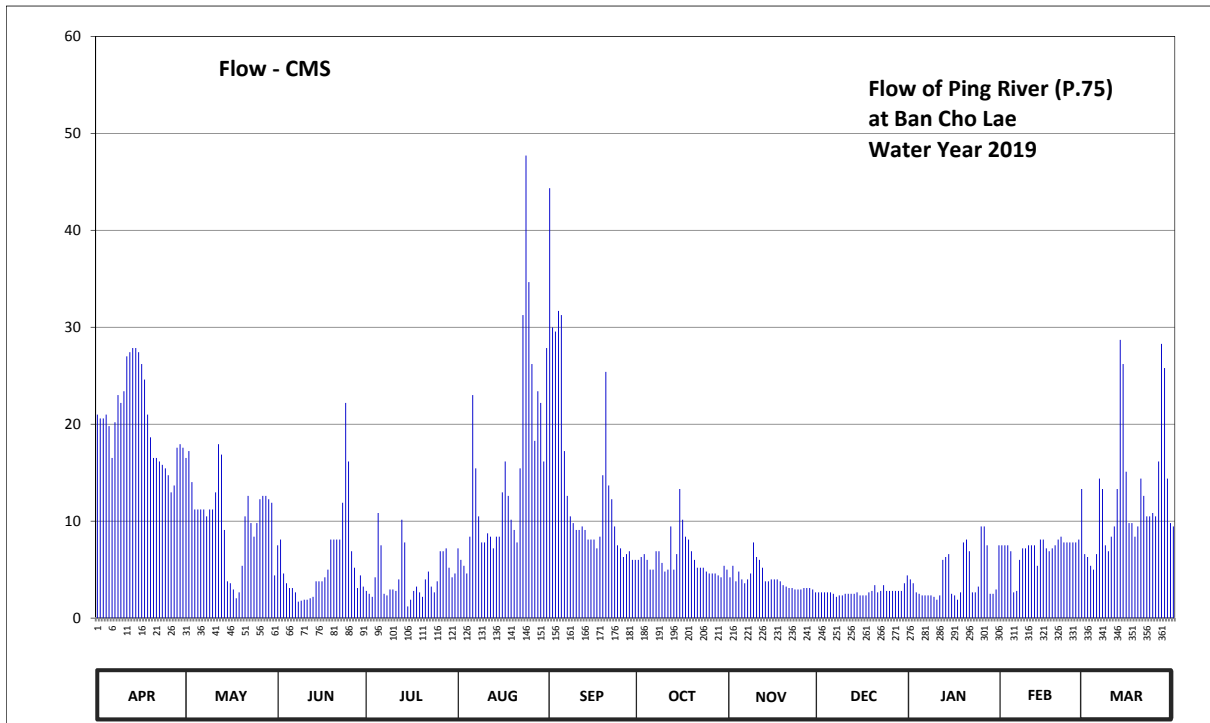


**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.54	0.20	0.20	0.14	390.95	65.50	21.20	12.05	0.96	0.88	0.88	
2	0.04	0.20	0.21	0.20	0.04	340.25	65.50	19.60	12.05	0.88	0.88	0.88	
3	0.04	0.20	0.78	0.19	1.60	318.65	65.50	19.60	12.05	0.88	0.88	0.88	
4	0.04	0.20	0.94	0.11	6.50	309.20	63.50	19.60	12.05	0.88	0.88	0.88	
5	0.04	0.20	1.41	0.11	47.60	241.00	55.50	18.80	12.05	0.88	0.92	0.88	
6	0.04	0.20	0.20	0.11	86.50	158.40	55.50	15.60	12.05	0.88	1.30	0.88	
7	0.04	0.20	0.20	0.11	127.50	139.50	55.50	15.60	12.05	0.88	1.42	0.88	
8	0.04	0.20	0.20	0.11	110.50	119.50	35.90	18.80	12.05	0.88	1.30	0.88	
9	0.04	0.20	0.20	0.11	60.50	102.50	29.65	26.25	12.05	0.88	0.88	0.88	
10	0.04	0.19	0.20	0.11	37.70	96.50	27.10	73.50	12.05	0.88	0.88	0.88	
11	0.04	0.11	0.20	0.11	65.50	76.50	31.40	51.50	12.05	0.88	0.88	0.88	
12	0.04	0.11	0.20	0.11	126.50	34.10	59.50	75.50	12.05	1.36	0.88	0.88	
13	0.04	0.11	0.20	0.10	70.50	94.50	52.50	61.50	7.00	7.00	0.88	0.88	
14	0.04	0.11	0.20	0.05	25.40	67.50	55.50	48.50	2.23	7.00	0.88	0.88	
15	0.04	0.11	0.20	0.04	89.50	54.50	111.50	28.80	2.23	6.00	0.88	0.88	
16	0.04	28.80	0.20	0.04	65.50	54.50	167.20	27.95	2.23	6.00	0.88	0.88	
17	0.04	48.50	0.20	0.04	89.50	45.80	165.00	25.40	2.23	5.50	0.88	0.88	
18	0.04	39.50	0.20	0.04	109.50	45.80	110.50	19.60	2.50	2.32	0.88	0.88	
19	0.10	2.32	0.20	0.04	113.50	59.50	80.50	19.60	2.23	0.88	0.88	0.88	
20	0.70	2.23	0.20	0.04	105.50	123.50	68.50	19.60	2.23	0.88	0.88	0.88	
21	0.78	0.39	0.20	0.04	55.50	183.15	45.80	16.40	1.96	1.12	0.88	0.88	
22	0.78	1.48	0.20	0.04	72.50	130.50	19.60	12.05	1.42	0.88	0.88	0.88	
23	0.78	1.33	0.22	0.04	115.50	68.50	54.50	12.05	1.42	0.88	0.88	0.88	
24	0.78	0.78	0.19	0.04	230.31	123.50	28.80	12.05	1.42	0.88	0.88	0.84	
25	0.78	0.78	0.13	0.04	219.63	60.50	27.95	12.05	1.42	0.88	0.88	0.88	
26	0.62	0.78	0.19	0.04	218.44	64.50	27.95	12.05	1.42	0.88	0.88	0.06	
27	0.47	0.78	0.20	0.04	175.10	65.50	27.95	12.05	1.42	0.88	0.88	1.95	
28	0.62	0.78	0.20	0.04	197.06	65.50	27.95	11.40	1.42	0.88	0.88	2.11	
29	0.47	0.54	0.20	0.04	137.50	65.50	27.95	12.05	1.42	0.88	0.88	2.50	
30	0.70	0.20	0.20	0.03	139.50	65.50	27.95	12.05	1.42	0.88	0.88	0.86	
31		0.20		0.04	192.35		27.95		1.42	0.88		0.11	
<b>Total</b>	8.30	132.27	8.47	2.40	3092.87	3765.30	1765.60	750.70	183.64	56.62	26.94	29.55	9822.66 CMSDAY
<b>Mean</b>	0.28	4.27	0.28	0.08	99.77	125.51	56.95	25.02	5.92	1.83	0.93	0.95	26.84 CMS
<b>Max</b>	0.78	48.50	1.41	0.20	230.31	390.95	167.20	75.50	12.05	7.00	1.42	2.50	390.95 CMS
<b>Min</b>	0.04	0.11	0.13	0.03	0.04	34.10	19.60	11.40	1.42	0.88	0.88	0.06	0.03 CMS
<b>Runoff</b>	0.72	11.43	0.73	0.21	267.22	325.32	152.55	64.86	15.87	4.89	2.33	2.55	848.68 MCM
<b>Momentary Peak</b>	408.50	CMS.	at 261.63 m. (MSL.)	at 16.00 Hours	, on Sep 1, 2019								
<b>Runoff Yield</b>	1.81	Liters/Second/Square KM.			Momentary Peak Yield	27.44	Liters/Second/Square KM.						







Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.00	16.52	7.50	2.80	7.20	44.34	6.00	4.20	2.65	4.00	7.50	6.60	
2	20.60	17.23	8.10	2.50	6.00	29.98	6.30	5.40	2.65	3.60	7.50	6.30	
3	20.60	14.03	4.60	2.20	5.40	29.55	6.60	3.80	2.65	2.65	7.50	5.40	
4	21.00	11.20	3.60	4.20	4.60	31.68	6.00	4.80	2.65	2.50	6.90	5.00	
5	19.80	11.20	3.10	10.85	8.40	31.25	5.00	4.00	2.65	2.35	2.65	6.60	
6	16.52	11.20	3.10	7.50	23.00	17.23	5.00	3.60	2.50	2.35	2.80	14.39	
7	20.20	11.20	2.65	2.50	15.45	12.61	6.90	4.00	2.20	2.35	6.00	13.32	
8	23.00	10.50	1.70	2.35	10.50	10.50	6.90	4.60	2.35	2.35	7.20	7.50	
9	22.20	11.20	1.80	2.95	7.80	9.80	5.70	7.80	2.35	2.20	7.20	6.90	
10	23.40	11.20	1.90	2.95	7.80	9.10	4.80	6.30	2.50	1.90	7.50	8.40	
11	27.00	12.97	1.90	2.80	8.75	9.10	5.00	6.00	2.50	2.35	7.50	9.45	
12	27.43	17.94	2.05	4.00	8.40	9.45	9.45	5.20	2.50	6.00	7.50	13.32	
13	27.85	16.87	2.20	10.15	7.20	9.10	5.00	3.80	2.50	6.30	5.40	28.70	
14	27.85	9.10	3.80	7.80	8.40	8.10	6.60	3.80	2.65	6.60	8.10	26.20	
15	27.43	3.80	3.80	1.20	8.40	8.10	13.32	4.00	2.35	2.50	8.10	15.10	
16	26.20	3.60	3.80	1.90	12.97	8.10	10.15	4.00	2.35	2.35	7.20	9.80	
17	24.60	2.95	4.20	2.80	16.16	7.20	8.40	4.00	2.35	1.90	6.90	9.80	
18	21.00	2.05	5.00	3.25	12.61	8.40	8.10	3.80	2.65	2.65	7.20	8.40	
19	18.65	2.65	8.10	2.65	10.15	14.74	6.90	3.40	2.80	7.80	7.50	9.45	
20	16.52	5.40	8.10	2.20	9.10	25.40	6.00	3.25	3.40	8.10	8.10	14.39	
21	16.52	10.50	8.10	4.00	7.80	13.68	5.20	3.10	2.65	6.90	8.40	12.61	
22	16.16	12.61	8.10	4.80	15.45	12.26	5.20	3.10	2.80	2.65	7.80	10.50	
23	15.81	9.80	11.90	3.25	31.25	9.45	5.20	2.95	3.40	2.65	7.80	10.50	
24	15.45	8.40	22.20	2.65	47.71	7.50	4.80	2.95	2.80	3.25	7.80	10.85	
25	14.74	9.80	16.16	3.80	34.65	7.20	4.60	2.95	2.80	9.45	7.80	10.50	
26	12.97	12.26	6.90	6.90	26.20	6.30	4.60	3.10	2.80	9.45	7.80	16.16	
27	13.68	12.61	5.20	6.90	18.29	6.60	4.60	3.10	2.80	7.50	8.10	28.28	
28	17.58	12.61	3.10	7.20	23.40	6.90	4.40	3.10	2.80	2.50	13.32	25.80	
29	17.94	12.26	4.40	5.20	22.20	6.00	4.20	2.95	2.80	2.50	12.26	14.39	
30	17.58	11.90	3.25	4.20	16.16	6.00	5.40	2.65	3.60	2.95		9.80	
31		4.40		4.60	27.85		5.00		4.40	7.50		9.45	
Total	611.28	319.96	170.31	133.05	469.25	415.62	191.32	119.70	84.85	130.10	217.33	383.86	3246.63
Mean	20.38	10.32	5.68	4.29	15.14	13.85	6.17	3.99	2.74	4.20	7.49	12.38	8.87
Max	27.85	17.94	22.20	10.85	47.71	44.34	13.32	7.80	4.40	9.45	13.32	28.70	47.71
Min	12.97	2.05	1.70	1.20	4.60	6.00	4.20	2.65	2.20	1.90	2.65	5.00	1.20
Runoff	52.81	27.64	14.71	11.50	40.54	35.91	16.53	10.34	7.33	11.24	18.78	33.17	280.51
Momentary Peak	59.00 CMS. at 339.29 m. (MSL.) at 11.00 Hours , on Aug 24 , 2019												
Runoff Yield	2.88 Liters/Second/Square KM.			Momentary Peak Yield			19.11 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

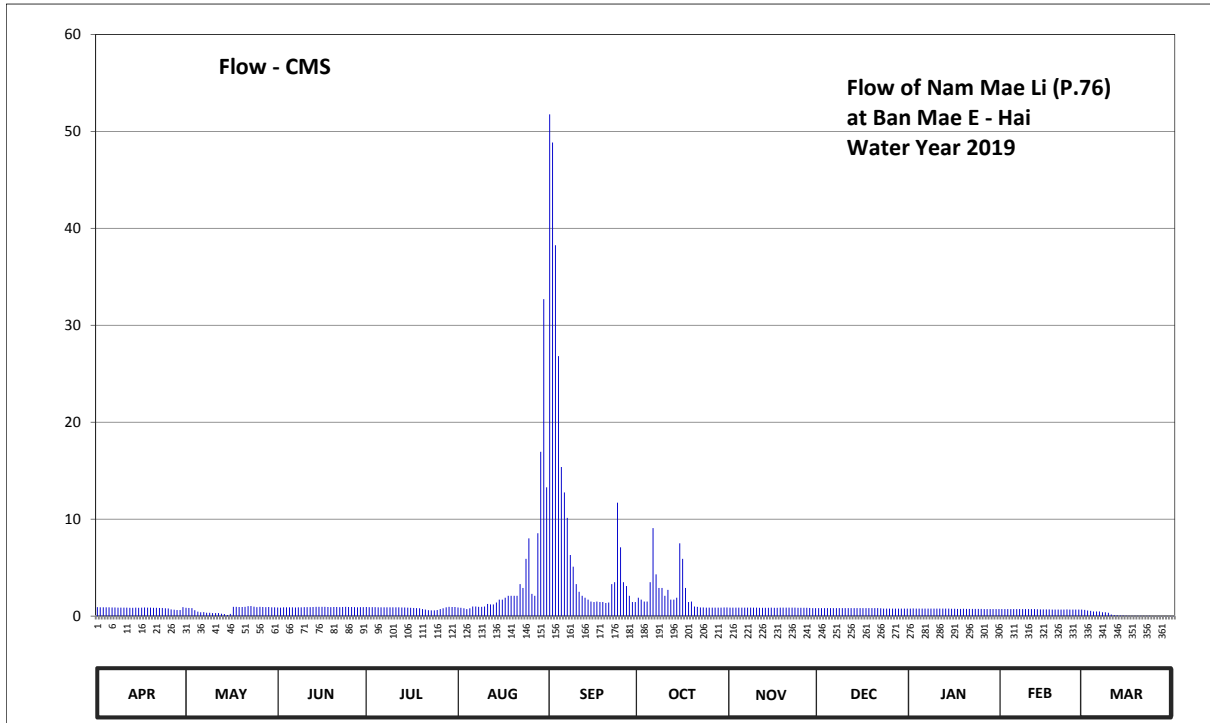
Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
<b>Drainage Area</b>	1,545 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+363.617 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 15 meters from the top staff gage.	<b>Elevation</b>	+370.937 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.97	364.91	364.94	364.99	364.85	365.90	365.02	364.92	364.88	364.83	364.77	364.69	
2	364.96	364.89	364.93	364.98	364.84	365.86	365.01	364.92	364.87	364.84	364.78	364.63	
3	364.95	364.87	364.95	364.98	364.82	365.71	365.00	364.92	364.87	364.83	364.78	364.60	
4	364.95	364.66	364.95	364.97	364.77	365.54	365.00	364.92	364.87	364.83	364.78	364.52	
5	364.95	364.51	364.95	364.96	364.82	365.35	365.10	364.92	364.87	364.83	364.77	364.53	
6	364.94	364.43	364.95	364.96	364.89	365.30	365.23	364.92	364.88	364.83	364.77	364.52	
7	364.94	364.45	364.94	364.96	364.89	365.25	365.12	364.92	364.87	364.83	364.77	364.44	
8	364.92	364.38	364.95	364.95	364.88	365.17	365.07	364.92	364.87	364.82	364.77	364.43	
9	364.93	364.38	364.96	364.95	364.88	365.14	365.07	364.93	364.88	364.82	364.77	364.37	
10	364.93	364.35	364.97	364.95	364.89	365.09	365.03	364.92	364.88	364.82	364.77	364.11	
11	364.92	364.35	364.97	364.95	364.95	365.05	365.06	364.91	364.88	364.82	364.77	363.97	
12	364.91	364.34	364.97	364.95	364.94	365.03	365.01	364.91	364.87	364.82	364.77	363.95	
13	364.91	364.25	364.99	364.94	364.94	365.02	365.01	364.91	364.87	364.82	364.76	363.92	
14	364.92	364.22	365.00	364.94	364.98	365.01	365.02	364.91	364.88	364.82	364.75	363.90	
15	364.91	364.01	365.00	364.92	365.01	365.00	365.20	364.92	364.88	364.81	364.74	363.87	
16	364.93	364.23	365.00	364.91	365.01	364.99	365.16	364.91	364.87	364.80	364.74	363.82	
17	364.94	365.00	365.00	364.89	365.02	365.00	365.07	364.90	364.87	364.79	364.74	363.80	
18	364.93	365.00	364.99	364.88	365.03	364.99	364.99	364.92	364.88	364.79	364.73	363.80	
19	364.92	364.99	364.98	364.85	365.03	364.99	365.00	364.93	364.88	364.80	364.73	363.79	
20	364.91	364.99	364.99	364.78	365.03	364.97	364.89	364.93	364.88	364.79	364.73	363.78	
21	364.90	365.00	364.99	364.72	365.03	364.98	364.88	364.92	364.87	364.79	364.73	363.79	
22	364.89	365.08	364.98	364.66	365.09	365.09	364.94	364.93	364.86	364.79	364.73	363.78	
23	364.89	365.09	364.99	364.64	365.07	365.10	364.94	364.92	364.83	364.79	364.74	363.78	
24	364.85	365.03	365.00	364.65	365.16	365.28	364.93	364.91	364.83	364.79	364.72	363.75	
25	364.84	364.97	364.99	364.71	365.21	365.19	364.92	364.90	364.83	364.79	364.72	363.69	
26	364.75	365.00	364.99	364.78	365.04	365.10	364.93	364.90	364.83	364.78	364.72	363.67	
27	364.71	364.99	364.98	364.82	365.03	365.08	364.92	364.90	364.83	364.78	364.72	363.67	
28	364.67	364.97	364.96	364.86	365.22	365.03	364.92	364.89	364.83	364.77	364.72	363.67	
29	364.68	364.99	364.97	364.88	365.38	364.99	364.92	364.88	364.83	364.77	364.72	363.67	
30	364.97	364.96	364.97	364.87	365.63	364.99	364.94	364.88	364.83	364.77	364.72	363.67	
31		364.95		364.87	365.31		364.94		364.83	364.77		363.67	
Mean	364.89	364.72	364.97	364.87	365.02	365.17	365.01	364.91	364.86	364.80	364.75	364.01	
Max	364.97	365.09	365.00	364.99	365.63	365.90	365.23	364.93	364.88	364.84	364.78	364.69	365.90
Min	364.67	364.01	364.93	364.64	364.77	364.97	364.88	364.88	364.83	364.77	364.72	363.67	363.67
Annual Max Momentary Gage Height	366.26			m. (MSL.) ,			at 16.00 Hours ,						on Sep 1 , 2019
Zero Gage at Bottom Elevation	363.62			m. (MSL.) ,			River Bed	363.60					m. (MSL.)
Left Bank Elevation		371.49		m. (MSL.) ,									
Right Bank Elevation		371.59		m. (MSL.) ,			Drainage Are	1,545					Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.86	0.89	0.94	0.89	51.75	1.90	0.87	0.83	0.78	0.72	0.64	
2	0.91	0.84	0.88	0.93	0.86	48.85	1.70	0.87	0.82	0.79	0.73	0.58	
3	0.90	0.82	0.90	0.93	0.81	38.25	1.50	0.87	0.82	0.78	0.73	0.55	
4	0.90	0.61	0.90	0.92	0.72	26.82	1.50	0.87	0.82	0.78	0.73	0.47	
5	0.90	0.46	0.90	0.91	0.81	15.38	3.50	0.87	0.82	0.78	0.72	0.48	
6	0.89	0.39	0.90	0.91	0.99	12.75	9.08	0.87	0.83	0.78	0.72	0.47	
7	0.89	0.41	0.89	0.91	0.99	10.13	4.30	0.87	0.82	0.78	0.72	0.40	
8	0.87	0.34	0.90	0.90	0.96	6.30	2.90	0.87	0.82	0.77	0.72	0.39	
9	0.88	0.34	0.91	0.90	0.96	5.10	2.90	0.88	0.83	0.77	0.72	0.34	
10	0.88	0.32	0.92	0.90	0.99	3.30	2.10	0.87	0.83	0.77	0.72	0.16	
11	0.87	0.32	0.92	0.90	1.26	2.50	2.70	0.86	0.83	0.77	0.72	0.09	
12	0.86	0.31	0.92	0.90	1.21	2.10	1.70	0.86	0.82	0.77	0.72	0.08	
13	0.86	0.25	0.94	0.89	1.21	1.90	1.70	0.86	0.82	0.77	0.71	0.07	
14	0.87	0.22	0.95	0.89	1.40	1.70	1.90	0.86	0.83	0.77	0.70	0.06	
15	0.86	0.11	0.95	0.87	1.70	1.50	7.50	0.87	0.83	0.76	0.69	0.05	
16	0.88	0.23	0.95	0.86	1.70	1.45	5.90	0.86	0.82	0.75	0.69	0.04	
17	0.89	0.95	0.95	0.84	1.90	1.50	2.90	0.85	0.82	0.74	0.69	0.03	
18	0.88	0.95	0.94	0.83	2.10	1.45	1.45	0.87	0.83	0.74	0.68	0.03	
19	0.87	0.94	0.93	0.80	2.10	1.45	1.50	0.88	0.83	0.75	0.68	0.03	
20	0.86	0.94	0.94	0.73	2.10	1.35	0.99	0.88	0.83	0.74	0.68	0.03	
21	0.85	0.95	0.94	0.67	2.10	1.40	0.96	0.87	0.82	0.74	0.68	0.03	
22	0.84	1.03	0.93	0.61	3.30	3.30	0.89	0.88	0.81	0.74	0.68	0.03	
23	0.84	1.04	0.94	0.59	2.90	3.50	0.89	0.87	0.78	0.74	0.69	0.03	
24	0.80	0.98	0.95	0.60	5.90	11.70	0.88	0.86	0.78	0.74	0.67	0.02	
25	0.79	0.92	0.94	0.63	8.02	7.10	0.87	0.85	0.78	0.74	0.67	0.01	
26	0.70	0.95	0.94	0.73	2.30	3.50	0.88	0.85	0.78	0.73	0.67	0.01	
27	0.66	0.94	0.93	0.81	2.10	3.10	0.87	0.85	0.78	0.73	0.67	0.01	
28	0.62	0.92	0.91	0.91	8.55	2.10	0.87	0.84	0.78	0.72	0.67	0.01	
29	0.63	0.94	0.92	0.96	16.95	1.45	0.87	0.83	0.78	0.72	0.67	0.01	
30	0.92	0.91	0.92	0.94	32.69	1.45	0.89	0.83	0.78	0.72	0.67	0.01	
31		0.90		0.94	13.28		0.89		0.78	0.72		0.01	
<b>Total</b>	25.29	21.09	27.70	26.05	123.75	274.13	69.38	25.89	25.15	23.38	20.26	5.17	667.24 CMSDAY
<b>Mean</b>	0.84	0.68	0.92	0.84	3.99	9.14	2.24	0.86	0.81	0.75	0.70	0.17	1.82 CMS
<b>Max</b>	0.92	1.04	0.95	0.96	32.69	51.75	9.08	0.88	0.83	0.79	0.73	0.64	51.75 CMS
<b>Min</b>	0.62	0.11	0.88	0.59	0.72	1.35	0.87	0.83	0.78	0.72	0.67	0.01	0.01 CMS
<b>Runoff</b>	2.19	1.82	2.39	2.25	10.69	23.68	5.99	2.24	2.17	2.02	1.75	0.45	57.65 MCM
<b>Momentary Peak</b>	78.65	CMS. at 366.26 m. (MSL.) at 16.00 Hours , on Sep 1, 2019											
<b>Runoff Yield</b>	1.18	Liters/Second/Square KM. Momentary Peak Yield 50.94 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)

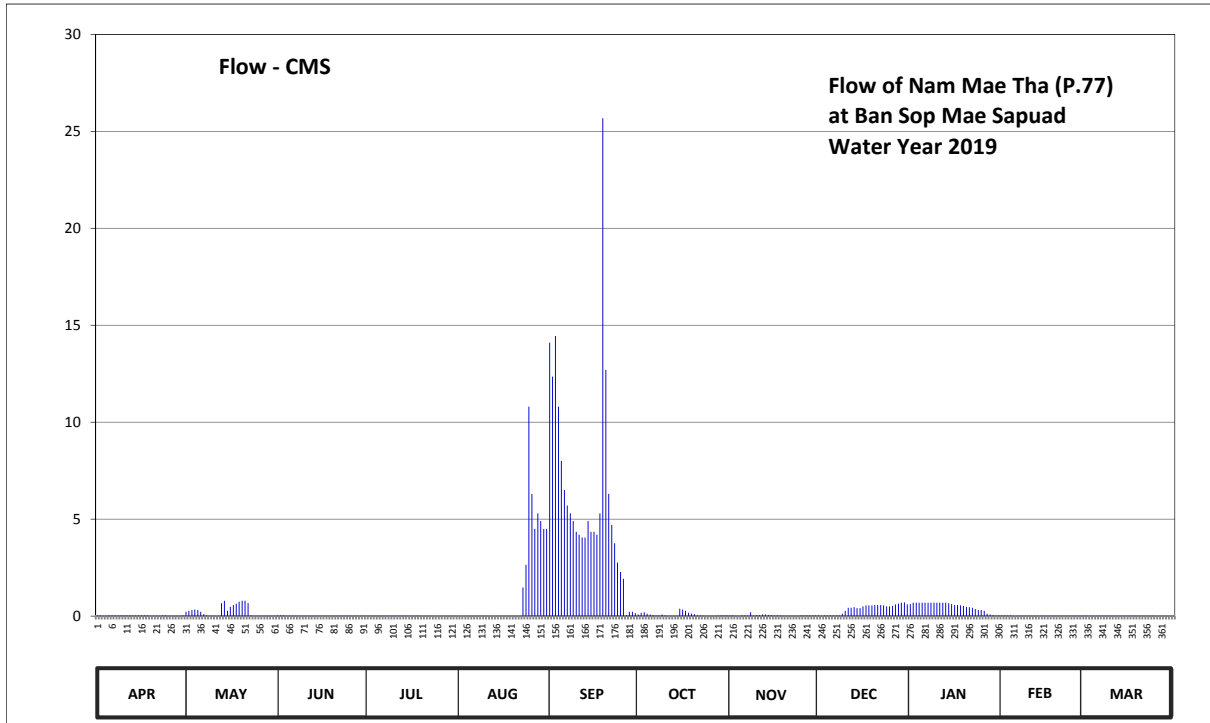
Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Sop Mae Sapuad	<b>Amphoe</b> Mae Tha	<b>Changwat</b> Lamphun
<b>Drainage Area</b>	550 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+364.378 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+369.286 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.79	365.88	365.75	365.72	365.58	366.36	365.82	365.75	365.75	366.05	365.77	365.70	
2	365.77	365.90	365.79	365.72	365.58	366.31	365.86	365.75	365.74	366.08	365.77	365.69	
3	365.73	365.92	365.77	365.72	365.58	366.37	365.87	365.74	365.75	366.08	365.77	365.69	
4	365.73	365.93	365.74	365.72	365.58	366.26	365.84	365.74	365.75	366.08	365.75	365.69	
5	365.78	365.92	365.72	365.72	365.58	366.16	365.82	365.76	365.75	366.08	365.72	365.69	
6	365.78	365.88	365.73	365.72	365.58	366.10	365.81	365.75	365.75	366.08	365.71	365.69	
7	365.78	365.83	365.71	365.72	365.58	366.06	365.79	365.75	365.75	366.08	365.71	365.69	
8	365.78	365.78	365.69	365.72	365.58	366.04	365.79	365.87	365.76	366.08	365.71	365.69	
9	365.78	365.72	365.72	365.72	365.58	366.02	365.82	365.80	365.84	366.08	365.71	365.68	
10	365.78	365.68	365.69	365.72	365.58	365.99	365.75	365.81	365.90	366.08	365.71	365.68	
11	365.78	365.67	365.73	365.72	365.58	365.98	365.74	365.81	365.97	366.08	365.71	365.68	
12	365.78	365.69	365.72	365.72	365.58	365.97	365.73	365.82	365.97	366.08	365.71	365.68	
13	365.78	366.07	365.72	365.72	365.58	365.97	365.73	365.82	365.98	366.08	365.71	365.68	
14	365.77	366.12	365.72	365.72	365.58	366.02	365.74	365.81	365.96	366.07	365.71	365.68	
15	365.76	365.90	365.72	365.72	365.58	365.99	365.95	365.81	365.96	366.05	365.71	365.68	
16	365.78	365.99	365.72	365.72	365.58	365.99	365.93	365.79	366.00	366.03	365.71	365.68	
17	365.78	366.03	365.72	365.72	365.58	365.98	365.90	365.76	366.02	366.03	365.70	365.68	
18	365.78	366.06	365.72	365.72	365.58	366.04	365.86	365.75	366.02	366.02	365.70	365.68	
19	365.74	366.10	365.72	365.68	365.58	366.65	365.84	365.74	366.02	366.01	365.69	365.68	
20	365.66	366.12	365.72	365.60	365.58	366.32	365.83	365.73	366.03	365.99	365.68	365.68	
21	365.66	366.12	365.72	365.58	365.58	366.09	365.79	365.72	366.03	365.98	365.68	365.68	
22	365.70	366.07	365.72	365.58	365.58	366.01	365.76	365.71	366.03	365.97	365.68	365.68	
23	365.77	365.80	365.72	365.58	365.76	365.95	365.74	365.70	366.02	365.94	365.68	365.68	
24	365.76	365.74	365.72	365.58	365.87	365.88	365.72	365.72	366.00	365.92	365.68	365.66	
25	365.73	365.72	365.72	365.58	366.26	365.84	365.72	365.79	366.00	365.92	365.68	365.58	
26	365.72	365.72	365.72	365.58	366.09	365.81	365.71	365.78	366.01	365.90	365.68	365.58	
27	365.71	365.72	365.72	365.58	366.00	365.81	365.73	365.78	366.04	365.84	365.68	365.58	
28	365.73	365.72	365.72	365.58	366.04	365.88	365.76	365.77	366.06	365.82	365.68	365.58	
29	365.74	365.72	365.72	365.58	366.02	365.88	365.75	365.75	366.08	365.81	365.68	365.58	
30	365.75	365.72	365.72	365.58	366.00	365.85	365.75	365.77	366.09	365.80	365.68	365.58	
31		365.72		365.58	366.00		365.75		366.04	365.77		365.58	
Mean	365.75	365.87	365.72	365.67	365.70	366.05	365.79	365.77	365.94	366.00	365.71	365.66	
Max	365.79	366.12	365.79	365.72	366.26	366.65	365.95	365.87	366.09	366.08	365.77	365.70	366.65
Min	365.66	365.67	365.69	365.58	365.58	365.81	365.71	365.70	365.74	365.77	365.68	365.58	365.58
Annual Max Momentary Gage Height	367.40		m. (MSL.) ,			at 13.00 Hours ,	on Sep 19 , 2019						
Zero Gage at Bottom Elevation	364.38		m. (MSL.) ,			River Bed	365.43	m. (MSL.)					
Left Bank Elevation		370.10		m. (MSL.) ,									
Right Bank Elevation		373.20		m. (MSL.) ,		Drainage Are	550	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.22	0.03	0.02	0.01	14.10	0.08	0.03	0.03	0.62	0.03	0.02	
2	0.03	0.27	0.03	0.02	0.01	12.35	0.17	0.03	0.02	0.69	0.03	0.02	
3	0.02	0.31	0.03	0.02	0.01	14.45	0.20	0.02	0.03	0.69	0.03	0.02	
4	0.02	0.34	0.02	0.02	0.01	10.80	0.12	0.02	0.03	0.69	0.03	0.02	
5	0.03	0.31	0.02	0.02	0.01	8.00	0.08	0.03	0.03	0.69	0.02	0.02	
6	0.03	0.22	0.02	0.02	0.01	6.50	0.05	0.03	0.03	0.69	0.02	0.02	
7	0.03	0.10	0.02	0.02	0.01	5.70	0.03	0.03	0.03	0.69	0.02	0.02	
8	0.03	0.03	0.02	0.02	0.01	5.30	0.03	0.20	0.03	0.69	0.02	0.02	
9	0.03	0.02	0.02	0.02	0.01	4.90	0.08	0.03	0.12	0.69	0.02	0.02	
10	0.03	0.02	0.02	0.02	0.01	4.35	0.03	0.05	0.27	0.69	0.02	0.02	
11	0.03	0.02	0.02	0.02	0.01	4.20	0.02	0.05	0.43	0.69	0.02	0.02	
12	0.03	0.02	0.02	0.02	0.01	4.05	0.02	0.08	0.43	0.69	0.02	0.02	
13	0.03	0.67	0.02	0.02	0.01	4.05	0.02	0.08	0.46	0.69	0.02	0.02	
14	0.03	0.79	0.02	0.02	0.01	4.90	0.02	0.05	0.41	0.67	0.02	0.02	
15	0.03	0.27	0.02	0.02	0.01	4.35	0.38	0.05	0.41	0.62	0.02	0.02	
16	0.03	0.48	0.02	0.02	0.01	4.35	0.34	0.03	0.50	0.57	0.02	0.02	
17	0.03	0.57	0.02	0.02	0.01	4.20	0.27	0.03	0.55	0.57	0.02	0.02	
18	0.03	0.64	0.02	0.02	0.01	5.30	0.17	0.03	0.55	0.55	0.02	0.02	
19	0.02	0.74	0.02	0.02	0.01	25.68	0.12	0.02	0.55	0.53	0.02	0.02	
20	0.02	0.79	0.02	0.01	0.01	12.70	0.10	0.02	0.57	0.48	0.02	0.02	
21	0.02	0.79	0.02	0.01	0.01	6.30	0.03	0.02	0.57	0.46	0.02	0.02	
22	0.02	0.67	0.02	0.01	0.01	4.70	0.03	0.02	0.57	0.43	0.02	0.02	
23	0.03	0.03	0.02	0.01	1.48	3.75	0.02	0.02	0.55	0.36	0.02	0.02	
24	0.03	0.02	0.02	0.01	2.64	2.76	0.02	0.02	0.50	0.31	0.02	0.02	
25	0.02	0.02	0.02	0.01	10.80	2.28	0.02	0.03	0.50	0.31	0.02	0.01	
26	0.02	0.02	0.02	0.01	6.30	1.92	0.02	0.03	0.53	0.27	0.02	0.01	
27	0.02	0.02	0.02	0.01	4.50	0.05	0.02	0.03	0.60	0.12	0.02	0.01	
28	0.02	0.02	0.02	0.01	5.30	0.22	0.03	0.03	0.64	0.08	0.02	0.01	
29	0.02	0.02	0.02	0.01	4.90	0.22	0.03	0.03	0.69	0.05	0.02	0.01	
30	0.03	0.02	0.02	0.01	4.50	0.15	0.03	0.03	0.71	0.03		0.01	
31		0.02		0.01	4.50		0.03		0.60	0.03		0.01	
Total	0.79	8.48	0.63	0.50	45.14	182.58	2.61	1.17	11.94	15.34	0.62	0.55	270.35 CMSDAY
Mean	0.03	0.27	0.02	0.02	1.46	6.09	0.08	0.04	0.39	0.49	0.02	0.02	0.74 CMS
Max	0.03	0.79	0.03	0.02	10.80	25.68	0.38	0.20	0.71	0.69	0.03	0.02	25.68 CMS
Min	0.02	0.02	0.02	0.01	0.01	0.05	0.02	0.02	0.02	0.03	0.02	0.01	0.01 CMS
Runoff	0.07	0.73	0.05	0.04	3.90	15.77	0.23	0.10	1.03	1.33	0.05	0.05	23.36 MCM
Momentary Peak	66.00	CMS.	at 367.40 m. (MSL.)	at 13.00 Hours	on Sep 19, 2019								
Runoff Yield	1.35	Liters/Second/Square KM.			Momentary Peak Yield	120.00	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

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

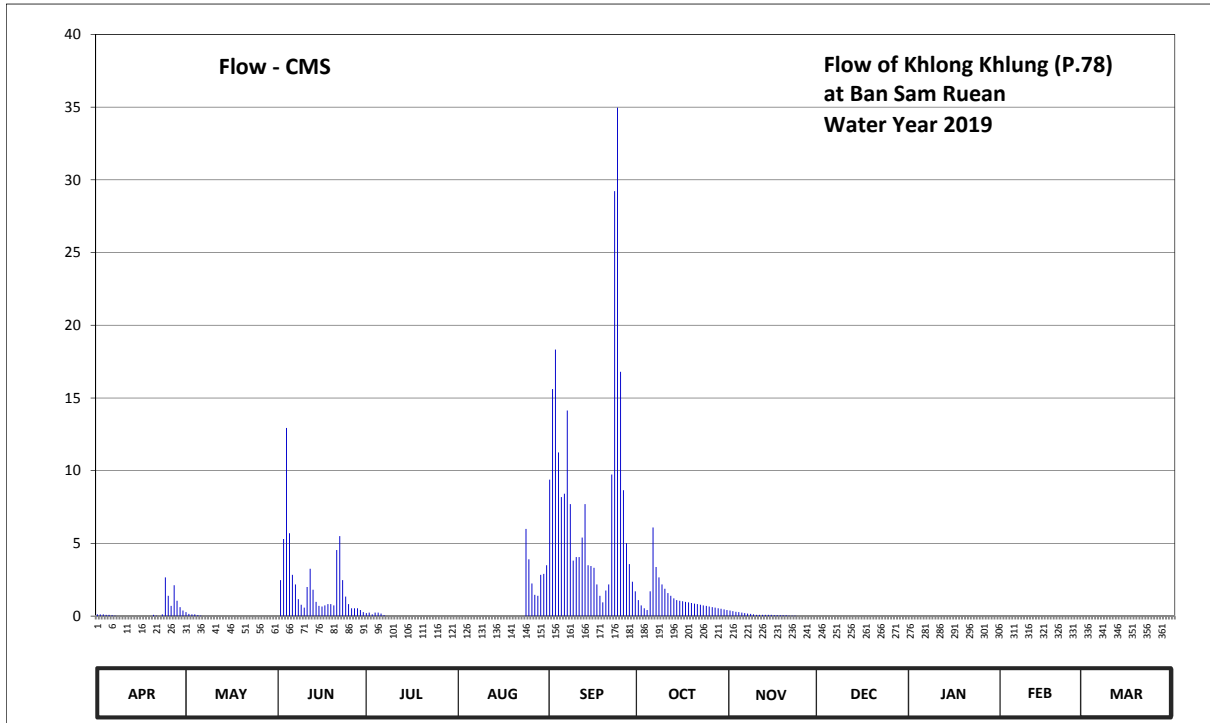
Lat 16 - 11 - 03 N Long 99 - 36 - 09 E

Location : on left bank at Ban Sam Ruean.

	<b>Ban Sam Ruean</b>	<b>Amphoe Khlong Khlung</b>	<b>Changwat Kamphaeng Phet</b>
<b>Drainage Area</b>	1,119 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+65.177 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+73.494 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.44	66.49	66.27	66.47	66.20	67.69	66.70	66.52	66.38	66.33	66.28	66.19	
2	66.44	66.45	66.93	66.48	66.20	68.13	66.61	66.51	66.38	66.33	66.28	66.19	
3	66.44	66.44	67.32	66.44	66.20	68.29	66.56	66.50	66.38	66.33	66.27	66.19	
4	66.43	66.44	67.96	66.48	66.20	67.84	66.53	66.49	66.38	66.33	66.27	66.19	
5	66.43	66.42	67.36	66.48	66.20	67.59	66.80	66.48	66.38	66.33	66.27	66.19	
6	66.42	66.41	66.99	66.46	66.20	67.61	67.40	66.47	66.38	66.33	66.25	66.19	
7	66.41	66.39	66.88	66.42	66.20	68.04	67.08	66.46	66.37	66.33	66.23	66.19	
8	66.40	66.38	66.71	66.40	66.20	67.55	66.96	66.45	66.37	66.33	66.23	66.19	
9	66.40	66.37	66.62	66.39	66.20	67.14	66.88	66.44	66.37	66.33	66.21	66.19	
10	66.39	66.37	66.57	66.38	66.20	67.17	66.83	66.43	66.37	66.33	66.19	66.19	
11	66.37	66.36	66.85	66.38	66.20	67.17	66.78	66.43	66.36	66.32	66.19	66.19	
12	66.36	66.36	67.06	66.38	66.20	67.33	66.75	66.43	66.36	66.32	66.19	66.19	
13	66.34	66.36	66.82	66.38	66.20	67.55	66.72	66.43	66.36	66.32	66.19	66.19	
14	66.32	66.36	66.67	66.38	66.20	67.10	66.70	66.43	66.36	66.32	66.19	66.19	
15	66.30	66.35	66.60	66.38	66.20	67.09	66.69	66.43	66.36	66.31	66.19	66.19	
16	66.40	66.34	66.59	66.38	66.20	67.07	66.68	66.42	66.35	66.31	66.19	66.19	
17	66.40	66.33	66.61	66.38	66.20	66.88	66.67	66.42	66.35	66.31	66.19	66.19	
18	66.37	66.32	66.63	66.38	66.20	66.75	66.66	66.42	66.35	66.31	66.19	66.19	
19	66.40	66.30	66.63	66.38	66.20	66.66	66.65	66.42	66.35	66.31	66.19	66.19	
20	66.43	66.26	66.61	66.37	66.20	66.81	66.64	66.42	66.35	66.31	66.19	66.19	
21	66.41	66.24	67.23	66.35	66.20	66.88	66.63	66.41	66.35	66.30	66.19	66.19	
22	66.40	66.31	67.34	66.30	66.20	67.72	66.62	66.41	66.35	66.30	66.19	66.19	
23	66.44	66.29	66.93	66.27	66.20	68.84	66.61	66.41	66.35	66.30	66.19	66.19	
24	66.96	66.26	66.74	66.25	67.39	69.09	66.60	66.40	66.35	66.30	66.19	66.19	
25	66.75	66.26	66.63	66.22	67.15	68.20	66.59	66.40	66.35	66.30	66.19	66.19	
26	66.60	66.24	66.56	66.20	66.89	67.63	66.58	66.39	66.34	66.29	66.19	66.19	
27	66.87	66.23	66.56	66.20	66.76	67.29	66.57	66.39	66.34	66.29	66.19	66.19	
28	66.69	66.22	66.56	66.20	66.75	67.11	66.56	66.39	66.34	66.29	66.19	66.19	
29	66.58	66.21	66.53	66.20	66.99	66.91	66.55	66.39	66.34	66.29	66.19	66.19	
30	66.52	66.30	66.49	66.20	67.00	66.80	66.54	66.39	66.34	66.29	66.19	66.19	
31		66.29		66.20	67.10		66.53		66.34	66.29		66.19	
Mean	66.47	66.33	66.81	66.35	66.41	67.46	66.70	66.43	66.36	66.31	66.21	66.19	
Max	66.96	66.49	67.96	66.48	67.39	69.09	67.40	66.52	66.38	66.33	66.28	66.19	69.09
Min	66.30	66.21	66.27	66.20	66.20	66.66	66.53	66.39	66.34	66.29	66.19	66.19	66.19
Annual Max Momentary Gage Height	69.27		m. (MSL.) ,			at 06.00 Hours ,	on Sep 24 , 2019						
Zero Gage at Bottom Elevation	65.18		m. (MSL.) ,			River Bed	66.36	m. (MSL.)					
Left Bank Elevation		71.47		m. (MSL.) ,									
Right Bank Elevation		71.77		m. (MSL.) ,		Drainage Are	1,119	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.27	0.00	0.21	0.00	9.38	1.10	0.38	0.00	0.00	0.00	0.00	
2	0.12	0.15	2.48	0.24	0.00	15.61	0.74	0.34	0.00	0.00	0.00	0.00	
3	0.12	0.12	5.30	0.12	0.00	18.33	0.54	0.30	0.00	0.00	0.00	0.00	
4	0.09	0.12	12.94	0.24	0.00	11.26	0.42	0.27	0.00	0.00	0.00	0.00	
5	0.09	0.06	5.70	0.24	0.00	8.18	1.70	0.24	0.00	0.00	0.00	0.00	
6	0.06	0.03	2.84	0.18	0.00	8.42	6.10	0.21	0.00	0.00	0.00	0.00	
7	0.03	0.00	2.18	0.06	0.00	14.14	3.38	0.18	0.00	0.00	0.00	0.00	
8	0.00	0.00	1.16	0.00	0.00	7.70	2.66	0.15	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.78	0.00	0.00	3.82	2.18	0.12	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.58	0.00	0.00	4.06	1.88	0.09	0.00	0.00	0.00	0.00	
11	0.00	0.00	2.00	0.00	0.00	4.06	1.58	0.09	0.00	0.00	0.00	0.00	
12	0.00	0.00	3.26	0.00	0.00	5.40	1.40	0.09	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.82	0.00	0.00	7.70	1.22	0.09	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.98	0.00	0.00	3.50	1.10	0.09	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.70	0.00	0.00	3.44	1.06	0.09	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.66	0.00	0.00	3.32	1.02	0.06	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.74	0.00	0.00	2.18	0.98	0.06	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.82	0.00	0.00	1.40	0.94	0.06	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.82	0.00	0.00	0.94	0.90	0.06	0.00	0.00	0.00	0.00	
20	0.09	0.00	0.74	0.00	0.00	1.76	0.86	0.06	0.00	0.00	0.00	0.00	
21	0.03	0.00	4.54	0.00	0.00	2.18	0.82	0.03	0.00	0.00	0.00	0.00	
22	0.00	0.00	5.50	0.00	0.00	9.74	0.78	0.03	0.00	0.00	0.00	0.00	
23	0.12	0.00	2.48	0.00	0.00	29.22	0.74	0.03	0.00	0.00	0.00	0.00	
24	2.66	0.00	1.34	0.00	6.00	34.97	0.70	0.00	0.00	0.00	0.00	0.00	
25	1.40	0.00	0.82	0.00	3.90	16.80	0.66	0.00	0.00	0.00	0.00	0.00	
26	0.70	0.00	0.54	0.00	2.24	8.66	0.62	0.00	0.00	0.00	0.00	0.00	
27	2.12	0.00	0.54	0.00	1.46	5.02	0.58	0.00	0.00	0.00	0.00	0.00	
28	1.06	0.00	0.54	0.00	1.40	3.58	0.54	0.00	0.00	0.00	0.00	0.00	
29	0.62	0.00	0.42	0.00	2.84	2.36	0.50	0.00	0.00	0.00	0.00	0.00	
30	0.38	0.00	0.27	0.00	2.90	1.70	0.46	0.00	0.00	0.00	0.00	0.00	
31		0.00		0.00	3.50		0.42		0.00	0.00		0.00	
<b>Total</b>	<b>9.81</b>	<b>0.75</b>	<b>63.49</b>	<b>1.29</b>	<b>24.24</b>	<b>248.83</b>	<b>38.58</b>	<b>3.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>390.11</b> CMSDAY
<b>Mean</b>	<b>0.33</b>	<b>0.02</b>	<b>2.12</b>	<b>0.04</b>	<b>0.78</b>	<b>8.29</b>	<b>1.24</b>	<b>0.10</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.07</b> CMS
<b>Max</b>	<b>2.66</b>	<b>0.27</b>	<b>12.94</b>	<b>0.24</b>	<b>6.00</b>	<b>34.97</b>	<b>6.10</b>	<b>0.38</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>34.97</b> CMS
<b>Min</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.94</b>	<b>0.42</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>0.85</b>	<b>0.06</b>	<b>5.49</b>	<b>0.11</b>	<b>2.09</b>	<b>21.50</b>	<b>3.33</b>	<b>0.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>33.71</b> MCM
<b>Momentary Peak</b>	39.45 CMS. at 69.27 m. (MSL.) at 06.00 Hours , on Sep 24 , 2019												
<b>Runoff Yield</b>	0.96 Liters/Second/Square KM.			<b>Momentary Peak Yield</b>			35.25 Liters/Second/Square KM.						



## WATER YEAR : 2019

## PING RIVER BASIN

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

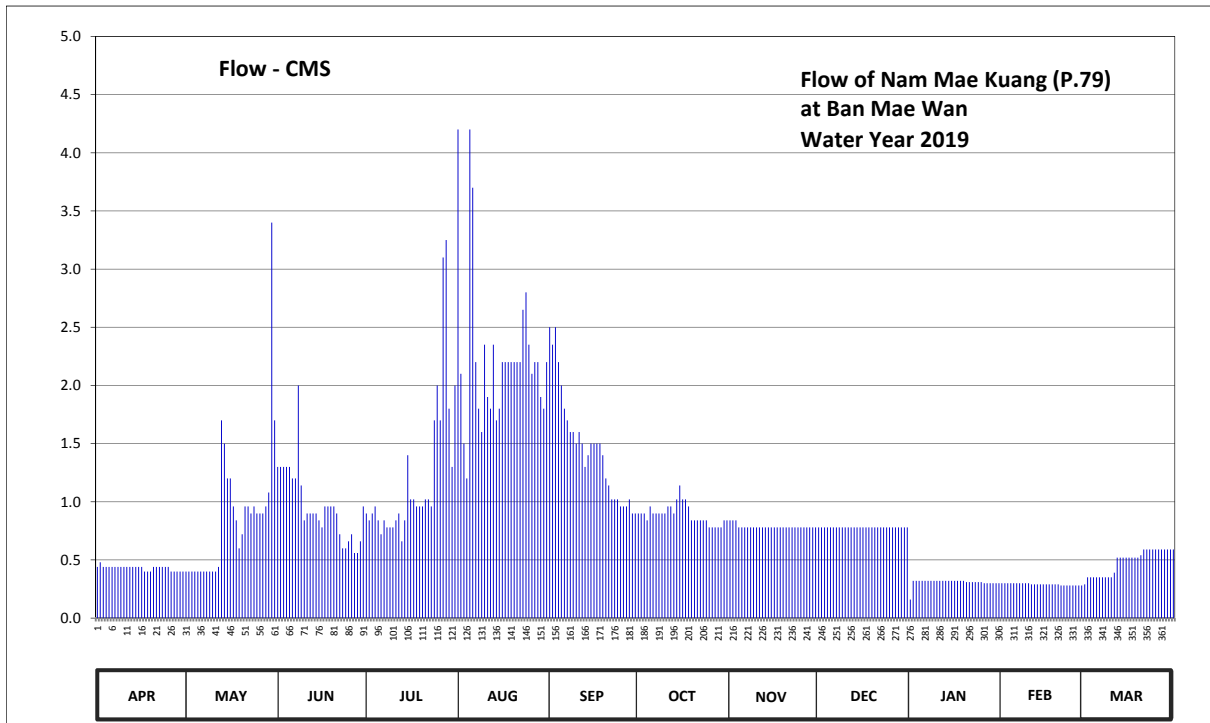
Lat 18 - 57 - 45 N Long 99 - 14 - 31 E

Location : on left bank at the bridge on road.

	<b>Ban Mae Wan</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	136 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+442.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+447.326 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.46	442.45	442.61	442.55	442.82	442.72	442.55	442.54	442.53	442.56	442.70	442.69	
2	442.47	442.45	442.61	442.54	442.69	442.71	442.55	442.54	442.53	442.72	442.70	442.75	
3	442.46	442.45	442.61	442.55	442.63	442.72	442.55	442.54	442.53	442.72	442.70	442.75	
4	442.46	442.45	442.61	442.56	442.60	442.70	442.54	442.53	442.53	442.72	442.70	442.75	
5	442.46	442.45	442.61	442.54	442.82	442.68	442.56	442.53	442.53	442.72	442.70	442.75	
6	442.46	442.45	442.60	442.52	442.80	442.66	442.55	442.53	442.53	442.72	442.70	442.75	
7	442.46	442.45	442.60	442.54	442.70	442.65	442.55	442.53	442.53	442.72	442.70	442.75	
8	442.46	442.45	442.68	442.53	442.66	442.64	442.55	442.53	442.53	442.72	442.70	442.75	
9	442.46	442.45	442.59	442.53	442.64	442.64	442.55	442.53	442.53	442.72	442.70	442.75	
10	442.46	442.45	442.54	442.53	442.71	442.63	442.55	442.53	442.53	442.72	442.70	442.75	
11	442.46	442.45	442.55	442.54	442.67	442.64	442.56	442.53	442.53	442.72	442.69	442.79	
12	442.46	442.46	442.55	442.55	442.66	442.63	442.56	442.53	442.53	442.72	442.69	442.92	
13	442.46	442.65	442.55	442.51	442.71	442.61	442.55	442.53	442.53	442.72	442.69	442.92	
14	442.46	442.63	442.55	442.54	442.65	442.62	442.57	442.53	442.53	442.72	442.69	442.92	
15	442.46	442.60	442.54	442.62	442.66	442.63	442.59	442.53	442.53	442.72	442.69	442.92	
16	442.46	442.60	442.53	442.57	442.70	442.63	442.57	442.53	442.53	442.72	442.69	442.92	
17	442.45	442.56	442.56	442.57	442.70	442.63	442.57	442.53	442.53	442.72	442.69	442.92	
18	442.45	442.54	442.56	442.56	442.70	442.63	442.56	442.53	442.53	442.72	442.69	442.92	
19	442.45	442.50	442.56	442.56	442.70	442.62	442.54	442.53	442.53	442.72	442.69	442.92	
20	442.46	442.52	442.56	442.56	442.70	442.60	442.54	442.53	442.53	442.71	442.69	442.94	
21	442.46	442.56	442.55	442.57	442.70	442.59	442.54	442.53	442.53	442.71	442.68	442.99	
22	442.46	442.56	442.52	442.57	442.70	442.57	442.54	442.53	442.53	442.71	442.68	442.99	
23	442.46	442.55	442.50	442.56	442.73	442.57	442.54	442.53	442.53	442.71	442.68	442.99	
24	442.46	442.56	442.50	442.65	442.74	442.57	442.54	442.53	442.53	442.71	442.68	442.99	
25	442.46	442.55	442.51	442.68	442.71	442.56	442.53	442.53	442.53	442.71	442.68	442.99	
26	442.45	442.55	442.52	442.65	442.69	442.56	442.53	442.53	442.53	442.70	442.68	442.99	
27	442.45	442.55	442.49	442.76	442.70	442.56	442.53	442.53	442.53	442.70	442.68	442.99	
28	442.45	442.56	442.49	442.77	442.70	442.57	442.53	442.53	442.53	442.70	442.68	442.99	
29	442.45	442.58	442.51	442.66	442.67	442.55	442.53	442.53	442.53	442.70	442.68	442.99	
30	442.45	442.78	442.56	442.61	442.66	442.55	442.54	442.53	442.53	442.70	442.68	442.99	
31		442.65		442.68	442.70		442.54		442.53	442.70		442.99	
Mean	442.46	442.53	442.56	442.58	442.70	442.62	442.55	442.53	442.53	442.71	442.69	442.88	
Max	442.47	442.78	442.68	442.77	442.82	442.72	442.59	442.54	442.53	442.72	442.70	442.99	442.99
Min	442.45	442.45	442.49	442.51	442.60	442.55	442.53	442.53	442.53	442.56	442.68	442.69	442.45
Annual Max Momentary Gage Height	443.26		m. (MSL.) ,				at 10.00 Hours , on Aug 5 , 2019						
Zero Gage at Bottom Elevation	442.30		m. (MSL.) ,			River Bed	442.30		m. (MSL.)				
Left Bank Elevation		446.84		m. (MSL.) ,									
Right Bank Elevation		445.49		m. (MSL.) ,		Drainage Are	136		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.40	1.30	0.90	4.20	2.50	0.90	0.84	0.78	0.16	0.30	0.29	
2	0.48	0.40	1.30	0.84	2.10	2.35	0.90	0.84	0.78	0.32	0.30	0.35	
3	0.44	0.40	1.30	0.90	1.50	2.50	0.90	0.84	0.78	0.32	0.30	0.35	
4	0.44	0.40	1.30	0.96	1.20	2.20	0.84	0.78	0.78	0.32	0.30	0.35	
5	0.44	0.40	1.30	0.84	4.20	2.00	0.96	0.78	0.78	0.32	0.30	0.35	
6	0.44	0.40	1.20	0.72	3.70	1.80	0.90	0.78	0.78	0.32	0.30	0.35	
7	0.44	0.40	1.20	0.84	2.20	1.70	0.90	0.78	0.78	0.32	0.30	0.35	
8	0.44	0.40	2.00	0.78	1.80	1.60	0.90	0.78	0.78	0.32	0.30	0.35	
9	0.44	0.40	1.14	0.78	1.60	1.60	0.90	0.78	0.78	0.32	0.30	0.35	
10	0.44	0.40	0.84	0.78	2.35	1.50	0.90	0.78	0.78	0.32	0.30	0.35	
11	0.44	0.40	0.90	0.84	1.90	1.60	0.96	0.78	0.78	0.32	0.29	0.39	
12	0.44	0.44	0.90	0.90	1.80	1.50	0.96	0.78	0.78	0.32	0.29	0.52	
13	0.44	1.70	0.90	0.66	2.35	1.30	0.90	0.78	0.78	0.32	0.29	0.52	
14	0.44	1.50	0.90	0.84	1.70	1.40	1.02	0.78	0.78	0.32	0.29	0.52	
15	0.44	1.20	0.84	1.40	1.80	1.50	1.14	0.78	0.78	0.32	0.29	0.52	
16	0.44	1.20	0.78	1.02	2.20	1.50	1.02	0.78	0.78	0.32	0.29	0.52	
17	0.40	0.96	0.96	1.02	2.20	1.50	1.02	0.78	0.78	0.32	0.29	0.52	
18	0.40	0.84	0.96	0.96	2.20	1.50	0.96	0.78	0.78	0.32	0.29	0.52	
19	0.40	0.60	0.96	0.96	2.20	1.40	0.84	0.78	0.78	0.32	0.29	0.52	
20	0.44	0.72	0.96	0.96	2.20	1.20	0.84	0.78	0.78	0.31	0.29	0.54	
21	0.44	0.96	0.90	1.02	2.20	1.14	0.84	0.78	0.78	0.31	0.28	0.59	
22	0.44	0.96	0.72	1.02	2.20	1.02	0.84	0.78	0.78	0.31	0.28	0.59	
23	0.44	0.90	0.60	0.96	2.65	1.02	0.84	0.78	0.78	0.31	0.28	0.59	
24	0.44	0.96	0.60	1.70	2.80	1.02	0.84	0.78	0.78	0.31	0.28	0.59	
25	0.44	0.90	0.66	2.00	2.35	0.96	0.78	0.78	0.78	0.31	0.28	0.59	
26	0.40	0.90	0.72	1.70	2.10	0.96	0.78	0.78	0.78	0.30	0.28	0.59	
27	0.40	0.90	0.56	3.10	2.20	0.96	0.78	0.78	0.78	0.30	0.28	0.59	
28	0.40	0.96	0.56	3.25	2.20	1.02	0.78	0.78	0.78	0.30	0.28	0.59	
29	0.40	1.08	0.66	1.80	1.90	0.90	0.78	0.78	0.78	0.30	0.28	0.59	
30	0.40	3.40	0.96	1.30	1.80	0.90	0.84	0.78	0.78	0.30		0.59	
31		1.70		2.00	2.20		0.84		0.78	0.30		0.59	
Total	12.92	27.18	28.88	37.75	70.00	44.05	27.60	23.58	24.18	9.58	8.42	15.02	329.16 CMSDAY
Mean	0.43	0.88	0.96	1.22	2.26	1.47	0.89	0.79	0.78	0.31	0.29	0.48	0.90 CMS
Max	0.48	3.40	2.00	3.25	4.20	2.50	1.14	0.84	0.78	0.32	0.30	0.59	4.20 CMS
Min	0.40	0.40	0.56	0.66	1.20	0.90	0.78	0.78	0.78	0.16	0.28	0.29	0.16 CMS
Runoff	1.12	2.35	2.50	3.26	6.05	3.81	2.38	2.04	2.09	0.83	0.73	1.30	28.44 MCM
Momentary Peak	19.39	CMS.	at 443.26 m. (MSL.)	at 10.00 Hours	, on Aug 5, 2019								
Runoff Yield	6.63	Liters/Second/Square KM.			Momentary Peak Yield	142.57	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

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

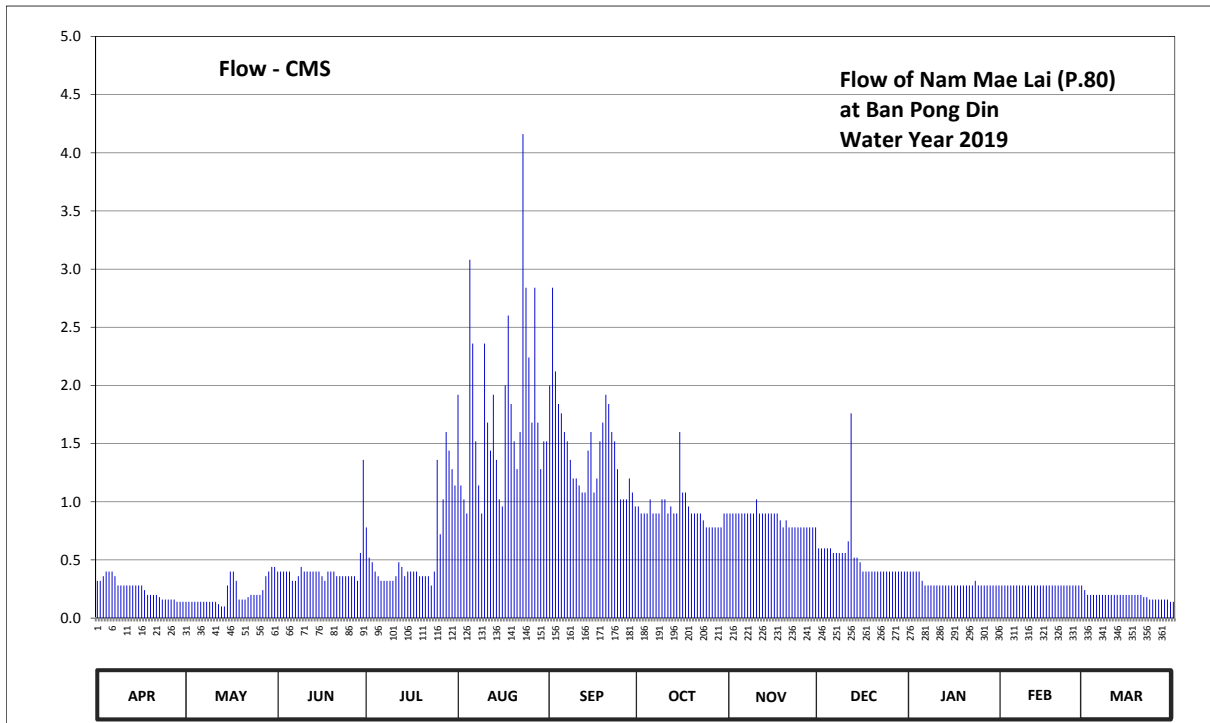
Lat 18 - 54 - 49 N Long 99 - 14 - 17 E

Location : on left bank at the bridge on road.

	<b>Ban Pong Din</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	129 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+455.096 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+462.021 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.43	455.37	455.45	455.53	455.69	455.70	455.56	455.55	455.50	455.45	455.42	455.41	
2	455.42	455.37	455.45	455.48	455.59	455.77	455.55	455.55	455.50	455.45	455.42	455.40	
3	455.44	455.37	455.45	455.47	455.57	455.71	455.55	455.55	455.50	455.45	455.42	455.40	
4	455.45	455.37	455.45	455.45	455.55	455.68	455.55	455.55	455.50	455.45	455.42	455.40	
5	455.45	455.37	455.45	455.44	455.79	455.67	455.57	455.55	455.50	455.43	455.42	455.40	
6	455.45	455.37	455.43	455.43	455.73	455.65	455.55	455.55	455.49	455.42	455.42	455.40	
7	455.44	455.37	455.43	455.43	455.64	455.64	455.55	455.55	455.49	455.42	455.42	455.40	
8	455.42	455.37	455.44	455.43	455.59	455.62	455.55	455.55	455.49	455.42	455.42	455.40	
9	455.42	455.37	455.46	455.43	455.55	455.60	455.57	455.55	455.49	455.42	455.42	455.40	
10	455.42	455.37	455.45	455.43	455.73	455.60	455.57	455.57	455.49	455.42	455.42	455.40	
11	455.42	455.37	455.45	455.44	455.66	455.59	455.55	455.55	455.51	455.42	455.42	455.40	
12	455.42	455.36	455.45	455.47	455.63	455.58	455.56	455.55	455.67	455.42	455.42	455.40	
13	455.42	455.35	455.45	455.46	455.69	455.58	455.55	455.55	455.48	455.42	455.42	455.40	
14	455.42	455.35	455.45	455.44	455.62	455.63	455.55	455.55	455.48	455.42	455.42	455.40	
15	455.42	455.42	455.45	455.45	455.57	455.65	455.65	455.55	455.47	455.42	455.42	455.40	
16	455.42	455.45	455.44	455.45	455.56	455.58	455.58	455.55	455.45	455.42	455.42	455.40	
17	455.41	455.45	455.43	455.45	455.70	455.60	455.58	455.55	455.45	455.42	455.42	455.40	
18	455.40	455.43	455.45	455.45	455.75	455.64	455.56	455.54	455.45	455.42	455.42	455.40	
19	455.40	455.38	455.45	455.44	455.68	455.66	455.55	455.53	455.45	455.42	455.42	455.40	
20	455.40	455.38	455.45	455.44	455.64	455.69	455.55	455.54	455.45	455.42	455.42	455.40	
21	455.40	455.38	455.44	455.44	455.61	455.68	455.55	455.53	455.45	455.42	455.42	455.39	
22	455.39	455.39	455.44	455.44	455.65	455.65	455.55	455.53	455.45	455.42	455.42	455.39	
23	455.38	455.40	455.44	455.42	455.86	455.64	455.54	455.53	455.45	455.43	455.42	455.38	
24	455.38	455.40	455.44	455.45	455.77	455.61	455.53	455.53	455.45	455.42	455.42	455.38	
25	455.38	455.40	455.44	455.62	455.72	455.57	455.53	455.53	455.45	455.42	455.42	455.38	
26	455.38	455.40	455.44	455.52	455.66	455.57	455.53	455.53	455.45	455.42	455.42	455.38	
27	455.38	455.41	455.44	455.57	455.77	455.57	455.53	455.53	455.45	455.42	455.42	455.38	
28	455.37	455.44	455.43	455.65	455.66	455.60	455.53	455.53	455.45	455.42	455.42	455.38	
29	455.37	455.45	455.49	455.63	455.61	455.58	455.53	455.53	455.45	455.42	455.42	455.38	
30	455.37	455.46	455.62	455.61	455.64	455.56	455.55	455.53	455.45	455.42	455.42	455.37	
31		455.46		455.59	455.64		455.55		455.45	455.42		455.37	
Mean	455.41	455.39	455.45	455.48	455.66	455.63	455.55	455.54	455.48	455.42	455.42	455.39	
Max	455.45	455.46	455.62	455.65	455.86	455.77	455.65	455.57	455.67	455.45	455.42	455.41	455.86
Min	455.37	455.35	455.43	455.42	455.55	455.56	455.53	455.53	455.45	455.42	455.42	455.37	455.35
Annual Max Momentary Gage Height	456.28		m. (MSL.) ,			at 10.00 Hours ,							
Zero Gage at Bottom Elevation	455.10		m. (MSL.) ,			River Bed	455.03		m. (MSL.)				
Left Bank Elevation	461.80		m. (MSL.) ,										
Right Bank Elevation	461.78		m. (MSL.) ,			Drainage Are	129		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.14	0.40	0.78	1.92	2.00	0.96	0.90	0.60	0.40	0.28	0.24	
2	0.32	0.14	0.40	0.52	1.14	2.84	0.90	0.90	0.60	0.40	0.28	0.20	
3	0.36	0.14	0.40	0.48	1.02	2.12	0.90	0.90	0.60	0.40	0.28	0.20	
4	0.40	0.14	0.40	0.40	0.90	1.84	0.90	0.90	0.60	0.40	0.28	0.20	
5	0.40	0.14	0.40	0.36	3.08	1.76	1.02	0.90	0.60	0.32	0.28	0.20	
6	0.40	0.14	0.32	0.32	2.36	1.60	0.90	0.90	0.56	0.28	0.28	0.20	
7	0.36	0.14	0.32	0.32	1.52	1.52	0.90	0.90	0.56	0.28	0.28	0.20	
8	0.28	0.14	0.36	0.32	1.14	1.36	0.90	0.90	0.56	0.28	0.28	0.20	
9	0.28	0.14	0.44	0.32	0.90	1.20	1.02	0.90	0.56	0.28	0.28	0.20	
10	0.28	0.14	0.40	0.32	2.36	1.20	1.02	1.02	0.56	0.28	0.28	0.20	
11	0.28	0.14	0.40	0.36	1.68	1.14	0.90	0.90	0.66	0.28	0.28	0.20	
12	0.28	0.12	0.40	0.48	1.44	1.08	0.96	0.90	1.76	0.28	0.28	0.20	
13	0.28	0.10	0.40	0.44	1.92	1.08	0.90	0.90	0.52	0.28	0.28	0.20	
14	0.28	0.10	0.40	0.36	1.36	1.44	0.90	0.90	0.52	0.28	0.28	0.20	
15	0.28	0.28	0.40	0.40	1.02	1.60	1.60	0.90	0.48	0.28	0.28	0.20	
16	0.28	0.40	0.36	0.40	0.96	1.08	1.08	0.90	0.40	0.28	0.28	0.20	
17	0.24	0.40	0.32	0.40	2.00	1.20	1.08	0.90	0.40	0.28	0.28	0.20	
18	0.20	0.32	0.40	0.40	2.60	1.52	0.96	0.84	0.40	0.28	0.28	0.20	
19	0.20	0.16	0.40	0.36	1.84	1.68	0.90	0.78	0.40	0.28	0.28	0.20	
20	0.20	0.16	0.40	0.36	1.52	1.92	0.90	0.84	0.40	0.28	0.28	0.20	
21	0.20	0.16	0.36	0.36	1.28	1.84	0.90	0.78	0.40	0.28	0.28	0.18	
22	0.18	0.18	0.36	0.36	1.60	1.60	0.90	0.78	0.40	0.28	0.28	0.18	
23	0.16	0.20	0.36	0.28	4.16	1.52	0.84	0.78	0.40	0.32	0.28	0.16	
24	0.16	0.20	0.36	0.40	2.84	1.28	0.78	0.78	0.40	0.28	0.28	0.16	
25	0.16	0.20	0.36	1.36	2.24	1.02	0.78	0.78	0.40	0.28	0.28	0.16	
26	0.16	0.20	0.36	0.72	1.68	1.02	0.78	0.78	0.40	0.28	0.28	0.16	
27	0.16	0.24	0.36	1.02	2.84	1.02	0.78	0.78	0.40	0.28	0.28	0.16	
28	0.14	0.36	0.32	1.60	1.68	1.20	0.78	0.78	0.40	0.28	0.28	0.16	
29	0.14	0.40	0.56	1.44	1.28	1.08	0.78	0.78	0.40	0.28	0.28	0.16	
30	0.14	0.44	1.36	1.28	1.52	0.96	0.90	0.78	0.40	0.28		0.14	
31		0.44		1.14	1.52		0.90		0.40	0.28		0.14	
<b>Total</b>	7.52	6.60	12.48	18.06	55.32	43.72	28.72	25.68	16.14	9.24	8.12	5.80	237.40 CMSDAY
<b>Mean</b>	0.25	0.21	0.42	0.58	1.78	1.46	0.93	0.86	0.52	0.30	0.28	0.19	0.65 CMS
<b>Max</b>	0.40	0.44	1.36	1.60	4.16	2.84	1.60	1.02	1.76	0.40	0.28	0.24	4.16 CMS
<b>Min</b>	0.14	0.10	0.32	0.28	0.90	0.96	0.78	0.78	0.40	0.28	0.28	0.14	0.10 CMS
<b>Runoff</b>	0.65	0.57	1.08	1.56	4.78	3.78	2.48	2.22	1.39	0.80	0.70	0.50	20.51 MCM
<b>Momentary Peak</b>	13.40 CMS. at 456.28 m. (MSL.) at 10.00 Hours , on Aug 23 , 2019												
<b>Runoff Yield</b>	5.05 Liters/Second/Square KM.			Momentary Peak Yield 104.13 Liters/Second/Square KM.									

**WATER YEAR : 2019****PING RIVER BASIN****Nam Mae Kuang at Ban Pong , Chiang Mai (P.81)**

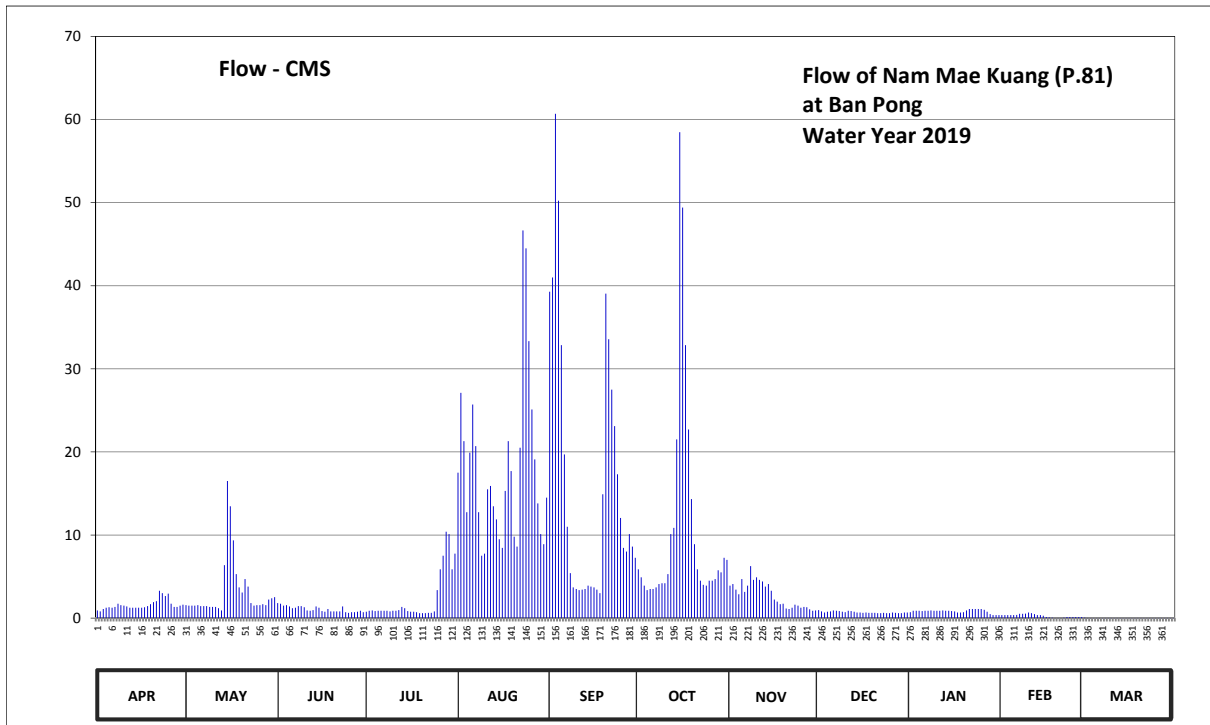
Lat 18 - 41 - 37 N Long 99 - 04 - 55 E

Location : on right bank at Ban Pong.

	<b>Ban Pong</b>	<b>Amphoe</b>	San Kamphaeng	<b>Changwat</b>	Chiang Mai
<b>Drainage Area</b>	1,190	sq.km.			
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+289.919 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank at the abutment of the bridge.			<b>Elevation</b>	+295.749 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	2002 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2002 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	2002 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2019.				

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.78	290.91	290.95	290.74	292.15	293.17	291.43	291.24	290.79	290.73	290.62	290.46	
2	290.75	290.90	290.94	290.77	292.63	293.24	291.34	291.26	290.75	290.77	290.62	290.42	
3	290.82	290.90	290.90	290.78	292.34	293.97	291.24	291.19	290.72	290.77	290.62	290.42	
4	290.85	290.90	290.91	290.76	291.90	293.59	291.18	291.11	290.74	290.77	290.62	290.42	
5	290.86	290.91	290.88	290.77	292.27	292.90	291.20	291.32	290.75	290.76	290.62	290.42	
6	290.85	290.89	290.84	290.77	292.56	292.29	291.20	291.15	290.78	290.77	290.63	290.42	
7	290.87	290.89	290.85	290.77	292.31	291.80	291.22	291.24	290.77	290.77	290.67	290.42	
8	290.94	290.89	290.89	290.77	291.90	291.39	291.26	291.46	290.76	290.78	290.67	290.42	
9	290.91	290.87	290.89	290.75	291.56	291.22	291.27	291.31	290.74	290.77	290.68	290.42	
10	290.90	290.87	290.86	290.77	291.58	291.20	291.27	291.34	290.73	290.77	290.72	290.42	
11	290.88	290.87	290.78	290.77	292.05	291.18	291.38	291.31	290.77	290.77	290.70	290.42	
12	290.85	290.84	290.77	290.79	292.07	291.19	291.74	291.29	290.76	290.78	290.66	290.42	
13	290.85	290.78	290.79	290.87	291.94	291.20	291.79	291.23	290.74	290.77	290.62	290.42	
14	290.85	291.47	290.88	290.84	291.85	291.24	292.35	291.26	290.72	290.77	290.62	290.42	
15	290.85	292.10	290.85	290.76	291.70	291.23	293.89	291.17	290.72	290.76	290.59	290.42	
16	290.85	291.94	290.76	290.74	291.63	291.22	293.56	291.02	290.71	290.75	290.52	290.42	
17	290.86	291.69	290.74	290.74	292.04	291.19	292.90	290.98	290.72	290.72	290.50	290.42	
18	290.89	291.38	290.82	290.73	292.34	291.13	292.41	290.93	290.71	290.72	290.46	290.42	
19	290.93	291.22	290.75	290.70	292.16	292.02	291.99	290.94	290.71	290.73	290.42	290.42	
20	290.97	291.14	290.75	290.70	291.72	293.16	291.66	290.83	290.71	290.78	290.42	290.42	
21	290.99	291.32	290.75	290.70	291.64	292.93	291.43	290.82	290.70	290.82	290.42	290.42	
22	291.17	291.23	290.75	290.71	292.30	292.65	291.30	290.85	290.70	290.82	290.45	290.42	
23	291.13	290.95	290.88	290.71	293.46	292.43	291.25	290.92	290.71	290.82	290.52	290.42	
24	291.08	290.90	290.73	290.75	293.38	292.14	291.24	290.90	290.70	290.82	290.52	290.42	
25	291.12	290.91	290.71	291.18	292.92	291.86	291.30	290.85	290.70	290.82	290.52	290.42	
26	290.94	290.91	290.73	291.43	292.53	291.63	291.30	290.87	290.72	290.80	290.52	290.42	
27	290.87	290.93	290.73	291.56	292.23	291.60	291.32	290.86	290.71	290.74	290.52	290.42	
28	290.87	290.91	290.74	291.76	291.96	291.74	291.42	290.81	290.70	290.66	290.52	290.42	
29	290.90	291.02	290.77	291.74	291.74	291.64	291.40	290.77	290.70	290.62	290.52	290.42	
30	290.92	291.04	290.73	291.43	291.66	291.54	291.54	290.78	290.72	290.62	290.62	290.42	
31		291.06		291.58	292.00		291.52		290.72	290.62		290.42	
Mean	290.91	291.08	290.81	290.93	292.15	291.99	291.65	291.07	290.73	290.75	290.57	290.42	
Max	291.17	292.10	290.95	291.76	293.46	293.97	293.89	291.46	290.79	290.82	290.72	290.46	293.97
Min	290.75	290.78	290.71	290.70	291.56	291.13	291.18	290.77	290.70	290.62	290.42	290.42	290.42
Annual Max Momentary Gage Height	294.05		m. (MSL.) ,			at 14.00 Hours ,	on Sep 3 , 2019						
Zero Gage at Bottom Elevation	289.92		m. (MSL.) ,			River Bed	290.12	m. (MSL.)					
Left Bank Elevation	296.85		m. (MSL.) ,										
Right Bank Elevation	296.86		m. (MSL.) ,			Drainage Are	1,190	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	1.56	1.80	0.76	17.50	39.28	5.88	3.90	0.96	0.72	0.36	0.06	
2	0.80	1.50	1.74	0.88	27.10	41.00	4.90	4.10	0.80	0.88	0.36	0.02	
3	1.10	1.50	1.50	0.92	21.30	60.68	3.90	3.43	0.68	0.88	0.36	0.02	
4	1.25	1.50	1.56	0.84	12.75	50.23	3.36	2.87	0.76	0.88	0.36	0.02	
5	1.30	1.56	1.40	0.88	19.90	32.85	3.50	4.70	0.80	0.84	0.36	0.02	
6	1.25	1.45	1.20	0.88	25.70	19.70	3.50	3.15	0.92	0.88	0.39	0.02	
7	1.35	1.45	1.25	0.88	20.70	11.00	3.70	3.90	0.88	0.88	0.51	0.02	
8	1.74	1.45	1.45	0.88	12.75	5.40	4.10	6.25	0.84	0.92	0.51	0.02	
9	1.56	1.35	1.45	0.80	7.50	3.70	4.20	4.60	0.76	0.88	0.54	0.02	
10	1.50	1.35	1.30	0.88	7.75	3.50	4.20	4.90	0.72	0.88	0.68	0.02	
11	1.40	1.35	0.92	0.88	15.50	3.36	5.30	4.60	0.88	0.88	0.60	0.02	
12	1.25	1.20	0.88	0.96	15.90	3.43	10.10	4.40	0.84	0.92	0.48	0.02	
13	1.25	0.92	0.96	1.35	13.45	3.50	10.85	3.80	0.76	0.88	0.36	0.02	
14	1.25	6.38	1.40	1.20	11.88	3.90	21.50	4.10	0.68	0.88	0.36	0.02	
15	1.25	16.50	1.25	0.84	9.50	3.80	58.48	3.29	0.68	0.84	0.28	0.02	
16	1.25	13.45	0.84	0.76	8.45	3.70	49.40	2.24	0.64	0.80	0.14	0.02	
17	1.30	9.35	0.76	0.76	15.30	3.43	32.85	1.98	0.68	0.68	0.10	0.02	
18	1.45	5.30	1.10	0.72	21.30	3.01	22.70	1.68	0.64	0.68	0.06	0.02	
19	1.68	3.70	0.80	0.60	17.70	14.90	14.33	1.74	0.64	0.72	0.02	0.02	
20	1.92	3.08	0.80	0.60	9.80	39.04	8.90	1.15	0.64	0.92	0.02	0.02	
21	2.04	4.70	0.80	0.60	8.60	33.56	5.88	1.10	0.60	1.10	0.02	0.02	
22	3.29	3.80	0.80	0.64	20.50	27.50	4.50	1.25	0.60	1.10	0.05	0.02	
23	3.01	1.80	1.40	0.64	46.65	23.10	4.00	1.62	0.64	1.10	0.14	0.02	
24	2.66	1.50	0.72	0.80	44.50	17.30	3.90	1.50	0.60	1.10	0.14	0.02	
25	2.94	1.56	0.64	3.36	33.32	12.05	4.50	1.25	0.60	1.10	0.14	0.02	
26	1.74	1.56	0.72	5.88	25.10	8.45	4.50	1.35	0.68	1.00	0.14	0.02	
27	1.35	1.68	0.72	7.50	19.10	8.00	4.70	1.30	0.64	0.76	0.14	0.02	
28	1.35	1.56	0.76	10.40	13.80	10.10	5.75	1.05	0.60	0.48	0.14	0.02	
29	1.50	2.24	0.88	10.10	10.10	8.60	5.50	0.88	0.60	0.36	0.14	0.02	
30	1.62	2.38	0.72	5.88	8.90	7.25	7.25	0.92	0.68	0.36		0.02	
31		2.52		7.75	14.50		7.00		0.68	0.36		0.02	
<b>Total</b>	<b>48.27</b>	<b>101.20</b>	<b>32.52</b>	<b>70.82</b>	<b>556.80</b>	<b>505.32</b>	<b>333.13</b>	<b>83.00</b>	<b>22.12</b>	<b>25.66</b>	<b>7.90</b>	<b>0.66</b>	<b>1787.40</b> CMSDAY
<b>Mean</b>	<b>1.61</b>	<b>3.26</b>	<b>1.08</b>	<b>2.28</b>	<b>17.96</b>	<b>16.84</b>	<b>10.75</b>	<b>2.77</b>	<b>0.71</b>	<b>0.83</b>	<b>0.27</b>	<b>0.02</b>	<b>4.88</b> CMS
<b>Max</b>	<b>3.29</b>	<b>16.50</b>	<b>1.80</b>	<b>10.40</b>	<b>46.65</b>	<b>60.68</b>	<b>58.48</b>	<b>6.25</b>	<b>0.96</b>	<b>1.10</b>	<b>0.68</b>	<b>0.06</b>	<b>60.68</b> CMS
<b>Min</b>	<b>0.80</b>	<b>0.92</b>	<b>0.64</b>	<b>0.60</b>	<b>7.50</b>	<b>3.01</b>	<b>3.36</b>	<b>0.88</b>	<b>0.60</b>	<b>0.36</b>	<b>0.02</b>	<b>0.02</b>	<b>0.02</b> CMS
<b>Runoff</b>	<b>4.17</b>	<b>8.74</b>	<b>2.81</b>	<b>6.12</b>	<b>48.11</b>	<b>43.66</b>	<b>28.78</b>	<b>7.17</b>	<b>1.91</b>	<b>2.22</b>	<b>0.68</b>	<b>0.06</b>	<b>154.43</b> MCM
<b>Momentary Peak</b>	<b>63.00 CMS. at 294.05 m. (MSL.) at 14.00 Hours , on Sep 3 , 2019</b>												
<b>Runoff Yield</b>	<b>4.12 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>52.94 Liters/Second/Square KM.</b>					

## WATER YEAR : 2019

## PING RIVER BASIN

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

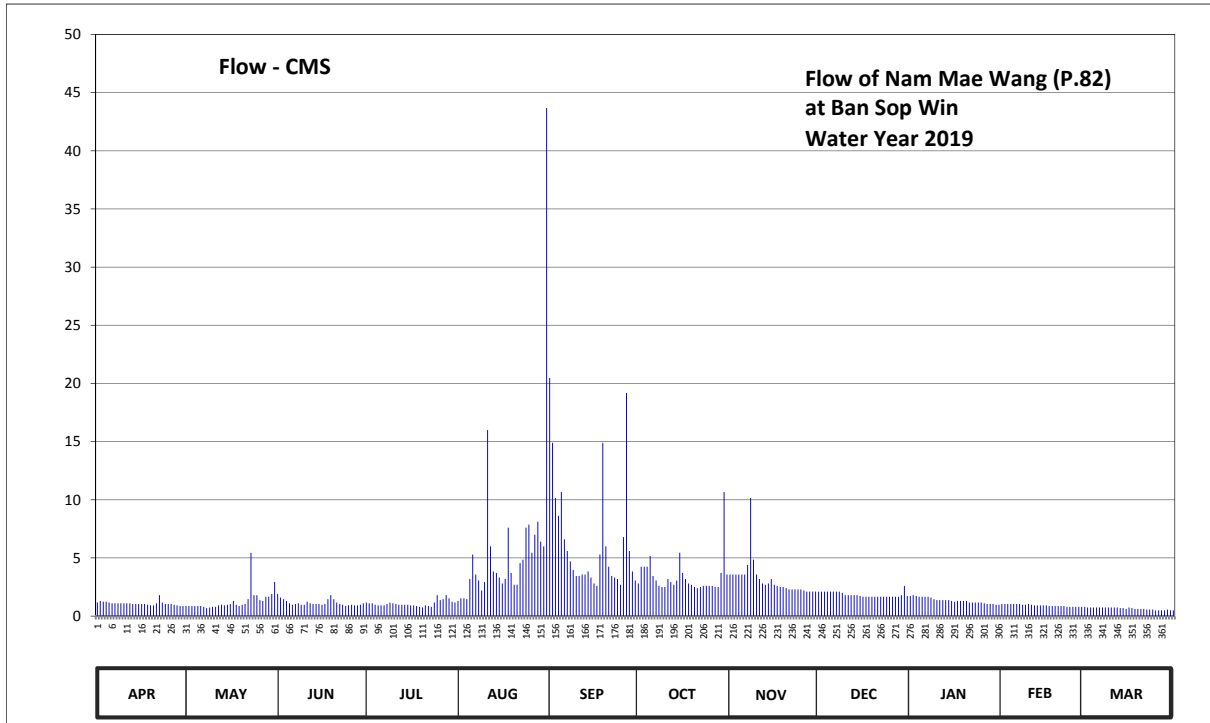
Lat 18 - 39 - 06 N Long 98 - 41 - 23 E

Location : on left bank at Ban Sop Win.

	<b>Ban Sop Win</b>	<b>Amphoe Mae Wang</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	389 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+400.196 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5.00 meters from the top staff gage.	<b>Elevation</b>	+406.756 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable by some scouring.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	400.71	400.66	400.81	400.71	400.73	401.67	400.90	400.96	400.83	400.79	400.69	400.65	
2	400.73	400.66	400.77	400.70	400.76	401.48	401.01	400.96	400.83	400.80	400.69	400.64	
3	400.72	400.66	400.75	400.70	400.76	401.30	401.01	400.96	400.83	400.79	400.69	400.64	
4	400.72	400.66	400.73	400.68	400.75	401.24	401.01	400.96	400.83	400.78	400.69	400.64	
5	400.71	400.66	400.70	400.67	400.93	401.32	401.07	400.96	400.83	400.78	400.69	400.64	
6	400.70	400.66	400.68	400.67	401.08	401.15	400.95	400.96	400.83	400.78	400.69	400.64	
7	400.70	400.65	400.69	400.67	400.96	401.10	400.92	401.02	400.83	400.78	400.69	400.64	
8	400.70	400.63	400.70	400.69	400.92	401.04	400.88	401.30	400.83	400.77	400.68	400.64	
9	400.70	400.64	400.68	400.71	400.84	400.99	400.87	401.05	400.82	400.75	400.68	400.64	
10	400.70	400.65	400.68	400.70	400.91	400.95	400.87	400.96	400.80	400.74	400.69	400.64	
11	400.70	400.65	400.72	400.69	401.52	400.95	400.93	400.93	400.80	400.74	400.68	400.64	
12	400.70	400.67	400.70	400.68	401.12	400.96	400.91	400.90	400.80	400.74	400.67	400.64	
13	400.69	400.68	400.69	400.68	400.98	400.96	400.89	400.89	400.80	400.74	400.67	400.63	
14	400.69	400.67	400.69	400.68	400.97	400.98	400.92	400.90	400.80	400.74	400.67	400.63	
15	400.69	400.68	400.69	400.68	400.94	400.94	401.09	400.93	400.79	400.73	400.67	400.62	
16	400.69	400.69	400.68	400.67	400.90	400.90	400.97	400.89	400.78	400.72	400.67	400.64	
17	400.69	400.73	400.69	400.67	400.93	400.88	400.93	400.88	400.78	400.73	400.66	400.63	
18	400.68	400.68	400.75	400.66	401.20	401.08	400.90	400.87	400.78	400.73	400.66	400.62	
19	400.67	400.66	400.80	400.65	400.97	401.48	400.89	400.87	400.78	400.73	400.66	400.62	
20	400.67	400.68	400.75	400.64	400.89	401.12	400.87	400.86	400.78	400.73	400.66	400.62	
21	400.70	400.69	400.72	400.67	400.89	401.01	400.86	400.85	400.78	400.71	400.66	400.62	
22	400.80	400.75	400.69	400.66	401.03	400.95	400.87	400.85	400.78	400.71	400.66	400.61	
23	400.71	401.09	400.68	400.65	401.05	400.94	400.88	400.85	400.78	400.71	400.65	400.61	
24	400.69	400.80	400.66	400.71	401.20	400.93	400.88	400.85	400.78	400.71	400.65	400.61	
25	400.69	400.80	400.67	400.80	401.21	400.89	400.88	400.85	400.78	400.71	400.65	400.60	
26	400.69	400.74	400.68	400.74	401.09	401.16	400.88	400.84	400.78	400.70	400.65	400.60	
27	400.68	400.73	400.67	400.75	401.17	401.63	400.87	400.83	400.78	400.69	400.65	400.60	
28	400.67	400.78	400.67	400.80	401.22	401.10	400.87	400.83	400.78	400.69	400.65	400.60	
29	400.66	400.78	400.68	400.76	401.14	400.98	400.97	400.83	400.80	400.69	400.65	400.61	
30	400.66	400.81	400.70	400.72	401.12	400.92	401.32	400.83	400.88	400.68	400.68	400.60	
31		400.91		400.71	402.31		400.96		400.79	400.68		400.60	
Mean	400.70	400.72	400.71	400.70	401.05	401.10	400.94	400.91	400.80	400.73	400.67	400.62	
Max	400.80	401.09	400.81	400.80	402.31	401.67	401.32	401.30	400.88	400.80	400.69	400.65	402.31
Min	400.66	400.63	400.66	400.64	400.73	400.88	400.86	400.83	400.78	400.68	400.65	400.60	400.60
Annual Max Momentary Gage Height	403.03		m. (MSL.) ,			at 15.00 Hours ,							
Zero Gage at Bottom Elevation	400.20		m. (MSL.) ,			River Bed	400.01	m. (MSL.)					
Left Bank Elevation		407.50		m. (MSL.) ,									
Right Bank Elevation		407.59		m. (MSL.) ,		Drainage Are	389	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.17	0.86	1.90	1.17	1.31	20.48	2.80	3.58	2.10	1.73	1.04	0.80	
2	1.31	0.86	1.59	1.10	1.52	14.90	4.25	3.58	2.10	1.80	1.04	0.74	
3	1.24	0.86	1.45	1.10	1.52	10.15	4.25	3.58	2.10	1.73	1.04	0.74	
4	1.24	0.86	1.31	0.98	1.45	8.62	4.25	3.58	2.10	1.66	1.04	0.74	
5	1.17	0.86	1.10	0.92	3.19	10.66	5.15	3.58	2.10	1.66	1.04	0.74	
6	1.10	0.86	0.98	0.92	5.30	6.60	3.45	3.58	2.10	1.66	1.04	0.74	
7	1.10	0.80	1.04	0.92	3.58	5.60	3.06	4.40	2.10	1.66	1.04	0.74	
8	1.10	0.68	1.10	1.04	3.06	4.70	2.60	10.15	2.10	1.59	0.98	0.74	
9	1.10	0.74	0.98	1.17	2.20	3.97	2.50	4.85	2.00	1.45	0.98	0.74	
10	1.10	0.80	0.98	1.10	2.93	3.45	2.50	3.58	1.80	1.38	1.04	0.74	
11	1.10	0.80	1.24	1.04	16.00	3.45	3.19	3.19	1.80	1.38	0.98	0.74	
12	1.10	0.92	1.10	0.98	6.00	3.58	2.93	2.80	1.80	1.38	0.92	0.74	
13	1.04	0.98	1.04	0.98	3.84	3.58	2.70	2.70	1.80	1.38	0.92	0.68	
14	1.04	0.92	1.04	0.98	3.71	3.84	3.06	2.80	1.80	1.38	0.92	0.68	
15	1.04	0.98	1.04	0.98	3.32	3.32	5.45	3.19	1.73	1.31	0.92	0.62	
16	1.04	1.04	0.98	0.92	2.80	2.80	3.71	2.70	1.66	1.24	0.92	0.74	
17	1.04	1.31	1.04	0.92	3.19	2.60	3.19	2.60	1.66	1.31	0.86	0.68	
18	0.98	0.98	1.45	0.86	7.60	5.30	2.80	2.50	1.66	1.31	0.86	0.62	
19	0.92	0.86	1.80	0.80	3.71	14.90	2.70	2.50	1.66	1.31	0.86	0.62	
20	0.92	0.98	1.45	0.74	2.70	6.00	2.50	2.40	1.66	1.31	0.86	0.62	
21	1.10	1.04	1.17	0.92	2.70	4.25	2.40	2.30	1.66	1.17	0.86	0.62	
22	1.80	1.45	1.04	0.86	4.55	3.45	2.50	2.30	1.66	1.17	0.86	0.56	
23	1.17	5.45	0.98	0.80	4.85	3.32	2.60	2.30	1.66	1.17	0.80	0.56	
24	1.04	1.80	0.86	1.17	7.60	3.19	2.60	2.30	1.66	1.17	0.80	0.56	
25	1.04	1.80	0.92	1.80	7.86	2.70	2.60	2.30	1.66	1.17	0.80	0.50	
26	1.04	1.38	0.98	1.38	5.45	6.80	2.60	2.20	1.66	1.10	0.80	0.50	
27	0.98	1.31	0.92	1.45	7.00	19.18	2.50	2.10	1.66	1.04	0.80	0.50	
28	0.92	1.66	0.92	1.80	8.11	5.60	2.50	2.10	1.66	1.04	0.80	0.50	
29	0.86	1.66	0.98	1.52	6.40	3.84	3.71	2.10	1.80	1.04	0.80	0.56	
30	0.86	1.90	1.10	1.24	6.00	3.06	10.66	2.10	2.60	0.98		0.50	
31		2.93		1.17	43.68		3.58		1.73	0.98		0.50	
<b>Total</b>	32.66	40.33	34.48	33.73	183.13	193.89	105.29	93.94	57.24	41.66	26.62	20.06	863.03 CMSDAY
<b>Mean</b>	1.09	1.30	1.15	1.09	5.91	6.46	3.40	3.13	1.85	1.34	0.92	0.65	2.36 CMS
<b>Max</b>	1.80	5.45	1.90	1.80	43.68	20.48	10.66	10.15	2.60	1.80	1.04	0.80	43.68 CMS
<b>Min</b>	0.86	0.68	0.86	0.74	1.31	2.60	2.40	2.10	1.66	0.98	0.80	0.50	0.50 CMS
<b>Runoff</b>	2.82	3.48	2.98	2.91	15.82	16.75	9.10	8.12	4.95	3.60	2.30	1.73	74.57 MCM
<b>Momentary Peak</b>	79.23 CMS. at 403.03 m. (MSL.) at 15.00 Hours , on Aug 31 , 2019												
<b>Runoff Yield</b>	6.08 Liters/Second/Square KM.			Momentary Peak Yield 203.68 Liters/Second/Square KM.									



## WATER YEAR : 2019

## PING RIVER BASIN

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

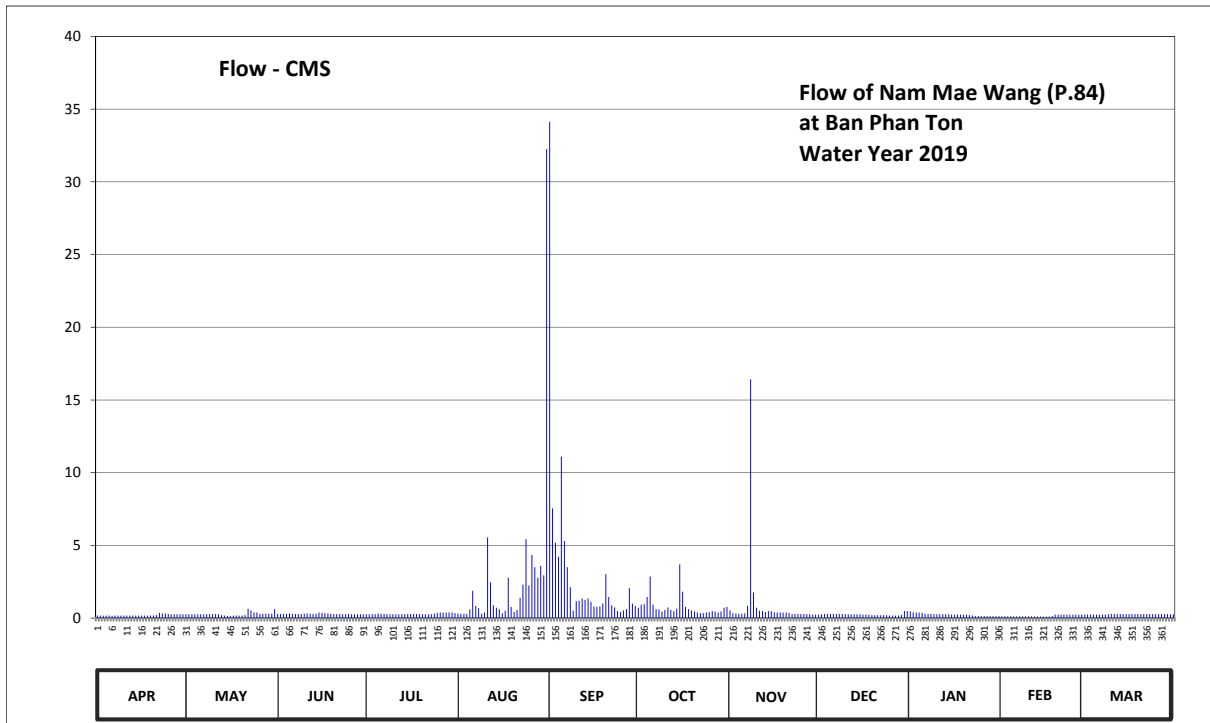
Lat 18 - 35 - 19 N Long 98 - 47 - 58 E

Location : on left bank at Ban Phan Ton.

	<b>Ban</b>	<b>Phan Ton</b>	<b>Amphoe</b>	<b>Mae Wang</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	503	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+303.244 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+309.244 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2003 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.21	303.27	303.30	303.27	303.31	305.45	303.47	303.41	303.26	303.38	303.18	303.26	
2	303.21	303.27	303.29	303.27	303.30	304.27	303.53	303.32	303.27	303.35	303.18	303.26	
3	303.21	303.27	303.29	303.27	303.29	304.09	303.54	303.31	303.29	303.34	303.17	303.26	
4	303.21	303.27	303.30	303.28	303.29	304.01	303.65	303.30	303.29	303.34	303.17	303.26	
5	303.21	303.27	303.31	303.31	303.43	304.48	303.87	303.30	303.29	303.33	303.17	303.26	
6	303.20	303.27	303.30	303.30	303.73	304.10	303.53	303.31	303.29	303.30	303.17	303.26	
7	303.21	303.27	303.29	303.29	303.51	303.94	303.44	303.51	303.29	303.29	303.17	303.26	
8	303.21	303.28	303.29	303.28	303.46	303.77	303.43	304.73	303.29	303.29	303.17	303.26	
9	303.21	303.28	303.29	303.27	303.30	303.40	303.38	303.71	303.29	303.28	303.17	303.27	
10	303.21	303.28	303.30	303.27	303.34	303.59	303.42	303.47	303.27	303.27	303.17	303.29	
11	303.21	303.28	303.31	303.27	304.12	303.60	303.48	303.40	303.27	303.27	303.17	303.29	
12	303.21	303.27	303.30	303.27	303.82	303.63	303.42	303.39	303.27	303.27	303.16	303.29	
13	303.21	303.23	303.29	303.27	303.52	303.61	303.39	303.36	303.27	303.27	303.16	303.29	
14	303.21	303.22	303.30	303.28	303.47	303.63	303.45	303.39	303.27	303.27	303.16	303.29	
15	303.21	303.20	303.34	303.29	303.44	303.58	303.96	303.39	303.27	303.26	303.16	303.28	
16	303.21	303.20	303.33	303.29	303.32	303.50	303.72	303.35	303.26	303.26	303.16	303.28	
17	303.21	303.21	303.32	303.29	303.40	303.49	303.49	303.34	303.26	303.26	303.16	303.28	
18	303.21	303.21	303.31	303.29	303.86	303.50	303.44	303.34	303.26	303.26	303.19	303.28	
19	303.21	303.21	303.30	303.28	303.49	303.55	303.41	303.34	303.24	303.26	303.26	303.28	
20	303.21	303.21	303.29	303.27	303.36	303.89	303.38	303.34	303.23	303.26	303.26	303.28	
21	303.24	303.24	303.28	303.27	303.42	303.65	303.34	303.33	303.23	303.24	303.26	303.28	
22	303.33	303.45	303.28	303.27	303.64	303.52	303.32	303.29	303.23	303.21	303.26	303.28	
23	303.31	303.41	303.28	303.28	303.80	303.48	303.32	303.29	303.23	303.19	303.26	303.28	
24	303.31	303.35	303.28	303.31	304.11	303.39	303.34	303.29	303.23	303.19	303.26	303.28	
25	303.30	303.34	303.29	303.33	303.79	303.36	303.36	303.29	303.22	303.19	303.26	303.28	
26	303.27	303.30	303.27	303.34	304.02	303.41	303.39	303.29	303.21	303.19	303.26	303.28	
27	303.27	303.30	303.27	303.34	303.94	303.44	303.38	303.28	303.21	303.19	303.26	303.28	
28	303.27	303.31	303.27	303.34	303.86	303.76	303.35	303.27	303.21	303.19	303.26	303.28	
29	303.27	303.30	303.27	303.34	303.95	303.55	303.38	303.26	303.25	303.19	303.26	303.28	
30	303.27	303.30	303.27	303.34	303.88	303.51	303.47	303.26	303.39	303.18		303.27	
31		303.44		303.32	305.39		303.49		303.39	303.18		303.27	
Mean	303.23	303.28	303.29	303.29	303.66	303.74	303.47	303.40	303.27	303.26	303.20	303.28	
Max	303.33	303.45	303.34	303.34	305.39	305.45	303.96	304.73	303.39	303.38	303.26	303.29	305.45
Min	303.20	303.20	303.27	303.27	303.29	303.36	303.32	303.26	303.21	303.18	303.16	303.26	303.16
Annual Max Momentary Gage Height	306.77		m. (MSL.) ,				at 19.00 Hours ,						on Aug 31 , 2019
Zero Gage at Bottom Elevation	303.24		m. (MSL.) ,			River Bed	303.00	m. (MSL.)					
Left Bank Elevation		309.07		m. (MSL.) ,									
Right Bank Elevation		309.08		m. (MSL.) ,		Drainage Are	503	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.26	0.30	0.26	0.32	34.13	0.71	0.53	0.24	0.46	0.13	0.24	
2	0.17	0.26	0.29	0.26	0.30	7.55	0.92	0.34	0.26	0.40	0.13	0.24	
3	0.17	0.26	0.29	0.26	0.29	5.18	0.96	0.32	0.29	0.38	0.12	0.24	
4	0.17	0.26	0.30	0.27	0.29	4.22	1.45	0.30	0.29	0.38	0.12	0.24	
5	0.17	0.26	0.32	0.32	0.59	11.10	2.86	0.30	0.29	0.36	0.12	0.24	
6	0.15	0.26	0.30	0.30	1.88	5.30	0.92	0.32	0.29	0.30	0.12	0.24	
7	0.17	0.26	0.29	0.29	0.84	3.50	0.62	0.84	0.29	0.29	0.12	0.24	
8	0.17	0.27	0.29	0.27	0.68	2.12	0.59	16.43	0.29	0.29	0.12	0.24	
9	0.17	0.27	0.29	0.26	0.30	0.50	0.46	1.76	0.29	0.27	0.12	0.26	
10	0.17	0.27	0.30	0.26	0.38	1.16	0.56	0.71	0.26	0.26	0.12	0.29	
11	0.17	0.27	0.32	0.26	5.54	1.20	0.74	0.50	0.26	0.26	0.12	0.29	
12	0.17	0.26	0.30	0.26	2.46	1.35	0.56	0.48	0.26	0.26	0.11	0.29	
13	0.17	0.20	0.29	0.26	0.88	1.25	0.48	0.42	0.26	0.26	0.11	0.29	
14	0.17	0.18	0.30	0.27	0.71	1.35	0.65	0.48	0.26	0.26	0.11	0.29	
15	0.17	0.15	0.38	0.29	0.62	1.12	3.70	0.48	0.26	0.24	0.11	0.27	
16	0.17	0.15	0.36	0.29	0.34	0.80	1.82	0.40	0.24	0.24	0.11	0.27	
17	0.17	0.17	0.34	0.29	0.50	0.77	0.77	0.38	0.24	0.24	0.11	0.27	
18	0.17	0.17	0.32	0.29	2.78	0.80	0.62	0.38	0.24	0.24	0.14	0.27	
19	0.17	0.17	0.30	0.27	0.77	1.00	0.53	0.38	0.21	0.24	0.24	0.27	
20	0.17	0.17	0.29	0.26	0.42	3.02	0.46	0.38	0.20	0.24	0.24	0.27	
21	0.21	0.21	0.27	0.26	0.56	1.45	0.38	0.36	0.20	0.21	0.24	0.27	
22	0.36	0.65	0.27	0.26	1.40	0.88	0.34	0.29	0.20	0.17	0.24	0.27	
23	0.32	0.53	0.27	0.27	2.30	0.74	0.34	0.29	0.20	0.14	0.24	0.27	
24	0.32	0.40	0.27	0.32	5.42	0.48	0.38	0.29	0.20	0.14	0.24	0.27	
25	0.30	0.38	0.29	0.36	2.24	0.42	0.42	0.29	0.18	0.14	0.24	0.27	
26	0.26	0.30	0.26	0.38	4.34	0.53	0.48	0.29	0.17	0.14	0.24	0.27	
27	0.26	0.30	0.26	0.38	3.50	0.62	0.46	0.27	0.17	0.14	0.24	0.27	
28	0.26	0.32	0.26	0.38	2.78	2.06	0.40	0.26	0.17	0.14	0.24	0.27	
29	0.26	0.30	0.26	0.38	3.60	1.00	0.46	0.24	0.23	0.14	0.24	0.27	
30	0.26	0.30	0.26	0.38	2.94	0.84	0.71	0.24	0.48	0.13		0.26	
31		0.62		0.34	32.25		0.77		0.48	0.13		0.26	
Total	6.19	8.83	8.84	9.20	82.22	96.44	25.52	28.95	7.90	7.49	4.78	8.20	294.56 CMSDAY
Mean	0.21	0.28	0.29	0.30	2.65	3.21	0.82	0.96	0.25	0.24	0.16	0.26	0.80 CMS
Max	0.36	0.65	0.38	0.38	32.25	34.13	3.70	16.43	0.48	0.46	0.24	0.29	34.13 CMS
Min	0.15	0.15	0.26	0.26	0.29	0.42	0.34	0.24	0.17	0.13	0.11	0.24	0.11 CMS
Runoff	0.53	0.76	0.76	0.79	7.10	8.33	2.20	2.50	0.68	0.65	0.41	0.71	25.45 MCM
Momentary Peak	85.58	CMS.	at 306.77 m. (MSL.)	at 19.00 Hours	on Aug 31, 2019								
Runoff Yield	1.60	Liters/Second/Square KM.		Momentary Peak Yield	170.10	Liters/Second/Square KM.							

## WATER YEAR : 2019

## PING RIVER BASIN

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

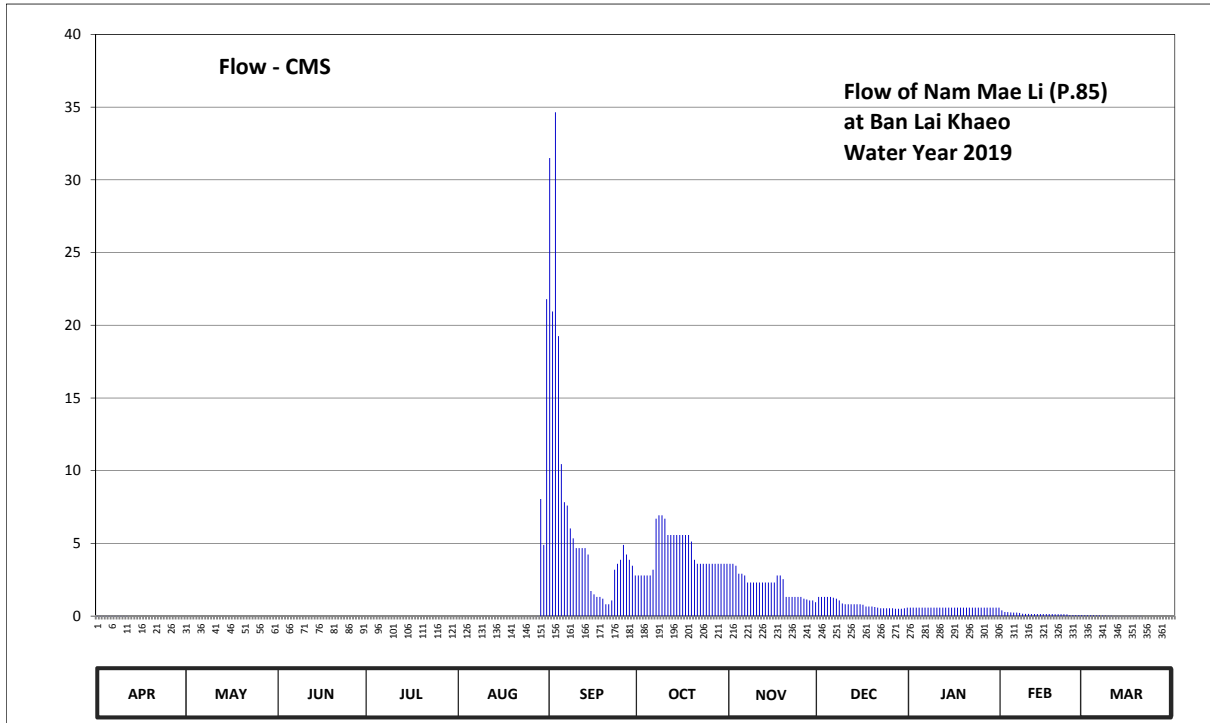
Lat 18 - 21 - 49 N Long 98 - 46 - 31 E

Location : on right bank at Ban Lai Khaeo.

	<b>Ban</b> Lai Khaeo	<b>Amphoe</b> Ban Hong	<b>Changwat</b> Lamphun
<b>Drainage Area</b>	2,052 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+290.368 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+295.123 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.95	288.75	288.63	288.62	288.61	290.76	289.91	289.97	289.77	289.59	289.49	289.07	
2	288.95	288.75	288.63	288.62	288.61	290.54	289.91	289.97	289.77	289.59	289.42	289.07	
3	288.95	288.75	288.63	288.62	288.57	290.82	289.91	289.96	289.77	289.59	289.41	289.07	
4	288.95	288.75	288.63	288.62	288.57	290.50	289.91	289.92	289.77	289.59	289.40	289.07	
5	288.97	288.75	288.63	288.62	288.57	290.26	289.91	289.92	289.77	289.59	289.39	289.06	
6	288.97	288.73	288.63	288.62	288.57	290.17	289.94	289.91	289.76	289.59	289.39	289.04	
7	288.97	288.67	288.63	288.63	288.57	290.16	290.12	289.87	289.75	289.59	289.37	289.03	
8	288.97	288.67	288.63	288.63	288.57	290.09	290.13	289.87	289.73	289.59	289.31	289.02	
9	288.97	288.67	288.63	288.61	288.57	290.06	290.13	289.87	289.69	289.59	289.30	289.01	
10	288.97	288.67	288.63	288.61	288.57	290.03	290.12	289.87	289.67	289.59	289.29	289.00	
11	288.95	288.67	288.63	288.61	288.57	290.03	290.07	289.87	289.67	289.59	289.28	288.97	
12	288.88	288.66	288.63	288.61	288.57	290.03	290.07	289.87	289.67	289.59	289.27	288.97	
13	288.88	288.64	288.63	288.61	288.57	290.03	290.07	289.87	289.67	289.59	289.27	288.97	
14	288.88	288.64	288.63	288.61	288.57	290.01	290.07	289.87	289.67	289.59	289.27	288.97	
15	288.88	288.64	288.64	288.60	288.57	289.82	290.07	289.87	289.67	289.59	289.27	288.97	
16	288.88	288.64	288.64	288.60	288.57	289.80	290.07	289.87	289.66	289.59	289.27	288.97	
17	288.87	288.64	288.64	288.60	288.57	289.77	290.07	289.91	289.62	289.59	289.27	288.96	
18	288.82	288.64	288.63	288.59	288.57	289.77	290.07	289.91	289.62	289.59	289.27	288.95	
19	288.82	288.64	288.63	288.59	288.57	289.75	290.05	289.89	289.62	289.59	289.25	288.95	
20	288.81	288.64	288.63	288.59	288.57	289.67	289.99	289.77	289.61	289.59	289.25	288.94	
21	288.81	288.64	288.63	288.59	288.57	289.67	289.97	289.77	289.59	289.59	289.25	288.92	
22	288.81	288.63	288.63	288.59	288.57	289.73	289.97	289.77	289.57	289.59	289.25	288.91	
23	288.80	288.63	288.63	288.59	288.57	289.94	289.97	289.77	289.57	289.59	289.23	288.91	
24	288.77	288.63	288.63	288.59	288.58	289.97	289.97	289.77	289.57	289.59	289.12	288.91	
25	288.77	288.63	288.63	288.59	288.58	289.99	289.97	289.77	289.57	289.59	289.12	288.90	
26	288.77	288.63	288.63	288.59	288.58	290.04	289.97	289.75	289.57	289.59	289.12	288.89	
27	288.76	288.63	288.63	288.59	288.58	290.01	289.97	289.74	289.55	289.59	289.12	288.89	
28	288.77	288.63	288.63	288.59	288.97	289.99	289.97	289.73	289.55	289.59	289.12	288.89	
29	288.75	288.63	288.63	288.59	290.18	289.96	289.97	289.73	289.55	289.59	289.12	288.88	
30	288.75	288.63	288.63	288.59	290.04	289.91	289.97	289.71	289.57	289.59	289.12	288.87	
31		288.63		288.59	290.54		289.97		289.59	289.59		288.87	
Mean	288.87	288.66	288.63	288.60	288.75	290.04	290.01	289.84	289.65	289.59	289.27	288.96	
Max	288.97	288.75	288.64	288.63	290.54	290.82	290.13	289.97	289.77	289.59	289.49	289.07	290.82
Min	288.75	288.63	288.63	288.59	288.57	289.67	289.91	289.71	289.55	289.59	289.12	288.87	288.57
Annual Max Momentary Gage Height	290.87		m. (MSL.) ,			at 22.00 Hours ,							
Zero Gage at Bottom Elevation	290.37		m. (MSL.) ,			River Bed	287.70	m. (MSL.)					
Left Bank Elevation		295.35		m. (MSL.) ,									
Right Bank Elevation		295.36		m. (MSL.) ,		Drainage Are	2,052	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.00	0.00	0.00	0.00	31.50	2.79	3.60	1.32	0.58	0.39	0.05	
2	0.01	0.00	0.00	0.00	0.00	20.95	2.79	3.60	1.32	0.58	0.28	0.05	
3	0.01	0.00	0.00	0.00	0.00	34.65	2.79	3.46	1.32	0.58	0.27	0.05	
4	0.01	0.00	0.00	0.00	0.00	19.25	2.79	2.92	1.32	0.58	0.25	0.05	
5	0.01	0.00	0.00	0.00	0.00	10.45	2.79	2.92	1.32	0.58	0.24	0.04	
6	0.01	0.00	0.00	0.00	0.00	7.83	3.19	2.79	1.26	0.58	0.24	0.04	
7	0.01	0.00	0.00	0.00	0.00	7.60	6.70	2.31	1.20	0.58	0.22	0.03	
8	0.01	0.00	0.00	0.00	0.00	6.03	6.93	2.31	1.08	0.58	0.16	0.03	
9	0.01	0.00	0.00	0.00	0.00	5.35	6.93	2.31	0.87	0.58	0.15	0.02	
10	0.01	0.00	0.00	0.00	0.00	4.68	6.70	2.31	0.81	0.58	0.15	0.02	
11	0.01	0.00	0.00	0.00	0.00	4.68	5.58	2.31	0.81	0.58	0.14	0.01	
12	0.00	0.00	0.00	0.00	0.00	4.68	5.58	2.31	0.81	0.58	0.14	0.01	
13	0.00	0.00	0.00	0.00	0.00	4.68	5.58	2.31	0.81	0.58	0.14	0.01	
14	0.00	0.00	0.00	0.00	0.00	4.23	5.58	2.31	0.81	0.58	0.14	0.01	
15	0.00	0.00	0.00	0.00	0.00	1.73	5.58	2.31	0.81	0.58	0.14	0.01	
16	0.00	0.00	0.00	0.00	0.00	1.50	5.58	2.31	0.78	0.58	0.14	0.01	
17	0.00	0.00	0.00	0.00	0.00	1.32	5.58	2.79	0.66	0.58	0.14	0.01	
18	0.00	0.00	0.00	0.00	0.00	1.32	5.58	2.79	0.66	0.58	0.14	0.01	
19	0.00	0.00	0.00	0.00	0.00	1.20	5.13	2.54	0.66	0.58	0.13	0.01	
20	0.00	0.00	0.00	0.00	0.00	0.81	3.87	1.32	0.63	0.58	0.13	0.01	
21	0.00	0.00	0.00	0.00	0.00	0.81	3.60	1.32	0.58	0.58	0.13	0.00	
22	0.00	0.00	0.00	0.00	0.00	1.08	3.60	1.32	0.54	0.58	0.13	0.00	
23	0.00	0.00	0.00	0.00	0.00	3.19	3.60	1.32	0.54	0.58	0.12	0.00	
24	0.00	0.00	0.00	0.00	0.00	3.60	3.60	1.32	0.54	0.58	0.07	0.00	
25	0.00	0.00	0.00	0.00	0.00	3.87	3.60	1.32	0.54	0.58	0.07	0.00	
26	0.00	0.00	0.00	0.00	0.00	4.90	3.60	1.20	0.54	0.58	0.07	0.00	
27	0.00	0.00	0.00	0.00	0.00	4.23	3.60	1.14	0.50	0.58	0.07	0.00	
28	0.00	0.00	0.00	0.00	0.01	3.87	3.60	1.08	0.50	0.58	0.07	0.00	
29	0.00	0.00	0.00	0.00	8.05	3.46	3.60	1.08	0.50	0.58	0.07	0.00	
30	0.00	0.00	0.00	0.00	4.90	2.79	3.60	0.96	0.54	0.58	0.00	0.00	
31	0.00	0.00	0.00	0.00	21.80	0.00	3.60	0.00	0.58	0.58	0.00	0.00	
Total	0.11	0.00	0.00	0.00	34.76	206.24	137.64	63.89	25.16	17.98	4.53	0.48	490.79 CMSDAY
Mean	0.00	0.00	0.00	0.00	1.12	6.87	4.44	2.13	0.81	0.58	0.16	0.02	1.34 CMS
Max	0.01	0.00	0.00	0.00	21.80	34.65	6.93	3.60	1.32	0.58	0.39	0.05	34.65 CMS
Min	0.00	0.00	0.00	0.00	0.00	0.81	2.79	0.96	0.50	0.58	0.07	0.00	0.00 CMS
Runoff	0.01	0.00	0.00	0.00	3.00	17.82	11.89	5.52	2.17	1.55	0.39	0.04	42.40 MCM
Momentary Peak	37.53	CMS. at 290.87 m. (MSL.) at 22.00 Hours , on Aug 31, 2019											
Runoff Yield	0.66	Liters/Second/Square KM. Momentary Peak Yield 18.42 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PING RIVER BASIN

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

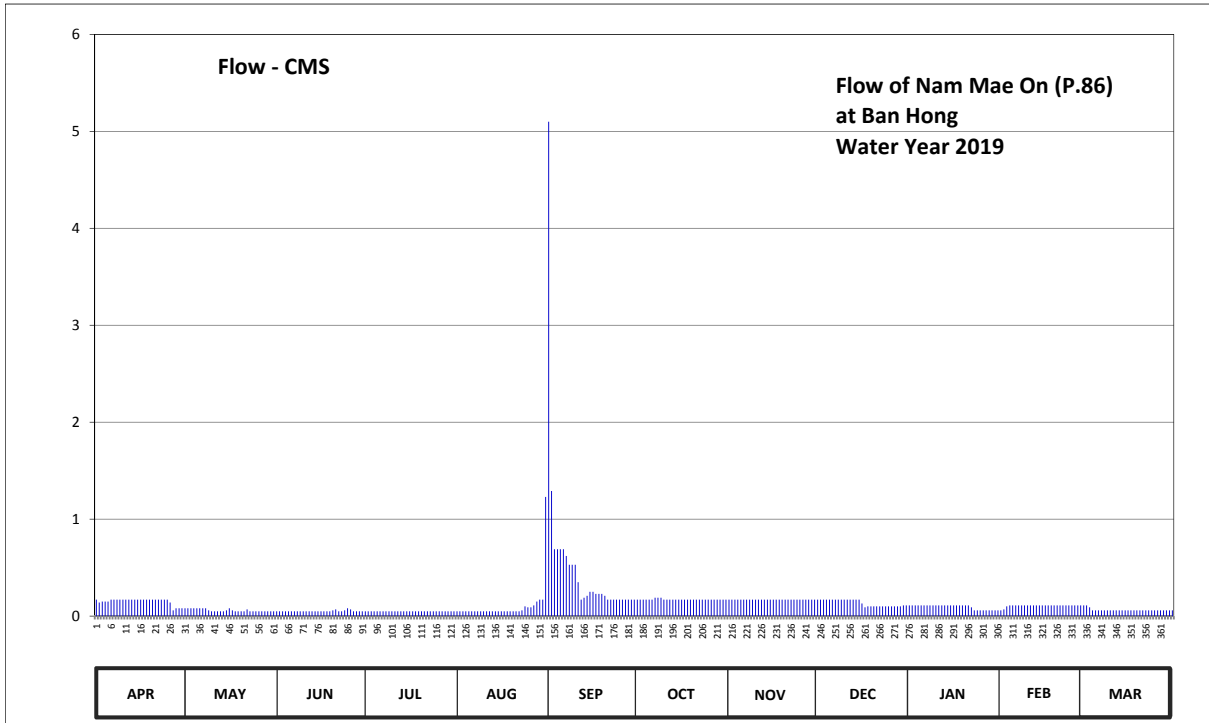
Lat 18 - 44 - 22 N Long 99 - 13 - 08 E

Location : on left bank at Ban Hong.

	<b>Ban Hong</b>	<b>Amphoe</b> San Kamphaeng	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	98	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+341.205 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+345.535 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	341.11	341.03	341.00	341.00	341.00	341.83	341.11	341.11	341.11	341.06	341.01	341.06	
2	341.09	341.03	341.00	341.00	341.00	341.44	341.11	341.11	341.11	341.06	341.02	341.06	
3	341.10	341.03	341.00	341.00	341.00	341.31	341.11	341.11	341.11	341.06	341.05	341.04	
4	341.10	341.03	341.00	341.00	341.00	341.31	341.11	341.11	341.11	341.06	341.06	341.01	
5	341.10	341.03	341.00	341.00	341.00	341.31	341.11	341.11	341.11	341.06	341.06	341.01	
6	341.11	341.03	341.00	341.00	341.00	341.31	341.11	341.11	341.11	341.06	341.06	341.01	
7	341.11	341.03	341.00	341.00	341.00	341.29	341.12	341.11	341.11	341.06	341.06	341.01	
8	341.11	341.03	341.00	341.00	341.00	341.26	341.12	341.11	341.11	341.06	341.06	341.01	
9	341.11	341.01	341.00	341.00	341.00	341.26	341.12	341.11	341.11	341.06	341.06	341.01	
10	341.11	341.00	341.00	341.00	341.00	341.26	341.11	341.11	341.11	341.06	341.06	341.01	
11	341.11	341.00	341.00	341.00	341.00	341.20	341.11	341.11	341.11	341.06	341.06	341.01	
12	341.11	341.00	341.00	341.00	341.00	341.11	341.11	341.11	341.11	341.06	341.06	341.01	
13	341.11	341.00	341.00	341.00	341.00	341.12	341.11	341.11	341.11	341.06	341.06	341.01	
14	341.11	341.00	341.00	341.00	341.00	341.13	341.11	341.11	341.11	341.06	341.06	341.01	
15	341.11	341.01	341.00	341.00	341.00	341.15	341.11	341.11	341.11	341.06	341.06	341.01	
16	341.11	341.03	341.00	341.00	341.00	341.15	341.11	341.11	341.08	341.06	341.06	341.01	
17	341.11	341.01	341.00	341.00	341.00	341.14	341.11	341.11	341.04	341.06	341.06	341.01	
18	341.11	341.00	341.00	341.00	341.00	341.14	341.11	341.11	341.05	341.06	341.06	341.01	
19	341.11	341.00	341.00	341.00	341.00	341.14	341.11	341.11	341.05	341.06	341.06	341.01	
20	341.11	341.00	341.01	341.00	341.00	341.13	341.11	341.11	341.05	341.06	341.06	341.01	
21	341.11	341.00	341.02	341.00	341.00	341.11	341.11	341.11	341.05	341.06	341.06	341.01	
22	341.11	341.02	341.00	341.00	340.99	341.11	341.11	341.11	341.05	341.04	341.06	341.01	
23	341.11	341.00	341.00	341.00	341.01	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
24	341.11	341.00	341.01	341.00	341.05	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
25	341.11	341.00	341.03	341.00	341.04	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
26	341.09	341.00	341.02	341.00	341.04	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
27	341.01	341.00	341.00	341.00	341.06	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
28	341.03	341.00	341.00	341.00	341.10	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
29	341.03	341.00	341.00	341.00	341.11	341.11	341.11	341.11	341.05	341.01	341.06	341.01	
30	341.03	341.00	341.00	341.00	341.11	341.11	341.11	341.11	341.06	341.01	341.06	341.01	
31		341.00		341.00	341.43		341.11		341.06	341.01		341.01	
Mean	341.10	341.01	341.00	341.00	341.03	341.20	341.11	341.11	341.08	341.04	341.06	341.01	
Max	341.11	341.03	341.03	341.00	341.43	341.83	341.12	341.11	341.11	341.06	341.06	341.06	341.83
Min	341.01	341.00	341.00	341.00	340.99	341.11	341.11	341.11	341.04	341.01	341.01	341.01	340.99
Annual Max Momentary Gage Height	342.86		m. (MSL.) ,				at 23.00 Hours ,						
Zero Gage at Bottom Elevation	341.20		m. (MSL.) ,			River Bed	340.73		m. (MSL.)				
Left Bank Elevation		345.48		m. (MSL.) ,									
Right Bank Elevation		345.44		m. (MSL.) ,		Drainage Are	98		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.17	0.08	0.05	0.05	0.05	5.10	0.17	0.17	0.17	0.11	0.06	0.11	
2	0.14	0.08	0.05	0.05	0.05	1.29	0.17	0.17	0.17	0.11	0.07	0.11	
3	0.15	0.08	0.05	0.05	0.05	0.69	0.17	0.17	0.17	0.11	0.10	0.09	
4	0.15	0.08	0.05	0.05	0.05	0.69	0.17	0.17	0.17	0.11	0.11	0.06	
5	0.15	0.08	0.05	0.05	0.05	0.69	0.17	0.17	0.17	0.11	0.11	0.06	
6	0.17	0.08	0.05	0.05	0.05	0.69	0.17	0.17	0.17	0.11	0.11	0.06	
7	0.17	0.08	0.05	0.05	0.05	0.62	0.19	0.17	0.17	0.11	0.11	0.06	
8	0.17	0.08	0.05	0.05	0.05	0.53	0.19	0.17	0.17	0.11	0.11	0.06	
9	0.17	0.06	0.05	0.05	0.05	0.53	0.19	0.17	0.17	0.11	0.11	0.06	
10	0.17	0.05	0.05	0.05	0.05	0.53	0.17	0.17	0.17	0.11	0.11	0.06	
11	0.17	0.05	0.05	0.05	0.05	0.35	0.17	0.17	0.17	0.11	0.11	0.06	
12	0.17	0.05	0.05	0.05	0.05	0.17	0.17	0.17	0.17	0.11	0.11	0.06	
13	0.17	0.05	0.05	0.05	0.05	0.19	0.17	0.17	0.17	0.11	0.11	0.06	
14	0.17	0.05	0.05	0.05	0.05	0.21	0.17	0.17	0.17	0.11	0.11	0.06	
15	0.17	0.06	0.05	0.05	0.05	0.25	0.17	0.17	0.17	0.11	0.11	0.06	
16	0.17	0.08	0.05	0.05	0.05	0.25	0.17	0.17	0.13	0.11	0.11	0.06	
17	0.17	0.06	0.05	0.05	0.05	0.23	0.17	0.17	0.09	0.11	0.11	0.06	
18	0.17	0.05	0.05	0.05	0.05	0.23	0.17	0.17	0.10	0.11	0.11	0.06	
19	0.17	0.05	0.05	0.05	0.05	0.23	0.17	0.17	0.10	0.11	0.11	0.06	
20	0.17	0.05	0.06	0.05	0.05	0.21	0.17	0.17	0.10	0.11	0.11	0.06	
21	0.17	0.05	0.07	0.05	0.05	0.17	0.17	0.17	0.10	0.11	0.11	0.06	
22	0.17	0.07	0.05	0.05	0.05	0.17	0.17	0.17	0.10	0.09	0.11	0.06	
23	0.17	0.05	0.05	0.05	0.06	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
24	0.17	0.05	0.06	0.05	0.10	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
25	0.17	0.05	0.08	0.05	0.09	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
26	0.14	0.05	0.07	0.05	0.09	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
27	0.06	0.05	0.05	0.05	0.11	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
28	0.08	0.05	0.05	0.05	0.15	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
29	0.08	0.05	0.05	0.05	0.17	0.17	0.17	0.17	0.10	0.06	0.11	0.06	
30	0.08	0.05	0.05	0.05	0.17	0.17	0.17	0.17	0.11	0.06		0.06	
31		0.05		0.05	1.23		0.17		0.11	0.06		0.06	
<b>Total</b>	<b>4.60</b>	<b>1.87</b>	<b>1.59</b>	<b>1.55</b>	<b>3.27</b>	<b>15.38</b>	<b>5.33</b>	<b>5.10</b>	<b>4.19</b>	<b>2.94</b>	<b>3.09</b>	<b>1.99</b>	<b>50.90</b> CMSDAY
<b>Mean</b>	<b>0.15</b>	<b>0.06</b>	<b>0.05</b>	<b>0.05</b>	<b>0.11</b>	<b>0.51</b>	<b>0.17</b>	<b>0.17</b>	<b>0.14</b>	<b>0.09</b>	<b>0.11</b>	<b>0.06</b>	<b>0.14</b> CMS
<b>Max</b>	<b>0.17</b>	<b>0.08</b>	<b>0.08</b>	<b>0.05</b>	<b>1.23</b>	<b>5.10</b>	<b>0.19</b>	<b>0.17</b>	<b>0.17</b>	<b>0.11</b>	<b>0.11</b>	<b>0.11</b>	<b>5.10</b> CMS
<b>Min</b>	<b>0.06</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.05</b>	<b>0.17</b>	<b>0.17</b>	<b>0.17</b>	<b>0.09</b>	<b>0.06</b>	<b>0.06</b>	<b>0.06</b>	<b>0.05</b> CMS
<b>Runoff</b>	<b>0.40</b>	<b>0.16</b>	<b>0.14</b>	<b>0.13</b>	<b>0.28</b>	<b>1.33</b>	<b>0.46</b>	<b>0.44</b>	<b>0.36</b>	<b>0.25</b>	<b>0.27</b>	<b>0.17</b>	<b>4.40</b> MCM
<b>Momentary Peak</b>	<b>29.45</b>	<b>CMS. at 342.86 m. (MSL.) at 23.00 Hours , on Aug 31, 2019</b>											
<b>Runoff Yield</b>	<b>1.44</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 303.61 Liters/Second/Square KM.</b>											

## WATER YEAR : 2019

## PING RIVER BASIN

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

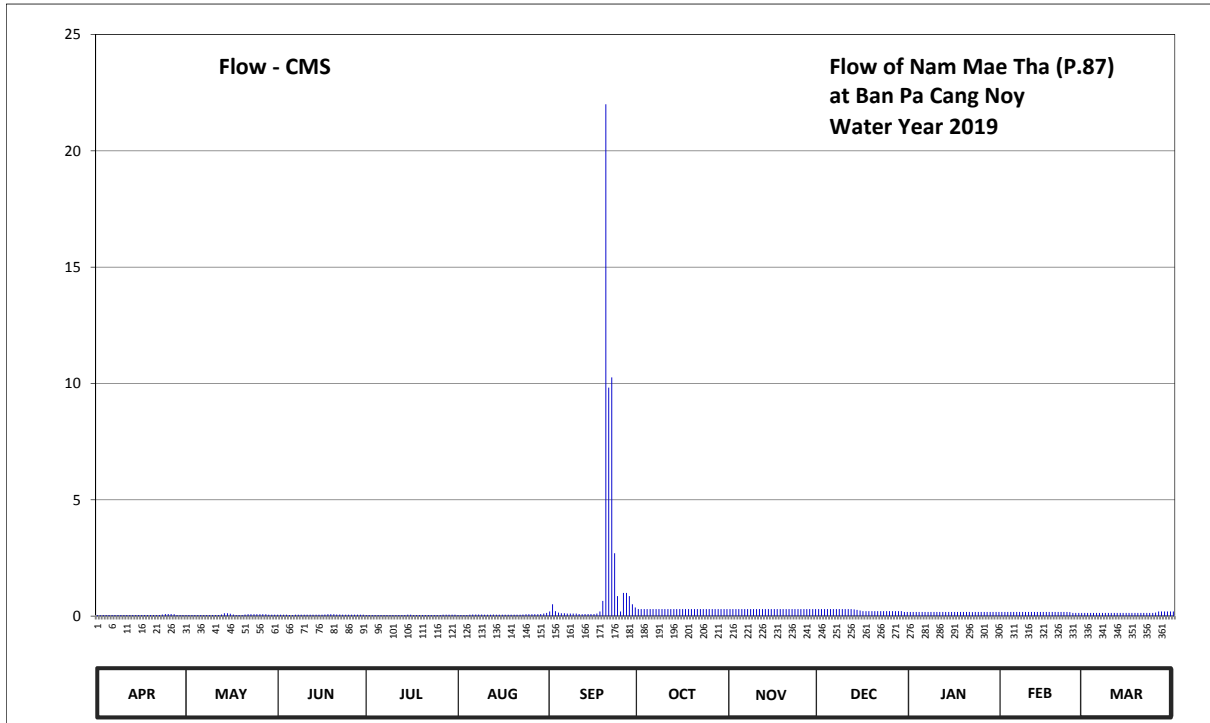
Lat 18 - 31 - 04 N Long 98 - 56 - 42 E

Location : on left bank at Ban Pa Cang Noy.

	<b>Ban Pa Cang Noy</b>	<b>Amphoe Pa Cang</b>	<b>Changwat Lamphun</b>
<b>Drainage Area</b>	934 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+288.954 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +293.954 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.38	289.40	289.41	289.40	289.40	289.53	289.60	289.60	289.60	289.52	289.52	289.49	
2	289.38	289.40	289.41	289.40	289.40	289.63	289.60	289.60	289.60	289.52	289.52	289.49	
3	289.39	289.40	289.41	289.40	289.40	289.54	289.60	289.60	289.60	289.52	289.52	289.49	
4	289.40	289.40	289.41	289.40	289.40	289.50	289.60	289.60	289.60	289.52	289.52	289.49	
5	289.40	289.40	289.40	289.40	289.41	289.47	289.60	289.60	289.60	289.52	289.52	289.49	
6	289.40	289.40	289.40	289.40	289.42	289.47	289.60	289.60	289.60	289.52	289.52	289.49	
7	289.40	289.40	289.41	289.40	289.42	289.46	289.60	289.60	289.60	289.52	289.52	289.49	
8	289.40	289.40	289.41	289.40	289.42	289.46	289.60	289.60	289.60	289.52	289.52	289.49	
9	289.40	289.40	289.41	289.40	289.42	289.46	289.60	289.60	289.60	289.52	289.52	289.49	
10	289.40	289.40	289.41	289.40	289.41	289.46	289.60	289.60	289.60	289.52	289.52	289.49	
11	289.40	289.40	289.41	289.40	289.41	289.44	289.60	289.60	289.60	289.52	289.52	289.49	
12	289.40	289.40	289.41	289.40	289.41	289.43	289.60	289.60	289.60	289.52	289.52	289.49	
13	289.40	289.42	289.41	289.40	289.42	289.44	289.60	289.60	289.59	289.52	289.52	289.49	
14	289.40	289.47	289.41	289.40	289.41	289.44	289.60	289.60	289.58	289.52	289.52	289.49	
15	289.40	289.47	289.41	289.41	289.41	289.44	289.60	289.60	289.56	289.52	289.52	289.49	
16	289.40	289.45	289.41	289.41	289.41	289.44	289.60	289.60	289.54	289.52	289.52	289.49	
17	289.40	289.42	289.42	289.40	289.41	289.46	289.60	289.60	289.54	289.52	289.52	289.49	
18	289.40	289.40	289.43	289.40	289.41	289.53	289.60	289.60	289.54	289.52	289.52	289.49	
19	289.40	289.40	289.43	289.40	289.41	289.65	289.60	289.60	289.54	289.52	289.52	289.49	
20	289.40	289.40	289.43	289.40	289.41	290.74	289.60	289.60	289.54	289.52	289.52	289.49	
21	289.40	289.42	289.42	289.40	289.41	290.21	289.60	289.60	289.54	289.52	289.52	289.49	
22	289.40	289.43	289.42	289.40	289.41	290.22	289.60	289.60	289.54	289.51	289.52	289.49	
23	289.42	289.43	289.41	289.40	289.42	289.85	289.60	289.60	289.54	289.52	289.52	289.49	
24	289.44	289.43	289.41	289.40	289.43	289.68	289.60	289.60	289.54	289.52	289.51	289.49	
25	289.44	289.43	289.41	289.40	289.43	289.53	289.60	289.60	289.54	289.52	289.49	289.50	
26	289.44	289.43	289.41	289.40	289.43	289.70	289.60	289.60	289.54	289.52	289.49	289.53	
27	289.43	289.43	289.41	289.41	289.43	289.70	289.60	289.60	289.54	289.52	289.49	289.53	
28	289.40	289.43	289.41	289.41	289.43	289.68	289.60	289.60	289.54	289.52	289.49	289.53	
29	289.40	289.41	289.41	289.41	289.44	289.63	289.60	289.60	289.54	289.52	289.49	289.53	
30	289.40	289.41	289.41	289.41	289.46	289.61	289.60	289.60	289.52	289.52	289.52	289.53	
31		289.41		289.41	289.49		289.60		289.52	289.52		289.53	
Mean	289.40	289.42	289.41	289.40	289.42	289.63	289.60	289.60	289.57	289.52	289.51	289.50	
Max	289.44	289.47	289.43	289.41	289.49	290.74	289.60	289.60	289.60	289.52	289.52	289.53	290.74
Min	289.38	289.40	289.40	289.40	289.40	289.43	289.60	289.60	289.52	289.51	289.49	289.49	289.38
Annual Max Momentary Gage Height	291.46		m. (MSL.) ,				at 08.00 Hours ,						on Sep 20 , 2019
Zero Gage at Bottom Elevation	288.95		m. (MSL.) ,			River Bed	287.55		m. (MSL.)				
Left Bank Elevation	293.99		m. (MSL.) ,										
Right Bank Elevation	294.00		m. (MSL.) ,			Drainage Are	934		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	0.04	0.05	0.06	0.05	0.05	0.20	0.30	0.30	0.30	0.18	0.18	0.14				
2	0.04	0.05	0.06	0.05	0.05	0.51	0.30	0.30	0.30	0.18	0.18	0.14				
3	0.05	0.05	0.06	0.05	0.05	0.21	0.30	0.30	0.30	0.18	0.18	0.14				
4	0.05	0.05	0.06	0.05	0.05	0.15	0.30	0.30	0.30	0.18	0.18	0.14				
5	0.05	0.05	0.05	0.05	0.06	0.12	0.30	0.30	0.30	0.18	0.18	0.14				
6	0.05	0.05	0.05	0.05	0.07	0.12	0.30	0.30	0.30	0.18	0.18	0.14				
7	0.05	0.05	0.06	0.05	0.07	0.11	0.30	0.30	0.30	0.18	0.18	0.14				
8	0.05	0.05	0.06	0.05	0.07	0.11	0.30	0.30	0.30	0.18	0.18	0.14				
9	0.05	0.05	0.06	0.05	0.07	0.11	0.30	0.30	0.30	0.18	0.18	0.14				
10	0.05	0.05	0.06	0.05	0.06	0.11	0.30	0.30	0.30	0.18	0.18	0.14				
11	0.05	0.05	0.06	0.05	0.06	0.09	0.30	0.30	0.30	0.18	0.18	0.14				
12	0.05	0.05	0.06	0.05	0.06	0.08	0.30	0.30	0.30	0.18	0.18	0.14				
13	0.05	0.07	0.06	0.05	0.07	0.09	0.30	0.30	0.29	0.18	0.18	0.14				
14	0.05	0.12	0.06	0.05	0.06	0.09	0.30	0.30	0.27	0.18	0.18	0.14				
15	0.05	0.12	0.06	0.06	0.06	0.09	0.30	0.30	0.24	0.18	0.18	0.14				
16	0.05	0.10	0.06	0.06	0.06	0.09	0.30	0.30	0.21	0.18	0.18	0.14				
17	0.05	0.07	0.07	0.05	0.06	0.11	0.30	0.30	0.21	0.18	0.18	0.14				
18	0.05	0.05	0.08	0.05	0.06	0.20	0.30	0.30	0.21	0.18	0.18	0.14				
19	0.05	0.05	0.08	0.05	0.06	0.65	0.30	0.30	0.21	0.18	0.18	0.14				
20	0.05	0.05	0.08	0.05	0.06	22.00	0.30	0.30	0.21	0.18	0.18	0.14				
21	0.05	0.07	0.07	0.05	0.06	9.82	0.30	0.30	0.21	0.18	0.18	0.14				
22	0.05	0.08	0.07	0.05	0.06	10.26	0.30	0.30	0.21	0.17	0.18	0.14				
23	0.07	0.08	0.06	0.05	0.07	2.70	0.30	0.30	0.21	0.18	0.18	0.14				
24	0.09	0.08	0.06	0.05	0.08	0.86	0.30	0.30	0.21	0.18	0.17	0.14				
25	0.09	0.08	0.06	0.05	0.08	0.20	0.30	0.30	0.21	0.18	0.14	0.15				
26	0.09	0.08	0.06	0.05	0.08	1.00	0.30	0.30	0.21	0.18	0.14	0.20				
27	0.08	0.08	0.06	0.06	0.08	1.00	0.30	0.30	0.21	0.18	0.14	0.20				
28	0.05	0.08	0.06	0.06	0.08	0.86	0.30	0.30	0.21	0.18	0.14	0.20				
29	0.05	0.06	0.06	0.06	0.09	0.51	0.30	0.30	0.21	0.18	0.14	0.20				
30	0.05	0.06	0.06	0.06	0.11	0.37	0.30	0.30	0.18	0.18		0.20				
31		0.06		0.06	0.14		0.30		0.18	0.18		0.20				
<b>Total</b>	1.65	2.04	1.87	1.62	2.14	52.82	9.30	9.00	7.70	5.57	5.01	4.71	103.43 CMSDAY			
<b>Mean</b>	0.06	0.07	0.06	0.05	0.07	1.76	0.30	0.30	0.25	0.18	0.17	0.15	0.28 CMS			
<b>Max</b>	0.09	0.12	0.08	0.06	0.14	22.00	0.30	0.30	0.30	0.18	0.18	0.20	22.00 CMS			
<b>Min</b>	0.04	0.05	0.05	0.05	0.05	0.08	0.30	0.30	0.18	0.17	0.14	0.14	0.04 CMS			
<b>Runoff</b>	0.14	0.18	0.16	0.14	0.18	4.56	0.80	0.78	0.67	0.48	0.43	0.41	8.94 MCM			
<b>Momentary Peak</b>	43.15	CMS. at 291.46 m. (MSL.) at 08.00 Hours , on Sep 20 , 2019														
<b>Runoff Yield</b>	0.30	Liters/Second/Square KM.											<b>Momentary Peak Yield</b>	46.20	Liters/Second/Square KM.	



## WATER YEAR : 2019

## PING RIVER BASIN

Nam Mae Khod at Ban San Pu Loei, Chiang Mai (P.91)

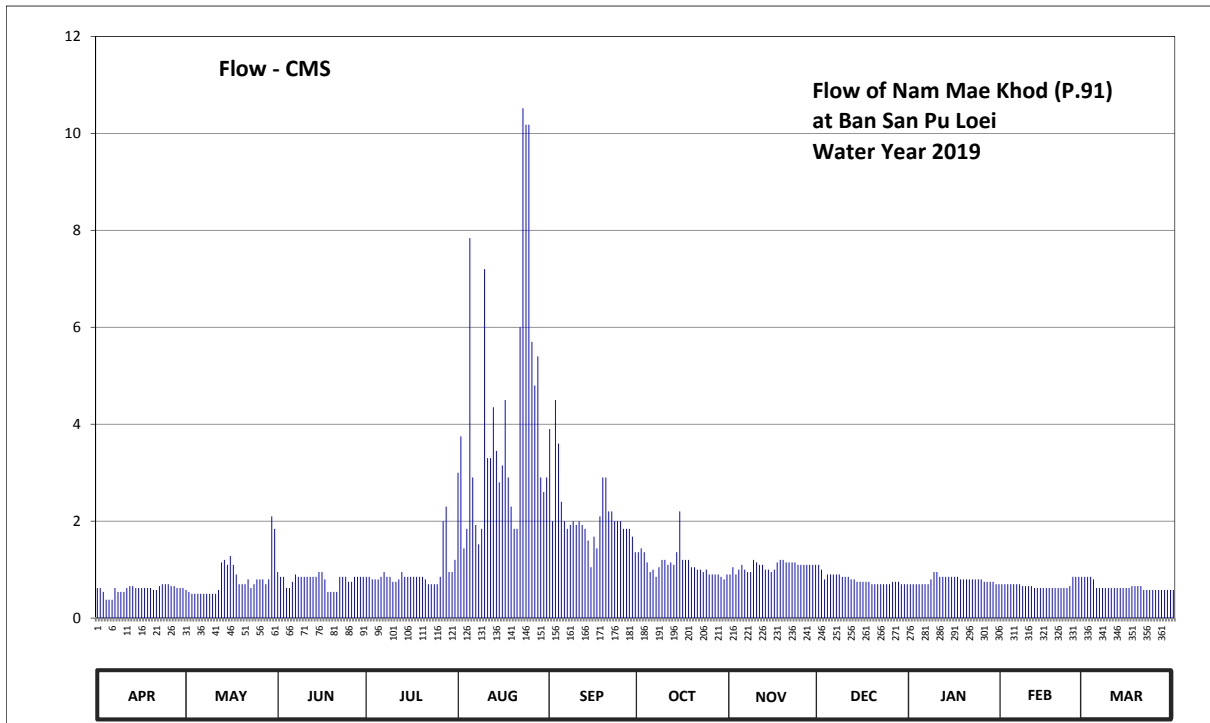
Lat 19 - 08 - 01 N Long 99 - 09 - 59 E

Location : on right bank at Ban San Pu Loei.

	<b>Ban San Pu Loei</b>	<b>Amphoe Phrao</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	234 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+413.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +419.380 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	413.68	413.67	413.75	413.73	414.00	414.06	413.82	413.74	413.78	413.70	413.70	413.73	
2	413.68	413.66	413.73	413.73	414.05	413.90	413.83	413.77	413.76	413.70	413.70	413.73	
3	413.66	413.65	413.73	413.72	413.83	414.10	413.82	413.74	413.72	413.70	413.70	413.73	
4	413.62	413.65	413.68	413.72	413.88	414.04	413.79	413.76	413.74	413.70	413.70	413.72	
5	413.62	413.65	413.68	413.72	414.21	413.94	413.75	413.78	413.74	413.70	413.70	413.68	
6	413.62	413.65	413.71	413.73	413.99	413.90	413.76	413.76	413.74	413.70	413.70	413.68	
7	413.68	413.65	413.74	413.75	413.89	413.88	413.73	413.75	413.74	413.70	413.70	413.68	
8	413.66	413.65	413.73	413.73	413.84	413.89	413.77	413.75	413.74	413.72	413.69	413.68	
9	413.66	413.65	413.73	413.73	413.88	413.90	413.80	413.80	413.73	413.75	413.69	413.68	
10	413.66	413.65	413.73	413.71	414.19	413.89	413.80	413.79	413.73	413.75	413.69	413.68	
11	413.68	413.65	413.73	413.71	414.02	413.90	413.78	413.78	413.73	413.73	413.69	413.68	
12	413.69	413.67	413.73	413.72	414.02	413.89	413.79	413.78	413.72	413.73	413.68	413.68	
13	413.69	413.79	413.73	413.75	414.09	413.88	413.78	413.76	413.72	413.73	413.68	413.68	
14	413.68	413.80	413.73	413.73	414.03	413.85	413.82	413.76	413.71	413.73	413.68	413.68	
15	413.68	413.78	413.75	413.73	413.98	413.77	413.92	413.75	413.71	413.73	413.68	413.68	
16	413.68	413.81	413.75	413.73	414.03	413.86	413.80	413.76	413.71	413.73	413.68	413.68	
17	413.68	413.78	413.72	413.73	414.10	413.83	413.80	413.79	413.71	413.73	413.68	413.69	
18	413.68	413.74	413.66	413.73	413.99	413.91	413.80	413.80	413.71	413.72	413.68	413.69	
19	413.68	413.70	413.66	413.73	413.93	413.99	413.77	413.80	413.70	413.72	413.68	413.69	
20	413.67	413.70	413.66	413.73	413.88	413.99	413.77	413.79	413.70	413.72	413.68	413.69	
21	413.67	413.70	413.66	413.72	413.88	413.92	413.76	413.79	413.70	413.72	413.68	413.67	
22	413.69	413.72	413.73	413.70	414.15	413.92	413.76	413.79	413.70	413.72	413.68	413.67	
23	413.70	413.68	413.73	413.70	414.29	413.90	413.75	413.79	413.70	413.72	413.68	413.67	
24	413.70	413.70	413.73	413.70	414.28	413.90	413.76	413.78	413.70	413.72	413.69	413.67	
25	413.70	413.72	413.71	413.70	414.28	413.90	413.74	413.78	413.70	413.72	413.73	413.67	
26	413.69	413.72	413.71	413.73	414.14	413.88	413.74	413.78	413.71	413.71	413.73	413.67	
27	413.69	413.72	413.73	413.90	414.11	413.88	413.74	413.78	413.71	413.71	413.73	413.67	
28	413.68	413.70	413.73	413.93	414.13	413.88	413.74	413.78	413.71	413.71	413.73	413.67	
29	413.68	413.72	413.73	413.75	413.99	413.86	413.73	413.78	413.70	413.71	413.73	413.67	
30	413.68	413.91	413.73	413.75	413.96	413.82	413.72	413.78	413.70	413.70	413.70	413.67	
31		413.88		413.80	413.99		413.74		413.70	413.70		413.67	
Mean	413.67	413.71	413.72	413.74	414.03	413.91	413.78	413.77	413.72	413.72	413.70	413.68	
Max	413.70	413.91	413.75	413.93	414.29	414.10	413.92	413.80	413.78	413.75	413.73	413.73	414.29
Min	413.62	413.65	413.66	413.70	413.83	413.77	413.72	413.74	413.70	413.70	413.68	413.67	413.62
Annual Max Momentary Gage Height	414.30		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	413.10		m. (MSL.) ,				River Bed	411.80		m. (MSL.)			
Left Bank Elevation	418.79		m. (MSL.) ,										
Right Bank Elevation	418.84		m. (MSL.) ,				Drainage Are	234		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.58	0.95	0.85	3.00	3.90	1.36	0.90	1.10	0.70	0.70	0.85	
2	0.62	0.54	0.85	0.85	3.75	2.00	1.44	1.05	1.00	0.70	0.70	0.85	
3	0.54	0.50	0.85	0.80	1.44	4.50	1.36	0.90	0.80	0.70	0.70	0.85	
4	0.38	0.50	0.62	0.80	1.84	3.60	1.15	1.00	0.90	0.70	0.70	0.80	
5	0.38	0.50	0.62	0.80	7.84	2.40	0.95	1.10	0.90	0.70	0.70	0.62	
6	0.38	0.50	0.75	0.85	2.90	2.00	1.00	1.00	0.90	0.70	0.70	0.62	
7	0.62	0.50	0.90	0.95	1.92	1.84	0.85	0.95	0.90	0.70	0.70	0.62	
8	0.54	0.50	0.85	0.85	1.52	1.92	1.05	0.95	0.90	0.80	0.66	0.62	
9	0.54	0.50	0.85	0.85	1.84	2.00	1.20	1.20	0.85	0.95	0.66	0.62	
10	0.54	0.50	0.85	0.75	7.20	1.92	1.20	1.15	0.85	0.95	0.66	0.62	
11	0.62	0.50	0.85	0.75	3.30	2.00	1.10	1.10	0.85	0.85	0.66	0.62	
12	0.66	0.58	0.85	0.80	3.30	1.92	1.15	1.10	0.80	0.85	0.62	0.62	
13	0.66	1.15	0.85	0.95	4.35	1.84	1.10	1.00	0.80	0.85	0.62	0.62	
14	0.62	1.20	0.85	0.85	3.45	1.60	1.36	1.00	0.75	0.85	0.62	0.62	
15	0.62	1.10	0.95	0.85	2.80	1.05	2.20	0.95	0.75	0.85	0.62	0.62	
16	0.62	1.28	0.95	0.85	3.15	1.68	1.20	1.00	0.75	0.85	0.62	0.62	
17	0.62	1.10	0.80	0.85	4.50	1.44	1.20	1.15	0.75	0.85	0.62	0.66	
18	0.62	0.90	0.54	0.85	2.90	2.10	1.20	1.20	0.75	0.80	0.62	0.66	
19	0.62	0.70	0.54	0.85	2.30	2.90	1.05	1.20	0.70	0.80	0.62	0.66	
20	0.58	0.70	0.54	0.85	1.84	2.90	1.05	1.15	0.70	0.80	0.62	0.66	
21	0.58	0.70	0.54	0.80	1.84	2.20	1.00	1.15	0.70	0.80	0.62	0.58	
22	0.66	0.80	0.85	0.70	6.00	2.20	1.00	1.15	0.70	0.80	0.62	0.58	
23	0.70	0.62	0.85	0.70	10.52	2.00	0.95	1.15	0.70	0.80	0.62	0.58	
24	0.70	0.70	0.85	0.70	10.18	2.00	1.00	1.10	0.70	0.80	0.66	0.58	
25	0.70	0.80	0.75	0.70	10.18	2.00	0.90	1.10	0.70	0.80	0.85	0.58	
26	0.66	0.80	0.75	0.85	5.70	1.84	0.90	1.10	0.75	0.75	0.85	0.58	
27	0.66	0.80	0.85	2.00	4.80	1.84	0.90	1.10	0.75	0.75	0.85	0.58	
28	0.62	0.70	0.85	2.30	5.40	1.84	0.90	1.10	0.75	0.75	0.85	0.58	
29	0.62	0.80	0.85	0.95	2.90	1.68	0.85	1.10	0.70	0.75	0.85	0.58	
30	0.62	2.10	0.85	0.95	2.60	1.36	0.80	1.10	0.70	0.70		0.58	
31		1.84		1.20	2.90		0.90		0.70	0.70		0.58	
<b>Total</b>	17.92	24.99	23.80	28.65	128.16	64.47	34.27	32.20	24.55	24.35	19.89	19.81	443.06 CMSDAY
<b>Mean</b>	0.60	0.81	0.79	0.92	4.13	2.15	1.11	1.07	0.79	0.79	0.69	0.64	1.21 CMS
<b>Max</b>	0.70	2.10	0.95	2.30	10.52	4.50	2.20	1.20	1.10	0.95	0.85	0.85	10.52 CMS
<b>Min</b>	0.38	0.50	0.54	0.70	1.44	1.05	0.80	0.90	0.70	0.70	0.62	0.58	0.38 CMS
<b>Runoff</b>	1.55	2.16	2.06	2.48	11.07	5.57	2.96	2.78	2.12	2.10	1.72	1.71	38.28 MCM
<b>Momentary Peak</b>	10.85	CMS. at 414.30 m. (MSL.) at 06.00 Hours , on Aug 23 , 2019											
<b>Runoff Yield</b>	5.19	Liters/Second/Square KM. Momentary Peak Yield 46.37 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Taeng at Ban Mueang Kud, Chiang Mai (P.92)

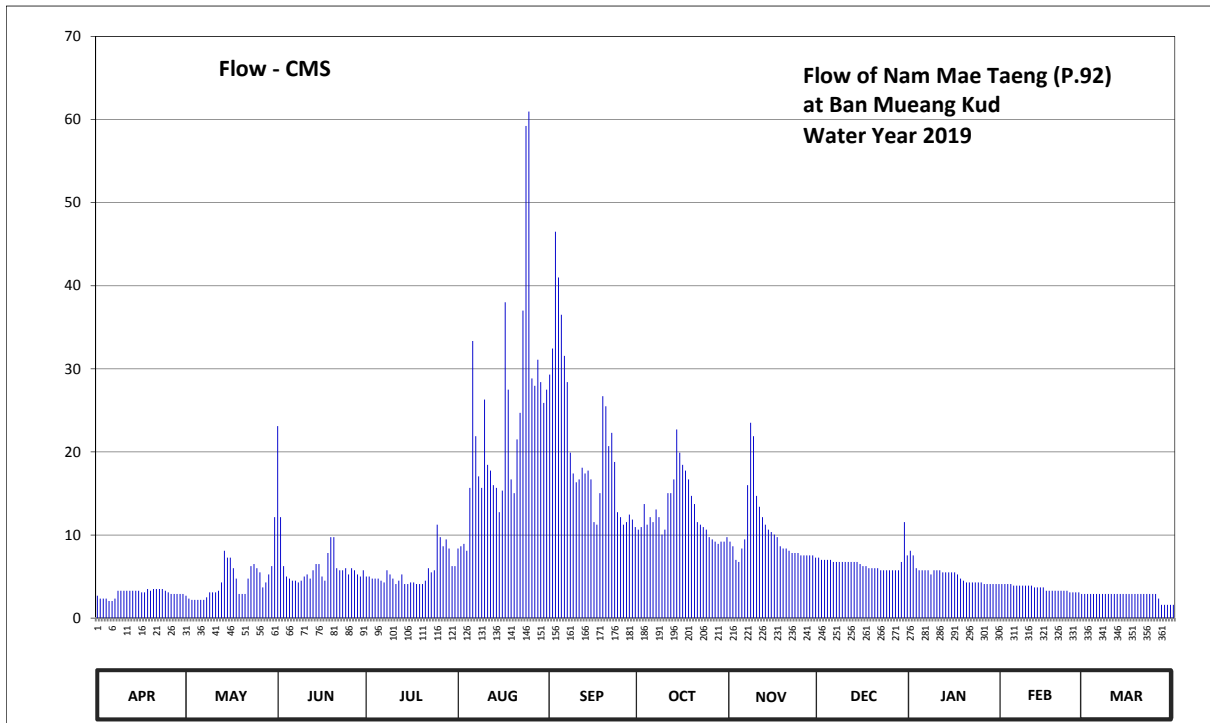
Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Mueang Kud.

	<b>Ban Mueang Kud</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,653 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+440.645 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +447.535 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	440.61	440.61	441.29	440.72	440.85	441.44	440.93	440.88	440.81	440.84	440.68	440.62	
2	440.59	440.59	440.98	440.72	440.86	441.51	440.94	440.86	440.80	440.82	440.68	440.62	
3	440.59	440.58	440.77	440.71	440.87	441.80	441.03	440.80	440.80	440.76	440.68	440.62	
4	440.59	440.58	440.72	440.71	440.84	441.69	440.95	440.79	440.80	440.75	440.68	440.62	
5	440.57	440.58	440.71	440.71	441.09	441.60	440.98	440.85	440.80	440.75	440.67	440.62	
6	440.57	440.58	440.70	440.70	441.53	441.49	440.96	440.89	440.79	440.75	440.67	440.62	
7	440.59	440.58	440.70	440.69	441.26	441.42	441.01	441.10	440.79	440.75	440.67	440.62	
8	440.64	440.60	440.69	440.75	441.13	441.21	440.98	441.30	440.79	440.73	440.67	440.62	
9	440.64	440.63	440.70	440.73	441.09	441.14	440.91	441.26	440.79	440.75	440.67	440.62	
10	440.64	440.63	440.72	440.71	441.37	441.11	440.93	441.06	440.79	440.75	440.67	440.62	
11	440.64	440.63	440.73	440.68	441.17	441.12	441.07	441.02	440.79	440.75	440.67	440.62	
12	440.64	440.64	440.71	440.70	441.15	441.16	441.07	440.98	440.79	440.74	440.66	440.62	
13	440.64	440.69	440.75	440.73	441.10	441.14	441.12	440.95	440.79	440.74	440.66	440.62	
14	440.64	440.84	440.78	440.68	441.09	441.15	441.28	440.93	440.79	440.74	440.66	440.62	
15	440.64	440.81	440.78	440.68	441.00	441.12	441.21	440.92	440.78	440.74	440.66	440.62	
16	440.63	440.81	440.72	440.69	441.08	440.96	441.17	440.91	440.77	440.74	440.64	440.62	
17	440.63	440.76	440.70	440.69	441.63	440.95	441.15	440.90	440.77	440.73	440.64	440.62	
18	440.65	440.71	440.83	440.68	441.40		441.12	440.86	440.76	440.71	440.64	440.62	
19	440.64	440.62	440.90	440.68	441.12	441.38	441.06	440.85	440.76	440.70	440.64	440.62	
20	440.65	440.62	440.90	440.68	441.07	441.35	441.03	440.85	440.76	440.69	440.64	440.62	
21	440.65	440.62	440.76	440.70	441.25	441.23	440.96	440.84	440.76	440.69	440.64	440.62	
22	440.65	440.71	440.75	440.76	441.33	441.27	440.95	440.83	440.75	440.69	440.64	440.62	
23	440.65	440.77	440.75	440.74	441.61	441.18	440.94	440.83	440.75	440.69	440.64	440.62	
24	440.64	440.78	440.76	440.75	442.03	441.00	440.93	440.83	440.75	440.69	440.63	440.62	
25	440.63	440.76	440.73	440.95	442.06	440.98	440.90	440.82	440.75	440.69	440.63	440.62	
26	440.62	440.74	440.76	440.90	441.43	440.95	440.89	440.82	440.75	440.68	440.63	440.59	
27	440.62	440.66	440.75	440.86	441.41	440.96	440.88	440.82	440.75	440.68	440.63	440.54	
28	440.62	440.69	440.73	440.89	441.48	440.99	440.87	440.82	440.75	440.68	440.62	440.54	
29	440.62	440.73	440.72	440.85	441.42	440.97	440.88	440.82	440.79	440.68	440.62	440.54	
30	440.62	440.77	440.75	440.77	441.36	440.94	440.88	440.81	440.96	440.68	440.68	440.54	
31		440.98		440.77	441.40		440.90		440.82	440.68		440.54	
Mean	440.63	440.69	440.77	440.74	441.27	441.21	441.00	440.91	440.78	440.72	440.65	440.61	
Max	440.65	440.98	441.29	440.95	442.06	441.80	441.28	441.30	440.96	440.84	440.68	440.62	442.06
Min	440.57	440.58	440.69	440.68	440.84	440.94	440.87	440.79	440.75	440.68	440.62	440.54	440.54
Annual Max Momentary Gage Height	442.15		m. (MSL.) ,				at 06.00 Hours , on Aug 25 , 2019						
Zero Gage at Bottom Elevation	440.64		m. (MSL.) ,			River Bed	439.75	m. (MSL.)					
Left Bank Elevation		447.43		m. (MSL.) ,									
Right Bank Elevation		447.42		m. (MSL.) ,		Drainage Are	1,653	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	2.70	23.10	5.00	8.38	29.30	10.65	9.20	7.28	8.10	4.10	2.90	
2	2.35	2.35	12.15	5.00	8.65	32.45	10.95	8.65	7.00	7.55	4.10	2.90	
3	2.35	2.20	6.25	4.75	8.93	46.50	13.73	7.00	7.00	6.00	4.10	2.90	
4	2.35	2.20	5.00	4.75	8.10	41.00	11.25	6.75	7.00	5.75	4.10	2.90	
5	2.05	2.20	4.75	4.75	15.68	36.50	12.15	8.38	7.00	5.75	3.90	2.90	
6	2.05	2.20	4.50	4.50	33.35	31.55	11.55	9.48	6.75	5.75	3.90	2.90	
7	2.35	2.20	4.50	4.30	21.90	28.40	13.08	16.00	6.75	5.75	3.90	2.90	
8	3.30	2.50	4.30	5.75	17.05	19.90	12.15	23.50	6.75	5.25	3.90	2.90	
9	3.30	3.10	4.50	5.25	15.68	17.40	10.05	21.90	6.75	5.75	3.90	2.90	
10	3.30	3.10	5.00	4.75	26.30	16.35	10.65	14.70	6.75	5.75	3.90	2.90	
11	3.30	3.10	5.25	4.10	18.45	16.70	15.03	13.40	6.75	5.75	3.90	2.90	
12	3.30	3.30	4.75	4.50	17.75	18.10	15.03	12.15	6.75	5.50	3.70	2.90	
13	3.30	4.30	5.75	5.25	16.00	17.40	16.70	11.25	6.75	5.50	3.70	2.90	
14	3.30	8.10	6.50	4.10	15.68	17.75	22.70	10.65	6.75	5.50	3.70	2.90	
15	3.30	7.28	6.50	4.10	12.75	16.70	19.90	10.35	6.50	5.50	3.70	2.90	
16	3.10	7.28	5.00	4.30	15.35	11.55	18.45	10.05	6.25	5.50	3.30	2.90	
17	3.10	6.00	4.50	4.30	38.00	11.25	17.75	9.75	6.25	5.25	3.30	2.90	
18	3.50	4.75	7.83	4.10	27.50	15.03	16.70	8.65	6.00	4.75	3.30	2.90	
19	3.30	2.90	9.75	4.10	16.70	26.70	14.70	8.38	6.00	4.50	3.30	2.90	
20	3.50	2.90	9.75	4.10	15.03	25.50	13.73	8.38	6.00	4.30	3.30	2.90	
21	3.50	2.90	6.00	4.50	21.50	20.70	11.55	8.10	6.00	4.30	3.30	2.90	
22	3.50	4.75	5.75	6.00	24.70	22.30	11.25	7.83	5.75	4.30	3.30	2.90	
23	3.50	6.25	5.75	5.50	37.00	18.80	10.95	7.83	5.75	4.30	3.30	2.90	
24	3.30	6.50	6.00	5.75	59.23	12.75	10.65	7.83	5.75	4.30	3.10	2.90	
25	3.10	6.00	5.25	11.25	60.95	12.15	9.75	7.55	5.75	4.30	3.10	2.90	
26	2.90	5.50	6.00	9.75	28.85	11.25	9.48	7.55	5.75	4.10	3.10	2.35	
27	2.90	3.70	5.75	8.65	27.95	11.55	9.20	7.55	5.75	4.10	3.10	1.60	
28	2.90	4.30	5.25	9.48	31.10	12.45	8.93	7.55	5.75	4.10	2.90	1.60	
29	2.90	5.25	5.00	8.38	28.40	11.85	9.20	7.55	6.75	4.10	2.90	1.60	
30	2.90	6.25	5.75	6.25	25.90	10.95	9.20	7.28	11.55	4.10		1.60	
31		12.15		6.25	27.50		9.75		7.55	4.10		1.60	
Total	90.50	138.21	196.13	173.51	730.31	620.78	396.81	305.19	205.13	159.55	103.10	82.85	3202.07 CMSDAY
Mean	3.02	4.46	6.54	5.60	23.56	20.69	12.80	10.17	6.62	5.15	3.56	2.67	8.75 CMS
Max	3.50	12.15	23.10	11.25	60.95	46.50	22.70	23.50	11.55	8.10	4.10	2.90	60.95 CMS
Min	2.05	2.20	4.30	4.10	8.10	10.95	8.93	6.75	5.75	4.10	2.90	1.60	1.60 CMS
Runoff	7.82	11.94	16.95	14.99	63.10	53.64	34.28	26.37	17.72	13.79	8.91	7.16	276.66 MCM
Momentary Peak	66.13 CMS. at 442.15 m. (MSL.) at 06.00 Hours , on Aug 25 , 2019												
Runoff Yield	5.31 Liters/Second/Square KM.			Momentary Peak Yield			40.01 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai (P.92A)

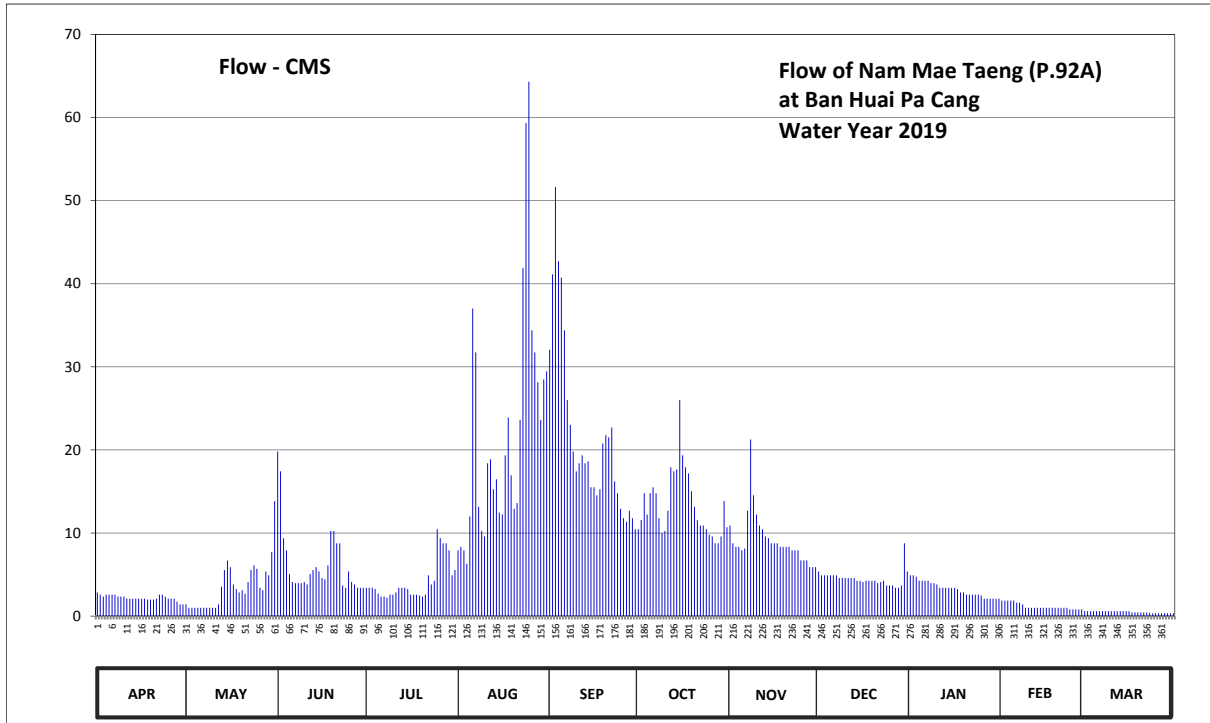
Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Huai Pa Cang.

	<b>Ban</b>	<b>Huai Pa Cang</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,866	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+346.652 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+355.324 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2017 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2017 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2017 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	347.31	347.19	348.13	347.35	347.61	348.54	347.73	347.75	347.48	347.45	347.23	347.11	
2	347.29	347.15	348.03	347.35	347.63	348.79	347.78	347.65	347.45	347.45	347.23	347.11	
3	347.27	347.15	347.68	347.35	347.61	349.05	347.92	347.63	347.45	347.44	347.23	347.11	
4	347.29	347.15	347.61	347.34	347.53	348.83	347.81	347.63	347.45	347.41	347.23	347.11	
5	347.29	347.15	347.46	347.30	347.80	348.78	347.92	347.61	347.45	347.41	347.23	347.11	
6	347.29	347.15	347.40	347.27	348.68	348.61	347.95	347.62	347.45	347.41	347.21	347.11	
7	347.29	347.15	347.39	347.27	348.53	348.35	347.92	347.83	347.45	347.41	347.21	347.11	
8	347.27	347.15	347.39	347.26	347.85	348.25	347.79	348.19	347.43	347.39	347.19	347.11	
9	347.27	347.15	347.39	347.29	347.72	348.13	347.71	347.91	347.43	347.39	347.15	347.11	
10	347.27	347.15	347.40	347.29	347.69	348.03	347.72	347.81	347.43	347.38	347.15	347.11	
11	347.25	347.15	347.38	347.31	348.07	348.07	347.83	347.75	347.43	347.35	347.15	347.11	
12	347.25	347.19	347.46	347.35	348.09	348.11	348.05	347.73	347.43	347.35	347.15	347.11	
13	347.25	347.36	347.49	347.35	347.94	348.07	348.03	347.69	347.43	347.35	347.15	347.11	
14	347.25	347.49	347.51	347.35	347.99	348.08	348.04	347.68	347.41	347.35	347.15	347.11	
15	347.25	347.55	347.48	347.34	347.82	347.95	348.35	347.65	347.41	347.35	347.15	347.11	
16	347.25	347.51	347.43	347.29	347.81	347.95	348.11	347.65	347.40	347.35	347.15	347.11	
17	347.25	347.38	347.42	347.29	348.11	347.91	348.05	347.65	347.41	347.34	347.15	347.09	
18	347.24	347.34	347.52	347.29	348.28	347.94	348.02	347.63	347.41	347.31	347.15	347.09	
19	347.24	347.31	347.72	347.28	348.01	348.17	347.93	347.63	347.41	347.31	347.15	347.09	
20	347.24	347.33	347.72	347.27	347.84	348.21	347.85	347.63	347.41	347.29	347.15	347.09	
21	347.25	347.30	347.65	347.29	347.87	348.20	347.78	347.63	347.39	347.29	347.15	347.09	
22	347.29	347.40	347.65	347.45	348.27	348.24	347.75	347.61	347.40	347.29	347.15	347.09	
23	347.29	347.49	347.37	347.38	348.81	347.98	347.75	347.61	347.41	347.29	347.15	347.08	
24	347.27	347.52	347.35	347.41	349.23	347.92	347.73	347.61	347.37	347.29	347.13	347.07	
25	347.25	347.50	347.48	347.73	349.34	347.84	347.70	347.55	347.37	347.28	347.13	347.07	
26	347.25	347.35	347.40	347.68	348.61	347.79	347.69	347.55	347.37	347.25	347.13	347.07	
27	347.25	347.33	347.38	347.65	348.53	347.77	347.65	347.55	347.35	347.25	347.13	347.07	
28	347.22	347.48	347.35	347.65	348.42	347.83	347.65	347.51	347.35	347.25	347.13	347.07	
29	347.19	347.45	347.35	347.61	348.27	347.79	347.69	347.51	347.37	347.25	347.13	347.07	
30	347.19	347.60	347.35	347.45	348.43	347.73	347.88	347.51	347.65	347.25	347.13	347.07	
31		347.88		347.49	348.46		347.74		347.48	347.25		347.07	
Mean	347.26	347.34	347.51	347.39	348.16	348.16	347.86	347.67	347.42	347.34	347.17	347.09	
Max	347.31	347.88	348.13	347.73	349.34	349.05	348.35	348.19	347.65	347.45	347.23	347.11	349.34
Min	347.19	347.15	347.35	347.26	347.53	347.73	347.65	347.51	347.35	347.25	347.13	347.07	347.07
Annual Max Momentary Gage Height	349.63		m. (MSL.) ,			at 06.00 Hours ,		on Aug 25 , 2019					
Zero Gage at Bottom Elevation	346.65		m. (MSL.) ,			River Bed	346.06	m. (MSL.)					
Left Bank Elevation		355.11		m. (MSL.) ,									
Right Bank Elevation		355.00		m. (MSL.) ,		Drainage Are	1,866	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.84	1.40	19.82	3.40	7.91	32.05	10.46	10.90	5.38	4.90	1.86	0.60	
2	2.58	1.00	17.42	3.40	8.33	41.13	11.56	8.75	4.90	4.90	1.86	0.60	
3	2.34	1.00	9.38	3.40	7.91	51.63	14.78	8.33	4.90	4.74	1.86	0.60	
4	2.58	1.00	7.91	3.26	6.30	42.70	12.23	8.33	4.90	4.26	1.86	0.60	
5	2.58	1.00	5.06	2.70	12.00	40.75	14.78	7.91	4.90	4.26	1.86	0.60	
6	2.58	1.00	4.10	2.34	37.00	34.38	15.50	8.12	4.90	4.26	1.62	0.60	
7	2.58	1.00	3.96	2.34	31.73	26.00	14.78	12.69	4.90	4.26	1.62	0.60	
8	2.34	1.00	3.96	2.22	13.15	23.00	11.78	21.26	4.58	3.96	1.40	0.60	
9	2.34	1.00	3.96	2.58	10.24	19.82	10.02	14.54	4.58	3.96	1.00	0.60	
10	2.34	1.00	4.10	2.58	9.59	17.42	10.24	12.23	4.58	3.82	1.00	0.60	
11	2.10	1.00	3.82	2.84	18.38	18.38	12.69	10.90	4.58	3.40	1.00	0.60	
12	2.10	1.40	5.06	3.40	18.86	19.34	17.90	10.46	4.58	3.40	1.00	0.60	
13	2.10	3.54	5.54	3.40	15.26	18.38	17.42	9.59	4.58	3.40	1.00	0.60	
14	2.10	5.54	5.90	3.40	16.46	18.62	17.66	9.38	4.26	3.40	1.00	0.60	
15	2.10	6.70	5.38	3.26	12.46	15.50	26.00	8.75	4.26	3.40	1.00	0.60	
16	2.10	5.90	4.58	2.58	12.23	15.50	19.34	8.75	4.10	3.40	1.00	0.60	
17	2.10	3.82	4.42	2.58	19.34	14.54	17.90	8.75	4.26	3.26	1.00	0.45	
18	1.98	3.26	6.10	2.58	23.90	15.26	17.18	8.33	4.26	2.84	1.00	0.45	
19	1.98	2.84	10.24	2.46	16.94	20.78	15.02	8.33	4.26	2.84	1.00	0.45	
20	1.98	3.12	10.24	2.34	12.92	21.80	13.15	8.33	4.26	2.58	1.00	0.45	
21	2.10	2.70	8.75	2.58	13.61	21.50	11.56	8.33	3.96	2.58	1.00	0.45	
22	2.58	4.10	8.75	4.90	23.60	22.70	10.90	7.91	4.10	2.58	1.00	0.45	
23	2.58	5.54	3.68	3.82	41.90	16.22	10.90	7.91	4.26	2.58	1.00	0.40	
24	2.34	6.10	3.40	4.26	59.35	14.78	10.46	7.91	3.68	2.58	0.80	0.35	
25	2.10	5.70	5.38	10.46	64.30	12.92	9.80	6.70	3.68	2.46	0.80	0.35	
26	2.10	3.40	4.10	9.38	34.38	11.78	9.59	6.70	3.68	2.10	0.80	0.35	
27	2.10	3.12	3.82	8.75	31.73	11.34	8.75	6.70	3.40	2.10	0.80	0.35	
28	1.74	5.38	3.40	8.75	28.15	12.69	8.75	5.90	3.40	2.10	0.80	0.35	
29	1.40	4.90	3.40	7.91	23.60	11.78	9.59	5.90	3.68	2.10	0.80	0.35	
30	1.40	7.70	3.40	4.90	28.48	10.46	13.84	5.90	8.75	2.10		0.35	
31		13.84		5.54	29.45		10.68		5.38	2.10		0.35	
<b>Total</b>	66.18	110.00	189.03	128.31	689.46	653.15	415.21	274.49	139.89	100.62	33.74	15.50	2815.58 CMSDAY
<b>Mean</b>	2.21	3.55	6.30	4.14	22.24	21.77	13.39	9.15	4.51	3.25	1.16	0.50	7.69 CMS
<b>Max</b>	2.84	13.84	19.82	10.46	64.30	51.63	26.00	21.26	8.75	4.90	1.86	0.60	64.30 CMS
<b>Min</b>	1.40	1.00	3.40	2.22	6.30	10.46	8.75	5.90	3.40	2.10	0.80	0.35	0.35 CMS
<b>Runoff</b>	5.72	9.50	16.33	11.09	59.57	56.43	35.87	23.72	12.09	8.69	2.92	1.34	243.27 MCM
<b>Momentary Peak</b>	78.00 CMS. at 349.63 m. (MSL.) at 06.00 Hours , on Aug 25 , 2019												
<b>Runoff Yield</b>	4.48	Liters/Second/Square KM.		Momentary Peak Yield			45.27	Liters/Second/Square KM.					

## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Rim at Ban Saluang Nok, Chiang Mai (P.93)

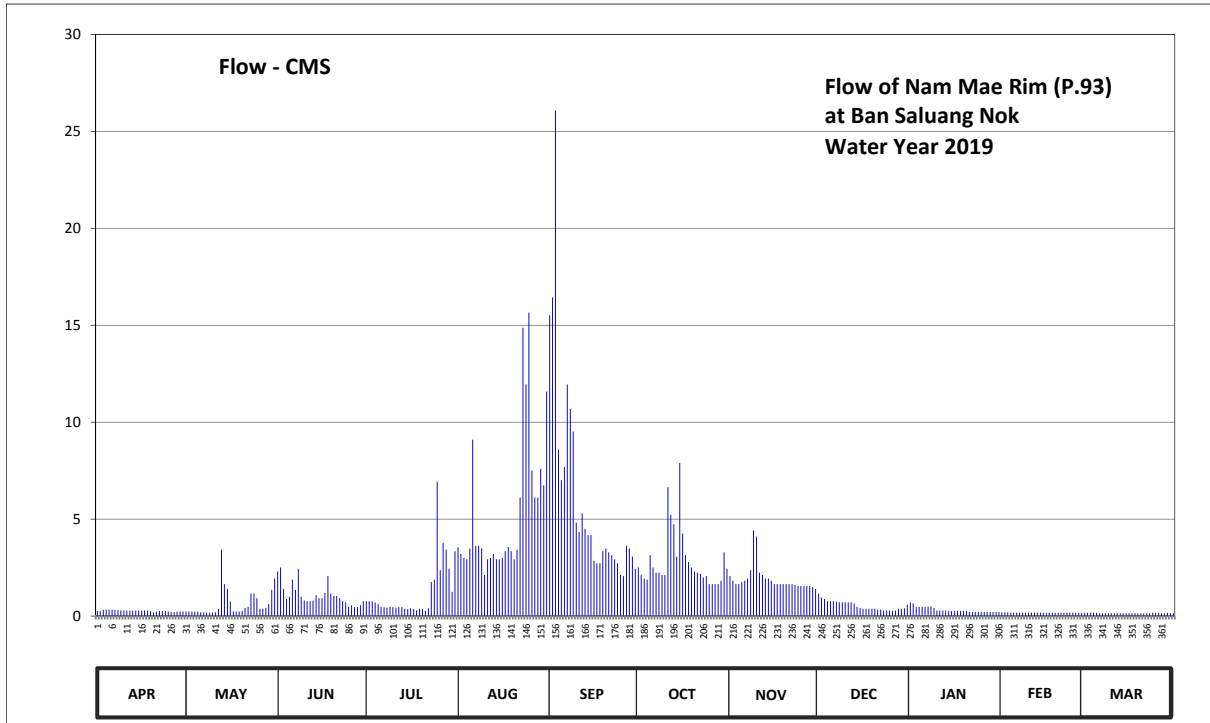
Lat 19 - 00 - 54 N Long 98 - 52 - 50 E

Location : on left bank at Ban Saluang Nok.

	<b>Ban Saluang Nok</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	411 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+340.588 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+344.720 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.67	340.66	341.20	340.89	341.38	342.54	341.23	341.16	340.99	340.87	340.63	340.61	
2	340.67	340.66	341.23	340.89	341.33	342.61	341.17	341.12	340.94	340.85	340.63	340.61	
3	340.71	340.66	341.04	340.89	341.30	343.24	341.14	341.09	340.92	340.79	340.63	340.61	
4	340.72	340.65	340.92	340.87	341.29	341.95	341.13	341.09	340.89	340.79	340.62	340.61	
5	340.72	340.65	340.95	340.84	341.37	341.79	341.32	341.11	340.89	340.79	340.62	340.61	
6	340.72	340.63	341.13	340.79	342.00	341.86	341.23	341.12	340.89	340.79	340.62	340.60	
7	340.71	340.63	341.03	340.78	341.39	342.26	341.19	341.14	340.88	340.79	340.62	340.60	
8	340.71	340.62	341.22	340.77	341.39	342.15	341.19	341.21	340.87	340.80	340.62	340.60	
9	340.70	340.62	340.95	340.79	341.37	342.04	341.17	341.49	340.87	340.76	340.62	340.60	
10	340.70	340.62	340.90	340.78	341.17	341.54	341.17	341.45	340.87	340.69	340.62	340.60	
11	340.69	340.63	340.89	340.77	341.29	341.48	341.75	341.19	340.87	340.69	340.62	340.60	
12	340.69	340.74	340.89	340.78	341.30	341.60	341.59	341.17	340.87	340.69	340.62	340.60	
13	340.69	341.36	340.90	340.78	341.33	341.50	341.53	341.14	340.85	340.69	340.62	340.60	
14	340.69	341.09	340.97	340.74	341.29	341.46	341.31	341.14	340.79	340.68	340.62	340.60	
15	340.69	341.04	340.93	340.73	341.29	341.46	341.88	341.12	340.76	340.68	340.61	340.60	
16	340.69	340.88	340.93	340.75	341.30	341.28	341.47	341.09	340.74	340.68	340.61	340.60	
17	340.69	340.66	341.00	340.73	341.35	341.26	341.32	341.09		340.68	340.62	340.60	
18	340.69	340.66	341.16	340.70	341.38	341.26	341.27	341.09	340.74	340.68	340.62	340.60	
19	340.67	340.66	340.99	340.74	341.35	341.35	341.23	341.09	340.74	340.68	340.61	340.59	
20	340.63	340.68	340.96	340.73	341.29	341.37	341.20	341.09	340.74	340.68	340.61	340.59	
21	340.65	340.76	340.96	340.68	341.36	341.34	341.19	341.09	340.72	340.64	340.61	340.59	
22	340.67	340.79	340.93	340.75	341.69	341.32	341.18	341.09	340.72	340.64	340.61	340.59	
23	340.67	340.99	340.89	341.11	342.49	341.29	341.15	341.08	340.69	340.64	340.62	340.60	
24	340.67	340.99	340.87	341.13	342.26	341.26	341.16	341.07	340.69	340.64	340.62	340.61	
25	340.66	340.93	340.79	341.78	342.55	341.17	341.09	341.07	340.69	340.64	340.62	340.61	
26	340.64	340.74	340.82	341.21	341.84	341.16	341.09	341.07	340.68	340.64	340.62	340.61	
27	340.64	340.74	340.78	341.41	341.69	341.39	341.09	341.07	340.69	340.64	340.61	340.60	
28	340.65	340.76	340.79	341.36	341.69	341.37	341.09	341.07	340.74	340.64	340.61	340.60	
29	340.66	340.84	340.82	341.22	341.85	341.31	341.12	341.06	340.74	340.64	340.61	340.61	
30	340.66	341.03	340.89	341.01	341.76	341.22	341.34	341.04	340.75	340.64	340.61	340.60	
31		341.14		341.35	342.23		341.22		340.83	340.64		340.60	
Mean	340.68	340.79	340.96	340.93	341.57	341.63	341.26	341.13	340.80	340.70	340.62	340.60	
Max	340.72	341.36	341.23	341.78	342.55	343.24	341.88	341.49	340.99	340.87	340.63	340.61	343.24
Min	340.63	340.62	340.78	340.68	341.17	341.16	341.09	341.04	340.68	340.64	340.61	340.59	340.59
Annual Max Momentary Gage Height	343.39		m. (MSL.) ,			at 06.00 Hours , on Sep 3 , 2019							
Zero Gage at Bottom Elevation	340.59		m. (MSL.) ,			River Bed	340.40	m. (MSL.)					
Left Bank Elevation		344.27		m. (MSL.) ,									
Right Bank Elevation		344.11		m. (MSL.) ,		Drainage Are	411	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.24	2.30	0.77	3.56	15.52	2.51	2.06	1.16	0.71	0.20	0.17	
2	0.26	0.24	2.51	0.77	3.21	16.44	2.12	1.82	0.96	0.65	0.20	0.17	
3	0.32	0.24	1.40	0.77	3.00	26.08	1.94	1.65	0.88	0.48	0.20	0.17	
4	0.34	0.23	0.88	0.71	2.93	8.60	1.88	1.65	0.77	0.48	0.18	0.17	
5	0.34	0.23	1.00	0.62	3.49	7.01	3.14	1.76	0.77	0.48	0.18	0.17	
6	0.34	0.20	1.88	0.48	9.10	7.70	2.51	1.82	0.77	0.48	0.18	0.15	
7	0.32	0.20	1.35	0.46	3.63	11.95	2.24	1.94	0.74	0.48	0.18	0.15	
8	0.32	0.18	2.44	0.44	3.63	10.68	2.24	2.37	0.71	0.50	0.18	0.15	
9	0.30	0.18	1.00	0.48	3.49	9.52	2.12	4.42	0.71	0.42	0.18	0.15	
10	0.30	0.18	0.80	0.46	2.12	4.82	2.12	4.10	0.71	0.29	0.18	0.15	
11	0.29	0.20	0.77	0.44	2.93	4.34	6.65	2.24	0.71	0.29	0.18	0.15	
12	0.29	0.38	0.77	0.46	3.00	5.30	5.22	2.12	0.71	0.29	0.18	0.15	
13	0.29	3.42	0.80	0.46	3.21	4.50	4.74	1.94	0.65	0.29	0.18	0.15	
14	0.29	1.65	1.08	0.38	2.93	4.18	3.07	1.94	0.48	0.27	0.18	0.15	
15	0.29	1.40	0.92	0.36	2.93	4.18	7.90	1.82	0.42	0.27	0.17	0.15	
16	0.29	0.74	0.92	0.40	3.00	2.86	4.26	1.65	0.38	0.27	0.17	0.15	
17	0.29	0.24	1.20	0.36	3.35	2.72	3.14	1.65	0.38	0.27	0.18	0.15	
18	0.29	0.24	2.06	0.30	3.56	2.72	2.79	1.65	0.38	0.27	0.18	0.15	
19	0.26	0.24	1.16	0.38	3.35	3.35	2.51	1.65	0.38	0.27	0.17	0.14	
20	0.20	0.27	1.04	0.36	2.93	3.49	2.30	1.65	0.38	0.27	0.17	0.14	
21	0.23	0.42	1.04	0.27	3.42	3.28	2.24	1.65	0.34	0.21	0.17	0.14	
22	0.26	0.48	0.92	0.40	6.11	3.14	2.18	1.65	0.34	0.21	0.17	0.14	
23	0.26	1.16	0.77	1.76	14.87	2.93	2.00	1.60	0.29	0.21	0.18	0.15	
24	0.26	1.16	0.71	1.88	11.95	2.72	2.06	1.55	0.29	0.21	0.18	0.17	
25	0.24	0.92	0.48	6.92	15.65	2.12	1.65	1.55	0.29	0.21	0.18	0.17	
26	0.21	0.38	0.56	2.37	7.50	2.06	1.65	1.55	0.27	0.21	0.18	0.17	
27	0.21	0.38	0.46	3.78	6.11	3.63	1.65	1.55	0.29	0.21	0.17	0.15	
28	0.23	0.42	0.48	3.42	6.11	3.49	1.65	1.55	0.38	0.21	0.17	0.15	
29	0.24	0.62	0.56	2.44	7.60	3.07	1.82	1.50	0.38	0.21	0.17	0.17	
30	0.24	1.35	0.77	1.25	6.74	2.44	3.28	1.40	0.40	0.21		0.15	
31		1.94		3.35	11.58		2.44		0.59	0.21		0.15	
Total	8.26	20.13	33.03	37.70	166.99	184.84	88.02	57.45	16.91	10.04	5.19	4.79	633.35 CMSDAY
Mean	0.28	0.65	1.10	1.22	5.39	6.16	2.84	1.91	0.55	0.32	0.18	0.15	1.73 CMS
Max	0.34	3.42	2.51	6.92	15.65	26.08	7.90	4.42	1.16	0.71	0.20	0.17	26.08 CMS
Min	0.20	0.18	0.46	0.27	2.12	2.06	1.65	1.40	0.27	0.21	0.17	0.14	0.14 CMS
Runoff	0.71	1.74	2.85	3.26	14.43	15.97	7.60	4.96	1.46	0.87	0.45	0.41	54.72 MCM
Momentary Peak	28.63	CMS.	at 343.39 m. (MSL.)	at 06.00 Hours	on Sep 3	2019							
Runoff Yield	4.22	Liters/Second/Square KM.			Momentary Peak Yield	69.66	Liters/Second/Square KM.						



## WATER YEAR : 2019

## WANG RIVER BASIN

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

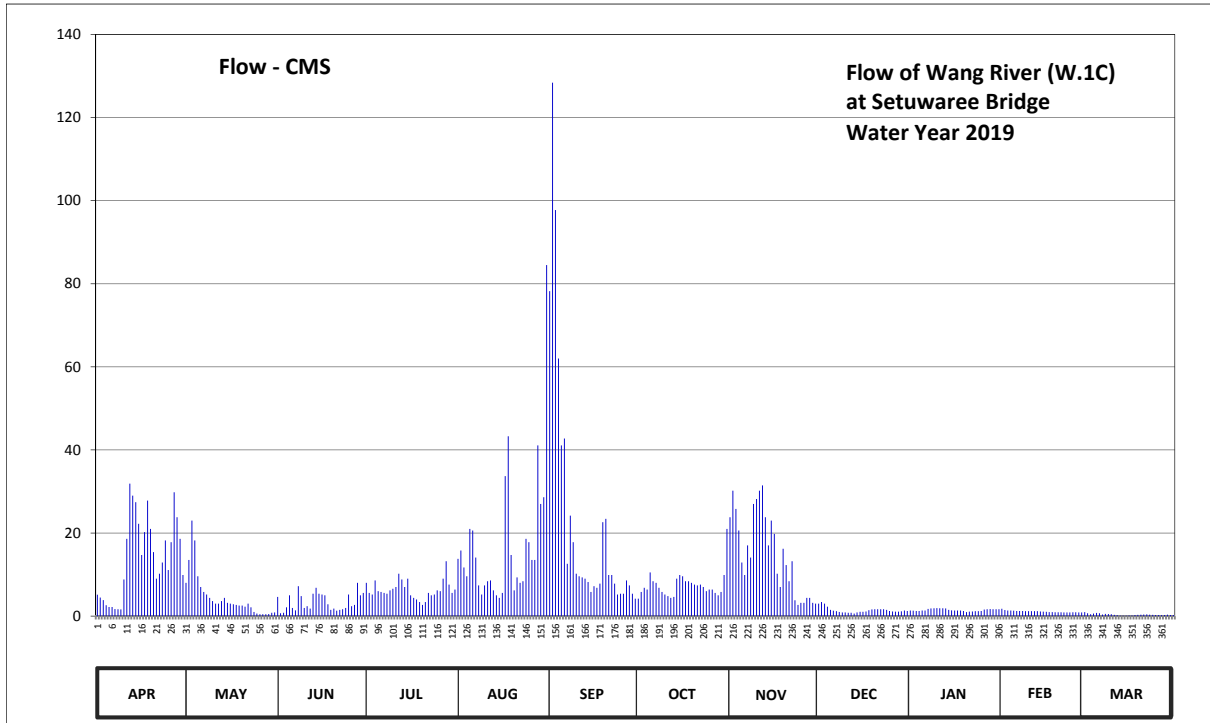
Lat 18 - 17 - 51 N Long 99 - 30 - 56 E

Location : on left bank at the bridge.

	<b>Ban</b> Setuwaree Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Lampang
<b>Drainage Area</b>	3,478 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+229.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+234.725 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1990 - 1998, 2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 - 1998, 2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1990 - 1998, 2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 47 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.53	228.95	228.78	228.95	229.16	230.46	228.76	229.42	228.70	228.74	228.84	228.66	
2	229.39	229.15	228.52	228.83	229.22	231.13	228.84	229.58	228.72	228.73	228.77	228.60	
3	229.27	229.40	228.53	228.81	229.09	230.73	228.89	229.47	228.70	228.72	228.74	228.53	
4	229.02	229.28	228.64	228.98	229.02	230.20	228.87	229.34	228.65	228.72	228.74	228.57	
5	228.93	229.02	228.80	228.85	229.35	229.82	229.05	229.13	228.60	228.74	228.73	228.61	
6	228.93	228.90	228.63	228.84	229.34	229.85	228.97	229.03	228.58	228.74	228.72	228.60	
7	228.82	228.84	228.59	228.83	229.17	229.12	228.95	229.25	228.57	228.83	228.72	228.51	
8	228.81	228.81	228.91	228.82	228.92	229.43	228.89	229.17	228.55	228.85	228.72	228.55	
9	228.80	228.77	228.79	228.86	228.81	229.27	228.84	229.50	228.54	228.86	228.71	228.54	
10	228.99	228.73	228.63	228.88	228.92	229.04	228.81	229.53	228.54	228.87	228.71	228.53	
11	229.29	228.70	228.66	228.90	228.97	229.02	228.79	229.58	228.53	228.86	228.71	228.49	
12	229.62	228.70	228.62	229.04	228.98	229.01	228.77	229.61	228.53	228.86	228.71	228.46	
13	229.55	228.73	228.82	228.99	228.86	229.00	228.78	229.42	228.57	228.85	228.71	228.43	
14	229.51	228.77	228.89	228.90	228.80	228.96	229.00	229.25	228.64	228.78	228.69	228.43	
15	229.38	228.71	228.82	229.00	228.77	228.84	229.03	229.40	228.67	228.75	228.68	228.43	
16	229.19	228.70	228.81	228.80	228.83	228.91	229.02	229.32	228.67	228.74	228.67	228.44	
17	229.33	228.69	228.80	228.77	229.66	228.89	228.97	229.04	228.69	228.74	228.66	228.44	
18	229.52	228.68	228.69	228.75	229.86	228.94	228.97	228.90	228.76	228.74	228.66	228.47	
19	229.35	228.67	228.60	228.72	229.19	229.39	228.95	229.23	228.80	228.72	228.65	228.49	
20	229.21	228.67	228.62	228.68	228.86	229.41	228.93	229.11	228.81	228.66	228.65	228.50	
21	229.00	228.65	228.58	228.72	229.01	229.03	228.92	228.97	228.81	228.68	228.65	228.51	
22	229.04	228.70	228.60	228.83	228.95	229.03	228.93	229.14	228.81	228.69	228.64	228.52	
23	229.13	228.64	228.61	228.80	228.97	228.94	228.90	228.74	228.81	228.71	228.64	228.50	
24	229.28	228.55	228.63	228.81	229.29	228.81	228.85	228.68	228.78	228.71	228.64	228.49	
25	229.07	228.51	228.81	228.86	229.27	228.82	228.87	228.71	228.72	228.72	228.65	228.48	
26	229.27	228.49	228.66	228.85	229.15	228.82	228.87	228.71	228.69	228.79	228.65	228.48	
27	229.57	228.49	228.68	229.00	229.15	228.98	228.83	228.77	228.68	228.81	228.64	228.46	
28	229.42	228.49	228.95	229.14	229.82	228.92	228.80	228.77	228.68	228.82	228.64	228.48	
29	229.29	228.50	228.80	228.93	229.50	228.82	228.84	228.71	228.70	228.81	228.65	228.50	
30	229.03	228.53	228.83	228.83	229.54	228.76	229.03	228.70	228.74	228.81	228.61	228.48	
31		228.54		228.87	230.55		229.35		228.72	228.81		228.48	
Mean	229.22	228.74	228.71	228.87	229.19	229.28	228.91	229.14	228.68	228.77	228.69	228.51	
Max	229.62	229.40	228.95	229.14	230.55	231.13	229.35	229.61	228.81	228.87	228.84	228.66	231.13
Min	228.80	228.49	228.52	228.68	228.77	228.76	228.76	228.68	228.53	228.66	228.64	228.43	228.43
Annual Max Momentary Gage Height	231.26		m. (MSL.) ,			at 09.00 Hours ,		on Sep 2 ,					
Zero Gage at Bottom Elevation	229.30		m. (MSL.) ,			River Bed	226.99	m. (MSL.)					
Left Bank Elevation		234.44		m. (MSL.) ,									
Right Bank Elevation		235.10		m. (MSL.) ,		Drainage Are	3,478	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.15	8.00	4.60	8.00	13.80	78.20	4.20	23.80	3.00	1.33	1.78	0.97	
2	4.45	13.50	0.70	5.60	15.80	128.40	5.80	30.20	3.40	1.29	1.47	0.70	
3	3.85	23.00	0.80	5.20	11.70	97.75	6.80	25.80	3.00	1.24	1.33	0.46	
4	2.60	18.20	2.10	8.60	9.60	62.00	6.40	20.60	2.25	1.24	1.33	0.60	
5	2.19	9.60	5.00	6.00	21.00	41.10	10.50	12.90	1.50	1.33	1.29	0.75	
6	2.19	7.00	1.95	5.80	20.60	42.75	8.40	9.90	1.30	1.33	1.24	0.70	
7	1.69	5.80	1.40	5.60	14.10	12.60	8.00	17.00	1.20	1.74	1.24	0.39	
8	1.65	5.20	7.20	5.40	7.40	24.20	6.80	14.10	1.00	1.83	1.24	0.53	
9	1.60	4.40	4.80	6.20	5.20	17.80	5.80	27.00	0.90	1.87	1.20	0.49	
10	8.80	3.60	1.95	6.60	7.40	10.20	5.20	28.20	0.90	1.92	1.20	0.46	
11	18.60	3.00	2.40	7.00	8.40	9.60	4.80	30.20	0.80	1.87	1.20	0.32	
12	31.90	3.00	1.80	10.20	8.60	9.30	4.40	31.45	0.80	1.87	1.20	0.21	
13	29.00	3.60	5.40	8.80	6.20	9.00	4.60	23.80	0.60	1.83	1.20	0.11	
14	27.40	4.40	6.80	7.00	5.00	8.20	9.00	17.00	0.88	1.51	1.11	0.11	
15	22.20	3.20	5.40	9.00	4.40	5.80	9.90	23.00	1.02	1.38	1.06	0.11	
16	14.70	3.00	5.20	5.00	5.60	7.20	9.60	19.80	1.02	1.33	1.02	0.14	
17	20.20	2.85	5.00	4.40	33.70	6.80	8.40	10.20	1.11	1.33	0.97	0.14	
18	27.80	2.70	2.85	4.00	43.30	7.80	8.40	7.00	1.42	1.33	0.97	0.25	
19	21.00	2.55	1.50	3.40	14.70	22.60	8.00	16.20	1.60	1.24	0.93	0.32	
20	15.40	2.55	1.80	2.70	6.20	23.40	7.60	12.30	1.65	0.97	0.93	0.35	
21	9.00	2.25	1.30	3.40	9.30	9.90	7.40	8.40	1.65	1.06	0.93	0.39	
22	10.20	3.00	1.50	5.60	8.00	9.90	7.60	13.20	1.65	1.11	0.88	0.42	
23	12.90	2.10	1.65	5.00	8.40	7.80	7.00	3.80	1.65	1.20	0.88	0.35	
24	18.20	1.00	1.95	5.20	18.60	5.20	6.00	2.70	1.51	1.20	0.88	0.32	
25	11.10	0.60	5.20	6.20	17.80	5.40	6.40	3.20	1.24	1.24	0.93	0.28	
26	17.80	0.45	2.40	6.00	13.50	5.40	6.40	3.20	1.11	1.56	0.93	0.28	
27	29.80	0.45	2.70	9.00	13.50	8.60	5.60	4.40	1.06	1.65	0.88	0.21	
28	23.80	0.45	8.00	13.20	41.10	7.40	5.00	4.40	1.06	1.69	0.88	0.28	
29	18.60	0.50	5.00	7.60	27.00	5.40	5.80	3.20	1.15	1.65	0.93	0.35	
30	9.90	0.80	5.60	5.60	28.60	4.20	9.90	3.00	1.33	1.65		0.28	
31		0.90		6.40	84.50		21.00		1.24	1.65		0.28	
<b>Total</b>	<b>423.67</b>	<b>141.65</b>	<b>103.95</b>	<b>197.70</b>	<b>533.00</b>	<b>693.90</b>	<b>230.70</b>	<b>449.95</b>	<b>44.00</b>	<b>45.44</b>	<b>32.03</b>	<b>11.55</b>	<b>2907.54</b> CMSDAY
<b>Mean</b>	<b>14.12</b>	<b>4.57</b>	<b>3.47</b>	<b>6.38</b>	<b>17.19</b>	<b>23.13</b>	<b>7.44</b>	<b>15.00</b>	<b>1.42</b>	<b>1.47</b>	<b>1.10</b>	<b>0.37</b>	<b>7.94</b> CMS
<b>Max</b>	<b>31.90</b>	<b>23.00</b>	<b>8.00</b>	<b>13.20</b>	<b>84.50</b>	<b>128.40</b>	<b>21.00</b>	<b>31.45</b>	<b>3.40</b>	<b>1.92</b>	<b>1.78</b>	<b>0.97</b>	<b>128.40</b> CMS
<b>Min</b>	<b>1.60</b>	<b>0.45</b>	<b>0.70</b>	<b>2.70</b>	<b>4.40</b>	<b>4.20</b>	<b>4.20</b>	<b>2.70</b>	<b>0.60</b>	<b>0.97</b>	<b>0.88</b>	<b>0.11</b>	<b>0.11</b> CMS
<b>Runoff</b>	<b>36.61</b>	<b>12.24</b>	<b>8.98</b>	<b>17.08</b>	<b>46.05</b>	<b>59.95</b>	<b>19.93</b>	<b>38.88</b>	<b>3.80</b>	<b>3.93</b>	<b>2.77</b>	<b>1.00</b>	<b>251.21</b> MCM
<b>Momentary Peak</b>		<b>138.80</b> CMS.											
<b>Runoff Yield</b>		<b>2.29</b>											

at 231.26 m. (MSL.) at 09.00 Hours , on Sep 2, 2019

Momentary Peak Yield 39.91 Liters/Second/Square KM.

## WATER YEAR : 2019

## WANG RIVER BASIN

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

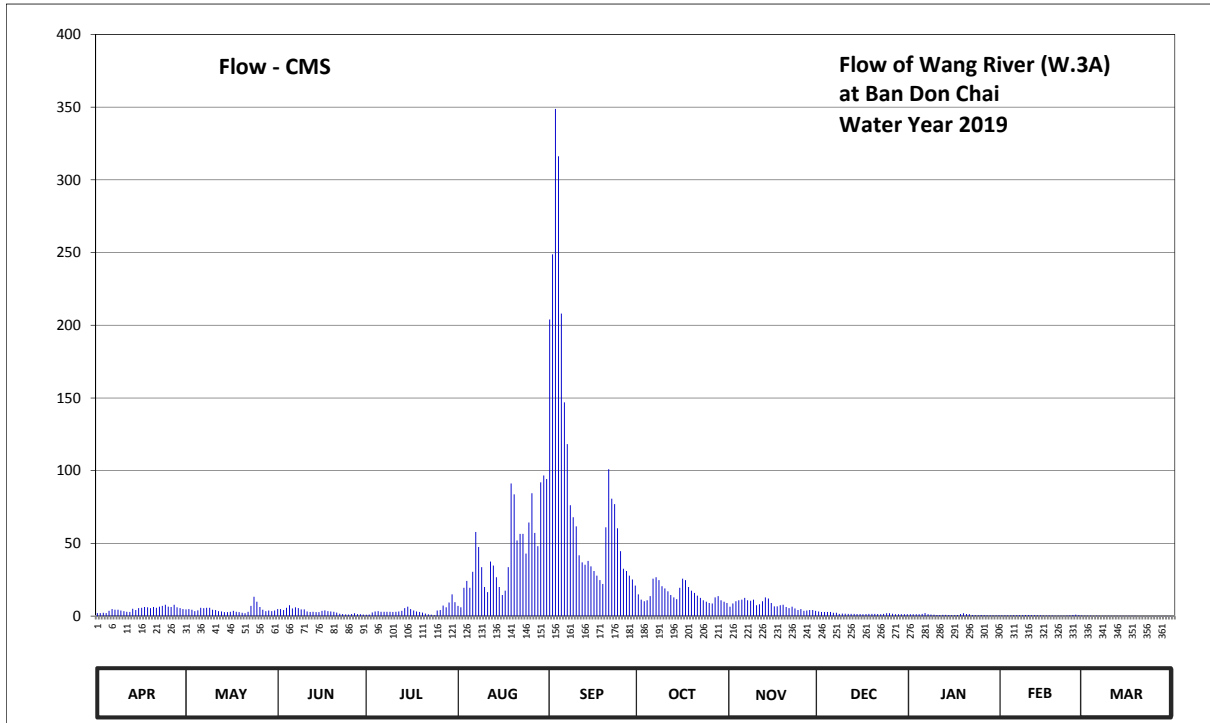
Lat 17 - 38 - 28 N Long 99 - 14 - 01 E

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

	<b>Ban Don Chai</b>	<b>Amphoe Thoen</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	8,924 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+161.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from automatic gage building	<b>Elevation</b>	+167.074 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The channel is filled of the Mimosa pudica plants. Stage-discharge relation defined by 33 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.44	160.58	160.59	160.34	160.68	163.34	160.91	160.66	160.51	160.37	160.25	160.21	
2	160.44	160.59	160.59	160.35	160.64	163.75	160.82	160.74	160.49	160.38	160.26	160.20	
3	160.45	160.57	160.56	160.47	161.00	164.55	160.79	160.79	160.49	160.37	160.27	160.20	
4	160.44	160.52	160.63	160.51	161.09	164.29	160.81	160.81	160.49	160.38	160.27	160.18	
5	160.53	160.55	160.70	160.52	161.00	163.38	160.88	160.82	160.49	160.40	160.28	160.19	
6	160.59	160.63	160.61	160.50	161.21	162.77	161.12	160.85	160.45	160.44	160.29	160.16	
7	160.57	160.62	160.64	160.50	161.69	162.47	161.14	160.81	160.45	160.38	160.28	160.15	
8	160.57	160.63	160.62	160.50	161.52	161.95	161.10	160.80	160.40	160.35	160.30	160.18	
9	160.54	160.63	160.58	160.50	161.27	161.84	161.02	160.82	160.42	160.33	160.31	160.18	
10	160.52	160.57	160.58	160.49	161.01	161.75	160.99	160.70	160.41	160.31	160.31	160.18	
11	160.50	160.56	160.51	160.50	160.94	161.42	160.95	160.72	160.40	160.31	160.30	160.17	
12	160.49	160.52	160.49	160.51	161.34	161.33	160.90	160.79	160.40	160.32	160.30	160.16	
13	160.60	160.51	160.50	160.53	161.29	161.30	160.86	160.86	160.40	160.32	160.27	160.15	
14	160.56	160.48	160.48	160.62	161.14	161.35	160.83	160.84	160.39	160.31	160.27	160.15	
15	160.62	160.48	160.48	160.66	161.01	161.28	161.00	160.75	160.39	160.30	160.23	160.15	
16	160.63	160.50	160.53	160.59	160.90	161.22	161.12	160.67	160.38	160.30	160.24	160.14	
17	160.65	160.53	160.55	160.54	160.96	161.16	161.10	160.67	160.39	160.31	160.22	160.14	
18	160.64	160.50	160.52	160.51	161.27	161.10	161.01	160.70	160.40	160.39	160.22	160.13	
19	160.62	160.48	160.51	160.49	162.15	161.05	160.96	160.71	160.40	160.43	160.20	160.11	
20	160.65	160.45	160.50	160.46	162.05	161.74	160.93	160.65	160.40	160.39	160.20	160.11	
21	160.63	160.43	160.46	160.42	161.60	162.27	160.89	160.62	160.39	160.37	160.20	160.10	
22	160.66	160.50	160.41	160.36	161.67	162.01	160.85	160.66	160.38	160.31	160.20	160.09	
23	160.68	160.68	160.39	160.34	161.67	161.96	160.81	160.61	160.40	160.28	160.24	160.09	
24	160.71	160.87	160.36	160.30	161.44	161.73	160.78	160.56	160.43	160.25	160.26	160.08	
25	160.66	160.78	160.35	160.54	161.79	161.47	160.75	160.59	160.43	160.31	160.31	160.08	
26	160.65	160.65	160.39	160.56	162.06	161.25	160.74	160.53	160.41	160.29	160.33	160.07	
27	160.71	160.57	160.43	160.69	161.68	161.22	160.86	160.54	160.38	160.27	160.28	160.06	
28	160.64	160.52	160.37	160.64	161.53	161.16	160.88	160.56	160.38	160.26	160.22	160.05	
29	160.62	160.54	160.38	160.76	162.16	161.11	160.81	160.56	160.38	160.26	160.22	160.06	
30	160.59	160.52	160.35	160.91	162.22	161.03	160.78	160.53	160.37	160.25	160.25	160.05	
31		160.54		160.77	162.19		160.75		160.38	160.25		160.04	
Mean	160.59	160.56	160.50	160.53	161.42	161.94	160.91	160.70	160.42	160.33	160.26	160.13	
Max	160.71	160.87	160.70	160.91	162.22	164.55	161.14	160.86	160.51	160.44	160.33	160.21	164.55
Min	160.44	160.43	160.35	160.30	160.64	161.03	160.74	160.53	160.37	160.25	160.20	160.04	160.04
Annual Max Momentary Gage Height	164.60		m. (MSL.) ,				at 06.00 Hours , on Sep 3 , 2019						
Zero Gage at Bottom Elevation	161.00		m. (MSL.) ,			River Bed	159.16	m. (MSL.)					
Left Bank Elevation		169.12		m. (MSL.) ,									
Right Bank Elevation		169.08		m. (MSL.) ,		Drainage Are	8,924	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.10	4.60	4.80	1.02	7.00	204.00	15.00	6.50	3.20	1.26	0.50	0.34	
2	2.10	4.80	4.80	1.10	6.00	248.75	11.30	8.70	2.85	1.34	0.54	0.30	
3	2.25	4.40	4.20	2.55	19.50	348.75	10.20	10.20	2.85	1.26	0.58	0.30	
4	2.10	3.40	5.75	3.20	24.18	316.25	10.90	10.90	2.85	1.34	0.58	0.26	
5	3.60	4.00	7.50	3.40	19.50	208.00	13.70	11.30	2.85	1.50	0.62	0.28	
6	4.80	5.75	5.25	3.00	30.44	147.00	25.74	12.50	2.25	2.10	0.66	0.22	
7	4.40	5.50	6.00	3.00	57.85	118.30	26.78	10.90	2.25	1.34	0.62	0.20	
8	4.40	5.75	5.50	3.00	47.48	76.25	24.70	10.50	1.50	1.10	0.70	0.26	
9	3.80	5.75	4.60	3.00	33.68	68.00	20.54	11.30	1.80	0.94	0.78	0.26	
10	3.40	4.40	4.60	2.85	20.02	61.75	19.00	7.50	1.65	0.78	0.78	0.26	
11	3.00	4.20	3.20	3.00	16.50	41.83	17.00	8.10	1.50	0.78	0.70	0.24	
12	2.85	3.40	2.85	3.20	37.46	36.92	14.50	10.20	1.50	0.86	0.70	0.22	
13	5.00	3.20	3.00	3.60	34.76	35.30	12.90	12.90	1.50	0.86	0.58	0.20	
14	4.20	2.70	2.70	5.50	26.78	38.00	11.70	12.10	1.42	0.78	0.58	0.20	
15	5.50	2.70	2.70	6.50	20.02	34.22	19.50	9.00	1.42	0.70	0.42	0.20	
16	5.75	3.00	3.60	4.80	14.50	30.98	25.74	6.75	1.34	0.70	0.46	0.18	
17	6.25	3.60	4.00	3.80	17.50	27.82	24.70	6.75	1.42	0.78	0.38	0.18	
18	6.00	3.00	3.40	3.20	33.68	24.70	20.02	7.50	1.50	1.42	0.38	0.16	
19	5.50	2.70	3.20	2.85	91.25	22.10	17.50	7.80	1.50	1.95	0.30	0.12	
20	6.25	2.25	3.00	2.40	83.75	61.10	16.00	6.25	1.50	1.42	0.30	0.12	
21	5.75	1.95	2.40	1.80	52.00	100.95	14.10	5.50	1.42	1.26	0.30	0.10	
22	6.50	3.00	1.65	1.18	56.55	80.75	12.50	6.50	1.34	0.78	0.30	0.09	
23	7.00	7.00	1.42	1.02	56.55	77.00	10.90	5.25	1.50	0.62	0.46	0.09	
24	7.80	13.30	1.18	0.70	42.96	60.45	9.90	4.20	1.95	0.50	0.54	0.08	
25	6.50	9.90	1.10	3.80	64.35	44.66	9.00	4.80	1.95	0.78	0.78	0.08	
26	6.25	6.25	1.42	4.20	84.50	32.60	8.70	3.60	1.65	0.66	0.94	0.07	
27	7.80	4.40	1.95	7.25	57.20	30.98	12.90	3.80	1.34	0.58	0.62	0.06	
28	6.00	3.40	1.26	6.00	48.05	27.82	13.70	4.20	1.34	0.54	0.38	0.05	
29	5.50	3.80	1.34	9.30	92.00	25.22	10.90	4.20	1.34	0.54	0.38	0.06	
30	4.80	3.40	1.10	15.00	96.70	21.06	9.90	3.60	1.26	0.50		0.05	
31		3.80		9.60	94.25		9.00		1.34	0.50		0.04	
Total	147.15	139.30	99.47	124.82	1386.96	2651.51	478.92	233.30	55.08	30.47	15.86	5.27	5368.11 CMSDAY
Mean	4.91	4.49	3.32	4.03	44.74	88.38	15.45	7.78	1.78	0.98	0.55	0.17	14.67 CMS
Max	7.80	13.30	7.50	15.00	96.70	348.75	26.78	12.90	3.20	2.10	0.94	0.34	348.75 CMS
Min	2.10	1.95	1.10	0.70	6.00	21.06	8.70	3.60	1.26	0.50	0.30	0.04	0.04 CMS
Runoff	12.71	12.04	8.59	10.78	119.83	229.09	41.38	20.16	4.76	2.63	1.37	0.46	463.80 MCM
Momentary Peak	355.00	CMS. at 164.60 m. (MSL.) at 06.00 Hours , on Sep 3, 2019											
Runoff Yield	1.65	Liters/Second/Square KM. Momentary Peak Yield 39.78 Liters/Second/Square KM.											

## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Don Mun , Lampang (W.10A)

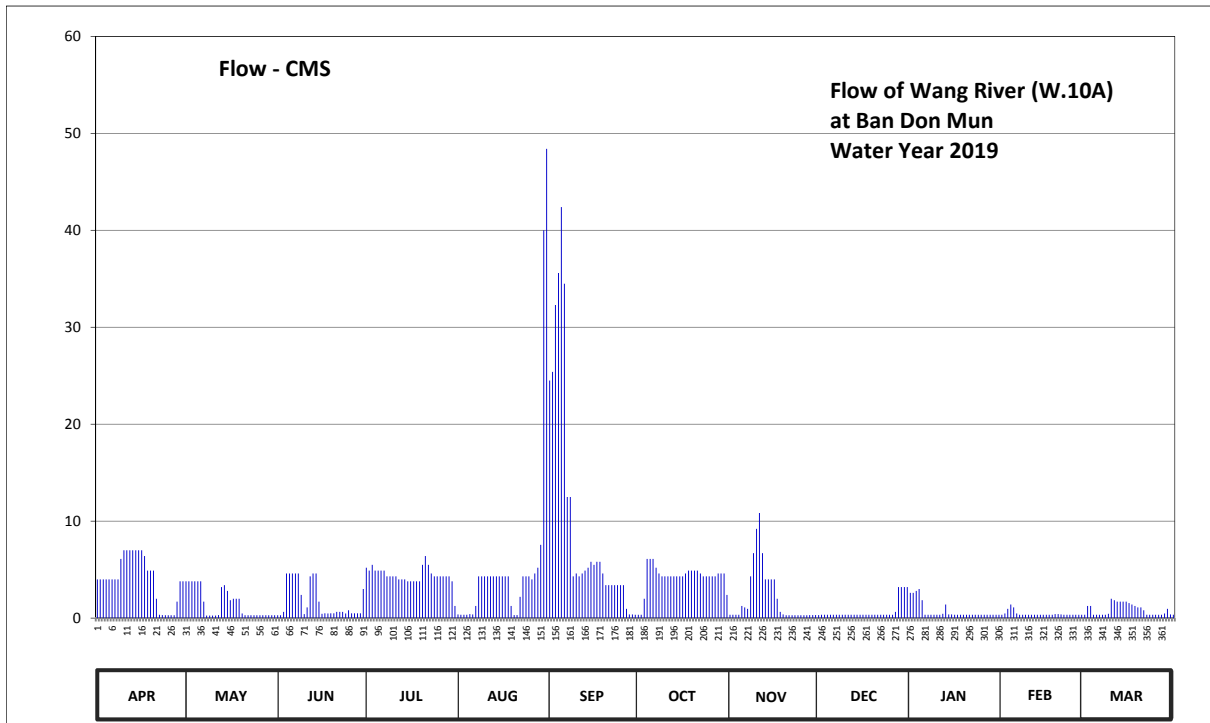
Lat 18 - 31 - 16 N Long 99 - 37 - 52 E

Location : on left bank at Ban Don Mun

	<b>Ban Don Mun</b>	<b>Amphoe Mueang</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	2,798 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+259.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the bridge.		<b>Elevation</b> +270.290 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

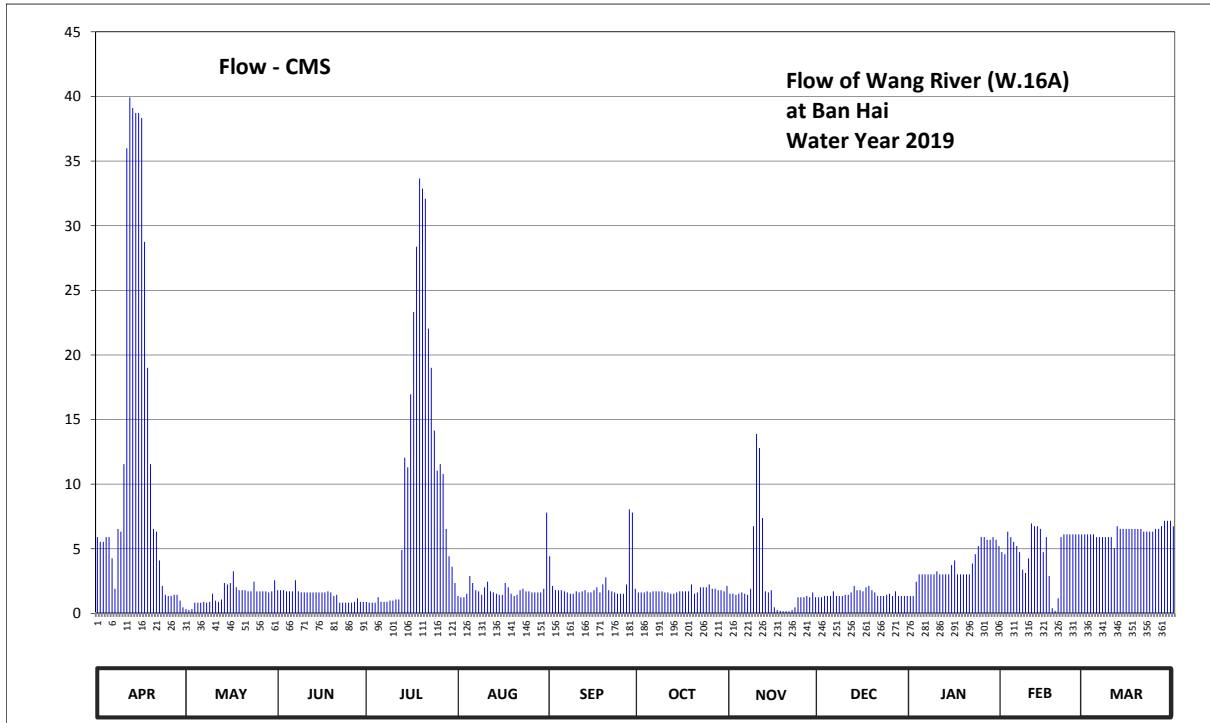
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	260.20	260.19	259.93	260.24	259.96	260.55	259.95	259.95	259.94	260.13	259.95	259.95	
2	260.20	260.19	259.93	260.23	259.95	260.56	259.95	259.95	259.95	260.13	259.99	260.05	
3	260.20	260.19	260.01	260.25	259.95	260.63	260.10	259.95	259.95	260.14	260.03	260.05	
4	260.20	260.19	260.22	260.23	259.95	260.66	260.27	259.95	259.95	260.15	260.06	259.95	
5	260.20	260.19	260.22	260.23	259.97	260.72	260.27	260.05	259.95	260.09	260.04	259.95	
6	260.20	260.16	260.22	260.23	259.96	260.65	260.27	260.04	259.95	259.95	259.99	259.95	
7	260.20	260.08	260.22	260.23	260.05	260.40	260.24	260.03	259.95	259.95	259.95	259.95	
8	260.20	259.92	260.22	260.21	260.21	260.40	260.22	260.21	259.95	259.95	259.95	259.95	
9	260.27	259.92	260.12	260.21	260.21	260.21	260.21	260.29	259.95	259.95	259.95	259.98	
10	260.30	259.92	259.97	260.21	260.21	260.22	260.21	260.34	259.95	259.95	259.95	260.10	
11	260.30	259.92	260.04	260.21	260.21	260.21	260.21	260.37	259.95	259.95	259.95	260.09	
12	260.30	259.94	260.21	260.20	260.21	260.22	260.21	260.29	259.95	259.98	259.95	260.08	
13	260.30	260.16	260.22	260.20	260.21	260.23	260.21	260.20	259.95	260.06	259.95	260.08	
14	260.30	260.17	260.22	260.20	260.21	260.24	260.21	260.20	259.95	259.96	259.95	260.08	
15	260.30	260.14	260.08	260.19	260.21	260.26	260.21	260.20	259.95	259.96	259.95	260.08	
16	260.30	260.09	259.98	260.19	260.21	260.25	260.21	260.20	259.95	259.95	259.95	260.07	
17	260.28	260.10	260.00	260.19	260.21	260.26	260.22	260.10	259.95	259.95	259.95	260.06	
18	260.23	260.10	259.99	260.19	260.21	260.26	260.23	260.01	259.95	259.95	259.95	260.05	
19	260.23	260.10	260.00	260.19	260.05	260.22	260.23	259.96	259.95	259.95	259.97	260.04	
20	260.23	259.99	260.00	260.25	259.94	260.17	260.23	259.93	259.95	259.95	259.97	260.04	
21	260.10	259.93	260.01	260.28	259.94	260.17	260.23	259.93	259.95	259.95	259.96	260.02	
22	259.95	259.93	260.01	260.25	260.11	260.17	260.22	259.93	259.95	259.95	259.95	259.95	
23	259.94	259.93	260.01	260.22	260.21	260.17	260.21	259.93	259.95	259.95	259.95	259.95	
24	259.93	259.93	259.99	260.21	260.21	260.17	260.21	259.93	259.95	259.95	259.95	259.95	
25	259.93	259.93	260.02	260.21	260.21	260.17	260.21	259.93	259.95	259.95	259.95	259.95	
26	259.93	259.93	260.00	260.21	260.20	260.17	260.21	259.93	259.95	259.95	259.95	259.95	
27	259.93	259.93	260.00	260.21	260.22	260.03	260.21	259.93	260.01	259.95	259.95	259.95	
28	260.08	259.93	260.00	260.21	260.24	259.96	260.22	259.94	260.16	259.95	259.95	259.99	
29	260.19	259.93	260.00	260.21	260.31	259.96	260.22	259.94	260.16	259.95	259.95	260.03	
30	260.19	259.93	260.15	260.19	260.70	259.95	260.22	259.94	260.16	259.95	259.95	259.96	
31		259.93		260.05	260.77		260.12		260.16	259.95		259.95	
Mean	260.17	260.03	260.07	260.21	260.17	260.27	260.20	260.05	259.98	259.98	259.96	260.01	
Max	260.30	260.19	260.22	260.28	260.77	260.72	260.27	260.37	260.16	260.15	260.06	260.10	260.77
Min	259.93	259.92	259.93	260.05	259.94	259.95	259.95	259.93	259.94	259.95	259.95	259.95	259.92
Annual Max Momentary Gage Height	260.89		m. (MSL.) ,				at 21.00 Hours , on Aug 30 , 2019						
Zero Gage at Bottom Elevation	259.00		m. (MSL.) ,			River Bed	258.09		m. (MSL.)				
Left Bank Elevation	270.17		m. (MSL.) ,										
Right Bank Elevation	269.86		m. (MSL.) ,			Drainage Are	2,798		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	3.80	0.29	5.20	0.38	24.50	0.35	0.35	0.32	2.60	0.35	0.35	
2	4.00	3.80	0.29	4.90	0.35	25.40	0.35	0.35	0.35	2.60	0.47	1.25	
3	4.00	3.80	0.65	5.50	0.35	32.30	2.00	0.35	0.35	2.80	0.95	1.25	
4	4.00	3.80	4.60	4.90	0.35	35.60	6.10	0.35	0.35	3.00	1.40	0.35	
5	4.00	3.80	4.60	4.90	0.41	42.40	6.10	1.25	0.35	1.85	1.10	0.35	
6	4.00	3.80	4.60	4.90	0.38	34.50	6.10	1.10	0.35	0.35	0.47	0.35	
7	4.00	1.70	4.60	4.90	1.25	12.50	5.20	0.95	0.35	0.35	0.35	0.35	
8	4.00	0.26	4.60	4.30	4.30	12.50	4.60	4.30	0.35	0.35	0.35	0.35	
9	6.10	0.26	2.40	4.30	4.30	4.30	4.30	6.70	0.35	0.35	0.35	0.44	
10	7.00	0.26	0.41	4.30	4.30	4.60	4.30	9.20	0.35	0.35	0.35	2.00	
11	7.00	0.26	1.10	4.30	4.30	4.30	4.30	10.85	0.35	0.35	0.35	1.85	
12	7.00	0.32	4.30	4.00	4.30	4.60	4.30	6.70	0.35	0.44	0.35	1.70	
13	7.00	3.20	4.60	4.00	4.30	4.90	4.30	4.00	0.35	1.40	0.35	1.70	
14	7.00	3.40	4.60	4.00	4.30	5.20	4.30	4.00	0.35	0.38	0.35	1.70	
15	7.00	2.80	1.70	3.80	4.30	5.80	4.30	4.00	0.35	0.38	0.35	1.70	
16	7.00	1.85	0.44	3.80	4.30	5.50	4.30	4.00	0.35	0.35	0.35	1.55	
17	6.40	2.00	0.50	3.80	4.30	5.80	4.60	2.00	0.35	0.35	0.35	1.40	
18	4.90	2.00	0.47	3.80	4.30	5.80	4.90	0.65	0.35	0.35	0.35	1.25	
19	4.90	2.00	0.50	3.80	1.25	4.60	4.90	0.38	0.35	0.35	0.41	1.10	
20	4.90	0.47	0.50	5.50	0.32	3.40	4.90	0.29	0.35	0.35	0.41	1.10	
21	2.00	0.29	0.65	6.40	0.32	3.40	4.90	0.29	0.35	0.35	0.38	0.80	
22	0.35	0.29	0.65	5.50	2.20	3.40	4.60	0.29	0.35	0.35	0.35	0.35	
23	0.32	0.29	0.65	4.60	4.30	3.40	4.30	0.29	0.35	0.35	0.35	0.35	
24	0.29	0.29	0.47	4.30	4.30	3.40	4.30	0.29	0.35	0.35	0.35	0.35	
25	0.29	0.29	0.80	4.30	4.30	3.40	4.30	0.29	0.35	0.35	0.35	0.35	
26	0.29	0.29	0.50	4.30	4.00	3.40	4.30	0.29	0.35	0.35	0.35	0.35	
27	0.29	0.29	0.50	4.30	4.60	0.95	4.30	0.29	0.65	0.35	0.35	0.35	
28	1.70	0.29	0.50	4.30	5.20	0.38	4.60	0.32	3.20	0.35	0.35	0.47	
29	3.80	0.29	0.50	4.30	7.55	0.38	4.60	0.32	3.20	0.35	0.35	0.95	
30	3.80	0.29	3.00	3.80	40.00	0.35	4.60	0.32	3.20	0.35		0.38	
31		0.29		1.25	48.40		2.40		3.20	0.35		0.35	
<b>Total</b>	121.33	46.77	53.97	136.25	177.51	300.96	131.70	64.76	22.52	23.15	12.94	27.14	1119.00 CMSDAY
<b>Mean</b>	4.04	1.51	1.80	4.40	5.73	10.03	4.25	2.16	0.73	0.75	0.45	0.88	3.06 CMS
<b>Max</b>	7.00	3.80	4.60	6.40	48.40	42.40	6.10	10.85	3.20	3.00	1.40	2.00	48.40 CMS
<b>Min</b>	0.29	0.26	0.29	1.25	0.32	0.35	0.35	0.29	0.32	0.35	0.35	0.35	0.26 CMS
<b>Runoff</b>	10.48	4.04	4.66	11.77	15.34	26.00	11.38	5.60	1.95	2.00	1.12	2.34	96.68 MCM
<b>Momentary Peak</b>		67.30											CMS. at 260.89 m. (MSL.) at 21.00 Hours , on Aug 30 , 2019
<b>Runoff Yield</b>		1.10											Liters/Second/Square KM. Momentary Peak Yield 24.05 Liters/Second/Square KM.





Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.91	0.34	1.80	0.90	1.35	4.42	1.62	1.53	1.26	1.35	4.74	6.12	
2	5.54	0.27	1.80	0.83	1.26	2.13	1.62	1.53	1.26	1.35	4.58	6.12	
3	5.54	0.34	1.80	0.83	1.26	1.80	1.62	1.44	1.35	2.46	6.33	6.12	
4	5.91	0.83	1.71	0.83	1.53	1.80	1.71	1.53	1.35	3.02	5.91	6.12	
5	5.91	0.83	1.71	1.26	2.90	1.80	1.62	1.62	1.35	3.02	5.54	5.91	
6	4.26	0.83	1.71	0.90	2.35	1.71	1.71	1.53	1.71	3.02	5.22	5.91	
7	1.91	0.90	2.57	0.90	1.80	1.62	1.71	1.44	1.35	3.02	4.74	5.91	
8	6.54	0.83	1.71	0.90	1.71	1.53	1.71	1.91	1.35	3.02	3.38	5.91	
9	6.33	0.90	1.62	0.99	1.44	1.53	1.71	6.75	1.35	3.02	3.14	5.91	
10	11.55	1.53	1.62	0.99	2.02	1.71	1.62	13.88	1.44	3.26	4.26	5.91	
11	35.99	0.99	1.62	1.08	2.46	1.62	1.62	12.80	1.44	3.02	6.96	5.06	
12	39.92	0.90	1.62	1.08	1.71	1.71	1.53	7.38	1.62	3.02	6.75	6.75	
13	39.11	1.08	1.62	4.90	1.62	1.80	1.53	1.71	2.13	3.02	6.75	6.54	
14	38.72	2.35	1.62	12.05	1.53	1.62	1.62	1.62	1.80	3.02	6.54	6.54	
15	38.72	2.24	1.62	11.30	1.44	1.62	1.71	1.80	1.80	3.74	4.74	6.54	
16	38.33	2.35	1.62	16.95	1.44	1.80	1.71	0.48	1.71	4.10	5.91	6.54	
17	28.74	3.26	1.62	23.32	2.35	2.02	1.71	0.27	2.02	3.02	2.90	6.54	
18	19.00	2.02	1.71	28.37	2.02	1.62	1.71	0.20	2.13	3.02	0.41	6.54	
19	11.55	1.80	1.62	33.65	1.53	2.24	2.24	0.18	1.80	3.02	0.20	6.54	
20	6.54	1.80	1.35	32.87	1.35	2.79	1.53	0.18	1.62	3.02	1.17	6.54	
21	6.33	1.80	1.44	32.09	1.44	1.80	1.62	0.16	1.35	3.02	5.91	6.33	
22	4.10	1.71	0.83	22.04	1.80	1.71	2.02	0.27	1.35	3.86	6.12	6.33	
23	2.13	1.71	0.83	19.00	1.91	1.62	2.02	0.48	1.35	4.58	6.12	6.33	
24	1.44	2.46	0.83	14.15	1.71	1.53	2.02	1.26	1.44	5.22	6.12	6.33	
25	1.35	1.71	0.83	11.05	1.71	1.53	2.24	1.26	1.53	5.91	6.12	6.54	
26	1.35	1.71	0.83	11.55	1.62	1.53	1.91	1.26	1.35	5.91	6.12	6.54	
27	1.44	1.71	0.90	10.80	1.62	2.24	1.91	1.35	1.71	5.70	6.12	6.75	
28	1.44	1.71	1.17	6.54	1.62	8.05	1.80	1.26	1.35	5.70	6.12	7.17	
29	0.99	1.62	0.90	4.42	1.62	7.80	1.80	1.62	1.35	5.91	6.12	7.17	
30	0.48	1.71	0.90	3.62	1.91	1.91	1.71	1.26	1.35	5.70	6.12	7.17	
31		2.57		2.35	7.80		2.13		1.35	5.22		6.75	
Total	377.07	46.81	43.53	312.51	59.83	68.61	54.74	69.96	47.32	115.27	145.04	197.48	1538.17 CMSDAY
Mean	12.57	1.51	1.45	10.08	1.93	2.29	1.77	2.33	1.53	3.72	5.00	6.37	4.20 CMS
Max	39.92	3.26	2.57	33.65	7.80	8.05	2.24	13.88	2.13	5.91	6.96	7.17	39.92 CMS
Min	0.48	0.27	0.83	0.83	1.26	1.53	1.53	0.16	1.26	1.35	0.20	5.06	0.16 CMS
Runoff	32.58	4.04	3.76	27.00	5.17	5.93	4.73	6.04	4.09	9.96	12.53	17.06	132.90 MCM
Momentary Peak	39.92	CMS.	CMS.	at 306.21 m. (MSL.)	at 14.00 Hours	, on Apr 11, 2019							
Runoff Yield	3.03	Liters/Second/Square KM.			Momentary Peak Yield	28.68	Liters/Second/Square KM.						



## WATER YEAR : 2019

## WANG RIVER BASIN

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

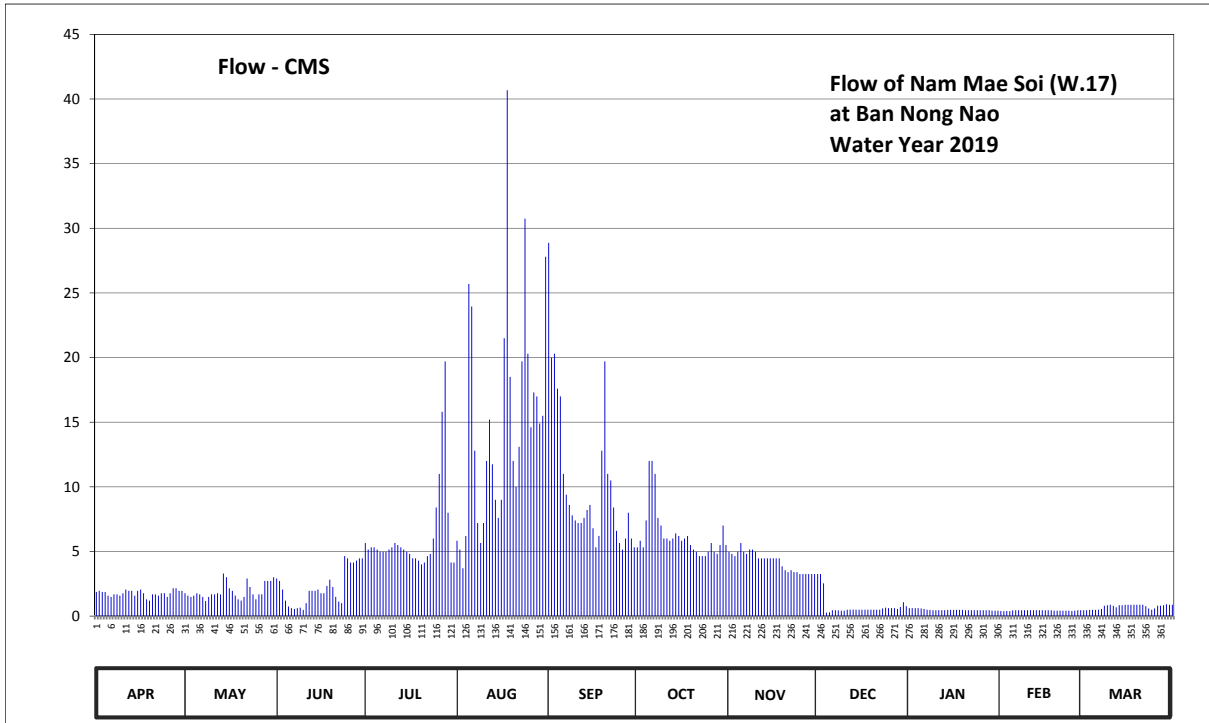
Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

	<b>Ban Nong Nao</b>	<b>Amphoe Chae Hom</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	726 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+292.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 21 meters from the top staff gage.	<b>Elevation</b>	+296.276 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1980 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

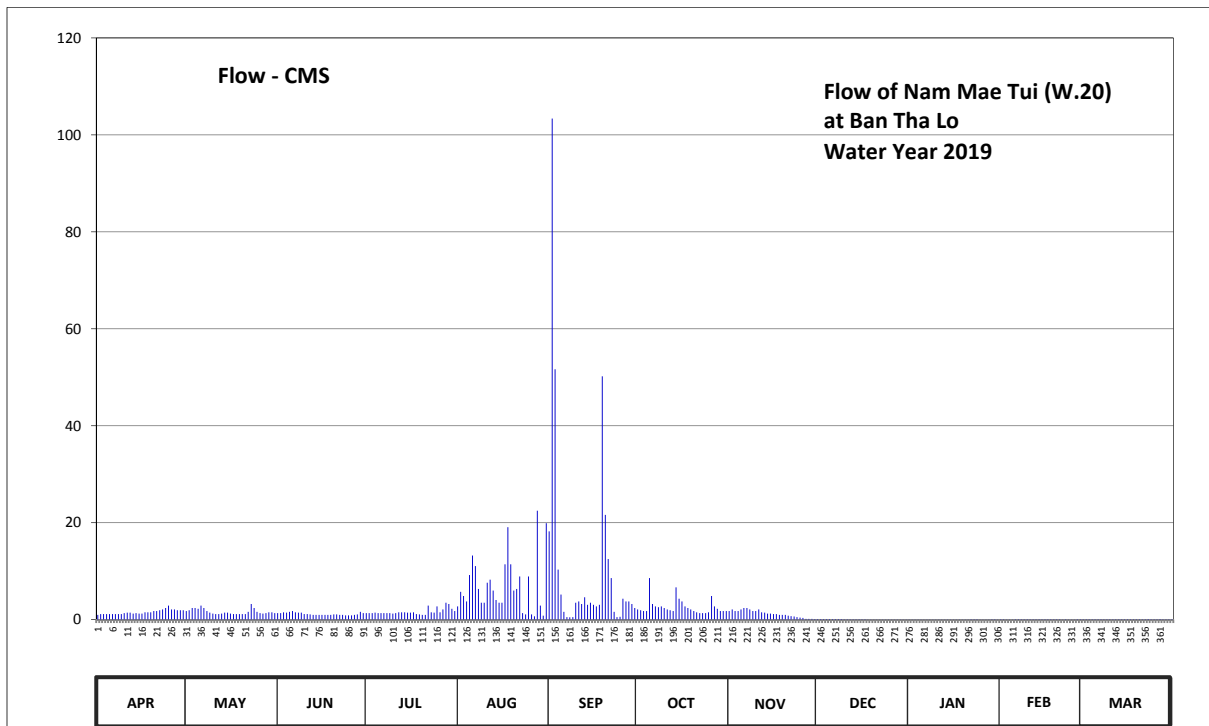
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.47	291.46	291.58	291.38	291.39	292.21	291.36	291.34	291.23	291.24	291.15	291.18	
2	291.48	291.44	291.56	291.35	291.35	291.95	291.39	291.33	291.23	291.24	291.14	291.18	
3	291.47	291.43	291.49	291.36	291.26	291.96	291.36	291.32	291.18	291.24	291.15	291.19	
4	291.47	291.44	291.40	291.36	291.41	291.87	291.47	291.34	291.07	291.24	291.14	291.19	
5	291.44	291.46	291.28	291.35	292.12	291.85	291.68	291.38	291.10	291.23	291.17	291.19	
6	291.43	291.45	291.24	291.34	292.07	291.64	291.68	291.34	291.18	291.22	291.18	291.20	
7	291.45	291.43	291.22	291.34	291.71	291.57	291.64	291.33	291.18	291.20	291.18	291.22	
8	291.45	291.39	291.24	291.34	291.46	291.53	291.48	291.35	291.17	291.19	291.18	291.30	
9	291.44	291.43	291.25	291.35	291.38	291.49	291.45	291.35	291.16	291.18	291.18	291.31	
10	291.46	291.45	291.19	291.36	291.46	291.47	291.40	291.34	291.16	291.18	291.18	291.32	
11	291.49	291.45	291.35	291.38	291.68	291.46	291.40	291.31	291.20	291.18	291.18	291.30	
12	291.48	291.46	291.48	291.37	291.79	291.46	291.39	291.31	291.20	291.18	291.18	291.26	
13	291.48	291.45	291.48	291.36	291.67	291.48	291.40	291.31	291.20	291.18	291.18	291.31	
14	291.44	291.62	291.48	291.35	291.55	291.51	291.42	291.31	291.20	291.19	291.18	291.31	
15	291.48	291.59	291.49	291.34	291.48	291.53	291.41	291.31	291.20	291.19	291.18	291.32	
16	291.49	291.50	291.46	291.33	291.55	291.44	291.39	291.31	291.20	291.19	291.18	291.32	
17	291.46	291.48	291.46	291.31	292.00	291.36	291.40	291.31	291.20	291.19	291.18	291.32	
18	291.41	291.44	291.52	291.31	292.51	291.41	291.41	291.31	291.20	291.19	291.17	291.32	
19	291.40	291.41	291.57	291.30	291.90	291.71	291.37	291.27	291.20	291.19	291.16	291.32	
20	291.45	291.40	291.51	291.28	291.68	291.94	291.35	291.25	291.20	291.18	291.16	291.32	
21	291.45	291.43	291.43	291.29	291.60	291.64	291.34	291.24	291.20	291.18	291.16	291.32	
22	291.44	291.58	291.38	291.32	291.72	291.62	291.32	291.25	291.20	291.18	291.16	291.29	
23	291.46	291.51	291.35	291.33	291.94	291.52	291.32	291.24	291.23	291.18	291.16	291.23	
24	291.46	291.45	291.32	291.40	292.26	291.43	291.32	291.24	291.25	291.18	291.16	291.20	
25	291.43	291.41	291.31	291.52	291.96	291.38	291.34	291.23	291.24	291.18	291.15	291.23	
26	291.46	291.45	291.29	291.64	291.77	291.35	291.38	291.23	291.24	291.18	291.16	291.30	
27	291.50	291.45	291.29	291.81	291.86	291.40	291.34	291.23	291.24	291.18	291.18	291.30	
28	291.50	291.56	291.30	291.94	291.85	291.50	291.33	291.23	291.22	291.18	291.18	291.31	
29	291.48	291.56	291.31	291.50	291.78	291.40	291.37	291.23	291.27	291.16	291.18	291.33	
30	291.48	291.56	291.31	291.29	291.80	291.36	291.45	291.23	291.37	291.16		291.32	
31		291.59		291.29	292.18		291.37		291.29	291.16		291.32	
Mean	291.46	291.48	291.38	291.39	291.75	291.58	291.41	291.29	291.21	291.19	291.17	291.28	
Max	291.50	291.62	291.58	291.94	292.51	292.21	291.68	291.38	291.37	291.24	291.18	291.33	292.51
Min	291.40	291.39	291.19	291.28	291.26	291.35	291.32	291.23	291.07	291.16	291.14	291.18	291.07
Annual Max Momentary Gage Height	292.73		m. (MSL.) ,			at 06.00 Hours ,	on Aug 18 , 2019						
Zero Gage at Bottom Elevation	292.00		m. (MSL.) ,			River Bed	290.73	m. (MSL.)					
Left Bank Elevation	296.51		m. (MSL.) ,										
Right Bank Elevation	296.46		m. (MSL.) ,			Drainage Are	726	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.87	1.77	2.91	5.66	5.83	28.88	5.32	4.98	3.25	0.62	0.40	0.46		
2	1.96	1.58	2.72	5.15	5.15	20.00	5.83	4.81	3.25	0.62	0.38	0.46		
3	1.87	1.49	2.06	5.32	3.70	20.30	5.32	4.64	2.54	0.62	0.40	0.48		
4	1.87	1.58	1.20	5.32	6.20	17.60	7.40	4.98	0.27	0.62	0.38	0.48		
5	1.58	1.77	0.74	5.15	25.70	17.00	12.00	5.66	0.30	0.59	0.44	0.48		
6	1.49	1.68	0.62	4.98	23.95	11.00	12.00	4.98	0.46	0.56	0.46	0.50		
7	1.68	1.49	0.56	4.98	12.80	9.40	11.00	4.81	0.46	0.50	0.46	0.56		
8	1.68	1.16	0.62	4.98	7.20	8.60	7.60	5.15	0.44	0.48	0.46	0.80		
9	1.58	1.49	0.65	5.15	5.66	7.80	7.00	5.15	0.42	0.46	0.46	0.84		
10	1.77	1.68	0.48	5.32	7.20	7.40	6.00	4.98	0.42	0.46	0.46	0.88		
11	2.06	1.68	1.00	5.66	12.00	7.20	6.00	4.47	0.50	0.46	0.46	0.80		
12	1.96	1.77	1.96	5.49	15.20	7.20	5.83	4.47	0.50	0.46	0.46	0.68		
13	1.96	1.68	1.96	5.32	11.75	7.60	6.00	4.47	0.50	0.46	0.46	0.84		
14	1.58	3.29	1.96	5.15	9.00	8.20	6.40	4.47	0.50	0.48	0.46	0.84		
15	1.96	3.01	2.06	4.98	7.60	8.60	6.20	4.47	0.50	0.48	0.46	0.88		
16	2.06	2.15	1.77	4.81	9.00	6.80	5.83	4.47	0.50	0.48	0.46	0.88		
17	1.77	1.96	1.77	4.47	21.50	5.32	6.00	4.47	0.50	0.48	0.46	0.88		
18	1.30	1.58	2.34	4.47	40.68	6.20	6.20	4.47	0.50	0.48	0.44	0.88		
19	1.20	1.30	2.82	4.30	18.50	12.80	5.49	3.85	0.50	0.48	0.42	0.88		
20	1.68	1.20	2.25	4.00	12.00	19.70	5.15	3.55	0.50	0.46	0.42	0.88		
21	1.68	1.49	1.49	4.15	10.00	11.00	4.98	3.40	0.50	0.46	0.42	0.88		
22	1.58	2.91	1.12	4.64	13.10	10.50	4.64	3.55	0.50	0.46	0.42	0.77		
23	1.77	2.25	1.00	4.81	19.70	8.40	4.64	3.40	0.59	0.46	0.42	0.59		
24	1.77	1.68	4.64	6.00	30.75	6.60	4.64	3.40	0.65	0.46	0.42	0.50		
25	1.49	1.30	4.47	8.40	20.30	5.66	4.98	3.25	0.62	0.46	0.40	0.59		
26	1.77	1.68	4.15	11.00	14.60	5.15	5.66	3.25	0.62	0.46	0.42	0.80		
27	2.15	1.68	4.15	15.80	17.30	6.00	4.98	3.25	0.62	0.46	0.46	0.80		
28	2.15	2.72	4.30	19.70	17.00	8.00	4.81	3.25	0.56	0.46	0.46	0.84		
29	1.96	2.72	4.47	8.00	14.90	6.00	5.49	3.25	0.71	0.42	0.46	0.92		
30	1.96	2.72	4.47	4.15	15.50	5.32	7.00	3.25	1.08	0.42		0.88		
31		3.01		4.15	27.80		5.49		0.77	0.42		0.88		
<b>Total</b>	53.16	59.47	66.71	191.46	461.57	310.23	195.88	126.55	24.03	15.19	12.68	22.83	1539.76	CMSDAY
<b>Mean</b>	1.77	1.92	2.22	6.18	14.89	10.34	6.32	4.22	0.78	0.49	0.44	0.74	4.21	CMS
<b>Max</b>	2.15	3.29	4.64	19.70	40.68	28.88	12.00	5.66	3.25	0.62	0.46	0.92	40.68	CMS
<b>Min</b>	1.20	1.16	0.48	4.00	3.70	5.15	4.64	3.25	0.27	0.42	0.38	0.46	0.27	CMS
<b>Runoff</b>	4.59	5.14	5.76	16.54	39.88	26.80	16.92	10.93	2.08	1.31	1.10	1.97	133.04	MCM
<b>Momentary Peak</b>	50.35 CMS. at 292.73 m. (MSL.) at 06.00 Hours , on Aug 18 , 2019													
<b>Runoff Yield</b>	5.81 Liters/Second/Square KM.			Momentary Peak Yield			69.35 Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.97	1.76	1.33	1.33	2.72	18.20	2.08	1.76	0.12	0.04	0.07	0.07	
2	1.15	1.92	1.33	1.33	5.72	103.38	1.92	2.08	0.11	0.04	0.07	0.07	
3	1.15	2.40	1.51	1.33	4.88	51.63	1.76	1.76	0.11	0.04	0.06	0.08	
4	1.15	2.40	1.42	1.42	3.76	10.30	1.76	1.76	0.11	0.05	0.06	0.08	
5	1.15	2.24	1.60	1.33	9.20	5.16	8.56	2.08	0.11	0.05	0.06	0.07	
6	1.15	2.88	1.76	1.33	13.22	1.60	3.20	2.40	0.11	0.05	0.07	0.07	
7	1.15	2.40	1.51	1.33	11.03	0.50	2.72	2.40	0.11	0.05	0.07	0.07	
8	1.15	1.76	1.42	1.33	6.32	0.48	2.56	2.08	0.11	0.05	0.07	0.07	
9	1.15	1.42	1.42	1.33	3.48	0.52	2.72	1.76	0.10	0.05	0.07	0.07	
10	1.33	1.24	1.15	1.24	3.48	3.48	2.40	1.76	0.09	0.05	0.08	0.07	
11	1.42	1.15	1.15	1.33	7.60	3.76	2.08	2.08	0.09	0.05	0.07	0.07	
12	1.42	1.15	1.06	1.51	8.24	3.20	1.92	1.51	0.09	0.05	0.08	0.09	
13	1.24	1.24	0.97	1.51	6.00	4.60	1.76	1.42	0.09	0.05	0.08	0.08	
14	1.33	1.42	0.97	1.51	4.04	3.04	6.64	1.24	0.08	0.05	0.08	0.07	
15	1.24	1.42	0.97	1.42	3.48	3.48	4.32	1.24	0.08	0.05	0.08	0.08	
16	1.24	1.24	0.97	1.42	3.48	3.04	3.76	1.15	0.08	0.05	0.08	0.07	
17	1.51	1.15	0.97	1.51	11.39	2.72	2.72	1.15	0.08	0.05	0.09	0.07	
18	1.51	1.15	0.97	1.15	19.05	3.04	2.40	0.97	0.06	0.05	0.09	0.07	
19	1.51	1.15	0.97	1.06	11.39	50.18	2.08	0.97	0.06	0.05	0.09	0.07	
20	1.76	1.15	1.06	0.97	6.00	21.60	1.76	0.97	0.06	0.06	0.09	0.08	
21	1.76	1.15	1.06	0.97	6.32	12.49	1.51	0.79	0.06	0.06	0.07	0.08	
22	1.92	1.60	0.97	2.88	8.88	8.56	1.33	0.70	0.06	0.07	0.06	0.08	
23	2.08	3.20	0.97	1.51	1.33	1.60	1.33	0.64	0.05	0.07	0.07	0.10	
24	2.40	2.40	0.88	1.42	1.06	0.50	1.33	0.50	0.05	0.07	0.06	0.09	
25	2.88	1.60	0.88	2.72	8.88	0.56	1.51	0.41	0.05	0.06	0.05	0.09	
26	2.08	1.33	0.88	1.51	1.06	4.32	4.88	0.35	0.05	0.06	0.06	0.09	
27	2.08	1.24	0.97	2.08	0.66	3.76	2.72	0.16	0.05	0.05	0.07	0.10	
28	1.92	1.33	1.06	3.48	22.45	3.76	2.24	0.14	0.05	0.06	0.08	0.09	
29	1.92	1.51	1.60	3.20	2.88	3.20	1.76	0.13	0.05	0.07	0.07	0.09	
30	1.92	1.51	1.33	2.24	0.79	2.40	1.76	0.12	0.04	0.07		0.07	
31		1.33		1.76	19.90		1.76		0.04	0.06		0.07	
<b>Total</b>	46.64	50.84	35.11	50.46	218.69	335.06	81.25	36.48	2.40	1.68	2.10	2.42	863.13 CMSDAY
<b>Mean</b>	1.55	1.64	1.17	1.63	7.05	11.17	2.62	1.22	0.08	0.05	0.07	0.08	2.36 CMS
<b>Max</b>	2.88	3.20	1.76	3.48	22.45	103.38	8.56	2.40	0.12	0.07	0.09	0.10	103.38 CMS
<b>Min</b>	0.97	1.15	0.88	0.97	0.66	0.48	1.33	0.12	0.04	0.04	0.05	0.07	0.04 CMS
<b>Runoff</b>	4.03	4.39	3.03	4.36	18.89	28.95	7.02	3.15	0.21	0.15	0.18	0.21	74.57 MCM
<b>Momentary Peak</b>	200.08 CMS. at 233.17 m. (MSL.) at 06.00 Hours , on Sep 2, 2019												
<b>Runoff Yield</b>	2.51 Liters/Second/Square KM.			Momentary Peak Yield				212.62 Liters/Second/Square KM.					

## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Tha Dua , Lampang (W.21)

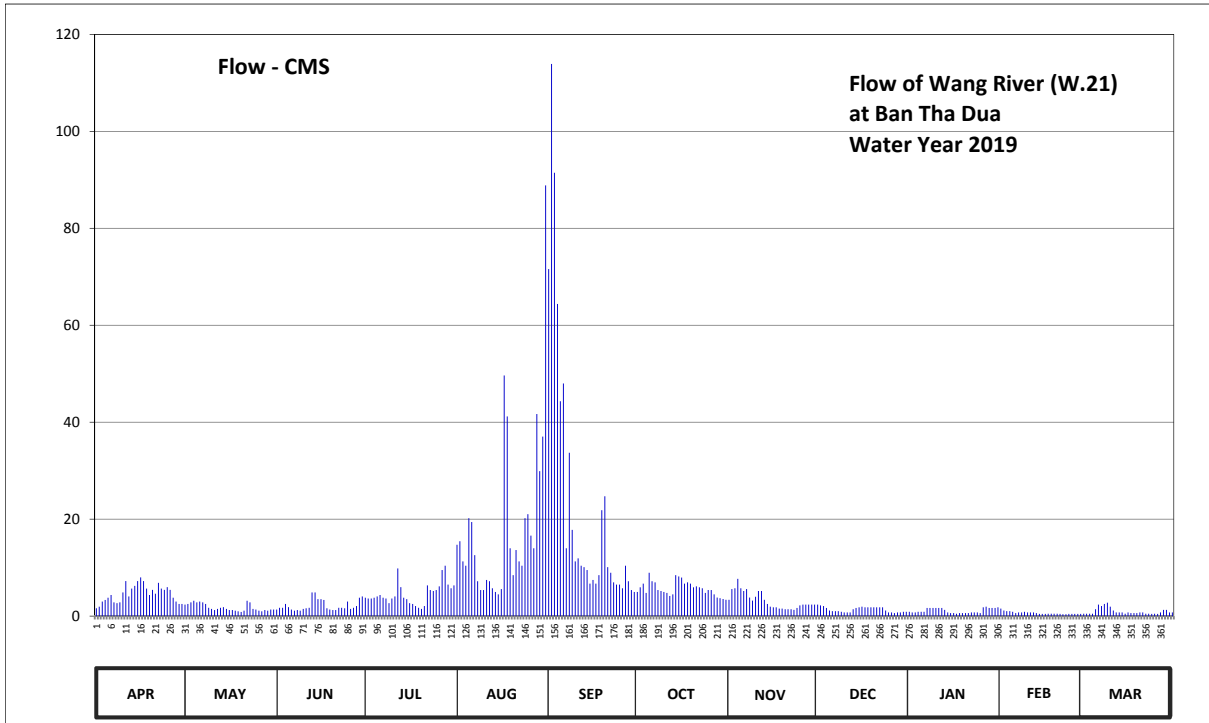
Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban Tha Dua	Amphoe Mueang	Changwat Lampang
<b>Drainage Area</b>	3,367 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+232.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+236.495 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 34 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	231.65	231.71	231.63	231.80	232.07	233.21	231.71	231.61	231.54	231.43	231.48	231.40	
2	231.68	231.72	231.66	231.79	232.09	233.87	231.76	231.74	231.53	231.42	231.45	231.40	
3	231.75	231.74	231.66	231.79	231.97	233.53	231.80	231.75	231.52	231.42	231.44	231.40	
4	231.77	231.76	231.72	231.80	231.94	233.09	231.70	231.84	231.49	231.43	231.44	231.40	
5	231.80	231.74	231.67	231.81	232.21	232.73	231.89	231.75	231.45	231.43	231.43	231.47	
6	231.82	231.75	231.63	231.82	232.19	232.80	231.82	231.72	231.44	231.43	231.41	231.54	
7	231.74	231.74	231.61	231.80	232.01	232.05	231.81	231.74	231.44	231.49	231.42	231.52	
8	231.73	231.72	231.62	231.79	231.82	232.52	231.73	231.64	231.44	231.49	231.42	231.55	
9	231.74	231.66	231.61	231.73	231.73	232.15	231.72	231.60	231.43	231.49	231.43	231.57	
10	231.84	231.64	231.64	231.79	231.73	231.97	231.71	231.65	231.42	231.49	231.42	231.51	
11	231.92	231.62	231.65	231.81	231.83	231.99	231.70	231.72	231.42	231.49	231.42	231.45	
12	231.81	231.64	231.66	231.99	231.82	231.94	231.66	231.72	231.42	231.49	231.42	231.42	
13	231.87	231.66	231.84	231.88	231.75	231.93	231.68	231.61	231.47	231.46	231.41	231.42	
14	231.89	231.67	231.84	231.80	231.71	231.91	231.87	231.55	231.49	231.42	231.39	231.42	
15	231.92	231.64	231.78	231.78	231.68	231.80	231.86	231.51	231.50	231.41	231.39	231.40	
16	231.94	231.62	231.78	231.73	231.74	231.83	231.85	231.50	231.51	231.41	231.39	231.42	
17	231.92	231.62	231.77	231.72	232.83	231.80	231.80	231.50	231.50	231.40	231.40	231.41	
18	231.87	231.61	231.65	231.69	232.67	231.87	231.81	231.48	231.50	231.41	231.40	231.41	
19	231.82	231.60	231.63	231.66	232.05	232.25	231.80	231.48	231.50	231.41	231.40	231.41	
20	231.86	231.58	231.62	231.64	231.87	232.32	231.76	231.47	231.50	231.41	231.40	231.42	
21	231.83	231.61	231.62	231.69	232.04	231.93	231.77	231.47	231.50	231.41	231.39	231.42	
22	231.91	231.76	231.66	231.78	231.97	231.89	231.76	231.47	231.50	231.42	231.38	231.40	
23	231.87	231.74	231.66	231.73	231.94	231.81	231.75	231.46	231.50	231.42	231.38	231.40	
24	231.86	231.64	231.65	231.72	232.21	231.79	231.70	231.49	231.45	231.42	231.39	231.39	
25	231.88	231.63	231.75	231.73	232.23	231.79	231.73	231.53	231.42	231.41	231.39	231.40	
26	231.86	231.61	231.64	231.77	232.12	231.75	231.73	231.54	231.42	231.50	231.39	231.39	
27	231.80	231.60	231.66	231.91	232.05	231.94	231.68	231.54	231.41	231.51	231.39	231.42	
28	231.75	231.62	231.69	231.94	232.68	231.82	231.64	231.54	231.42	231.49	231.39	231.46	
29	231.72	231.61	231.80	231.79	232.44	231.73	231.63	231.54	231.42	231.49	231.39	231.46	
30	231.72	231.63	231.81	231.75	232.59	231.71	231.62	231.54	231.43	231.49	231.49	231.42	
31		231.63		231.78	233.49		231.61		231.43	231.50		231.42	
Mean	231.82	231.66	231.69	231.78	232.11	232.19	231.74	231.59	231.46	231.45	231.41	231.44	
Max	231.94	231.76	231.84	231.99	233.49	233.87	231.89	231.84	231.54	231.51	231.48	231.57	233.87
Min	231.65	231.58	231.61	231.64	231.68	231.71	231.61	231.46	231.41	231.40	231.38	231.39	231.38
Annual Max Momentary Gage Height	233.97		m. (MSL.) ,				at 11.00 Hours ,	on Sep 2 , 2019					
Zero Gage at Bottom Elevation	232.00		m. (MSL.) ,			River Bed	231.26	m. (MSL.)					
Left Bank Elevation	239.85		m. (MSL.) ,										
Right Bank Elevation	240.72		m. (MSL.) ,			Drainage Are	3,367	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	2.36	1.36	3.80	14.72	71.60	4.99	3.36	2.36	0.89	1.54	0.50	
2	1.96	2.52	1.72	3.64	15.44	113.90	5.94	5.56	2.22	0.76	1.15	0.50	
3	3.00	2.84	1.72	3.64	11.30	91.45	6.70	5.75	2.08	0.76	1.02	0.50	
4	3.32	3.16	2.52	3.80	10.40	64.40	4.80	7.70	1.67	0.89	1.02	0.50	
5	3.80	2.84	1.84	4.07	20.21	44.33	8.95	5.75	1.15	0.89	0.89	1.41	
6	4.34	3.00	1.36	4.34	19.40	48.00	7.20	5.18	1.02	0.89	0.63	2.36	
7	2.84	2.84	1.12	3.80	12.56	14.00	6.95	5.56	1.02	1.67	0.76	2.08	
8	2.68	2.52	1.24	3.64	7.20	33.70	5.37	3.84	1.02	1.67	0.76	2.50	
9	2.84	1.72	1.12	2.68	5.37	17.80	5.18	3.20	0.89	1.67	0.89	2.78	
10	4.88	1.48	1.48	3.64	5.37	11.30	4.99	4.00	0.76	1.67	0.76	1.94	
11	7.24	1.24	1.60	4.07	7.45	11.90	4.80	5.18	0.76	1.67	0.76	1.15	
12	4.07	1.48	1.72	9.83	7.20	10.40	4.16	5.18	0.76	1.67	0.76	0.76	
13	5.69	1.72	4.88	5.96	5.75	10.10	4.48	3.36	1.41	1.28	0.63	0.76	
14	6.23	1.84	4.88	3.80	4.99	9.50	8.45	2.50	1.67	0.76	0.45	0.76	
15	7.24	1.48	3.48	3.48	4.48	6.70	8.20	1.94	1.80	0.63	0.45	0.50	
16	7.98	1.24	3.48	2.68	5.56	7.45	7.95	1.80	1.94	0.63	0.45	0.76	
17	7.24	1.24	3.32	2.52	49.65	6.70	6.70	1.80	1.80	0.50	0.50	0.63	
18	5.69	1.12	1.60	2.08	41.18	8.45	6.95	1.54	1.80	0.63	0.50	0.63	
19	4.34	1.00	1.36	1.72	14.00	21.85	6.70	1.54	1.80	0.63	0.50	0.63	
20	5.42	0.86	1.24	1.48	8.45	24.72	5.94	1.41	1.80	0.63	0.50	0.76	
21	4.61	1.12	1.24	2.08	13.64	10.10	6.13	1.41	1.80	0.63	0.45	0.76	
22	6.87	3.16	1.72	6.32	11.30	8.95	5.94	1.41	1.80	0.76	0.40	0.50	
23	5.69	2.84	1.72	5.37	10.40	6.95	5.75	1.28	1.80	0.76	0.40	0.50	
24	5.42	1.48	1.60	5.18	20.21	6.51	4.80	1.67	1.15	0.76	0.45	0.45	
25	5.96	1.36	3.00	5.37	21.03	6.51	5.37	2.22	0.76	0.63	0.45	0.50	
26	5.42	1.12	1.48	6.13	16.60	5.75	5.37	2.36	0.76	1.80	0.45	0.45	
27	3.80	1.00	1.72	9.50	14.00	10.40	4.48	2.36	0.63	1.94	0.45	0.76	
28	3.00	1.24	2.08	10.40	41.70	7.20	3.84	2.36	0.76	1.67	0.45	1.28	
29	2.52	1.12	3.80	6.51	29.90	5.37	3.68	2.36	0.76	1.67	0.45	1.28	
30	2.52	1.36	4.07	5.75	37.03	4.99	3.52	2.36	0.89	1.67		0.76	
31		1.36		6.32	88.85		3.36		0.89	1.80		0.76	
<b>Total</b>	138.21	55.66	65.47	143.60	575.34	700.98	177.64	95.94	41.73	34.88	18.87	30.41	2078.73 CMSDAY
<b>Mean</b>	4.61	1.80	2.18	4.63	18.56	23.37	5.73	3.20	1.35	1.13	0.65	0.98	5.68 CMS
<b>Max</b>	7.98	3.16	4.88	10.40	88.85	113.90	8.95	7.70	2.36	1.94	1.54	2.78	113.90 CMS
<b>Min</b>	1.60	0.86	1.12	1.48	4.48	4.99	3.36	1.28	0.63	0.50	0.40	0.45	0.40 CMS
<b>Runoff</b>	11.94	4.81	5.66	12.41	49.71	60.56	15.35	8.29	3.61	3.01	1.63	2.63	179.60 MCM
<b>Momentary Peak</b>	120.90 CMS. at 233.97 m. (MSL.) at 11.00 Hours , on Sep 2 , 2019												
<b>Runoff Yield</b>	1.69 Liters/Second/Square KM.			Momentary Peak Yield			35.91 Liters/Second/Square KM.						

## WATER YEAR : 2019

## WANG RIVER BASIN

## Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

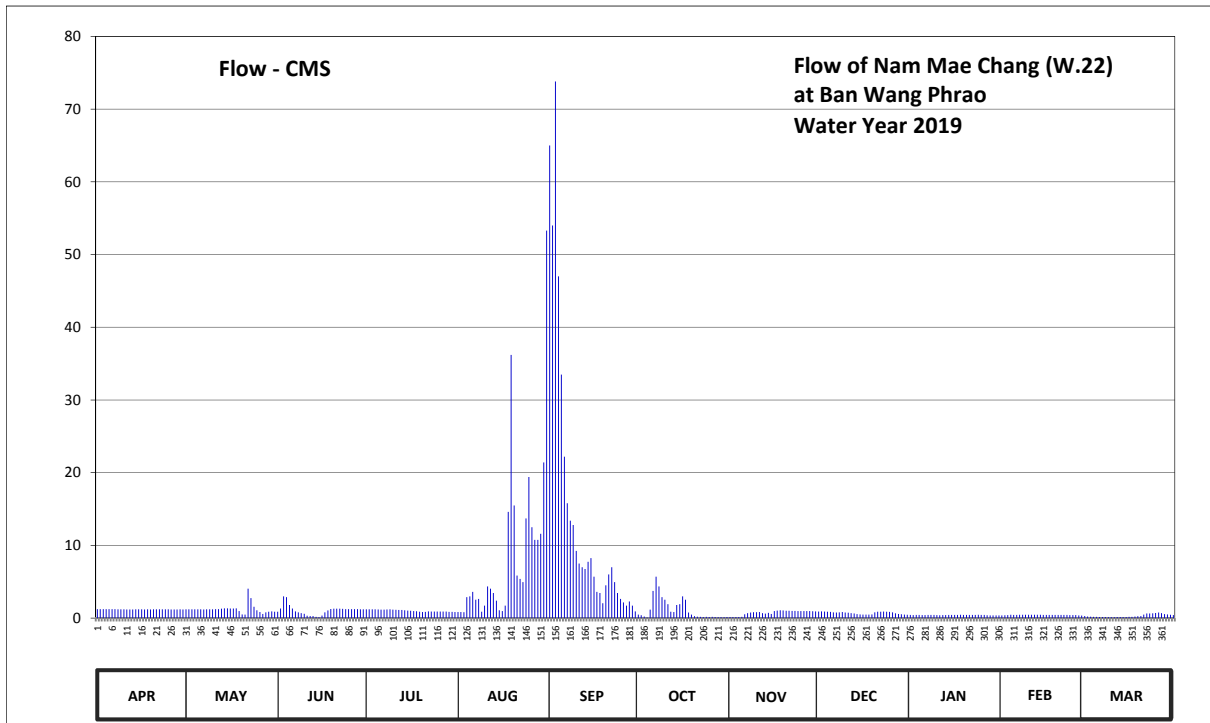
Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

Location : on right bank at the bridge.

	Ban Wang Phrao	Amphoe Ko Kha	Changwat Lampang
<b>Drainage Area</b>	1,549 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+215.161 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the approach of the bridge.	<b>Elevation</b>	+221.137 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good.Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.31	215.30	214.97	215.30	215.12	216.65	214.86	214.75	215.15	214.92	214.89	214.84	
2	215.31	215.30	215.04	215.30	215.12	216.50	214.83	214.75	215.16	214.91	214.90	214.81	
3	215.31	215.30	215.20	215.30	215.11	216.76	214.76	214.75	215.15	214.92	214.91	214.79	
4	215.31	215.30	215.19	215.30	215.19	216.40	214.69	214.76	215.14	214.92	214.93	214.77	
5	215.31	215.30	215.10	215.29	215.20	216.17	215.02	214.78	215.13	214.91	214.92	214.77	
6	215.31	215.30	215.04	215.28	215.24	215.93	215.25	214.96	215.10	214.91	214.92	214.76	
7	215.31	215.29	214.98	215.28	215.16	215.76	215.38	215.04	215.08	214.92	214.93	214.76	
8	215.30	215.30	214.95	215.29	215.17	215.68	215.29	215.08	215.09	214.92	214.93	214.75	
9	215.30	215.30	214.92	215.30	214.97	215.66	215.19	215.11	215.12	214.92	214.93	214.74	
10	215.30	215.30	214.90	215.28	215.09	215.53	215.16	215.11	215.08	214.91	214.93	214.74	
11	215.29	215.32	214.81	215.27	215.29	215.46	215.11	215.12	215.07	214.90	214.93	214.74	
12	215.29	215.31	214.79	215.26	215.27	215.44	214.97	215.04	215.04	214.91	214.93	214.75	
13	215.29	215.35	214.79	215.26	215.23	215.43	214.96	215.01	215.02	214.91	214.93	214.76	
14	215.30	215.37	214.74	215.24	215.15	215.47	215.10	215.06	214.97	214.92	214.93	214.76	
15	215.30	215.37	214.71	215.22	215.01	215.49	215.11	214.99	214.95	214.92	214.92	214.76	
16	215.30	215.36	214.88	215.20	214.99	215.38	215.20	215.18	214.94	214.92	214.92	214.77	
17	215.29	215.36	215.09	215.18	215.09	215.24	215.16	215.22	214.94	214.92	214.92	214.78	
18	215.30	215.37	215.23	215.17	215.72	215.23	215.08	215.24	214.94	214.93	214.92	214.81	
19	215.29	215.18	215.33	215.14	216.22	215.12	214.94	215.23	214.95	214.92	214.92	214.83	
20	215.30	214.95	215.35	215.12	215.75	215.30	214.83	215.21	215.10	214.92	214.92	214.84	
21	215.30	214.94	215.35	215.13	215.39	215.40	214.79	215.20	215.14	214.92	214.92	214.94	
22	215.30	215.27	215.35	215.16	215.36	215.44	214.77	215.19	215.14	214.92	214.92	215.02	
23	215.30	215.18	215.34	215.15	215.33	215.33	214.76	215.19	215.15	214.92	214.92	215.02	
24	215.30	215.07	215.32	215.15	215.69	215.23	214.77	215.18	215.14	214.93	214.91	215.03	
25	215.30	215.01	215.31	215.15	215.86	215.17	214.76	215.18	215.13	214.92	214.91	215.05	
26	215.29	214.96	215.31	215.15	215.65	215.13	214.77	215.18	215.09	214.92	214.91	215.08	
27	215.29	214.89	215.31	215.15	215.59	215.09	214.75	215.18	215.03	214.90	214.89	215.04	
28	215.29	214.95	215.31	215.15	215.59	215.14	214.73	215.18	214.98	214.89	214.88	214.97	
29	215.30	214.97	215.30	215.13	215.62	215.09	214.73	215.17	214.96	214.89	214.86	214.95	
30	215.29	214.98	215.30	215.13	215.91	214.98	214.73	215.16	214.94	214.89	214.89	214.93	
31		214.97		215.12	216.49		214.75		214.93	214.89		214.91	
Mean	215.30	215.20	215.11	215.21	215.41	215.55	214.94	215.07	215.06	214.91	214.92	214.85	
Max	215.31	215.37	215.35	215.30	216.49	216.76	215.38	215.24	215.16	214.93	214.93	215.08	216.76
Min	215.29	214.89	214.71	215.12	214.97	214.98	214.69	214.75	214.93	214.89	214.86	214.74	214.69
Annual Max Momentary Gage Height	216.84		m. (MSL.) ,				at 09.00 Hours , on Sep 3, 2019						
Zero Gage at Bottom Elevation	215.16		m. (MSL.) ,			River Bed	214.14	m. (MSL.)					
Left Bank Elevation	221.21		m. (MSL.) ,										
Right Bank Elevation	221.24		m. (MSL.) ,			Drainage Are	1,549	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	1.20	0.88	1.20	0.84	65.00	0.48	0.15	0.90	0.44	0.38	0.28	
2	1.22	1.20	1.32	1.20	0.84	54.00	0.39	0.15	0.92	0.42	0.40	0.22	
3	1.22	1.20	3.00	1.20	0.82	73.80	0.22	0.15	0.90	0.44	0.42	0.19	
4	1.22	1.20	2.88	1.20	2.88	47.00	0.09	0.16	0.88	0.44	0.46	0.17	
5	1.22	1.20	1.80	1.18	3.00	33.50	1.16	0.18	0.86	0.42	0.44	0.17	
6	1.22	1.20	1.32	1.16	3.60	22.20	3.75	0.52	0.80	0.42	0.44	0.16	
7	1.22	1.18	0.92	1.16	2.52	15.80	5.70	0.68	0.76	0.44	0.46	0.16	
8	1.20	1.20	0.80	1.18	2.64	13.40	4.35	0.76	0.78	0.44	0.46	0.15	
9	1.20	1.20	0.68	1.20	0.88	12.80	2.88	0.82	0.84	0.44	0.46	0.14	
10	1.20	1.20	0.60	1.16	1.72	9.25	2.52	0.82	0.76	0.42	0.46	0.14	
11	1.18	1.24	0.33	1.14	4.35	7.50	1.92	0.84	0.74	0.40	0.46	0.14	
12	1.18	1.22	0.28	1.12	4.05	7.00	0.88	0.68	0.68	0.42	0.46	0.15	
13	1.18	1.30	0.28	1.12	3.45	6.75	0.84	0.62	0.64	0.42	0.46	0.16	
14	1.20	1.34	0.18	1.08	2.40	7.75	1.80	0.72	0.54	0.44	0.46	0.16	
15	1.20	1.34	0.12	1.04	1.08	8.25	1.92	0.58	0.50	0.44	0.44	0.16	
16	1.20	1.32	0.36	1.00	0.96	5.70	3.00	0.96	0.48	0.44	0.44	0.17	
17	1.18	1.32	0.78	0.96	1.72	3.60	2.52	1.04	0.48	0.44	0.44	0.18	
18	1.20	1.34	1.06	0.94	14.60	3.45	0.76	1.08	0.48	0.46	0.44	0.22	
19	1.18	0.96	1.26	0.88	36.20	2.04	0.48	1.06	0.50	0.44	0.44	0.26	
20	1.20	0.50	1.30	0.84	15.50	4.50	0.26	1.02	0.80	0.44	0.44	0.28	
21	1.20	0.48	1.30	0.86	5.85	6.00	0.19	1.00	0.88	0.44	0.44	0.48	
22	1.20	4.05	1.30	0.92	5.40	7.00	0.17	0.98	0.88	0.44	0.44	0.64	
23	1.20	2.76	1.28	0.90	4.95	4.95	0.16	0.98	0.90	0.44	0.44	0.64	
24	1.20	1.56	1.24	0.90	13.70	3.45	0.17	0.96	0.88	0.46	0.42	0.66	
25	1.20	1.08	1.22	0.90	19.40	2.64	0.16	0.96	0.86	0.44	0.42	0.70	
26	1.18	0.84	1.22	0.90	12.50	2.16	0.17	0.96	0.78	0.44	0.42	0.76	
27	1.18	0.57	1.22	0.90	10.75	1.72	0.15	0.96	0.66	0.40	0.38	0.68	
28	1.18	0.80	1.22	0.90	10.75	2.28	0.13	0.96	0.56	0.38	0.36	0.54	
29	1.20	0.88	1.20	0.86	11.60	1.72	0.13	0.94	0.52	0.38	0.32	0.50	
30	1.18	0.92	1.20	0.86	21.40	0.92	0.13	0.92	0.48	0.38		0.46	
31		0.88		0.84	53.30		0.15		0.46	0.38		0.42	
Total	35.96	38.68	32.55	31.70	273.65	436.13	37.63	22.61	22.10	13.24	12.50	10.14	966.89 CMSDAY
Mean	1.20	1.25	1.08	1.02	8.83	14.54	1.21	0.75	0.71	0.43	0.43	0.33	2.64 CMS
Max	1.22	4.05	3.00	1.20	53.30	73.80	5.70	1.08	0.92	0.46	0.46	0.76	73.80 CMS
Min	1.18	0.48	0.12	0.84	0.82	0.92	0.09	0.15	0.46	0.38	0.32	0.14	0.09 CMS
Runoff	3.11	3.34	2.81	2.74	23.64	37.68	3.25	1.95	1.91	1.14	1.08	0.88	83.54 MCM
Momentary Peak		80.40			CMS. at 216.84 m. (MSL.) at 09.00 Hours , on Sep 3 , 2019								
Runoff Yield		1.71			Liters/Second/Square KM. Momentary Peak Yield	51.90							Liters/Second/Square KM.



## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Chiang Rai , Tak (W.23)

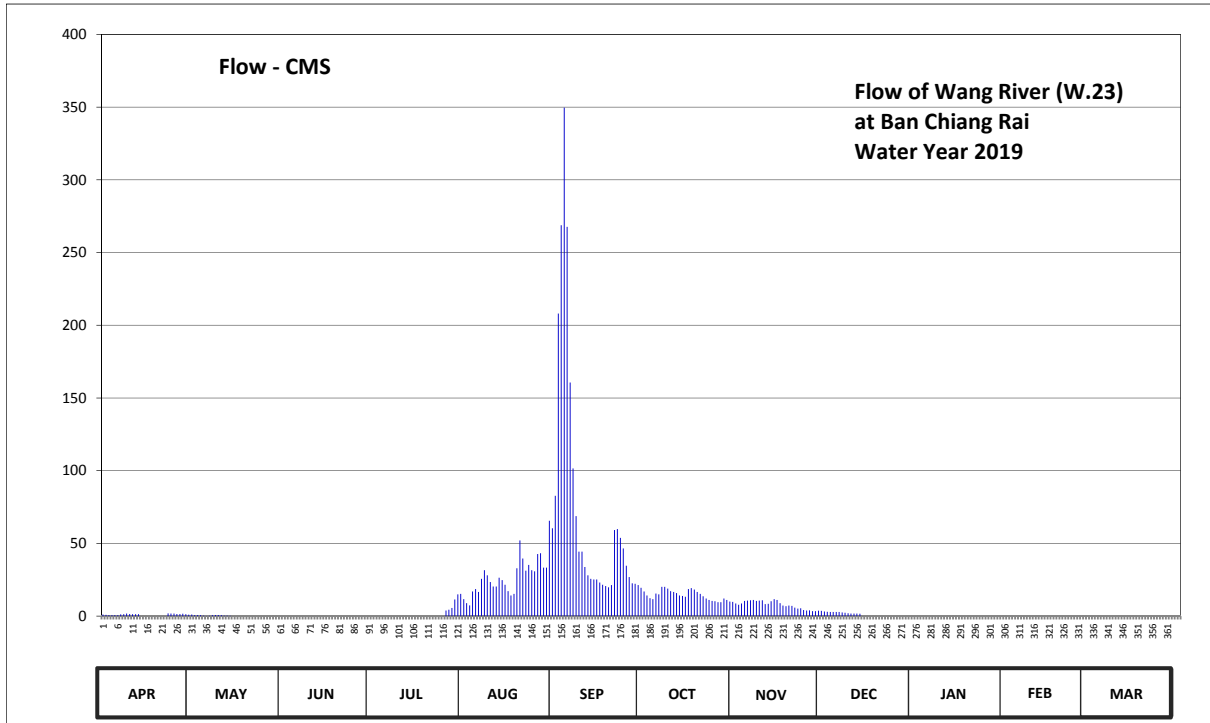
Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	Amphoe Sam Ngao	Changwat Tak
<b>Drainage Area</b>	9,930 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+141.291 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +149.509 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good.Stage-discharge relation defined by 9 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.52	142.48	141.98	142.05	142.16	143.62	142.36	142.03	141.72	141.79	142.27	141.75	
2	142.49	142.44	142.02	142.04	142.04	144.95	142.26	141.99	141.70	141.79	142.27	141.72	
3	142.46	142.46	141.84	142.04	141.97	145.55	142.19	142.03	141.68	141.69	142.26	141.69	
4	142.44	142.40	141.73	142.06	142.35	146.31	142.16	142.11	141.68	141.76	142.24	141.66	
5	142.44	142.35	141.87	142.01	142.42	145.54	142.31	142.12	141.68	141.76	142.22	141.63	
6	142.45	142.32	141.89	142.03	142.35	144.47	142.29	142.13	141.68	141.74	142.22	141.60	
7	142.52	142.43	141.86	142.17	142.64	143.84	142.47	142.14	141.65	141.79	142.20	141.57	
8	142.54	142.47	141.86	142.17	142.78	143.46	142.47	142.11	141.63	141.92	142.19	141.54	
9	142.57	142.48	141.84	142.18	142.70	143.06	142.43	142.12	141.59	141.86	142.19	141.51	
10	142.57	142.47	141.76	142.15	142.58	143.06	142.37	142.13	141.57	141.79	142.19	141.48	
11	142.55	142.44	141.73	142.16	142.48	142.84	142.35	142.01	141.57	141.72	142.18	141.46	
12	142.53	142.39	141.69	142.14	142.48	142.70	142.32	142.02	141.56	141.69	142.17	141.43	
13	142.55	142.39	141.63	142.15	142.65	142.64	142.26	142.10	141.55	141.67	142.16	141.40	
14	142.59	142.32	141.58	142.16	142.62	142.63	142.25	142.16	141.74	141.67	142.13	141.38	
15	141.92	142.24	141.54	142.26	142.51	142.63	142.23	142.14	142.21	141.69	142.11	141.35	
16	141.78	142.19	141.52	142.22	142.37	142.57	142.42	142.04	142.04	141.72	142.08	141.33	
17	141.82	142.15	141.56	142.10	142.26	142.52	142.44	141.96	141.88	142.16	142.05	141.30	
18	141.86	142.21	141.66	142.00	142.30	142.49	142.41	141.94	141.72	142.26	142.03	141.28	
19	141.89	142.19	141.64	141.91	142.82	142.46	142.34	141.96	141.71	142.26	142.01	141.25	
20	141.81	142.14	141.63	141.84	143.19	142.51	142.30	141.95	141.71	142.26	141.99	141.21	
21	141.82	142.09	141.52	141.81	142.96	143.32	142.24	141.88	141.70	142.27	141.97	141.18	
22	142.18	142.14	141.49	141.80	142.78	143.33	142.18	141.86	141.69	142.28	141.94	141.16	
23	142.60	142.20	141.57	141.78	142.87	143.23	142.14	141.87	141.67	142.28	141.92	141.13	
24	142.59	142.31	142.08	141.70	142.79	143.10	142.11	141.81	141.67	142.28	141.90	141.10	
25	142.59	142.34	142.19	141.65	142.77	142.86	142.10	141.78	142.00	142.28	141.87	141.08	
26	142.56	142.21	142.18	141.78	143.03	142.67	142.07	141.79	141.91	142.27	141.85	141.07	
27	142.57	142.04	142.12	141.82	143.04	142.55	142.07	141.74	141.96	142.27	141.82	141.06	
28	142.58	141.92	142.09	141.88	142.83	142.54	142.17	141.74	141.90	142.29	141.80	141.05	
29	142.54	141.82	142.07	142.14	142.83	142.51	142.14	141.77	141.84	142.29	141.77	141.04	
30	142.51	141.91	142.05	142.29	143.42	142.45	142.09	141.76	141.80	142.27	141.77	141.03	
31		141.97		142.30	143.34		142.08		141.79	142.27		141.02	
Mean	142.36	142.26	141.81	142.03	142.66	143.28	142.26	141.97	141.75	142.00	142.07	141.34	
Max	142.60	142.48	142.19	142.30	143.42	146.31	142.47	142.16	142.21	142.29	142.27	141.75	146.31
Min	141.78	141.82	141.49	141.65	141.97	142.45	142.07	141.74	141.55	141.67	141.77	141.02	141.02
Annual Max Momentary Gage Height	146.41		m. (MSL.) ,				at 12.00 Hours , on Sep 4 , 2019						
Zero Gage at Bottom Elevation	141.29		m. (MSL.) ,			River Bed	140.49	m. (MSL.)					
Left Bank Elevation		149.33		m. (MSL.) ,									
Right Bank Elevation		149.79		m. (MSL.) ,		Drainage Are	9,930	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	1.08	0.00	0.00	11.60	82.70	16.90	8.68	3.20	0.00	0.00	0.00	
2	0.85	0.60	0.00	0.00	8.90	208.00	14.15	7.80	3.00	0.00	0.00	0.00	
3	0.65	0.75	0.00	0.00	7.40	268.75	12.28	8.68	2.80	0.00	0.00	0.00	
4	0.65	0.60	0.00	0.00	16.90	349.65	11.60	10.48	2.80	0.00	0.00	0.00	
5	0.60	0.36	0.00	0.00	18.60	267.70	15.53	10.70	2.80	0.00	0.00	0.00	
6	0.60	0.08	0.00	0.00	16.63	160.65	14.98	10.93	2.80	0.00	0.00	0.00	
7	1.17	0.16	0.00	0.00	25.60	101.60	20.10	11.15	2.50	0.00	0.00	0.00	
8	1.26	0.70	0.00	0.00	31.60	68.80	20.10	10.48	2.30	0.00	0.00	0.00	
9	1.71	0.75	0.00	0.00	28.00	44.30	18.90	10.70	1.93	0.00	0.00	0.00	
10	1.44	0.75	0.00	0.00	23.40	44.30	17.18	10.93	1.78	0.00	0.00	0.00	
11	1.26	0.60	0.00	0.00	20.40	33.80	16.63	8.23	1.78	0.00	0.00	0.00	
12	1.26	0.36	0.00	0.00	20.40	28.00	15.80	8.45	1.70	0.00	0.00	0.00	
13	1.26	0.36	0.00	0.00	26.40	25.60	14.15	10.25	1.63	0.00	0.00	0.00	
14	0.00	0.16	0.00	0.00	24.80	25.20	13.88	11.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	21.60	25.20	13.33	11.15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	17.18	23.10	18.60	8.90	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	14.15	21.60	19.20	7.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	15.25	20.70	18.30	6.80	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	32.90	19.80	16.63	7.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	52.00	21.30	15.25	7.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	39.65	59.20	13.60	5.80	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	31.20	59.80	12.05	5.20	0.00	0.00	0.00	0.00	
23	1.91	0.00	0.00	0.00	35.15	53.80	11.15	5.40	0.00	0.00	0.00	0.00	
24	1.71	0.00	0.00	0.00	31.60	46.50	10.48	4.20	0.00	0.00	0.00	0.00	
25	1.80	0.00	0.00	0.00	30.80	34.70	10.25	3.80	0.00	0.00	0.00	0.00	
26	1.44	0.00	0.00	3.80	42.65	26.80	9.58	3.90	0.00	0.00	0.00	0.00	
27	1.44	0.00	0.00	4.40	43.20	22.50	9.58	3.40	0.00	0.00	0.00	0.00	
28	1.62	0.00	0.00	5.60	33.35	22.20	12.05	3.40	0.00	0.00	0.00	0.00	
29	1.26	0.00	0.00	11.38	33.35	21.30	11.15	3.70	0.00	0.00	0.00	0.00	
30	0.99	0.00	0.00	14.98	65.60	19.50	10.03	3.60	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	15.25	60.40	9.80	9.80	0.00	0.00	0.00	0.00	0.00	
Total	25.96	7.31	0.00	55.41	880.66	2207.05	443.21	229.71	31.02	0.00	0.00	0.00	3880.33 CMSDAY
Mean	0.87	0.24	0.00	1.79	28.41	73.57	14.30	7.66	1.00	0.00	0.00	0.00	10.60 CMS
Max	1.91	1.08	0.00	15.25	65.60	349.65	20.10	11.60	3.20	0.00	0.00	0.00	349.65 CMS
Min	0.00	0.00	0.00	0.00	7.40	19.50	9.58	3.40	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	2.24	0.63	0.00	4.79	76.09	190.69	38.29	19.85	2.68	0.00	0.00	0.00	335.26 MCM
Momentary Peak	361.15	CMS.	at 146.41 m. (MSL.)	at 12.00 Hours	on Sep 4, 2019								
Runoff Yield	1.07	Liters/Second/Square KM.			Momentary Peak Yield	36.37	Liters/Second/Square KM.						

## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Tha Phai , Tak (W.24)

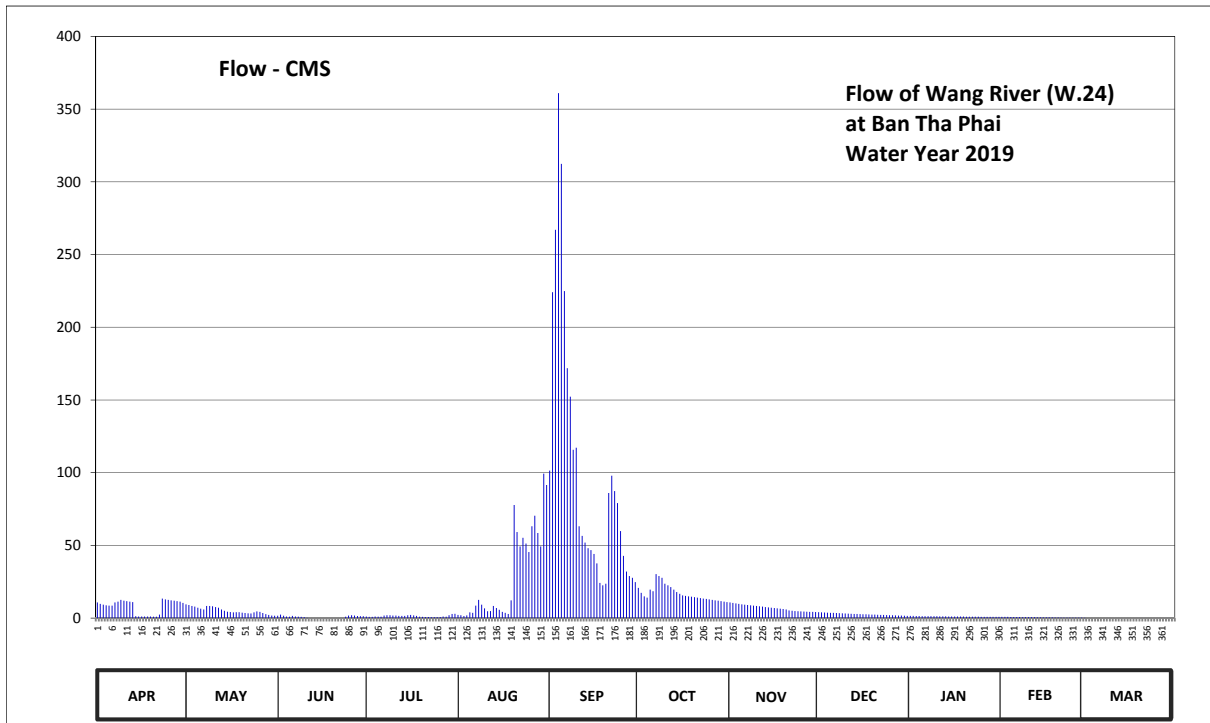
Lat 17 - 19 - 11 N Long 99 - 04 - 51 E

Location : on left bank at Ban Tha Phai

	<b>Ban Tha Phai</b>	<b>Amphoe Sam Ngao</b>	<b>Changwat Tak</b>
<b>Drainage Area</b>	10,225 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+135.430 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+145.049 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good.Stage-discharge relation defined by 10 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.44	137.40	136.83	136.76	136.91	138.92	137.69	137.44	137.12	136.81	136.72	136.63	
2	137.41	137.38	136.93	136.73	136.87	140.61	137.63	137.43	137.11	136.81	136.72	136.58	
3	137.39	137.35	136.83	136.73	136.80	141.19	137.58	137.42	137.10	136.80	136.72	136.56	
4	137.37	137.33	136.76	136.75	136.86	142.43	137.55	137.41	137.09	136.80	136.71	136.53	
5	137.36	137.30	136.74	136.74	137.11	141.79	137.67	137.40	137.08	136.79	136.71	136.47	
6	137.36	137.27	136.82	136.74	137.07	140.62	137.65	137.39	137.07	136.79	136.71	136.43	
7	137.44	137.25	136.76	136.85	137.36	139.90	137.85	137.38	137.06	136.79	136.71	136.38	
8	137.46	137.35	136.74	136.87	137.50	139.63	137.83	137.37	137.05	136.78	136.70	136.38	
9	137.50	137.35	136.73	136.87	137.39	139.12	137.81	137.36	137.04	136.78	136.70	136.37	
10	137.48	137.34	136.69	136.85	137.28	139.14	137.74	137.35	137.03	136.78	136.70	136.36	
11	137.47	137.32	136.63	136.84	137.19	138.36	137.72	137.34	137.02	136.77	136.69	136.36	
12	137.46	137.30	136.58	136.82	137.20	138.26	137.70	137.33	137.01	136.77	136.69	136.35	
13	137.45	137.25	136.54	136.81	137.35	138.19	137.67	137.32	137.00	136.77	136.68	136.34	
14	136.79	137.21	136.50	136.81	137.29	138.13	137.64	137.31	136.99	136.76	136.68	136.34	
15	136.76	137.16	136.46	136.87	137.24	138.11	137.62	137.30	136.98	136.76	136.68	136.33	
16	136.76	137.13	136.44	136.90	137.15	138.07	137.60	137.29	136.97	136.75	136.68	136.33	
17	136.75	137.11	136.43	136.86	137.07	137.97	137.59	137.28	136.96	136.75	136.67	136.32	
18	136.75	137.12	136.47	136.81	136.99	137.75	137.58	137.27	136.95	136.75	136.67	136.31	
19	136.75	137.12	136.58	136.74	137.49	137.72	137.57	137.26	136.94	136.75	136.66	136.31	
20	136.74	137.09	136.57	136.72	138.58	137.74	137.56	137.25	136.93	136.74	136.66	136.31	
21	136.74	137.06	136.50	136.71	138.30	138.70	137.55	137.22	136.92	136.74	136.65	136.30	
22	136.94	137.04	136.41	136.71	138.15	138.87	137.54	137.21	136.91	136.74	136.65	136.29	
23	137.53	137.03	136.38	136.70	138.24	138.72	137.53	137.20	136.90	136.74	136.65	136.28	
24	137.51	137.11	136.74	136.70	138.18	138.60	137.52	137.19	136.89	136.74	136.65	136.28	
25	137.50	137.18	136.85	136.69	138.09	138.31	137.51	137.18	136.88	136.73	136.64	136.27	
26	137.49	137.14	136.88	136.71	138.36	138.05	137.50	137.17	136.87	136.73	136.64	136.26	
27	137.48	137.06	136.84	136.75	138.47	137.88	137.49	137.16	136.86	136.73	136.64	136.25	
28	137.47	136.98	136.80	136.74	138.29	137.83	137.48	137.15	136.85	136.73	136.64	136.25	
29	137.46	136.90	136.79	136.87	138.15	137.81	137.47	137.14	136.84	136.73	136.63	136.24	
30	137.43	136.85	136.78	136.99	138.89	137.76	137.46	137.13	136.83	136.73	136.63	136.23	
31		136.83		137.01	138.78		137.45		136.82	136.73		136.23	
Mean	137.25	137.17	136.67	136.80	137.63	138.87	137.60	137.29	136.97	136.76	136.68	136.35	
Max	137.53	137.40	136.93	137.01	138.89	142.43	137.85	137.44	137.12	136.81	136.72	136.63	142.43
Min	136.74	136.83	136.38	136.69	136.80	137.72	137.45	137.13	136.82	136.73	136.63	136.23	136.23
Annual Max Momentary Gage Height	142.47		m. (MSL.) ,				at 18.00 Hours ,	on Sep 4 , 2019					
Zero Gage at Bottom Elevation	135.43		m. (MSL.) ,				River Bed	135.86		m. (MSL.)			
Left Bank Elevation		144.96		m. (MSL.) ,									
Right Bank Elevation		145.09		m. (MSL.) ,			Drainage Area	10,225		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.72	9.50	1.63	1.12	2.23	101.48	20.78	10.72	4.04	1.48	0.84	0.21	
2	9.81	9.03	2.38	0.91	1.93	224.14	17.33	10.42	3.95	1.48	0.84	0.00	
3	9.27	8.33	1.63	0.91	1.40	267.06	14.99	10.11	3.85	1.40	0.84	0.00	
4	8.80	7.86	1.12	1.05	1.85	360.98	14.08	9.81	3.76	1.40	0.77	0.00	
5	8.56	7.15	0.98	0.98	3.95	312.35	19.63	9.50	3.66	1.33	0.77	0.00	
6	8.56	6.45	1.55	0.98	3.57	224.88	18.48	9.27	3.57	1.33	0.77	0.00	
7	10.72	5.98	1.12	1.78	8.56	171.90	30.20	9.03	3.47	1.33	0.77	0.00	
8	11.33	8.33	0.98	1.93	12.55	152.28	28.96	8.80	3.38	1.26	0.70	0.00	
9	12.55	8.33	0.91	1.93	9.27	115.78	27.72	8.56	3.28	1.26	0.70	0.00	
10	11.94	8.09	0.63	1.78	6.68	117.21	23.65	8.33	3.19	1.26	0.70	0.00	
11	11.64	7.62	0.21	1.70	4.71	63.16	22.50	8.09	3.09	1.19	0.63	0.00	
12	11.33	7.15	0.00	1.55	4.80	56.56	21.35	7.86	3.00	1.19	0.63	0.00	
13	11.03	5.98	0.00	1.48	8.33	51.95	19.63	7.62	2.90	1.19	0.56	0.00	
14	1.33	5.04	0.00	1.48	6.92	48.02	17.90	7.39	2.83	1.12	0.56	0.00	
15	1.12	4.42	0.00	1.93	5.74	46.71	16.75	7.15	2.75	1.12	0.56	0.00	
16	1.12	4.14	0.00	2.15	4.33	44.09	15.60	6.92	2.68	1.05	0.56	0.00	
17	1.05	3.95	0.00	1.85	3.57	37.64	15.30	6.68	2.60	1.05	0.49	0.00	
18	1.05	4.04	0.00	1.48	2.83	24.23	14.99	6.45	2.53	1.05	0.49	0.00	
19	1.05	4.04	0.00	0.98	12.25	22.50	14.69	6.21	2.45	1.05	0.42	0.00	
20	0.98	3.76	0.00	0.84	77.77	23.65	14.38	5.98	2.38	0.98	0.42	0.00	
21	0.98	3.47	0.00	0.77	59.20	86.00	14.08	5.27	2.30	0.98	0.35	0.00	
22	2.45	3.28	0.00	0.77	49.33	97.91	13.77	5.04	2.23	0.98	0.35	0.00	
23	13.47	3.19	0.00	0.70	55.24	87.38	13.47	4.80	2.15	0.98	0.35	0.00	
24	12.86	3.95	0.98	0.70	51.29	79.10	13.16	4.71	2.08	0.98	0.35	0.00	
25	12.55	4.61	1.78	0.63	45.40	59.86	12.86	4.61	2.00	0.91	0.28	0.00	
26	12.25	4.23	2.00	0.77	63.16	42.78	12.55	4.52	1.93	0.91	0.28	0.00	
27	11.94	3.47	1.70	1.05	70.46	32.06	12.25	4.42	1.85	0.91	0.28	0.00	
28	11.64	2.75	1.40	0.98	58.54	28.96	11.94	4.33	1.78	0.91	0.28	0.00	
29	11.33	2.15	1.33	1.93	49.33	27.72	11.64	4.23	1.70	0.91	0.21	0.00	
30	10.42	1.78	1.26	2.83	99.34	24.80	11.33	4.14	1.63	0.91	0.00	0.00	
31		1.63		3.00	91.52		11.03		1.55	0.91		0.00	
<b>Total</b>	243.85	163.70	23.59	42.94	876.05	3033.14	526.99	210.97	84.56	34.81	15.75	0.21	5256.56 CMSDAY
<b>Mean</b>	8.13	5.28	0.79	1.39	28.26	101.10	17.00	7.03	2.73	1.12	0.54	0.01	14.36 CMS
<b>Max</b>	13.47	9.50	2.38	3.00	99.34	360.98	30.20	10.72	4.04	1.48	0.84	0.21	360.98 CMS
<b>Min</b>	0.98	1.63	0.00	0.63	1.40	22.50	11.03	4.14	1.55	0.91	0.21	0.00	0.00 CMS
<b>Runoff</b>	21.07	14.14	2.04	3.71	75.69	262.06	45.53	18.23	7.31	3.01	1.36	0.02	454.17 MCM
<b>Momentary Peak</b>	364.02 CMS. at 142.47 m. (MSL.) at 18.00 Hours , on Sep 4 , 2019												
<b>Runoff Yield</b>	1.41 Liters/Second/Square KM.			Momentary Peak Yield				35.60 Liters/Second/Square KM.					

## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Rong Kho , Lampang (W.25)

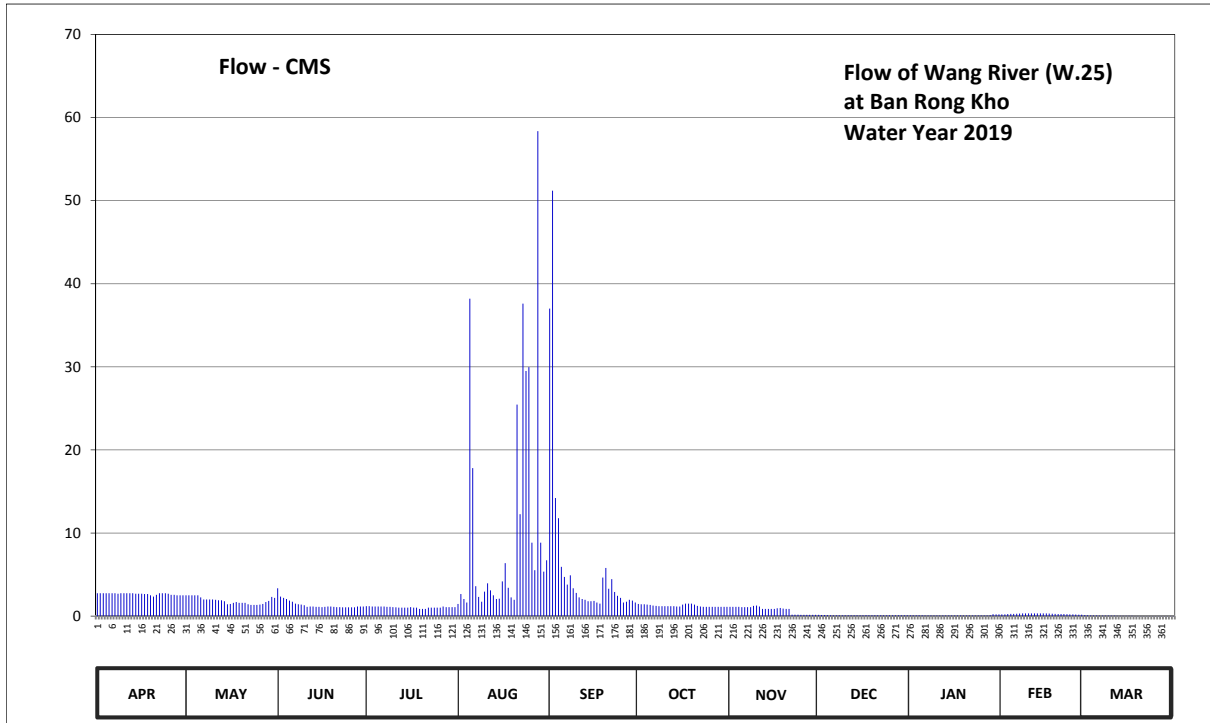
Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on left bank at Ban Rong Kho.

	<b>Ban Rong Kho</b>	<b>Amphoe Wang Nuea</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	762 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+381.903 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.	<b>Elevation</b>	+387.093 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	382.15	382.10	382.27	381.81	381.88	383.65	381.88	381.79	381.79	381.67	381.92	381.72	
2	382.15	382.10	382.07	381.81	382.13	383.88	381.87	381.79	381.78	381.67	381.93	381.68	
3	382.15	382.10	382.04	381.80	382.01	383.04	381.87	381.79	381.78	381.67	382.00	381.66	
4	382.15	382.10	382.01	381.80	381.92	382.95	381.86	381.79	381.72	381.67	382.02	381.64	
5	382.15	382.10	381.97	381.80	383.67	382.61	381.85	381.78	381.68	381.67	382.03	381.62	
6	382.15	382.05	381.94	381.80	383.16	382.48	381.83	381.78	381.68	381.66	382.05	381.60	
7	382.15	382.00	381.89	381.80	382.32	382.36	381.82	381.78	381.69	381.66	382.10	381.59	
8	382.14	382.00	381.87	381.79	382.06	382.50	381.81	381.78	381.70	381.65	382.13	381.57	
9	382.15	382.00	381.86	381.79	381.94	382.27	381.81	381.82	381.70	381.65	382.16	381.56	
10	382.15	382.00	381.84	381.78	382.19	382.16	381.81	381.83	381.69	381.65	382.15	381.55	
11	382.15	381.99	381.79	381.77	382.39	382.05	381.81	381.80	381.68	381.65	382.15	381.55	
12	382.15	381.98	381.80	381.76	382.22	382.01	381.81	381.72	381.68	381.65	382.15	381.53	
13	382.15	381.98	381.80	381.76	382.10	381.99	381.81	381.72	381.68	381.65	382.14	381.52	
14	382.14	381.95	381.79	381.76	382.01	381.95	381.80	381.72	381.68	381.65	382.14	381.51	
15	382.14	381.87	381.79	381.76	382.02	381.95	381.80	381.72	381.68	381.65	382.14	381.50	
16	382.14	381.88	381.78	381.78	382.42	381.96	381.86	381.72	381.68	381.65	382.13	381.49	
17	382.13	381.91	381.79	381.76	382.65	381.92	381.89	381.74	381.73	381.65	382.10	381.48	
18	382.13	381.93	381.80	381.76	382.28	381.89	381.89	381.75	381.69	381.65	382.05	381.47	
19	382.10	381.91	381.80	381.72	382.05	382.47	381.89	381.73	381.69	381.65	382.02	381.45	
20	382.07	381.91	381.79	381.72	381.99	382.60	381.86	381.72	381.69	381.65	382.00	381.45	
21	382.11	381.91	381.78	381.72	383.41	382.26	381.82	381.72	381.69	381.65	382.00	381.45	
22	382.15	381.87	381.78	381.76	382.97	382.45	381.80	381.85	381.69	381.65	381.99	381.45	
23	382.15	381.85	381.77	381.76	383.66	382.18	381.79	381.83	381.69	381.65	381.96	381.43	
24	382.15	381.85	381.77	381.76	383.50	382.09	381.79	381.83	381.67	381.65	381.94	381.42	
25	382.14	381.85	381.77	381.76	383.51	382.04	381.79	381.82	381.67	381.65	381.91	381.41	
26	382.11	381.86	381.77	381.76	382.83	381.92	381.79	381.82	381.67	381.65	381.90	381.40	
27	382.11	381.88	381.77	381.80	382.57	381.94	381.79	381.82	381.67	381.65	381.86	381.39	
28	382.10	381.93	381.80	381.78	383.99	381.99	381.79	381.81	381.67	381.71	381.83	381.37	
29	382.10	381.96	381.80	381.78	382.83	381.97	381.79	381.81	381.67	381.96	381.80	381.37	
30	382.10	382.06	381.80	381.78	382.55	381.92	381.79	381.80	381.67	381.92	381.92	381.36	
31		382.04		381.78	382.68		381.79		381.67	381.91		381.35	
Mean	382.13	381.97	381.85	381.77	382.58	382.32	381.82	381.78	381.69	381.68	382.02	381.50	
Max	382.15	382.10	382.27	381.81	383.99	383.88	381.89	381.85	381.79	381.96	382.16	381.72	383.99
Min	382.07	381.85	381.77	381.72	381.88	381.89	381.79	381.72	381.67	381.65	381.80	381.35	381.35
Annual Max Momentary Gage Height	384.50		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	381.90		m. (MSL.) ,				River Bed	381.40		m. (MSL.)			
Left Bank Elevation		387.23		m. (MSL.) ,									
Right Bank Elevation		387.29		m. (MSL.) ,			Drainage Are	762		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.75	2.50	3.35	1.19	1.47	37.00	1.47	1.12	0.15	0.09	0.21	0.11	
2	2.75	2.50	2.35	1.19	2.65	51.20	1.43	1.12	0.14	0.09	0.22	0.09	
3	2.75	2.50	2.20	1.15	2.05	14.20	1.43	1.12	0.14	0.09	0.25	0.08	
4	2.75	2.50	2.05	1.15	1.64	11.78	1.39	1.12	0.11	0.09	0.26	0.08	
5	2.75	2.50	1.87	1.15	38.20	5.92	1.35	1.08	0.09	0.09	0.27	0.07	
6	2.75	2.25	1.73	1.15	17.80	4.72	1.27	1.08	0.09	0.08	0.28	0.06	
7	2.75	2.00	1.51	1.15	3.60	3.80	1.23	1.08	0.10	0.08	0.30	0.06	
8	2.70	2.00	1.43	1.12	2.30	4.90	1.19	1.08	0.10	0.08	0.32	0.05	
9	2.75	2.00	1.39	1.12	1.73	3.35	1.19	1.23	0.10	0.08	0.33	0.05	
10	2.75	2.00	1.31	1.08	2.95	2.80	1.19	1.27	0.10	0.08	0.33	0.05	
11	2.75	1.96	1.12	1.05	3.95	2.25	1.19	1.15	0.09	0.08	0.33	0.05	
12	2.75	1.91	1.15	1.01	3.10	2.05	1.19	0.87	0.09	0.08	0.33	0.04	
13	2.75	1.91	1.15	1.01	2.50	1.96	1.19	0.87	0.09	0.08	0.32	0.04	
14	2.70	1.78	1.12	1.01	2.05	1.78	1.15	0.87	0.09	0.08	0.32	0.03	
15	2.70	1.43	1.12	1.01	2.10	1.78	1.15	0.87	0.09	0.08	0.32	0.03	
16	2.70	1.47	1.08	1.08	4.18	1.82	1.39	0.87	0.09	0.08	0.32	0.03	
17	2.65	1.60	1.12	1.01	6.38	1.64	1.51	0.94	0.12	0.08	0.30	0.03	
18	2.65	1.69	1.15	1.01	3.40	1.51	1.51	0.98	0.10	0.08	0.28	0.02	
19	2.50	1.60	1.15	0.87	2.25	4.63	1.51	0.91	0.10	0.08	0.26	0.02	
20	2.35	1.60	1.12	0.87	1.96	5.80	1.39	0.87	0.10	0.08	0.25	0.02	
21	2.55	1.60	1.08	0.87	25.45	3.30	1.23	0.87	0.10	0.08	0.25	0.02	
22	2.75	1.43	1.08	1.01	12.27	4.45	1.15	0.18	0.10	0.08	0.25	0.02	
23	2.75	1.35	1.05	1.01	37.60	2.90	1.12	0.17	0.10	0.08	0.23	0.02	
24	2.75	1.35	1.05	1.01	29.50	2.45	1.12	0.17	0.09	0.08	0.22	0.01	
25	2.70	1.35	1.05	1.01	29.95	2.20	1.12	0.16	0.09	0.08	0.21	0.01	
26	2.55	1.39	1.05	1.01	8.84	1.64	1.12	0.16	0.09	0.08	0.20	0.01	
27	2.55	1.47	1.05	1.15	5.53	1.73	1.12	0.16	0.09	0.08	0.18	0.01	
28	2.50	1.69	1.15	1.08	58.35	1.96	1.12	0.16	0.09	0.11	0.17	0.01	
29	2.50	1.82	1.15	1.08	8.84	1.87	1.12	0.16	0.09	0.23	0.15	0.01	
30	2.50	2.30	1.15	1.08	5.35	1.64	1.12	0.15	0.09	0.21		0.01	
31		2.20		1.08	6.72		1.12		0.09	0.21		0.01	
<b>Total</b>	80.05	57.65	41.33	32.77	334.66	189.03	38.78	22.84	3.10	2.97	7.66	1.15	811.99 CMSDAY
<b>Mean</b>	2.67	1.86	1.38	1.06	10.80	6.30	1.25	0.76	0.10	0.10	0.26	0.04	2.22 CMS
<b>Max</b>	2.75	2.50	3.35	1.19	58.35	51.20	1.51	1.27	0.15	0.23	0.33	0.11	58.35 CMS
<b>Min</b>	2.35	1.35	1.05	0.87	1.47	1.51	1.12	0.15	0.09	0.08	0.15	0.01	0.01 CMS
<b>Runoff</b>	6.92	4.98	3.57	2.83	28.91	16.33	3.35	1.97	0.27	0.26	0.66	0.10	70.16 MCM
<b>Momentary Peak</b>	109.00 CMS. at 384.50 m. (MSL.) at 06.00 Hours , on Aug 28 , 2019												
<b>Runoff Yield</b>	2.92 Liters/Second/Square KM.			Momentary Peak Yield			143.04 Liters/Second/Square KM.						

## WATER YEAR : 2019

## WANG RIVER BASIN

## Huai Mae Ta at Ban Muang My , Lampang (W.26)

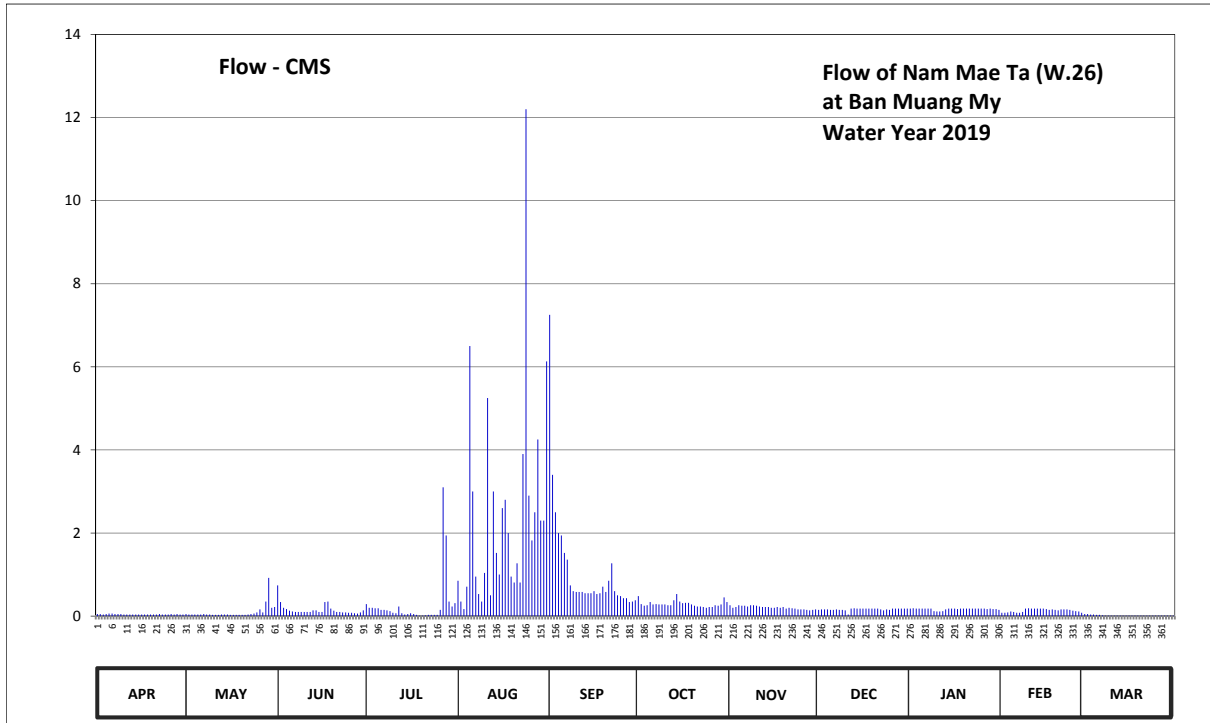
Lat 18 - 36 - 26 N Long 99 - 37 - 44 E

Location : on left bank at Ban Muang My.

	Ban Muang My	Amphoe Chae Hom	Changwat Lampang
<b>Drainage Area</b>	150 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+286.470 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the approach of the bridge.		<b>Elevation</b> +290.173 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings.		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	285.89	285.89	286.34	286.16	286.37	287.05	286.25	286.14	286.05	286.55	286.31	286.21	
2	285.90	285.88	286.19	286.10	286.20	286.74	286.16	286.10	286.06	286.57	286.31	286.16	
3	285.88	285.88	286.10	286.10	286.07	286.65	286.13	286.11	286.06	286.56	286.33	286.06	
4	285.90	285.87	286.07	286.09	286.33	286.60	286.14	286.14	286.06	286.56	286.38	286.05	
5	285.91	285.88	286.03	286.09	287.00	286.59	286.19	286.13	286.05	286.56	286.36	285.98	
6	285.91	285.88	286.01	286.05	286.70	286.52	286.15	286.13	286.05	286.55	286.29	285.97	
7	285.90	285.89	286.00	286.05	286.40	286.49	286.16	286.12	286.06	286.55	286.29	285.91	
8	285.90	285.88	285.99	286.04	286.27	286.34	286.15	286.14	286.05	286.54	286.35	285.81	
9	285.89	285.88	285.99	286.02	286.20	286.30	286.15	286.14	286.05	286.40	286.56	285.82	
10	285.88	285.86	285.99	285.95	286.42	286.29	286.15	286.13	286.04	286.38	286.57	285.80	
11	285.88	285.86	286.00	285.93	286.90	286.29	286.14	286.12	286.11	286.38	286.56	285.80	
12	285.88	285.85	286.00	286.12	286.26	286.29	286.14	286.11	286.55	286.41	286.55	285.80	
13	285.87	285.87	286.04	285.94	286.70	286.28	286.21	286.11	286.57	286.51	286.56	285.81	
14	285.88	285.88	286.04	285.88	286.52	286.28	286.27	286.11	286.56	286.54	286.56	285.80	
15	285.87	285.87	286.00	285.89	286.41	286.28	286.20	286.10	286.55	286.55	286.54	285.80	
16	285.88	285.86	285.99	285.93	286.66	286.30	286.17	286.10	286.56	286.55	286.53	285.79	
17	285.88	285.86	286.19	285.89	286.68	286.27	286.18	286.11	286.55	286.52	286.48	285.77	
18	285.87	285.86	286.20	285.86	286.60	286.28	286.18	286.10	286.55	286.55	286.51	285.79	
19	285.88	285.85	286.08	285.80	286.40	286.33	286.15	286.11	286.54	286.56	286.48	285.79	
20	285.87	285.85	286.03	285.80	286.36	286.29	286.13	286.08	286.56	286.55	286.46	285.78	
21	285.88	285.85	285.99	285.83	286.47	286.37	286.12	286.10	286.54	286.54	286.49	285.78	
22	285.89	285.87	286.00	285.86	286.36	286.47	286.12	286.09	286.51	286.55	286.49	285.79	
23	285.87	285.89	285.98	285.85	286.79	286.30	286.11	286.08	286.45	286.55	286.49	285.78	
24	285.88	285.92	285.97	285.85	287.38	286.26	286.10	286.06	286.51	286.56	286.47	285.80	
25	285.88	285.98	285.95	285.86	286.69	286.25	286.11	286.06	286.47	286.56	286.43	285.80	
26	285.89	286.06	285.96	286.05	286.57	286.23	286.11	286.06	286.55	286.56	286.41	285.79	
27	285.88	285.98	285.94	286.71	286.65	286.23	286.14	286.05	286.56	286.53	286.38	285.80	
28	285.89	286.20	285.92	286.59	286.82	286.19	286.13	286.04	286.56	286.54	286.29	285.80	
29	285.88	286.39	285.98	286.20	286.63	286.20	286.15	286.05	286.54	286.53	286.25	285.83	
30	285.88	286.10	286.04	286.12	286.63	286.21	286.24	286.06	286.55	286.52	286.52	285.82	
31		286.11		286.17	286.97		286.19		286.55	286.48		285.81	
Mean	285.88	285.93	286.03	286.03	286.56	286.37	286.16	286.10	286.37	286.52	286.44	285.85	
Max	285.91	286.39	286.34	286.71	287.38	287.05	286.27	286.14	286.57	286.57	286.57	286.21	287.38
Min	285.87	285.85	285.92	285.80	286.07	286.19	286.10	286.04	286.04	286.38	286.25	285.77	285.77
Annual Max Momentary Gage Height	287.95		m. (MSL.) ,				at 06.00 Hours ,		on Aug 24 , 2019				
Zero Gage at Bottom Elevation	286.47		m. (MSL.) ,			River Bed	284.10		m. (MSL.)				
Left Bank Elevation		291.23		m. (MSL.) ,									
Right Bank Elevation		291.27		m. (MSL.) ,		Drainage Are	150		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.05	0.74	0.29	0.85	7.25	0.48	0.26	0.15	0.18	0.08	0.05	
2	0.05	0.04	0.34	0.20	0.35	3.40	0.29	0.20	0.16	0.19	0.08	0.05	
3	0.04	0.04	0.20	0.20	0.17	2.50	0.25	0.22	0.16	0.18	0.09	0.04	
4	0.05	0.04	0.17	0.19	0.71	2.00	0.26	0.26	0.16	0.18	0.11	0.04	
5	0.06	0.04	0.13	0.19	6.50	1.94	0.34	0.25	0.15	0.18	0.10	0.03	
6	0.06	0.04	0.11	0.15	3.00	1.52	0.28	0.25	0.15	0.18	0.08	0.03	
7	0.05	0.05	0.10	0.15	0.95	1.36	0.29	0.23	0.16	0.18	0.08	0.02	
8	0.05	0.04	0.10	0.14	0.53	0.74	0.28	0.26	0.15	0.18	0.10	0.01	
9	0.05	0.04	0.10	0.12	0.35	0.60	0.28	0.26	0.15	0.12	0.18	0.01	
10	0.04	0.03	0.10	0.08	1.04	0.58	0.28	0.25	0.14	0.11	0.19	0.01	
11	0.04	0.03	0.10	0.07	5.25	0.58	0.26	0.23	0.04	0.11	0.18	0.01	
12	0.04	0.03	0.10	0.23	0.50	0.58	0.26	0.22	0.18	0.12	0.18	0.01	
13	0.04	0.04	0.14	0.07	3.00	0.55	0.38	0.22	0.19	0.16	0.18	0.01	
14	0.04	0.04	0.14	0.04	1.52	0.55	0.53	0.22	0.18	0.18	0.18	0.01	
15	0.04	0.04	0.10	0.05	1.00	0.55	0.35	0.20	0.18	0.18	0.18	0.01	
16	0.04	0.03	0.10	0.07	2.60	0.60	0.31	0.20	0.18	0.18	0.17	0.01	
17	0.04	0.03	0.34	0.05	2.80	0.53	0.32	0.22	0.18	0.17	0.15	0.01	
18	0.04	0.03	0.35	0.03	2.00	0.55	0.32	0.20	0.18	0.18	0.16	0.01	
19	0.04	0.03	0.18	0.01	0.95	0.71	0.28	0.22	0.18	0.18	0.15	0.01	
20	0.04	0.03	0.13	0.01	0.81	0.58	0.25	0.18	0.18	0.18	0.14	0.01	
21	0.04	0.03	0.10	0.02	1.27	0.85	0.23	0.20	0.18	0.18	0.16	0.01	
22	0.05	0.04	0.10	0.03	0.81	1.27	0.23	0.19	0.16	0.18	0.16	0.01	
23	0.04	0.05	0.09	0.03	3.90	0.60	0.22	0.18	0.14	0.18	0.16	0.01	
24	0.04	0.06	0.09	0.03	12.20	0.50	0.20	0.16	0.16	0.18	0.15	0.01	
25	0.04	0.09	0.08	0.03	2.90	0.48	0.22	0.16	0.15	0.18	0.13	0.01	
26	0.05	0.16	0.08	0.15	1.82	0.43	0.22	0.16	0.18	0.18	0.12	0.01	
27	0.04	0.09	0.07	3.10	2.50	0.43	0.26	0.15	0.18	0.17	0.11	0.01	
28	0.05	0.35	0.06	1.94	4.25	0.34	0.25	0.14	0.18	0.18	0.08	0.01	
29	0.04	0.92	0.09	0.35	2.30	0.35	0.28	0.15	0.18	0.17	0.07	0.01	
30	0.04	0.20	0.14	0.23	2.30	0.38	0.45	0.16	0.18	0.17		0.01	
31		0.22		0.31	6.13		0.34		0.18	0.15		0.01	
Total	1.33	2.95	4.67	8.56	75.26	33.30	9.19	6.20	5.07	5.24	3.90	0.50	156.17 CMSDAY
Mean	0.04	0.10	0.16	0.28	2.43	1.11	0.30	0.21	0.16	0.17	0.13	0.02	0.43 CMS
Max	0.06	0.92	0.74	3.10	12.20	7.25	0.53	0.26	0.19	0.19	0.19	0.05	12.20 CMS
Min	0.04	0.03	0.06	0.01	0.17	0.34	0.20	0.14	0.04	0.11	0.07	0.01	0.01 CMS
Runoff	0.11	0.25	0.40	0.74	6.50	2.88	0.79	0.54	0.44	0.45	0.34	0.04	13.49 MCM
Momentary Peak	23.88	CMS. at 287.95 m. (MSL.) at 06.00 Hours , on Aug 24 , 2019											
Runoff Yield	2.85	Liters/Second/Square KM.		Momentary Peak Yield		159.20	Liters/Second/Square KM.						



## WATER YEAR : 2019

## YOM RIVER BASIN

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

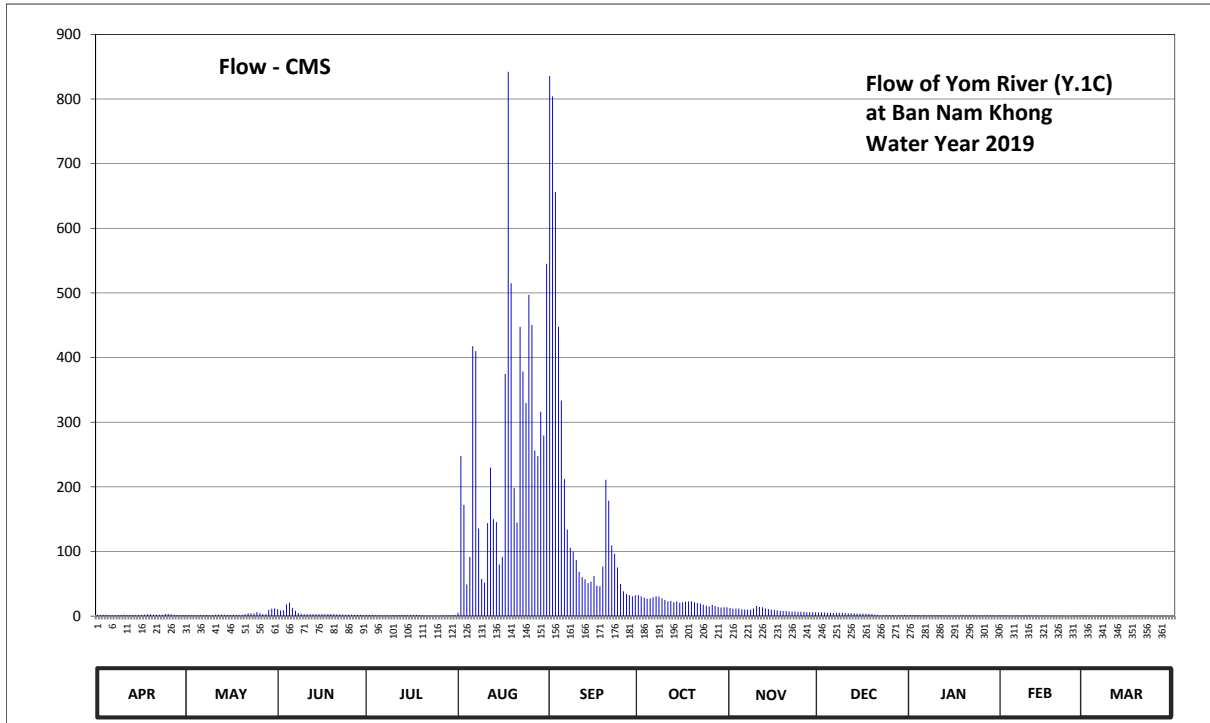
Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	Ban Nam Khong	Amphoe Mueang	Changwat Phrae
<b>Drainge Area</b>	7,749 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+143.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office		<b>Elevation</b> +153.972 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Mae yom weir situated about 76 kilometers above gage site. Stage-discharge relation defined by 46 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.45	143.42	143.81	143.43	143.61	150.82	144.29	143.86	143.64	143.66	143.51	143.43	
2	143.43	143.42	143.74	143.43	146.73	150.63	144.26	143.83	143.63	143.66	143.50	143.40	
3	143.43	143.42	143.75	143.43	146.01	149.70	144.22	143.83	143.62	143.64	143.49	143.40	
4	143.43	143.42	144.00	143.42	144.55	148.31	144.19	143.83	143.61	143.63	143.48	143.39	
5	143.42	143.42	144.06	143.41	145.12	147.46	144.20	143.80	143.60	143.62	143.50	143.39	
6	143.40	143.42	143.87	143.40	148.11	146.39	144.23	143.79	143.60	143.63	143.49	143.38	
7	143.39	143.42	143.73	143.40	148.06	145.61	144.26	143.78	143.61	143.61	143.48	143.38	
8	143.41	143.42	143.58	143.40	145.63	145.29	144.25	143.78	143.61	143.60	143.48	143.40	
9	143.42	143.42	143.52	143.40	144.67	145.22	144.20	143.84	143.60	143.59	143.49	143.40	
10	143.43	143.41	143.50	143.41	144.59	145.06	144.15	143.94	143.59	143.60	143.49	143.38	
11	143.43	143.44	143.49	143.41	145.72	144.82	144.11	143.91	143.57	143.59	143.48	143.34	
12	143.42	143.46	143.49	143.42	146.56	144.71	144.12	143.89	143.57	143.55	143.47	143.33	
13	143.42	143.44	143.49	143.42	145.79	144.66	144.08	143.84	143.56	143.53	143.46	143.31	
14	143.42	143.43	143.49	143.42	145.74	144.58	144.10	143.81	143.55	143.53	143.46	143.31	
15	143.42	143.43	143.49	143.41	144.97	144.61	144.06	143.78	143.55	143.51	143.45	143.31	
16	143.42	143.43	143.49	143.41	145.12	144.73	144.08	143.77	143.55	143.53	143.45	143.30	
17	143.44	143.43	143.49	143.41	147.79	144.52	144.10	143.75	143.53	143.53	143.44	143.36	
18	143.49	143.43	143.51	143.41	150.86	144.51	144.10	143.72	143.53	143.54	143.42	143.40	
19	143.48	143.43	143.51	143.40	148.76	144.93	144.11	143.71	143.51	143.56	143.41	143.40	
20	143.45	143.43	143.49	143.37	146.26	146.38	144.08	143.71	143.45	143.55	143.41	143.40	
21	143.44	143.50	143.48	143.34	145.73	146.07	144.05	143.69	143.43	143.55	143.41	143.39	
22	143.43	143.57	143.48	143.32	148.31	145.33	144.03	143.69	143.44	143.55	143.40	143.37	
23	143.43	143.56	143.47	143.32	147.82	145.18	143.99	143.69	143.49	143.56	143.34	143.36	
24	143.51	143.56	143.44	143.33	147.43	144.91	143.95	143.68	143.61	143.56	143.34	143.35	
25	143.51	143.65	143.44	143.34	148.64	144.56	143.93	143.67	143.62	143.57	143.38	143.33	
26	143.48	143.57	143.44	143.34	148.33	144.39	143.98	143.67	143.59	143.57	143.39	143.33	
27	143.45	143.50	143.43	143.38	146.81	144.32	143.94	143.65	143.58	143.56	143.40	143.32	
28	143.42	143.49	143.43	143.38	146.73	144.29	143.91	143.65	143.51	143.55	143.42	143.32	
29	143.42	143.77	143.43	143.38	147.32	144.26	143.88	143.64	143.63	143.56	143.42	143.31	
30	143.42	143.83	143.43	143.39	147.02	144.29	143.89	143.64	143.66	143.53	143.31	143.31	
31		143.84		143.42	148.96		143.89		143.57	143.51		143.30	
Mean	143.44	143.50	143.57	143.39	146.70	145.68	144.08	143.76	143.57	143.57	143.44	143.36	
Max	143.51	143.84	144.06	143.43	150.86	150.82	144.29	143.94	143.66	143.66	143.51	143.43	150.86
Min	143.39	143.41	143.43	143.32	143.61	144.26	143.88	143.64	143.43	143.51	143.34	143.30	143.30
Annual Max Momentary Gage Height	151.06		m. (MSL.) ,				at 14.00 Hours , on Aug 18 , 2019						
Zero Gage at Bottom Elevation	143.50		m. (MSL.) ,			River Bed	142.68	m. (MSL.)					
Left Bank Elevation		153.91		m. (MSL.) ,									
Right Bank Elevation		154.02		m. (MSL.) ,		Drainage Are	7,749	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.25	1.80	10.85	1.95	5.25	835.40	32.45	12.60	6.00	1.76	0.95	0.62	
2	1.95	1.80	8.70	1.95	247.65	803.95	30.80	11.55	5.75	1.76	0.90	0.50	
3	1.95	1.80	9.00	1.95	172.05	656.00	28.60	11.55	5.50	1.64	0.86	0.50	
4	1.95	1.80	18.00	1.80	49.00	447.50	27.00	11.55	5.25	1.58	0.82	0.47	
5	1.80	1.80	20.70	1.65	91.60	333.50	27.50	10.50	5.00	1.52	0.90	0.47	
6	1.50	1.80	12.95	1.50	417.50	211.95	29.15	10.20	5.00	1.58	0.86	0.44	
7	1.40	1.80	8.40	1.50	410.00	133.90	30.80	9.90	5.25	1.46	0.82	0.44	
8	1.65	1.80	4.60	1.50	135.70	105.65	30.25	9.90	5.25	1.40	0.82	0.50	
9	1.80	1.80	3.40	1.50	57.58	99.70	27.50	11.90	5.00	1.35	0.86	0.50	
10	1.95	1.65	3.00	1.65	51.80	86.80	25.00	15.60	4.80	1.40	0.86	0.44	
11	1.95	2.10	2.85	1.65	143.80	68.50	23.00	14.40	4.40	1.35	0.82	0.32	
12	1.80	2.40	2.85	1.80	229.80	60.48	23.50	13.65	4.40	1.15	0.78	0.29	
13	1.80	2.10	2.85	1.80	150.10	56.85	21.60	11.90	4.20	1.05	0.74	0.23	
14	1.80	1.95	2.85	1.80	145.60	51.10	22.50	10.85	4.00	1.05	0.74	0.23	
15	1.80	1.95	2.85	1.65	79.75	53.23	20.70	9.90	4.00	0.95	0.70	0.23	
16	1.80	1.95	2.85	1.65	91.60	61.93	21.60	9.60	4.00	1.05	0.70	0.20	
17	2.10	1.95	2.85	1.65	374.75	46.90	22.50	9.00	3.60	1.05	0.66	0.38	
18	2.85	1.95	3.20	1.65	842.20	46.20	22.50	8.10	3.60	1.10	0.58	0.50	
19	2.70	1.95	3.20	1.50	515.00	76.75	23.00	7.80	3.20	1.20	0.54	0.50	
20	2.25	1.95	2.85	1.20	198.30	210.90	21.60	7.80	2.25	1.15	0.54	0.50	
21	2.10	3.00	2.70	0.90	144.70	178.35	20.25	7.25	1.95	1.15	0.54	0.47	
22	1.95	4.40	2.70	0.70	447.50	109.05	19.35	7.25	0.66	1.15	0.50	0.41	
23	1.95	4.20	2.55	0.70	378.50	96.40	17.60	7.25	0.86	1.20	0.32	0.38	
24	3.20	4.20	2.10	0.80	329.75	75.25	16.00	7.00	1.46	1.20	0.32	0.35	
25	3.20	6.25	2.10	0.90	497.00	49.70	15.20	6.75	1.52	1.25	0.44	0.29	
26	2.70	4.40	2.10	0.90	450.50	38.40	17.20	6.75	1.35	1.25	0.47	0.29	
27	2.25	3.00	1.95	1.30	256.10	34.20	15.60	6.25	1.30	1.20	0.50	0.26	
28	1.80	2.85	1.95	1.30	247.65	32.45	14.40	6.25	0.95	1.15	0.58	0.26	
29	1.80	9.60	1.95	1.30	316.00	30.80	13.30	6.00	1.58	1.20	0.58	0.23	
30	1.80	11.55	1.95	1.40	279.40	32.45	13.65	6.00	1.76	1.05		0.23	
31		11.90		1.80	545.00		13.65		1.25	0.95		0.20	
Total	61.80	103.45	150.85	45.30	8301.13	5124.24	687.75	285.00	105.09	39.30	19.70	11.63	14935.24 CMSDAY
Mean	2.06	3.34	5.03	1.46	267.78	170.81	22.19	9.50	3.39	1.27	0.68	0.38	40.81 CMS
Max	3.20	11.90	20.70	1.95	842.20	835.40	32.45	15.60	6.00	1.76	0.95	0.62	842.20 CMS
Min	1.40	1.65	1.95	0.70	5.25	30.80	13.30	6.00	0.66	0.95	0.32	0.20	0.20 CMS
Runoff	5.34	8.94	13.03	3.91	717.22	442.73	59.42	24.62	9.08	3.40	1.70	1.00	1290.40 MCM
Momentary Peak	876.20	CMS.	at 151.06 m. (MSL.)	at 14.00 Hours	on Aug 18, 2019								
Runoff Yield	5.37	Liters/Second/Square KM.		Momentary Peak Yield	114.93	Liters/Second/Square KM.							

## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)

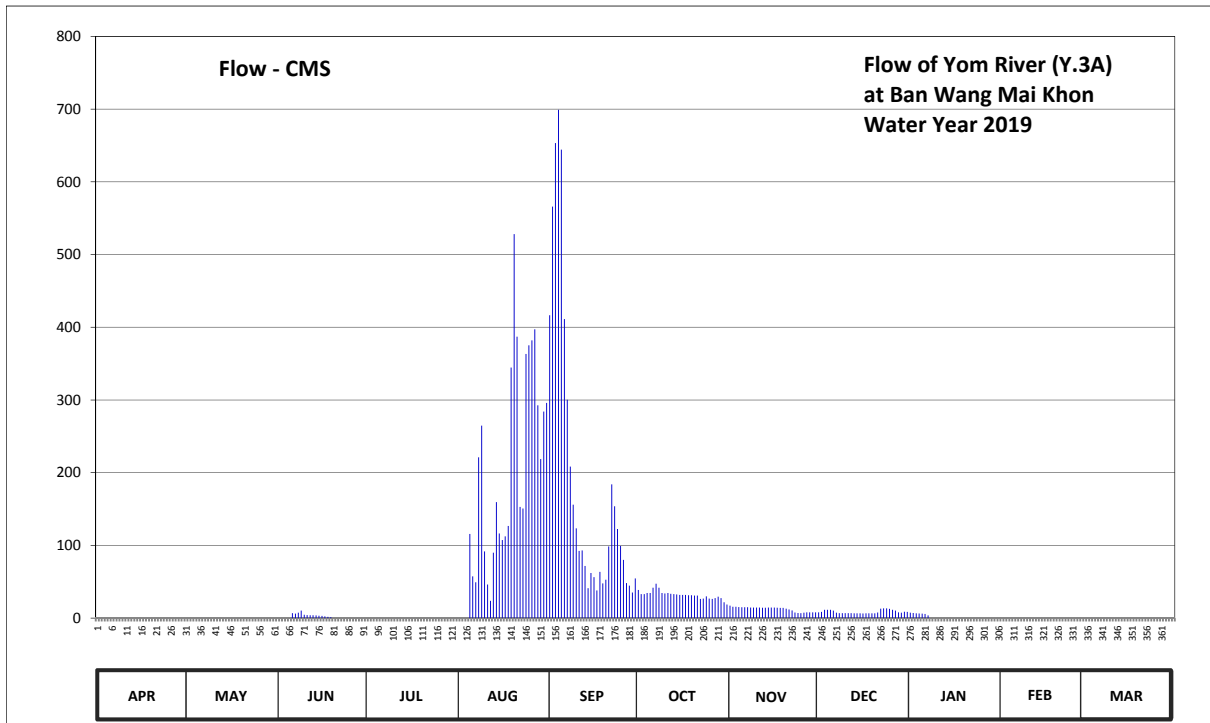
Lat 17 - 18 - 28 N Long 99 - 49 - 44 E

Location : on right bank about 100 meters downstream from the bridge on highway.

	Ban Wang Mai Khon	Amphoe Sawankhalok	Changwat Sukhothai
<b>Drainage Area</b>	13,331 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+51.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of automatic gage building.	<b>Elevation</b>	+65.475 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 11 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.43	50.41	50.48	50.54	50.34	56.74	52.70	52.13	51.83	51.81	50.34	50.34	
2	50.41	50.41	50.53	50.52	50.34	58.40	52.56	52.08	51.85	51.80	50.34	50.36	
3	50.42	50.40	50.54	50.51	50.33	59.37	52.56	52.08	51.95	51.78	50.33	50.36	
4	50.43	50.40	50.66	50.59	50.54	59.88	52.60	52.07	51.95	51.77	50.33	50.34	
5	50.43	50.40	51.21	50.58	53.04	59.27	52.60	52.06	51.95	51.76	50.33	50.34	
6	50.43	50.40	51.79	50.56	52.08	56.68	52.77	52.06	51.91	51.75	50.33	50.32	
7	50.43	50.40	51.76	50.47	51.93	55.38	52.90	52.06	51.81	51.67	50.32	50.31	
8	50.43	50.40	51.81	50.46	54.44	54.28	52.77	52.05	51.79	51.45	50.32	50.31	
9	50.43	50.40	51.91	50.46	54.96	53.60	52.60	52.05	51.79	51.21	50.32	50.31	
10	50.43	50.40	51.70	50.45	52.66	53.15	52.58	52.05	51.79	51.01	50.32	50.31	
11	50.43	50.40	51.69	50.45	51.87	52.67	52.60	52.05	51.79	50.87	50.32	50.31	
12	50.43	50.41	51.68	50.45	51.35	52.68	52.57	52.04	51.79	50.61	50.32	50.33	
13	50.43	50.42	51.68	50.44	52.63	52.33	52.56	52.04	51.78	50.47	50.32	50.33	
14	50.43	50.39	51.67	50.44	53.65	51.77	52.55	52.05	51.78	50.44	50.31	50.34	
15	50.43	50.39	51.65	50.44	53.06	52.16	52.53	52.05	51.78	50.41	50.31	50.33	
16	50.42	50.39	51.64	50.44	52.91	52.06	52.53	52.05	51.77	50.38	50.31	50.34	
17	50.42	50.38	51.61	50.43	52.99	51.70	52.53	52.04	51.78	50.37	50.31	50.34	
18	50.42	50.38	51.58	50.43	53.20	52.19	52.52	52.03	51.78	50.38	50.31	50.34	
19	50.42	50.38	51.56	50.40	55.88	51.90	52.52	52.03	51.78	50.39	50.31	50.35	
20	50.42	50.38	51.11	50.38	57.94	52.00	52.51	52.00	51.78	50.39	50.31	50.35	
21	50.41	50.38	50.48	50.37	56.40	52.77	52.51	51.96	51.82	50.39	50.31	50.35	
22	50.38	50.41	50.46	50.37	53.56	53.97	52.39	51.92	52.00	50.39	50.31	50.35	
23	50.37	50.38	50.45	50.36	53.53	53.57	52.40	51.82	52.01	50.37	50.30	50.35	
24	50.40	50.37	50.44	50.36	56.12	53.14	52.48	51.80	52.01	50.35	50.30	50.34	
25	50.41	50.37	50.43	50.36	56.26	52.78	52.40	51.79	51.99	50.34	50.29	50.33	
26	50.41	50.37	50.42	50.36	56.34	52.47	52.39	51.81	51.95	50.35	50.30	50.32	
27	50.41	50.36	50.50	50.35	56.52	51.91	52.42	51.83	51.91	50.36	50.30	50.31	
28	50.41	50.36	50.57	50.35	55.29	51.84	52.47	51.83	51.83	50.36	50.31	50.31	
29	50.41	50.37	50.56	50.35	54.42	51.64	52.42	51.83	51.81	50.36	50.32	50.32	
30	50.41	50.39	50.56	50.34	55.19	52.03	52.26	51.83	51.86	50.36		50.32	
31		50.41		50.34	55.33		52.17		51.85	50.35		50.32	
Mean	50.42	50.39	51.10	50.43	53.71	53.81	52.53	51.98	51.85	50.80	50.32	50.33	
Max	50.43	50.42	51.91	50.59	57.94	59.88	52.90	52.13	52.01	51.81	50.34	50.36	59.88
Min	50.37	50.36	50.42	50.34	50.33	51.64	52.17	51.79	51.77	50.34	50.29	50.31	50.29
Annual Max Momentary Gage Height	59.98		m. (MSL.) ,				at 20.00 Hours ,	on Sep 4 , 2019					
Zero Gage at Bottom Elevation		51.00	m. (MSL.) ,			River Bed	50.10	m. (MSL.)					
Left Bank Elevation		61.78	m. (MSL.) ,										
Right Bank Elevation		62.09	m. (MSL.) ,			Drainage Are	13,331	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

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	416.60	38.80	17.22	7.97	7.39	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	566.00	33.00	15.56	8.55	7.10	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	653.30	33.00	15.56	11.50	6.58	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	699.20	34.60	15.24	11.50	6.32	0.00	0.00	
5	0.00	0.00	0.00	0.00	115.76	644.30	34.60	14.92	11.50	6.06	0.00	0.00	
6	0.00	0.00	6.84	0.00	57.42	411.20	41.74	14.92	10.30	5.80	0.00	0.00	
7	0.00	0.00	6.06	0.00	49.26	300.30	47.40	14.92	7.39	3.78	0.00	0.00	
8	0.00	0.00	7.39	0.00	221.20	208.46	41.74	14.60	6.84	0.00	0.00	0.00	
9	0.00	0.00	10.30	0.00	264.60	155.90	34.60	14.60	6.84	0.00	0.00	0.00	
10	0.00	0.00	4.50	0.00	91.75	123.35	33.80	14.60	6.84	0.00	0.00	0.00	
11	0.00	0.00	4.26	0.00	46.14	92.38	34.60	14.60	6.84	0.00	0.00	0.00	
12	0.00	0.00	4.02	0.00	23.68	93.00	33.40	14.28	6.84	0.00	0.00	0.00	
13	0.00	0.00	4.02	0.00	89.88	71.74	33.00	14.28	6.58	0.00	0.00	0.00	
14	0.00	0.00	3.78	0.00	159.58	41.15	32.60	14.60	6.58	0.00	0.00	0.00	
15	0.00	0.00	3.30	0.00	116.45	61.94	31.80	14.60	6.58	0.00	0.00	0.00	
16	0.00	0.00	3.06	0.00	107.38	56.29	31.80	14.60	6.32	0.00	0.00	0.00	
17	0.00	0.00	2.34	0.00	112.38	38.00	31.80	14.28	6.58	0.00	0.00	0.00	
18	0.00	0.00	1.68	0.00	126.80	63.64	31.40	13.96	6.58	0.00	0.00	0.00	
19	0.00	0.00	1.26	0.00	344.50	47.70	31.40	13.96	6.58	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	528.20	52.90	31.00	13.00	6.58	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	387.00	98.63	31.00	11.80	7.68	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	152.96	183.95	26.48	10.60	13.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	150.76	153.70	26.85	7.68	13.32	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	363.20	122.66	29.85	7.10	13.32	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	375.10	99.25	26.85	6.84	12.70	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	381.90	80.07	26.48	7.39	11.50	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	397.20	48.22	27.60	7.97	10.30	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	292.65	44.58	29.48	7.97	7.97	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	218.80	35.30	27.60	7.97	7.39	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	284.15	54.60	21.73	7.97	8.84	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	296.05	0.00	18.58	0.00	8.55	0.00	0.00	0.00	
Total	0.00	0.00	62.81	0.00	5754.75	5718.31	988.58	377.59	269.86	43.03	0.00	0.00	13214.93 CMSDAY
Mean	0.00	0.00	2.09	0.00	185.64	190.61	31.89	12.59	8.71	1.39	0.00	0.00	36.11 CMS
Max	0.00	0.00	10.30	0.00	528.20	699.20	47.40	17.22	13.32	7.39	0.00	0.00	699.20 CMS
Min	0.00	0.00	0.00	0.00	0.00	35.30	18.58	6.84	6.32	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	5.43	0.00	497.21	494.06	85.41	32.62	23.32	3.72	0.00	0.00	1141.77 MCM
Momentary Peak	708.20	CMS. at 59.98 m. (MSL.) at 20.00 Hours , on Sep 4 , 2019											
Runoff Yield	2.67	Liters/Second/Square KM. Momentary Peak Yield 52.14 Liters/Second/Square KM.											

## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Nai Mueang, Sukhothai (Y.4)

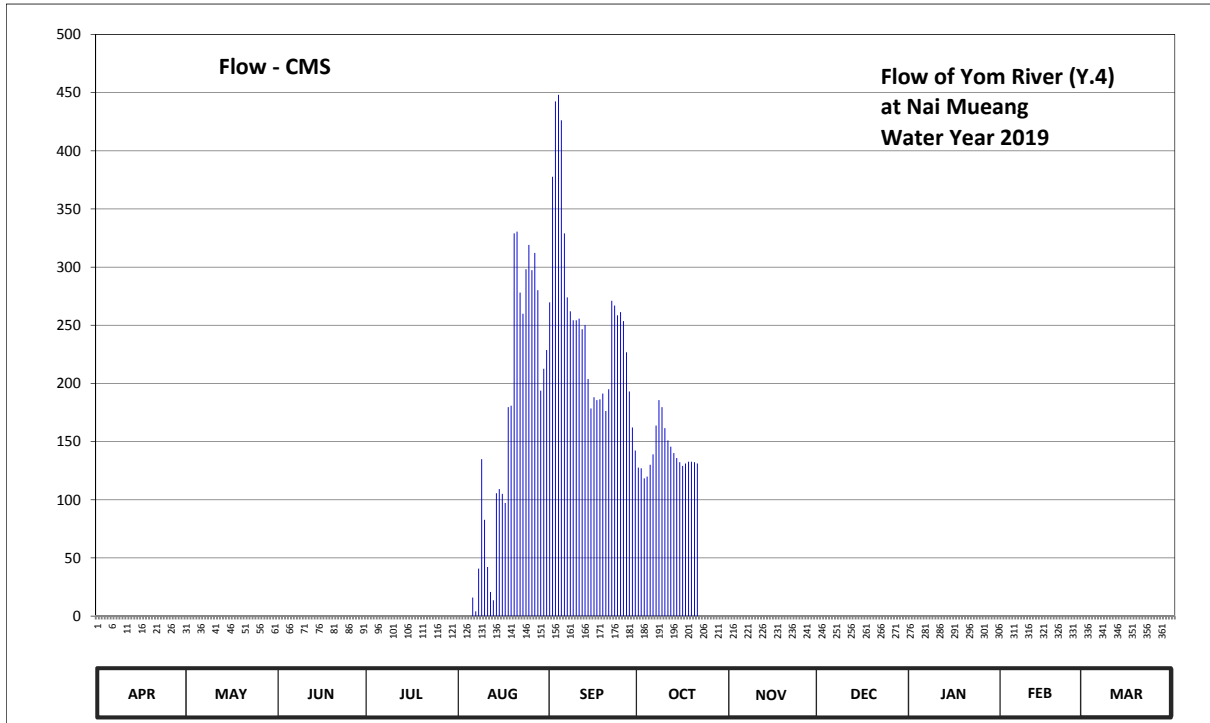
Lat 17 - 00 - 18 N Long 99 - 49 - 31 E

Location : on left bank at the bridge on road.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Sukhothai
<b>Drainage Area</b>	17,731 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+43.440 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+50.889 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1990 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +49.060 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.19	43.19	42.84	42.72	42.68	48.75	46.43	47.87	44.86	42.86	42.75	42.75	
2	43.19	43.19	42.79	42.90	42.68	50.19	46.42	47.85	44.69	42.84	42.75	42.75	
3	43.19	43.19	42.74	42.92	42.67	51.00	46.25	47.80	44.53	42.80	42.75	42.75	
4	43.19	43.19	42.74	42.99	42.67	51.07	46.28	47.79	44.38	42.79	42.74	42.75	
5	43.19	43.19	42.65	43.05	43.43	50.80	46.48	47.76	44.25	42.79	42.74	42.75	
6	43.19	43.19	42.65	43.11	46.95	49.56	46.65	47.72	44.13	42.77	42.74	42.75	
7	43.19	43.19	42.65	43.10	46.63	48.81	47.10	47.71	43.99	42.76	42.74	42.75	
8	43.19	43.19	42.65	42.98	47.53	48.64	47.48	47.73	43.87	42.76	42.75	42.75	
9	43.19	43.19	42.67	42.83	49.22	48.53	47.38	47.71	43.77	42.76	42.75	42.75	
10	43.19	43.18	43.37	42.68	48.34	48.53	47.06	47.67	43.65	42.76	42.75	42.75	
11	43.19	43.17	44.12	42.64	47.56	48.55	46.87	47.62	43.48	42.76	42.75	42.75	
12	43.19	43.16	44.45	42.62	47.07	48.42	46.77	47.55	43.34	42.77	42.75	42.75	
13	43.19	43.14	44.58	42.61	46.89	48.47	46.67	47.48	43.23	42.77	42.75	42.75	
14	43.19	43.14	44.69	42.61	48.74	47.77	46.59	47.49	43.18	42.77	42.74	42.75	
15	43.19	43.12	44.82	42.61	48.80	47.36	46.52	47.51	43.15	42.77	42.74	42.75	
16	43.19	43.11	44.91	42.62	48.73	47.52	46.46	47.53	43.12	42.77	42.75	42.74	
17	43.19	43.09	44.83	42.62	48.60	47.48	46.50	47.54	43.10	42.76	42.75	42.74	
18	43.19	43.07	44.41	42.64	47.38	47.49	46.53	47.54	43.06	42.76	42.75	42.74	
19	43.19	43.05	44.14	42.64	47.40	47.57	46.53	47.53	43.04	42.75	42.75	42.74	
20	43.19	43.05	43.95	42.63	49.56	47.32	46.52	47.48	43.02	42.74	42.74	42.74	
21	43.19	43.03	43.77	42.64	49.58	47.63	46.50	47.38	42.99	42.75	42.74	42.74	
22	43.19	43.01	43.55	42.65	48.87	48.77	46.47	47.25	42.97	42.75	42.74	42.74	
23	43.19	42.99	43.35	42.64	48.61	48.71	46.28	47.02	42.96	42.75	42.74	42.74	
24	43.19	42.98	43.20	42.64	49.15	48.59	46.54	46.71	42.96	42.75	42.74	42.74	
25	43.19	42.97	43.04	42.71	49.43	48.63	46.87	46.43	42.95	42.75	42.75	42.74	
26	43.19	42.96	42.93	42.71	49.14	48.52	47.02	46.17	42.95	42.75	42.73	42.74	
27	43.19	42.94	42.82	42.68	49.34	48.13	47.13	45.88	42.93	42.75	42.74	42.74	
28	43.19	42.94	42.75	42.68	48.90	47.60	47.35	45.60	42.93	42.75	42.75	42.74	
29	43.19	42.94	42.70	42.73	47.61	47.07	47.58	45.31	42.98	42.76	42.75	42.74	
30	43.19	42.94	42.73	42.74	47.91	46.71	47.76	45.06	42.94	42.75	42.75	42.74	
31		42.89		42.68	48.16		47.83		42.87	42.75		42.74	
Mean	43.19	43.08	43.45	42.74	47.43	48.47	46.80	47.19	43.43	42.77	42.75	42.74	
Max	43.19	43.19	44.91	43.11	49.58	51.07	47.83	47.87	44.86	42.86	42.75	42.75	51.07
Min	43.19	42.89	42.65	42.61	42.67	46.71	46.25	45.06	42.87	42.74	42.73	42.74	42.61
Annual Max Momentary Gage Height	51.17		m. (MSL.) ,				at 22.00 Hours ,						
Zero Gage at Bottom Elevation	43.44		m. (MSL.) ,			River Bed	42.08	m. (MSL.)					
Left Bank Elevation	50.90		m. (MSL.) ,										
Right Bank Elevation	49.05		m. (MSL.) ,		Drainage Are	17,731	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

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	269.70	127.56	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	377.71	127.04	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	442.40	118.35	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	448.14	119.88	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	426.20	130.16	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	15.95	328.96	139.10	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	4.18	273.90	163.80	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	40.81	262.00	185.68	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	134.90	254.30	179.66	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	82.78	254.30	161.56	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	42.22	255.70	151.05	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	20.77	246.60	145.58	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	13.63	250.10	140.18	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	105.60	203.81	135.88	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	109.20	178.52	132.24	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	105.00	188.14	129.12	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	97.20	185.68	131.20	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	179.66	186.29	132.76	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	180.80	191.24	132.76	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	328.96	176.24	132.24	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	330.48	194.99	131.20	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	278.10	271.10	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	259.90	266.90	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	298.10	258.50	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	319.08	261.30	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	297.36	253.60	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	312.24	226.75	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	280.20	193.10	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	193.73	162.12	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	212.63	142.34	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	228.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	4472.18	7630.63	2947.00	0.00	0.00	0.00	0.00	0.00	15049.81 CMSDAY
Mean	0.00	0.00	0.00	0.00	144.26	254.35	95.06	0.00	0.00	0.00	0.00	0.00	41.12 CMS
Max	0.00	0.00	0.00	0.00	330.48	448.14	185.68	0.00	0.00	0.00	0.00	0.00	448.14 CMS
Min	0.00	0.00	0.00	0.00	0.00	142.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	386.40	659.29	254.62	0.00	0.00	0.00	0.00	0.00	1300.30 MCM
Momentary Peak	456.34	CMS. at 51.17 m. (MSL.) at 22.00 Hours , on Sep 4, 2019											
Runoff Yield	2.33	Liters/Second/Square KM. Momentary Peak Yield 25.74 Liters/Second/Square KM.											

## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

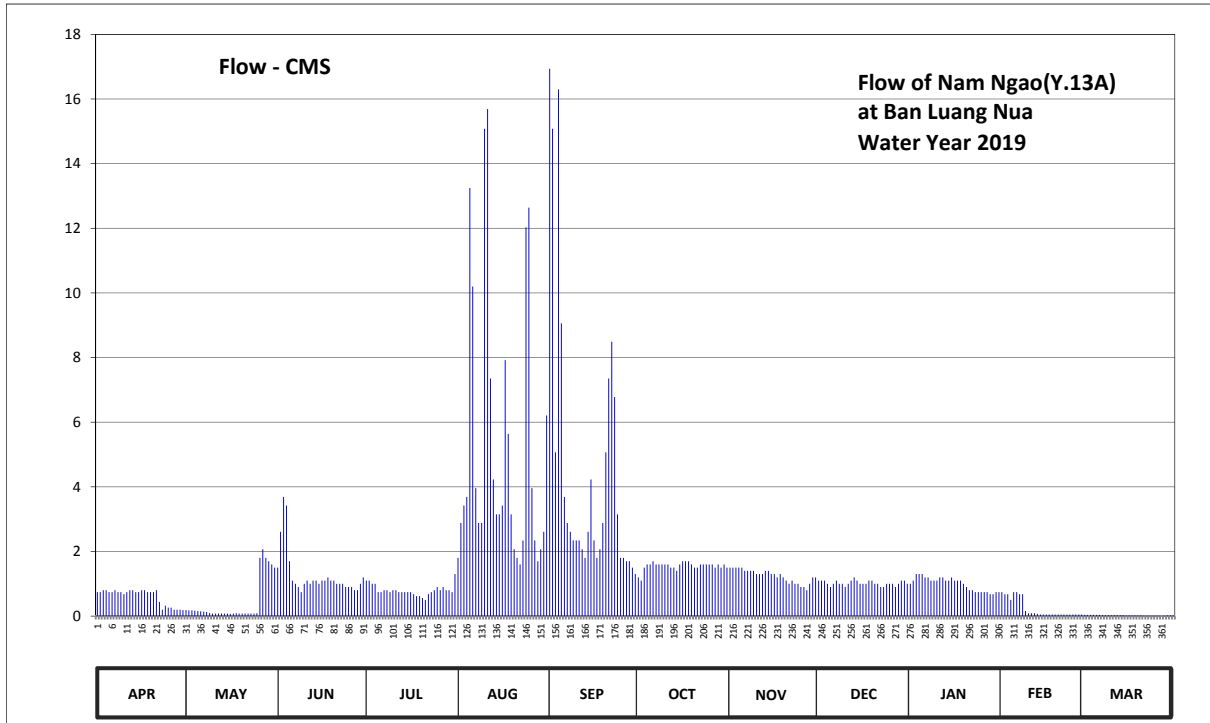
Lat 18 - 45 - 32 N Long 99 - 58 - 33 E

Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

	<b>Ban Luang Nua</b>	<b>Amphoe Ngao</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	381 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+268.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.	<b>Elevation</b>	+272.644 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 - 1995, 2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1988 - 1995, 2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1988 - 1995, 2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	269.39	269.29	269.47	269.43	269.50	269.81	269.44	269.47	269.43	269.42	269.39	268.74	
2	269.39	269.28	269.53	269.43	269.54	269.78	269.43	269.47	269.43	269.43	269.38	268.67	
3	269.40	269.28	269.57	269.42	269.56	269.61	269.47	269.47	269.43	269.45	269.38	268.65	
4	269.40	269.27	269.56	269.42	269.57	269.80	269.48	269.47	269.42	269.45	269.35	268.66	
5	269.39	269.26	269.49	269.39	269.75	269.68	269.48	269.47	269.41	269.45	269.39	268.65	
6	269.39	269.25	269.43	269.39	269.70	269.57	269.49	269.46	269.42	269.44	269.39	268.65	
7	269.40	269.24	269.42	269.40	269.58	269.54	269.48	269.46	269.43	269.44	269.38	268.64	
8	269.39	269.23	269.41	269.40	269.54	269.53	269.48	269.46	269.42	269.43	269.38	268.64	
9	269.39	269.18	269.39	269.39	269.54	269.52	269.48	269.46	269.42	269.43	269.26	268.63	
10	269.38	269.12	269.42	269.40	269.78	269.52	269.48	269.45	269.41	269.43	269.14	268.62	
11	269.39	269.11	269.43	269.40	269.79	269.52	269.48	269.45	269.42	269.44	269.13	268.59	
12	269.40	269.09	269.42	269.39	269.65	269.51	269.47	269.45	269.43	269.44	269.13	268.57	
13	269.40	269.09	269.43	269.39	269.59	269.50	269.47	269.46	269.44	269.43	268.99	268.56	
14	269.39	269.07	269.43	269.39	269.55	269.53	269.46	269.46	269.43	269.43	268.79	268.56	
15	269.39	269.05	269.42	269.39	269.55	269.59	269.48	269.45	269.42	269.44	268.78	268.54	
16	269.40	269.04	269.43	269.39	269.56	269.52	269.49	269.45	269.42	269.43	268.77	268.54	
17	269.40	269.11	269.43	269.38	269.66	269.50	269.49	269.44	269.42	269.43	268.82	268.50	
18	269.39	269.13	269.44	269.37	269.62	269.51	269.49	269.45	269.43	269.43	268.82	268.46	
19	269.39	269.11	269.43	269.37	269.55	269.54	269.48	269.44	269.43	269.42	268.80	268.46	
20	269.39	269.08	269.43	269.36	269.51	269.61	269.47	269.43	269.42	269.41	268.79	268.45	
21	269.40	269.06	269.42	269.35	269.50	269.65	269.47	269.42	269.42	269.40	268.79	268.43	
22	269.34	269.08	269.42	269.38	269.48	269.67	269.48	269.43	269.41	269.40	268.79	268.43	
23	269.30	269.09	269.42	269.39	269.52	269.64	269.48	269.42	269.41	269.39	268.80	268.42	
24	269.32	269.07	269.41	269.40	269.73	269.55	269.48	269.42	269.42	269.39	268.80	268.41	
25	269.31	269.17	269.41	269.41	269.74	269.50	269.48	269.41	269.42	269.39	268.79	268.37	
26	269.31	269.50	269.41	269.40	269.58	269.50	269.48	269.41	269.42	269.39	268.78	268.35	
27	269.30	269.51	269.40	269.41	269.52	269.49	269.47	269.40	269.41	269.39	268.78	268.34	
28	269.30	269.50	269.40	269.40	269.49	269.49	269.48	269.42	269.42	269.38	268.77	268.43	
29	269.30	269.49	269.42	269.40	269.51	269.47	269.47	269.44	269.43	269.38	268.77	268.50	
30	269.29	269.48	269.44	269.39	269.53	269.45	269.48	269.44	269.43	269.39	268.77	268.49	
31		269.47		269.45	269.63		269.47		269.42	269.39		268.49	
Mean	269.37	269.22	269.44	269.40	269.59	269.57	269.48	269.44	269.42	269.42	269.01	268.53	
Max	269.40	269.51	269.57	269.45	269.79	269.81	269.49	269.47	269.44	269.45	269.39	268.74	269.81
Min	269.29	269.04	269.39	269.35	269.48	269.45	269.43	269.40	269.41	269.38	268.77	268.34	268.34
Annual Max Momentary Gage Height	270.07		m. (MSL.) ,				at 18.00 Hours ,						on Aug 10 , 2019
Zero Gage at Bottom Elevation	268.30		m. (MSL.) ,				River Bed	268.30		m. (MSL.)			
Left Bank Elevation		274.92		m. (MSL.) ,									
Right Bank Elevation		275.04		m. (MSL.) ,			Drainage Are	381		Square Kilometers			



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.19	1.50	1.10	1.80	16.94	1.20	1.50	1.10	1.00	0.74	0.04	
2	0.74	0.18	2.61	1.10	2.88	15.08	1.10	1.50	1.10	1.10	0.68	0.04	
3	0.80	0.18	3.69	1.00	3.42	5.07	1.50	1.50	1.10	1.30	0.68	0.04	
4	0.80	0.17	3.42	1.00	3.69	16.30	1.60	1.50	1.00	1.30	0.50	0.04	
5	0.74	0.16	1.70	0.74	13.25	9.06	1.60	1.50	0.90	1.30	0.74	0.04	
6	0.74	0.15	1.10	0.74	10.20	3.69	1.70	1.40	1.00	1.20	0.74	0.04	
7	0.80	0.14	1.00	0.80	3.96	2.88	1.60	1.40	1.10	1.20	0.68	0.03	
8	0.74	0.13	0.90	0.80	2.88	2.61	1.60	1.40	1.00	1.10	0.68	0.03	
9	0.74	0.10	0.74	0.74	2.88	2.34	1.60	1.40	1.00	1.10	0.16	0.03	
10	0.68	0.08	1.00	0.80	15.08	2.34	1.60	1.30	0.90	1.10	0.09	0.03	
11	0.74	0.08	1.10	0.80	15.69	2.34	1.60	1.30	1.00	1.20	0.09	0.03	
12	0.80	0.08	1.00	0.74	7.35	2.07	1.50	1.30	1.10	1.20	0.09	0.03	
13	0.80	0.08	1.10	0.74	4.23	1.80	1.50	1.40	1.20	1.10	0.07	0.03	
14	0.74	0.08	1.10	0.74	3.15	2.61	1.40	1.40	1.10	1.10	0.05	0.03	
15	0.74	0.08	1.00	0.74	3.15	4.23	1.60	1.30	1.00	1.20	0.05	0.02	
16	0.80	0.07	1.10	0.74	3.42	2.34	1.70	1.30	1.00	1.10	0.05	0.02	
17	0.80	0.08	1.10	0.68	7.92	1.80	1.70	1.20	1.00	1.10	0.05	0.02	
18	0.74	0.09	1.20	0.62	5.64	2.07	1.70	1.30	1.10	1.10	0.05	0.02	
19	0.74	0.08	1.10	0.62	3.15	2.88	1.60	1.20	1.10	1.00	0.05	0.02	
20	0.74	0.08	1.10	0.56	2.07	5.07	1.50	1.10	1.00	0.90	0.05	0.02	
21	0.80	0.08	1.00	0.50	1.80	7.35	1.50	1.00	1.00	0.80	0.05	0.01	
22	0.44	0.08	1.00	0.68	1.60	8.49	1.60	1.10	0.90	0.80	0.05	0.01	
23	0.20	0.08	1.00	0.74	2.34	6.78	1.60	1.00	0.90	0.74	0.05	0.01	
24	0.32	0.08	0.90	0.80	12.03	3.15	1.60	1.00	1.00	0.74	0.05	0.01	
25	0.26	0.09	0.90	0.90	12.64	1.80	1.60	0.90	1.00	0.74	0.05	0.01	
26	0.26	1.80	0.90	0.80	3.96	1.80	1.60	0.90	1.00	0.74	0.05	0.01	
27	0.20	2.07	0.80	0.90	2.34	1.70	1.50	0.80	0.90	0.74	0.05	0.00	
28	0.20	1.80	0.80	0.80	1.70	1.70	1.60	1.00	1.00	0.68	0.05	0.01	
29	0.20	1.70	1.00	0.80	2.07	1.50	1.50	1.20	1.10	0.68	0.05	0.02	
30	0.19	1.60	1.20	0.74	2.61	1.30	1.60	1.20	1.10	0.74		0.02	
31		1.50		1.30	6.21		1.50		1.00	0.74		0.02	
Total	18.23	13.16	38.06	24.76	165.11	139.09	48.10	37.30	31.70	30.84	6.74	0.73	553.82 CMSDAY
Mean	0.61	0.42	1.27	0.80	5.33	4.64	1.55	1.24	1.02	0.99	0.23	0.02	1.51 CMS
Max	0.80	2.07	3.69	1.30	15.69	16.94	1.70	1.50	1.20	1.30	0.74	0.04	16.94 CMS
Min	0.19	0.07	0.74	0.50	1.60	1.30	1.10	0.80	0.90	0.68	0.05	0.00	0.00 CMS
Runoff	1.58	1.14	3.29	2.14	14.27	12.02	4.16	3.22	2.74	2.66	0.58	0.06	47.85 MCM
Momentary Peak	34.04	CMS. at 270.07 m. (MSL.) at 18.00 Hours , on Aug 10 , 2019											
Runoff Yield	3.99	Liters/Second/Square KM.		Momentary Peak Yield		89.58	Liters/Second/Square KM.						



## WATER YEAR : 2019

## YOM RIVER BASIN

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

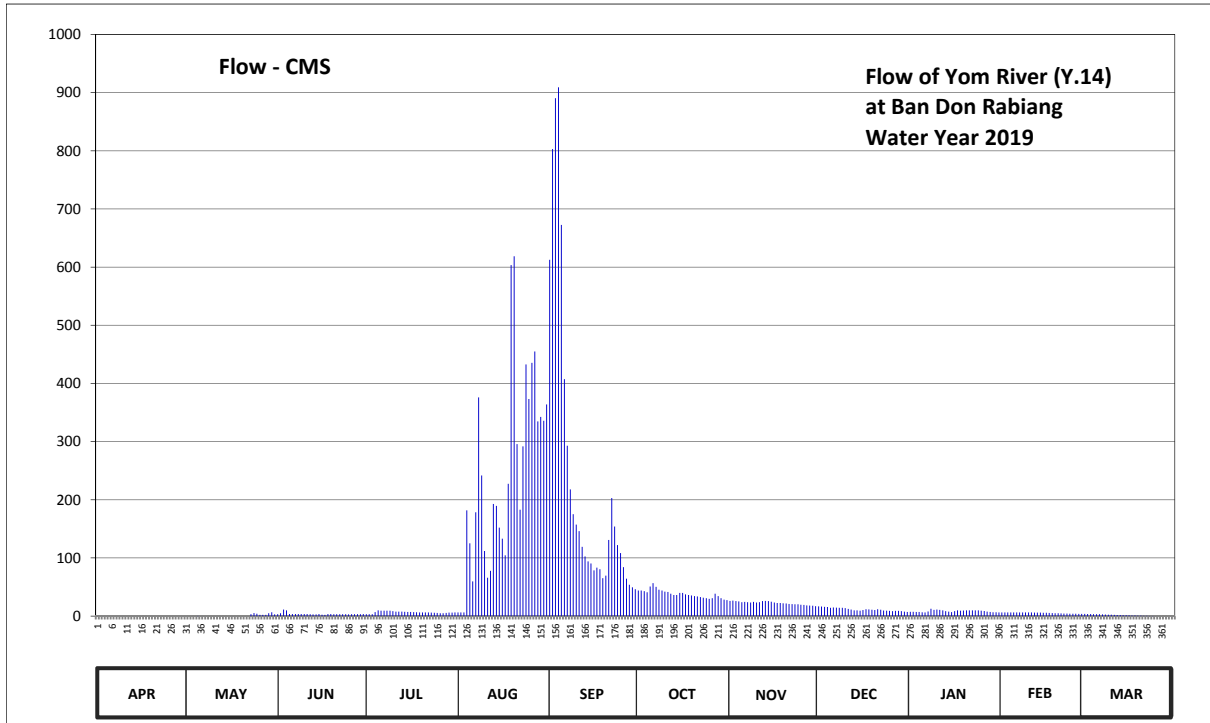
Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

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
<b>Drainage Area</b>	12,100 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+65.100 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of gage observer's house.	<b>Elevation</b>	+78.363 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1964 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1964 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1964 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.45	65.42	66.01	66.02	66.22	71.87	67.20	66.87	66.62	66.27	66.22	66.05	
2	65.45	65.79	66.13	66.01	66.21	73.09	67.20	66.88	66.61	66.27	66.21	66.04	
3	65.45	65.79	66.44	66.01	66.21	73.62	67.18	66.86	66.60	66.26	66.21	66.03	
4	65.45	65.79	66.40	66.24	68.67	73.73	67.15	66.85	66.59	66.25	66.22	66.02	
5	65.45	65.81	66.04	66.39	68.12	72.27	67.30	66.82	66.54	66.23	66.22	66.01	
6	65.45	65.77	66.04	66.37	67.42	70.46	67.38	66.83	66.56	66.21	66.21	66.01	
7	65.45	65.73	66.03	66.36	68.64	69.60	67.29	66.82	66.55	66.30	66.21	66.00	
8	65.45	65.73	66.03	66.36	70.23	68.99	67.22	66.81	66.54	66.49	66.21	65.99	
9	65.45	65.73	66.03	66.36	69.19	68.61	67.20	66.83	66.54	66.42	66.21	65.97	
10	65.45	65.73	66.03	66.33	67.99	68.44	67.17	66.81	66.52	66.44	66.21	65.96	
11	65.44	65.73	66.03	66.29	67.49	68.33	67.16	66.82	66.48	66.42	66.21	65.95	
12	65.43	65.73	66.02	66.28	67.62	68.06	67.11	66.86	66.44	66.39	66.20	65.93	
13	65.43	65.73	66.00	66.28	68.77	67.89	67.07	66.87	66.39	66.32	66.20	65.92	
14	65.41	65.73	66.00	66.27	68.74	67.80	67.07	66.86	66.39	66.28	66.20	65.90	
15	65.40	65.73	66.03	66.26	68.39	67.76	67.13	66.84	66.37	66.24	66.19	65.90	
16	65.40	65.73	65.97	66.25	68.20	67.63	67.13	66.81	66.41	66.32	66.18	65.89	
17	65.39	65.73	65.95	66.24	67.91	67.68	67.09	66.79	66.46	66.40	66.16	65.88	
18	65.38	65.73	66.03	66.23	69.07	67.65	67.07	66.79	66.45	66.37	66.15	65.87	
19	65.37	65.73	66.03	66.22	71.81	67.48	67.06	66.77	66.43	66.38	66.13	65.86	
20	65.37	65.73	66.02	66.22	71.91	67.53	67.04	66.76	66.41	66.40	66.12	65.85	
21	65.35	65.75	66.02	66.21	69.62	68.18	67.03	66.74	66.46	66.40	66.11	65.84	
22	65.35	65.75	66.02	66.21	68.68	68.86	67.01	66.73	66.43	66.40	66.10	65.83	
23	65.35	66.02	66.01	66.20	69.59	68.41	66.99	66.72	66.38	66.40	66.09	65.82	
24	65.35	66.15	66.01	66.18	70.64	68.09	66.97	66.72	66.37	66.39	66.08	65.81	
25	65.35	66.07	66.00	66.16	70.21	67.95	66.95	66.70	66.35	66.37	66.07	65.80	
26	65.32	65.94	66.02	66.13	70.66	67.69	66.97	66.69	66.32	66.34	66.07	65.79	
27	65.30	65.95	66.01	66.12	70.80	67.47	67.11	66.67	66.35	66.29	66.06	65.78	
28	65.29	65.94	66.01	66.16	69.92	67.34	67.04	66.66	66.35	66.26	66.06	65.77	
29	65.28	66.12	66.01	66.20	69.98	67.28	66.97	66.65	66.32	66.23	66.05	65.76	
30	65.27	66.23	66.03	66.20	69.93	67.23	66.92	66.63	66.28	66.23	66.05	65.75	
31		66.00		66.21	70.14		66.90		66.26	66.22		65.74	
Mean	65.39	65.82	66.05	66.22	69.00	68.90	67.10	66.78	66.44	66.33	66.16	65.89	
Max	65.45	66.23	66.44	66.39	71.91	73.73	67.38	66.88	66.62	66.49	66.22	66.05	73.73
Min	65.27	65.42	65.95	66.01	66.21	67.23	66.90	66.63	66.26	66.21	66.05	65.74	65.27
Annual Max Momentary Gage Height	73.82		m. (MSL.) ,			at 09.00 Hours ,	on Sep 4 , 2019						
Zero Gage at Bottom Elevation	65.10		m. (MSL.) ,			River Bed	62.94	m. (MSL.)					
Left Bank Elevation		78.51		m. (MSL.) ,									
Right Bank Elevation		76.49		m. (MSL.) ,		Drainage Are	12,100	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.15	3.30	6.40	612.50	44.00	26.15	16.70	7.40	6.40	3.75	
2	0.00	0.00	4.95	3.15	6.20	802.85	44.00	26.60	16.35	7.40	6.20	3.60	
3	0.00	0.00	11.20	3.15	6.20	890.40	42.80	25.70	16.00	7.20	6.20	3.45	
4	0.00	0.00	10.00	6.80	181.70	909.10	41.00	25.25	15.70	7.00	6.40	3.30	
5	0.00	0.15	3.60	9.80	125.00	672.50	51.00	23.90	14.20	6.60	6.40	3.15	
6	0.00	0.00	3.60	9.40	59.80	407.40	56.60	24.35	14.80	6.20	6.20	3.15	
7	0.00	0.00	3.45	9.20	178.40	293.00	50.30	23.90	14.50	8.00	6.20	3.00	
8	0.00	0.00	3.45	9.20	376.05	217.85	45.40	23.45	14.20	12.70	6.20	2.85	
9	0.00	0.00	3.45	9.20	241.80	175.10	44.00	24.35	14.20	10.60	6.20	2.55	
10	0.00	0.00	3.45	8.60	112.05	157.20	42.20	23.45	13.60	11.20	6.20	2.40	
11	0.00	0.00	3.45	7.80	66.10	146.00	41.60	23.90	12.40	10.60	6.20	2.25	
12	0.00	0.00	3.30	7.60	77.80	119.00	38.60	25.70	11.20	9.80	6.00	1.95	
13	0.00	0.00	3.00	7.60	192.70	102.55	36.20	26.15	9.80	8.40	6.00	1.80	
14	0.00	0.00	3.00	7.40	189.40	94.00	36.20	25.70	9.80	7.60	6.00	1.50	
15	0.00	0.00	3.45	7.20	152.00	90.40	39.80	24.80	9.40	6.80	5.85	1.50	
16	0.00	0.00	2.55	7.00	133.00	78.70	39.80	23.45	10.30	8.40	5.70	1.35	
17	0.00	0.00	2.25	6.80	104.45	83.20	37.40	22.65	11.80	10.00	5.40	1.20	
18	0.00	0.00	3.45	6.60	227.40	80.50	36.20	22.65	11.50	9.40	5.25	1.05	
19	0.00	0.00	3.45	6.40	603.50	65.20	35.60	21.95	10.90	9.60	4.95	0.90	
20	0.00	0.00	3.30	6.40	618.50	69.70	34.40	21.60	10.30	10.00	4.80	0.75	
21	0.00	0.00	3.30	6.20	295.60	131.00	33.80	20.90	11.80	10.00	4.65	0.60	
22	0.00	0.00	3.30	6.20	182.80	202.90	32.60	20.55	10.90	10.00	4.50	0.45	
23	0.00	3.30	3.15	6.00	291.70	154.05	31.55	20.20	9.60	10.00	4.35	0.30	
24	0.00	5.25	3.15	5.70	432.60	122.00	30.65	20.20	9.40	9.80	4.20	0.15	
25	0.00	4.05	3.00	5.40	373.35	108.25	29.75	19.50	9.00	9.40	4.05	0.00	
26	0.00	2.10	3.30	4.95	435.40	84.10	30.65	19.15	8.40	8.80	4.05	0.00	
27	0.00	2.25	3.15	4.80	455.00	64.30	38.60	18.45	9.00	7.80	3.90	0.00	
28	0.00	2.10	3.15	5.40	334.60	53.80	34.40	18.10	9.00	7.20	3.90	0.00	
29	0.00	4.80	3.15	6.00	342.40	49.60	30.65	17.75	8.40	6.60	3.75	0.00	
30	0.00	6.60	3.45	6.00	335.90	46.10	28.40	17.05	7.60	6.60		0.00	
31		3.00		6.20	363.90		27.50		7.20	6.40		0.00	
<b>Total</b>	0.00	33.60	113.60	205.45	7501.70	7083.25	1185.65	677.50	357.95	267.50	156.10	46.95	17629.25 CMSDAY
<b>Mean</b>	0.00	1.08	3.79	6.63	241.99	236.11	38.25	22.58	11.55	8.63	5.38	1.51	48.17 CMS
<b>Max</b>	0.00	6.60	11.20	9.80	618.50	909.10	56.60	26.60	16.70	12.70	6.40	3.75	909.10 CMS
<b>Min</b>	0.00	0.00	2.25	3.15	6.20	46.10	27.50	17.05	7.20	6.20	3.75	0.00	0.00 CMS
<b>Runoff</b>	0.00	2.90	9.82	17.75	648.15	611.99	102.44	58.54	30.93	23.11	13.49	4.06	1523.17 MCM
<b>Momentary Peak</b>	924.40	CMS.	at 73.82 m. (MSL.)	at 09.00 Hours	on Sep 4, 2019								
<b>Runoff Yield</b>	3.98	Liters/Second/Square KM.			Momentary Peak Yield	76.20	Liters/Second/Square KM.						

## WATER YEAR : 2019

## YOM RIVER BASIN

Yom River at Ban Kong , Sukhothai (Y.15)

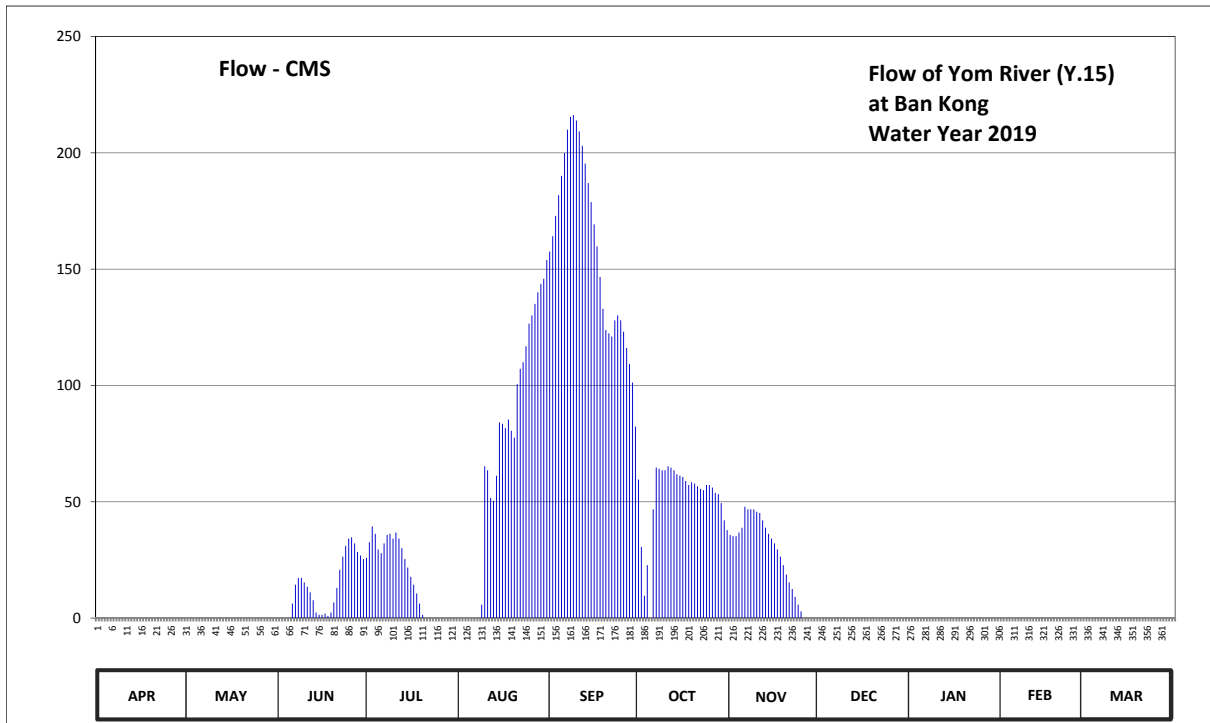
Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

	<b>Ban Kong</b>	<b>Amphoe Kong Krailat</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	19,936 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+35.320 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+45.320 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 2 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.77	36.11	37.78	40.33	39.17	42.45	40.96	40.52	39.36	36.42	35.90	35.78	
2	36.63	35.93	38.34	40.46	39.19	42.54	40.42	40.51	39.28	36.42	35.90	35.68	
3	36.48	35.83	39.00	40.59	39.21	42.66	40.00	40.51	39.18	36.42	35.90	35.62	
4	36.39	35.72	39.39	40.53	39.19	42.78	40.27	40.54	39.06	36.32	35.90	35.62	
5	36.29	35.70	39.69	40.40	39.17	42.89	39.77	40.58	38.94	36.32	35.90	35.62	
6	36.30	35.74	39.93	40.37	39.15	43.02	40.73	40.75	38.82	36.32	35.90	35.62	
7	36.14	35.63	40.10	40.45	39.12	43.15	41.05	40.73	38.73	36.28	35.90	35.62	
8	35.96	35.77	40.16	40.52	39.09	43.22	41.04	40.73	38.64	36.15	35.90	35.62	
9	35.86	35.73	40.16	40.53	39.92	43.23	41.03	40.73	38.54	36.15	35.90	35.62	
10	36.06	35.66	40.12	40.49	41.06	43.20	41.03	40.71	38.47	36.15	35.90	35.62	
11	36.25	35.64	40.08	40.54	41.03	43.14	41.06	40.70	38.41	36.11	35.87	35.60	
12	36.35	35.48	40.03	40.49	40.82	43.06	41.05	40.64	38.35	36.11	35.87	35.59	
13	36.38	35.39	39.96	40.41	40.80	42.96	41.03	40.58	38.26	35.97	35.87	35.59	
14	36.31	35.44	39.85	40.32	40.99	42.85	41.00	40.53	38.15	35.97	35.87	35.57	
15	36.35	35.94	39.83	40.25	41.38	42.74	40.99	40.49	38.03	35.95	35.87	35.56	
16	36.34	36.14	39.83	40.17	41.37	42.61	40.98	40.45	37.92	35.95	35.87	35.55	
17	36.42	36.31	39.84	40.10	41.34	42.48	40.95	40.40	37.84	35.95	35.87	35.52	
18	36.52	36.47	39.82	40.02	41.40	42.30	40.92	40.34	37.76	35.95	35.87	35.50	
19	36.54	36.58	39.85	39.93	41.32	42.11	40.94	40.27	37.65	35.95	35.87	35.47	
20	36.56	36.60	39.94	39.83	41.27	41.98	40.93	40.19	37.52	35.95	35.87	35.44	
21	36.45	36.49	40.07	39.72	41.64	41.96	40.91	40.12	37.40	35.92	35.83	35.42	
22	36.36	36.47	40.23	39.62	41.74	41.94	40.89	40.06	37.30	35.92	35.83	35.40	
23	36.45	36.49	40.34	39.53	41.78	42.04	40.88	39.99	37.20	35.92	35.83	35.37	
24	36.56	36.71	40.43	39.44	41.88	42.07	40.92	39.92	37.10	35.92	35.83	35.30	
25	36.57	37.19	40.49	39.36	42.02	42.04	40.92	39.86	37.02	35.92	35.83	35.17	
26	36.54	37.26	40.50	39.31	42.07	41.97	40.90	39.80	36.92	35.92	35.83	35.16	
27	36.48	37.18	40.45	39.26	42.14	41.87	40.86	39.73	36.82	35.92	35.83	35.15	
28	36.34	37.25	40.38	39.20	42.21	41.77	40.85	39.64	36.73	35.92	35.83	35.14	
29	36.24	37.35	40.35	39.13	42.26	41.65	40.78	39.55	36.65	35.92	35.83	35.13	
30	36.20	37.49	40.32	39.14	42.29	41.35	40.64	39.45	36.57	35.92	35.83	35.12	
31		37.61		39.18	42.40		40.56		36.51	35.92		35.12	
Mean	36.37	36.30	39.91	39.99	40.92	42.47	40.81	40.30	37.91	36.06	35.87	35.46	
Max	36.77	37.61	40.50	40.59	42.40	43.23	41.06	40.75	39.36	36.42	35.90	35.78	43.23
Min	35.86	35.39	37.78	39.13	39.09	41.35	39.77	39.45	36.51	35.92	35.83	35.12	35.12
Annual Max Momentary Gage Height	43.23		m. (MSL.) ,			at 15.00 Hours ,	on Sep 8 , 2019						
Zero Gage at Bottom Elevation	35.32		m. (MSL.) ,			River Bed	33.32	m. (MSL.)					
Left Bank Elevation		45.92		m. (MSL.) ,									
Right Bank Elevation		45.73		m. (MSL.) ,		Drainage Are	19,936	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	25.86	0.00	157.55	59.52	35.74	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	32.62	0.00	164.12	30.54	35.22	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	39.38	0.00	172.88	9.60	35.22	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	36.26	0.00	181.72	22.77	36.78	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	29.50	0.00	190.04	0.00	38.86	0.00	0.00	0.00	0.00	
6	0.00	0.00	6.24	27.94	0.00	199.92	46.79	47.85	0.00	0.00	0.00	0.00	
7	0.00	0.00	14.40	32.10	0.00	209.94	64.70	46.79	0.00	0.00	0.00	0.00	
8	0.00	0.00	17.28	35.74	0.00	215.45	64.12	46.79	0.00	0.00	0.00	0.00	
9	0.00	0.00	17.28	36.26	5.76	216.23	63.54	46.79	0.00	0.00	0.00	0.00	
10	0.00	0.00	15.36	34.18	65.28	213.87	63.54	45.73	0.00	0.00	0.00	0.00	
11	0.00	0.00	13.44	36.78	63.54	209.15	65.28	45.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	11.04	34.18	51.62	202.96	64.70	42.02	0.00	0.00	0.00	0.00	
13	0.00	0.00	7.68	30.02	50.50	195.36	63.54	38.86	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.40	25.34	61.23	187.00	61.80	36.26	0.00	0.00	0.00	0.00	
15	0.00	0.00	1.44	21.75	84.10	178.76	61.23	34.18	0.00	0.00	0.00	0.00	
16	0.00	0.00	1.44	17.76	83.50	169.23	60.66	32.10	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.92	14.40	81.70	159.74	58.95	29.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.96	10.56	85.30	146.60	57.24	26.38	0.00	0.00	0.00	0.00	
19	0.00	0.00	2.40	6.24	80.50	132.91	58.38	22.77	0.00	0.00	0.00	0.00	
20	0.00	0.00	6.72	1.44	77.53	123.80	57.81	18.72	0.00	0.00	0.00	0.00	
21	0.00	0.00	12.96	0.00	100.56	122.40	56.67	15.36	0.00	0.00	0.00	0.00	
22	0.00	0.00	20.73	0.00	107.16	121.00	55.54	12.48	0.00	0.00	0.00	0.00	
23	0.00	0.00	26.38	0.00	109.92	128.00	54.98	9.12	0.00	0.00	0.00	0.00	
24	0.00	0.00	31.06	0.00	116.82	130.10	57.24	5.76	0.00	0.00	0.00	0.00	
25	0.00	0.00	34.18	0.00	126.60	128.00	57.24	2.88	0.00	0.00	0.00	0.00	
26	0.00	0.00	34.70	0.00	130.10	123.10	56.10	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	32.10	0.00	135.04	116.13	53.86	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	28.46	0.00	140.03	109.23	53.30	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	26.90	0.00	143.68	101.20	49.44	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	25.34	0.00	145.87	82.30	42.02	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	153.90		37.82		0.00	0.00			
Total	0.00	0.00	392.81	528.31	2200.24	4788.69	1608.92	787.36	0.00	0.00	0.00	0.00	10306.33 CMSDAY
Mean	0.00	0.00	13.09	17.04	70.98	159.62	51.90	26.25	0.00	0.00	0.00	0.00	28.16 CMS
Max	0.00	0.00	34.70	39.38	153.90	216.23	65.28	47.85	0.00	0.00	0.00	0.00	216.23 CMS
Min	0.00	0.00	0.00	0.00	0.00	82.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	33.94	45.65	190.10	413.74	139.01	68.03	0.00	0.00	0.00	0.00	890.47 MCM
Momentary Peak	216.23	CMS.	at 43.23 m. (MSL.)	at 15.00 Hours	on Sep 8, 2019								
Runoff Yield	1.42	Liters/Second/Square KM.		Momentary Peak Yield	10.85	Liters/Second/Square KM.							

## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Ban Bang Rakam , Phitsanulok (Y.16)

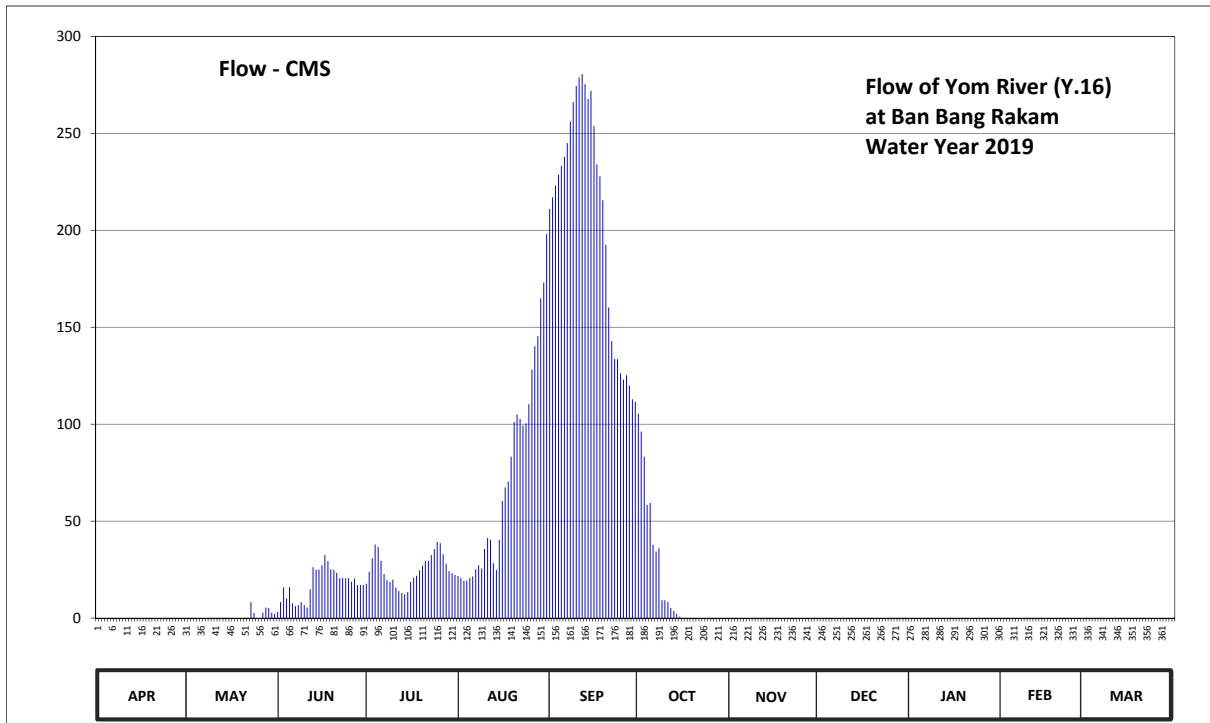
Lat 16 - 45 - 26 N Long 100 - 07 - 15 E

Location : on right bank about 58 meters upstream from the old staff gage.

	<b>Ban</b>	<b>Bang Rakam</b>	<b>Amphoe</b>	<b>Bang Rakam</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	20,201	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+31.630	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 13 meters from the top staff gage.				<b>Elevation</b>	+43.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1967 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1967 , 1995 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1967 , 1995 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +38.310 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.10	32.99	33.53	33.42	33.64	38.63	36.74	32.92	32.35	31.71	31.62	31.43	
2	32.10	32.91	33.73	33.76	33.58	38.71	36.50	32.87	32.35	31.71	31.62	31.45	
3	32.10	32.83	33.90	34.10	33.50	38.79	36.14	32.84	32.34	31.71	31.60	31.46	
4	32.12	32.75	33.78	34.44	33.51	38.86	35.32	32.81	32.33	31.71	31.58	31.47	
5	32.23	32.73	33.90	34.38	33.58	38.92	35.36	32.77	32.32	31.70	31.58	31.48	
6	32.63	32.71	33.71	34.04	33.63	38.98	34.43	32.71	32.32	31.70	31.58	31.49	
7	32.63	32.63	33.66	33.70	33.83	39.07	34.27	32.69	32.31	31.70	31.58	31.50	
8	32.58	32.63	33.68	33.53	33.93	39.21	34.35	32.68	32.30	31.70	31.58	31.52	
9	32.58	32.63	33.73	33.47	33.85	39.33	32.93	32.66	32.28	31.69	31.58	31.53	
10	32.61	32.63	33.68	33.54	34.33	39.43	32.93	32.62	32.25	31.69	31.58	31.55	
11	32.44	32.63	33.63	33.31	34.59	39.48	32.88	32.61	32.23	31.68	31.57	31.57	
12	32.41	32.63	33.88	33.21	34.55	39.50	32.68	32.60	32.18	31.68	31.57	31.58	
13	32.41	32.63	33.88	33.15	33.98	39.44	32.58	32.59	32.14	31.68	31.56	31.59	
14	32.39	32.63	33.82	33.11	33.81	39.35	32.48	32.58	32.11	31.67	31.56	31.60	
15	32.38	32.63	33.82	33.18	34.55	39.40	32.38	32.55	32.09	31.67	31.54	31.61	
16	32.38	32.63	33.93	33.47	35.40	39.18	32.23	32.54	32.08	31.67	31.53	31.62	
17	32.33	32.63	34.18	33.59	35.64	38.93	32.28	32.52	32.06	31.66	31.53	31.63	
18	32.32	32.63	34.03	33.65	35.74	38.85	32.36	32.52	32.01	31.66	31.53	31.64	
19	32.31	32.63	33.83	33.80	36.14	38.69	32.46	32.51	31.99	31.66	31.53	31.65	
20	32.31	32.63	33.81	33.92	36.63	38.36	32.59	32.50	31.96	31.66	31.52	31.66	
21	32.68	32.63	33.73	34.03	36.73	37.86	32.67	32.48	31.90	31.65	31.38	31.67	
22	32.75	32.63	33.58	34.04	36.67	37.55	32.79	32.48	31.83	31.65	31.13	31.68	
23	32.78	33.73	33.58	34.18	36.58	37.37	32.88	32.45	31.78	31.65	30.93	31.68	
24	32.81	33.50	33.58	34.33	36.61	37.37	32.91	32.43	31.74	31.65	30.60	31.69	
25	33.20	33.28	33.58	34.50	36.86	37.22	32.92	32.39	31.73	31.64	30.55	31.69	
26	33.26	33.23	33.48	34.47	37.26	37.15	32.92	32.38	31.73	31.64	30.55	31.70	
27	33.10	33.51	33.57	34.20	37.50	37.20	32.93	32.38	31.73	31.64	30.64	31.71	
28	33.00	33.63	33.38	33.97	37.60	37.08	32.93	32.37	31.72	31.64	31.01	31.71	
29	32.97	33.62	33.38	33.78	37.94	36.92	32.94	32.37	31.72	31.63	31.31	31.72	
30	32.96	33.51	33.38	33.72	38.07	36.89	32.94	32.36	31.72	31.63		31.73	
31		33.47		33.67	38.44		32.94		31.72	31.63		31.73	
Mean	32.56	32.92	33.71	33.80	35.44	38.46	33.41	32.57	32.04	31.67	31.36	31.60	
Max	33.26	33.73	34.18	34.50	38.44	39.50	36.74	32.92	32.35	31.71	31.62	31.73	39.50
Min	32.10	32.63	33.38	33.11	33.50	36.89	32.23	32.36	31.72	31.63	30.55	31.43	30.55
Annual Max Momentary Gage Height	39.50		m. (MSL.) ,				at 23.00 Hours ,						
Zero Gage at Bottom Elevation	31.63		m. (MSL.) ,			River Bed	30.84		m. (MSL.)				
Left Bank Elevation		38.30		m. (MSL.) ,									
Right Bank Elevation		42.77		m. (MSL.) ,		Drainage Are	20,201		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	3.23	17.76	21.72	211.12	105.46	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	8.25	23.88	20.64	217.06	96.20	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	15.90	30.80	19.20	223.14	83.22	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	10.00	37.98	19.38	228.58	58.40	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	15.90	36.68	20.64	233.26	59.40	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	7.55	29.54	21.54	237.94	37.76	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	6.20	22.80	25.20	245.03	34.37	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	6.70	19.74	27.23	256.13	36.05	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	8.25	18.66	25.60	266.09	9.21	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	6.70	19.92	35.63	274.51	9.21	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	5.45	15.78	41.28	278.86	8.36	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	14.86	13.98	40.40	280.60	5.20	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	26.20	12.95	28.28	275.38	3.70	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	25.00	12.27	24.80	267.75	2.20	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	25.00	13.46	40.40	271.90	0.80	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	27.23	18.66	60.40	253.72	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	32.48	20.82	67.40	234.04	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	29.33	21.90	70.40	227.80	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	25.20	24.60	83.22	215.56	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	24.80	27.02	101.17	192.48	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	23.34	29.33	105.07	160.18	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	20.64	29.54	102.73	142.80	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	8.25	20.64	32.48	99.24	133.63	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	2.60	20.64	35.63	100.39	133.63	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	20.64	39.30	110.32	126.28	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	18.84	38.64	128.24	123.05	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	2.81	20.46	32.90	140.20	125.30	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	5.45	17.04	28.07	145.40	119.92	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	5.20	17.04	24.24	164.86	112.88	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	2.81	17.04	23.16	173.02	111.58	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	2.18		22.26	197.92		0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	29.30	520.55	774.75	2261.92	6180.20	549.54	0.00	0.00	0.00	0.00	0.00	10316.26 CMSDAY
Mean	0.00	0.95	17.35	24.99	72.97	206.01	17.73	0.00	0.00	0.00	0.00	0.00	28.19 CMS
Max	0.00	8.25	32.48	39.30	197.92	280.60	105.46	0.00	0.00	0.00	0.00	0.00	280.60 CMS
Min	0.00	0.00	3.23	12.27	19.20	111.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	2.53	44.98	66.94	195.43	533.97	47.48	0.00	0.00	0.00	0.00	0.00	891.32 MCM
Momentary Peak	280.60	CMS.	at 39.50 m. (MSL.)	at 23.00 Hours	on Sep 11	2019							
Runoff Yield	1.36	Liters/Second/Square KM.		Momentary Peak Yield	13.46	Liters/Second/Square KM.							

## WATER YEAR : 2019

## YOM RIVER BASIN

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

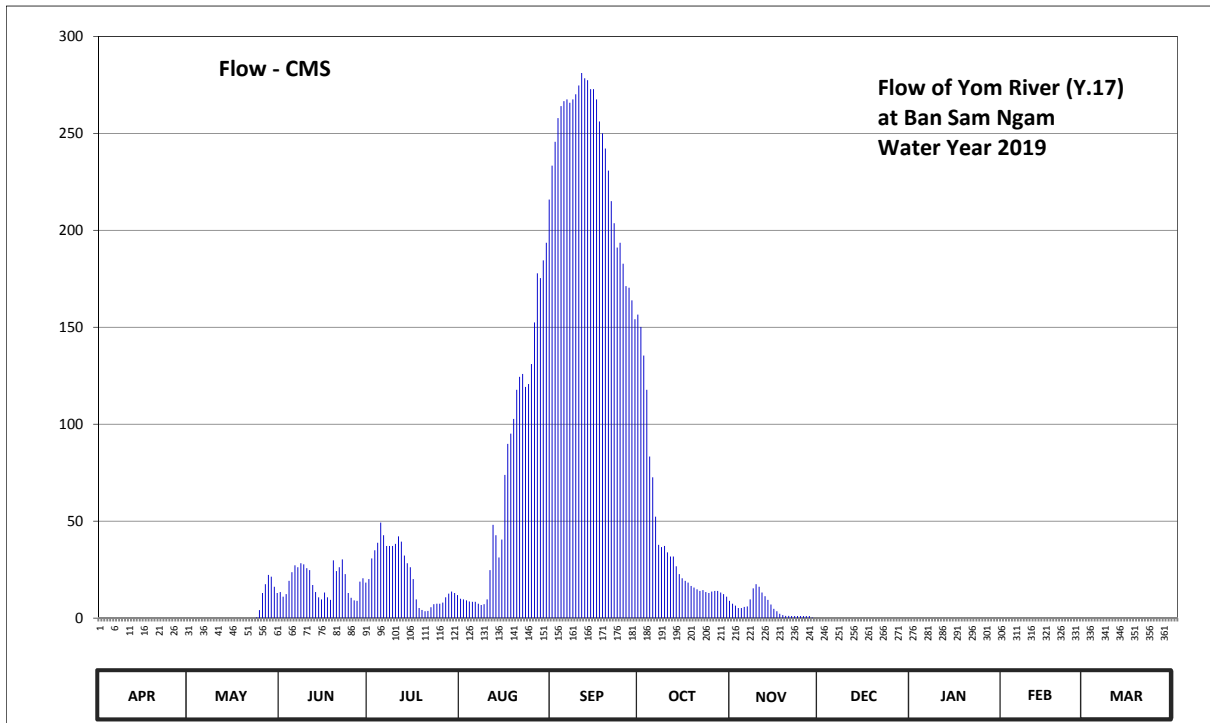
Lat 16 - 30 - 24 N Long 100 - 12 - 27 E

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
<b>Drainage Area</b>	22,034 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+31.490 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 50 meters from Amphoe Sam Ngam Office.	<b>Elevation</b>	+41.843 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 , 1990 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 , 1990 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.53	31.32	32.53	32.74	32.45	35.76	34.77	32.34	31.51	30.49	30.49	30.48	
2	31.49	31.31	32.49	32.96	32.44	35.90	34.58	32.29	31.51	30.49	30.49	30.45	
3	31.46	31.29	32.54	33.04	32.42	36.04	34.34	32.23	31.51	30.49	30.49	30.41	
4	31.48	31.27	32.72	33.11	32.40	36.11	33.84	32.23	31.51	30.49	30.49	30.36	
5	31.47	31.26	32.82	33.29	32.39	36.14	33.67	32.26	31.51	30.49	30.49	30.33	
6	31.50	31.25	32.89	33.18	32.39	36.15	33.34	32.27	31.51	30.49	30.49	30.31	
7	31.50	31.24	32.87	33.08	32.34	36.13	33.09	32.44	31.49	30.49	30.49	30.29	
8	31.50	31.23	32.91	33.08	32.31	36.15	33.07	32.63	31.47	30.49	30.49	30.29	
9	31.52	31.22	32.90	33.08	32.33	36.18	33.08	32.68	31.47	30.49	30.49	30.29	
10	31.49	31.21	32.88	33.10	32.44	36.22	33.02	32.65	31.47	30.49	30.49	30.29	
11	31.45	31.20	32.84	33.17	32.84	36.28	32.98	32.57	31.34	30.49	30.49	30.29	
12	31.42	31.20	32.68	33.12	33.27	36.27	32.98	32.50	31.34	30.49	30.49	30.29	
13	31.38	31.19	32.58	32.99	33.18	36.26	32.88	32.43	31.22	30.49	30.49	30.29	
14	31.38	31.21	32.48	32.91	32.97	36.21	32.80	32.32	31.20	30.49	30.49	30.29	
15	31.38	31.25	32.44	32.87	33.14	36.21	32.75	32.21	31.08	30.49	30.49	30.29	
16	31.39	31.25	32.51	32.74	33.68	36.15	32.72	32.12	30.92	30.49	30.49	30.29	
17	31.39	31.24	32.75	32.44	33.94	36.02	32.70	32.02	30.74	30.49	30.49	30.29	
18	31.39	31.23	32.94	32.23	34.02	35.95	32.66	31.94	30.57	30.49	30.49	30.29	
19	31.38	31.22	32.94	32.17	34.13	35.86	32.64	31.89	30.49	30.49	30.49	30.29	
20	31.37	31.21	32.83	32.12	34.34	35.73	32.62	31.89	30.49	30.49	30.49	30.29	
21	31.36	31.20	32.87	32.13	34.43	35.55	32.60	31.88	30.49	30.49	30.49	30.29	
22	31.37	31.24	32.95	32.25	34.45	35.42	32.61	31.88	30.49	30.49	30.49	30.29	
23	31.39	31.35	32.80	32.33	34.36	35.27	32.58	31.88	30.49	30.49	30.49	30.29	
24	31.38	31.76	32.56	32.34	34.38	35.30	32.56	31.88	30.49	30.49	30.49	30.29	
25	31.37	32.17	32.47	32.34	34.52	35.17	32.59	31.88	30.49	30.49	30.49	30.29	
26	31.37	32.56	32.43	32.37	34.79	35.03	32.60	31.88	30.49	30.49	30.49	30.29	
27	31.36	32.71	32.43	32.48	35.11	35.02	32.60	31.88	30.49	30.49	30.49	30.29	
28	31.35	32.79	32.71	32.55	35.08	34.94	32.57	31.76	30.49	30.49	30.49	30.29	
29	31.34	32.77	32.75	32.59	35.19	34.82	32.54	31.65	30.49	30.49	30.49	30.29	
30	31.33	32.65	32.70	32.56	35.30	34.85	32.49	31.53	30.49	30.49	30.49	30.29	
31		32.56		32.52	35.56		32.41		30.49	30.49		30.29	
Mean	31.42	31.57	32.71	32.71	33.63	35.77	32.99	32.13	30.96	30.49	30.49	30.31	
Max	31.53	32.79	32.95	33.29	35.56	36.28	34.77	32.68	31.51	30.49	30.49	30.48	36.28
Min	31.33	31.19	32.43	32.12	32.31	34.82	32.41	31.53	30.49	30.49	30.49	30.29	30.29
Annual Max Momentary Gage Height	36.33		m. (MSL.) ,				at 10.00 Hours , on Sep 11 , 2019						
Zero Gage at Bottom Elevation	31.49		m. (MSL.) ,			River Bed	30.03	m. (MSL.)					
Left Bank Elevation		37.95		m. (MSL.) ,									
Right Bank Elevation		38.34		m. (MSL.) ,		Drainage Are	22,034	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	13.46	20.09	9.95	233.40	150.16	7.40	0.00	0.00	0.00	0.00	
2	0.00	0.00	11.03	30.78	9.68	245.65	135.43	6.40	0.00	0.00	0.00	0.00	
3	0.00	0.00	12.38	35.00	9.14	257.90	117.79	5.20	0.00	0.00	0.00	0.00	
4	0.00	0.00	19.22	38.85	8.60	264.03	83.32	5.20	0.00	0.00	0.00	0.00	
5	0.00	0.00	23.71	49.29	8.40	266.65	72.58	5.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	27.25	42.70	8.40	267.53	52.34	6.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	26.24	37.20	7.40	265.78	37.75	9.68	0.00	0.00	0.00	0.00	
8	0.00	0.00	28.26	37.20	6.80	267.53	36.65	15.31	0.00	0.00	0.00	0.00	
9	0.00	0.00	27.75	37.20	7.20	270.15	37.20	17.48	0.00	0.00	0.00	0.00	
10	0.00	0.00	25.73	38.30	9.68	274.68	33.90	16.18	0.00	0.00	0.00	0.00	
11	0.00	0.00	24.72	42.15	24.72	281.15	31.79	13.19	0.00	0.00	0.00	0.00	
12	0.00	0.00	17.05	39.40	48.07	278.38	31.79	11.30	0.00	0.00	0.00	0.00	
13	0.00	0.00	13.46	32.30	42.70	277.45	26.74	9.41	0.00	0.00	0.00	0.00	
14	0.00	0.00	10.76	28.26	31.29	272.83	22.70	7.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	9.68	26.24	40.50	272.83	20.53	4.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	13.19	20.09	73.83	267.53	19.22	3.56	0.00	0.00	0.00	0.00	
17	0.00	0.00	10.76	9.68	89.87	256.15	18.35	2.26	0.00	0.00	0.00	0.00	
18	0.00	0.00	9.41	5.20	95.17	250.03	16.61	1.55	0.00	0.00	0.00	0.00	
19	0.00	0.00	29.77	4.21	102.71	242.15	15.74	1.18	0.00	0.00	0.00	0.00	
20	0.00	0.00	24.22	3.56	117.79	230.78	14.87	1.18	0.00	0.00	0.00	0.00	
21	0.00	0.00	26.24	3.69	124.41	215.03	14.00	1.10	0.00	0.00	0.00	0.00	
22	0.00	0.00	30.28	5.60	125.88	203.65	14.44	1.10	0.00	0.00	0.00	0.00	
23	0.00	0.00	22.70	7.20	119.26	191.11	13.46	1.10	0.00	0.00	0.00	0.00	
24	0.00	0.30	12.92	7.40	120.73	193.60	12.92	1.10	0.00	0.00	0.00	0.00	
25	0.00	4.08	10.49	7.40	131.02	182.81	13.73	1.10	0.00	0.00	0.00	0.00	
26	0.00	12.92	9.14	8.00	152.50	171.19	14.00	1.10	0.00	0.00	0.00	0.00	
27	0.00	17.48	8.87	10.76	177.83	170.36	14.00	1.10	0.00	0.00	0.00	0.00	
28	0.00	22.27	18.79	12.65	175.34	163.84	13.19	0.30	0.00	0.00	0.00	0.00	
29	0.00	21.40	20.53	13.73	184.47	154.12	12.38	0.00	0.00	0.00	0.00	0.00	
30	0.00	16.18	18.35	12.92	193.60	156.55	11.03	0.00	0.00	0.00	0.00	0.00	
31	0.00	12.92		11.84	215.90		8.87		0.00	0.00		0.00	
<b>Total</b>	0.00	107.55	556.36	678.89	2472.84	7044.84	1117.48	158.08	0.00	0.00	0.00	0.00	12136.04 CMSDAY
<b>Mean</b>	0.00	3.47	18.55	21.90	79.77	234.83	36.05	5.27	0.00	0.00	0.00	0.00	33.16 CMS
<b>Max</b>	0.00	22.27	30.28	49.29	215.90	281.15	150.16	17.48	0.00	0.00	0.00	0.00	281.15 CMS
<b>Min</b>	0.00	0.00	8.87	3.56	6.80	154.12	8.87	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	9.29	48.07	58.66	213.65	608.67	96.55	13.66	0.00	0.00	0.00	0.00	1048.55 MCM
<b>Momentary Peak</b>	283.93	CMS.	at 36.33 m. (MSL.)	at 10.00 Hours	on Sep 11, 2019								
<b>Runoff Yield</b>	1.51	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	12.89	Liters/Second/Square KM.						



## WATER YEAR : 2019

## YOM RIVER BASIN

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

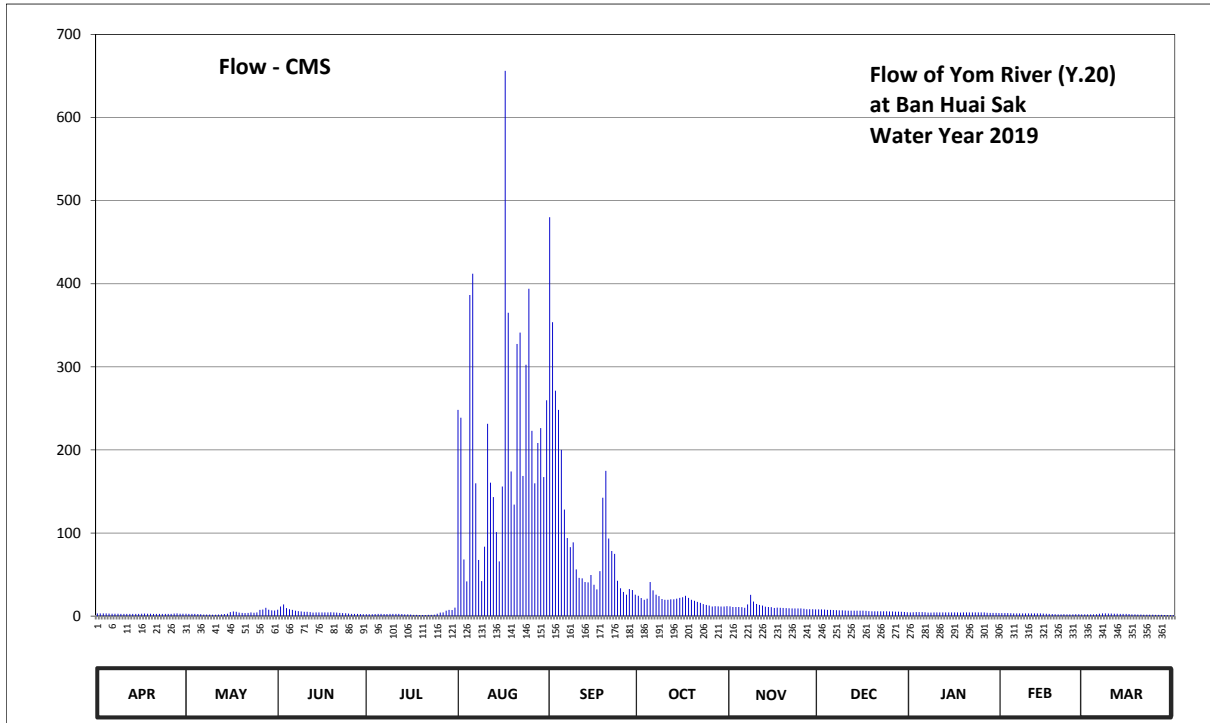
Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	Ban Huai Sak	Amphoe Song	Changwat Phrae
<b>Drainage Area</b>	5,394 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+181.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.		<b>Elevation</b> +193.552 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1971 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1972 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1972 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Mae yom weir situated about 15 kilometers above site. Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.57	181.55	181.87	181.51	185.65	187.42	182.47	182.09	181.89	181.66	181.60	181.50	
2	181.57	181.54	182.08	181.51	185.56	186.55	182.39	182.05	181.89	181.67	181.60	181.50	
3	181.57	181.54	182.17	181.51	183.42	185.87	182.33	182.05	181.88	181.68	181.60	181.50	
4	181.57	181.53	181.99	181.52	182.92	185.65	182.37	182.05	181.86	181.68	181.59	181.50	
5	181.56	181.52	181.91	181.53	186.81	185.19	182.90	182.04	181.86	181.68	181.58	181.51	
6	181.55	181.51	181.85	181.54	186.98	184.31	182.65	182.01	181.84	181.67	181.58	181.55	
7	181.55	181.48	181.80	181.52	184.73	183.83	182.51	182.17	181.83	181.64	181.57	181.58	
8	181.55	181.47	181.76	181.52	183.41	183.66	182.46	182.50	181.82	181.64	181.57	181.57	
9	181.54	181.47	181.73	181.54	182.93	183.75	182.36	182.27	181.82	181.65	181.57	181.56	
10	181.54	181.46	181.71	181.54	183.67	183.22	182.33	182.19	181.81	181.65	181.57	181.56	
11	181.54	181.46	181.70	181.53	185.49	183.02	182.33	182.15	181.80	181.65	181.58	181.55	
12	181.54	181.48	181.68	181.53	184.74	183.01	182.35	182.12	181.80	181.65	181.58	181.55	
13	181.54	181.50	181.64	181.52	184.51	182.90	182.35	182.07	181.80	181.65	181.57	181.54	
14	181.54	181.52	181.66	181.50	183.94	182.89	182.37	182.05	181.77	181.65	181.57	181.54	
15	181.54	181.55	181.66	181.49	183.38	183.09	182.40	182.04	181.80	181.65	181.56	181.53	
16	181.55	181.68	181.65	181.48	184.68	182.82	182.42	182.00	181.79	181.66	181.55	181.52	
17	181.56	181.73	181.65	181.45	188.49	182.68	182.47	182.02	181.78	181.65	181.54	181.50	
18	181.55	181.70	181.65	181.45	186.64	183.18	182.40	182.01	181.76	181.64	181.52	181.49	
19	181.55	181.64	181.67	181.43	184.92	184.50	182.33	182.00	181.75	181.65	181.51	181.48	
20	181.54	181.62	181.65	181.43	184.39	184.93	182.30	181.99	181.75	181.65	181.50	181.47	
21	181.54	181.60	181.64	181.43	186.34	183.82	182.26	181.98	181.75	181.65	181.50	181.46	
22	181.54	181.62	181.61	181.44	186.45	183.59	182.23	181.97	181.75	181.65	181.51	181.46	
23	181.54	181.65	181.60	181.44	184.85	183.53	182.18	181.97	181.75	181.65	181.50	181.46	
24	181.53	181.63	181.59	181.46	186.14	182.94	182.15	181.96	181.74	181.66	181.50	181.46	
25	181.53	181.65	181.56	181.55	186.86	182.71	182.12	181.96	181.73	181.66	181.50	181.45	
26	181.53	181.86	181.53	181.64	185.41	182.60	182.08	181.94	181.73	181.65	181.51	181.45	
27	181.56	181.88	181.53	181.66	184.73	182.51	182.10	181.90	181.72	181.63	181.51	181.44	
28	181.57	182.01	181.53	181.79	185.27	182.69	182.09	181.90	181.72	181.62	181.50	181.42	
29	181.55	181.87	181.52	181.85	185.44	182.66	182.08	181.90	181.70	181.61	181.50	181.41	
30	181.55	181.82	181.51	181.84	184.83	182.51	182.08	181.89	181.69	181.61	181.50	181.41	
31		181.81		182.02	185.76		182.10		181.67	181.60		181.41	
Mean	181.55	181.62	181.70	181.55	185.14	183.73	182.32	182.04	181.78	181.65	181.55	181.49	
Max	181.57	182.01	182.17	182.02	188.49	187.42	182.90	182.50	181.89	181.68	181.60	181.58	188.49
Min	181.53	181.46	181.51	181.43	182.92	182.51	182.08	181.89	181.67	181.60	181.50	181.41	181.41
Annual Max Momentary Gage Height	188.97												
Zero Gage at Bottom Elevation	181.00												
Left Bank Elevation		193.51											
Right Bank Elevation		193.64											
Annual Max Momentary Gage Height	m. (MSL.) , at 17.00 Hours , on Aug 17, 2019												
Zero Gage at Bottom Elevation	m. (MSL.) , River Bed 179.10 m. (MSL.)												
Left Bank Elevation	m. (MSL.) ,												
Right Bank Elevation	m. (MSL.) , Drainage Area 5,394 Square Kilometers												



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.18	2.90	7.72	2.34	248.25	480.10	24.45	11.78	8.04	4.50	3.60	2.20	
2	3.18	2.76	11.56	2.34	238.80	353.75	21.65	10.90	8.04	4.65	3.60	2.20	
3	3.18	2.76	14.10	2.34	68.20	271.35	19.55	10.90	7.88	4.80	3.60	2.20	
4	3.18	2.62	9.64	2.48	41.80	248.25	20.95	10.90	7.56	4.80	3.46	2.20	
5	3.04	2.48	8.36	2.62	386.50	199.95	41.00	10.68	7.56	4.80	3.32	2.34	
6	2.90	2.34	7.40	2.76	412.00	128.25	31.00	10.02	7.24	4.65	3.32	2.90	
7	2.90	1.96	6.60	2.48	159.75	93.95	25.85	14.10	7.08	4.20	3.18	3.32	
8	2.90	1.84	6.00	2.48	67.60	82.90	24.10	25.50	6.92	4.20	3.18	3.18	
9	2.76	1.84	5.55	2.76	42.20	88.75	20.60	17.45	6.92	4.35	3.18	3.04	
10	2.76	1.72	5.25	2.76	83.55	56.20	19.55	14.70	6.76	4.35	3.18	3.04	
11	2.76	1.72	5.10	2.62	231.45	46.00	19.55	13.50	6.60	4.35	3.32	2.90	
12	2.76	1.96	4.80	2.62	160.50	45.50	20.25	12.60	6.60	4.35	3.32	2.90	
13	2.76	2.20	4.20	2.48	143.25	41.00	20.25	11.34	6.60	4.35	3.18	2.76	
14	2.76	2.48	4.50	2.20	101.10	40.60	20.95	10.90	6.60	4.35	3.18	2.76	
15	2.76	2.90	4.50	2.08	65.80	49.50	22.00	10.68	6.60	4.35	3.04	2.62	
16	2.90	4.80	4.35	1.96	156.00	37.80	22.70	9.80	6.45	4.50	2.90	2.48	
17	3.04	5.55	4.35	1.60	656.20	32.20	24.45	10.24	6.30	4.35	2.76	2.20	
18	2.90	5.10	4.35	1.60	365.00	54.00	22.00	10.02	6.00	4.20	2.48	2.08	
19	2.90	4.20	4.65	1.36	174.00	142.50	19.55	9.80	5.85	4.35	2.34	1.96	
20	2.76	3.90	4.35	1.36	134.25	174.75	18.50	9.64	5.85	4.35	2.20	1.84	
21	2.76	3.60	4.20	1.36	327.50	93.30	17.10	9.48	5.85	4.35	2.20	1.72	
22	2.76	3.90	3.75	1.48	341.25	78.40	16.05	9.32	5.85	4.35	2.34	1.72	
23	2.76	4.35	3.60	1.48	168.75	74.80	14.40	9.32	5.85	4.35	2.20	1.72	
24	2.62	4.05	3.46	1.72	302.50	42.60	13.50	9.16	5.70	4.50	2.20	1.72	
25	2.62	4.35	3.04	2.90	394.00	33.40	12.60	9.16	5.55	4.50	2.20	1.60	
26	2.62	7.56	2.62	4.20	223.05	29.00	11.56	8.84	5.55	4.35	2.34	1.60	
27	3.04	7.88	2.62	4.50	159.75	25.85	12.00	8.20	5.40	4.05	2.34	1.48	
28	3.18	10.02	2.62	6.45	208.35	32.60	11.78	8.20	5.40	3.90	2.20	1.24	
29	2.90	7.72	2.48	7.40	226.20	31.40	11.56	8.20	5.10	3.75	2.20	1.12	
30	2.90	6.92	2.34	7.24	167.25	25.85	11.56	8.04	4.95	3.75		1.12	
31		6.76		10.24	259.80		12.00		4.65	3.60		1.12	
<b>Total</b>	86.44	125.14	158.06	94.21	6714.60	3134.50	603.01	333.37	197.30	134.25	82.56	67.28	11730.72 CMSDAY
<b>Mean</b>	2.88	4.04	5.27	3.04	216.60	104.48	19.45	11.11	6.36	4.33	2.85	2.17	32.05 CMS
<b>Max</b>	3.18	10.02	14.10	10.24	656.20	480.10	41.00	25.50	8.04	4.80	3.60	3.32	656.20 CMS
<b>Min</b>	2.62	1.72	2.34	1.36	41.80	25.85	11.56	8.04	4.65	3.60	2.20	1.12	1.12 CMS
<b>Runoff</b>	7.47	10.81	13.66	8.14	580.14	270.82	52.10	28.80	17.05	11.60	7.13	5.81	1013.53 MCM
<b>Momentary Peak</b>	744.45 CMS. at 188.97 m. (MSL.) at 17.00 Hours , on Aug 17, 2019												
<b>Runoff Yield</b>	5.94 Liters/Second/Square KM.			Momentary Peak Yield 137.61 Liters/Second/Square KM.									

## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Pi at Ban Mang , Phayao (Y.24)

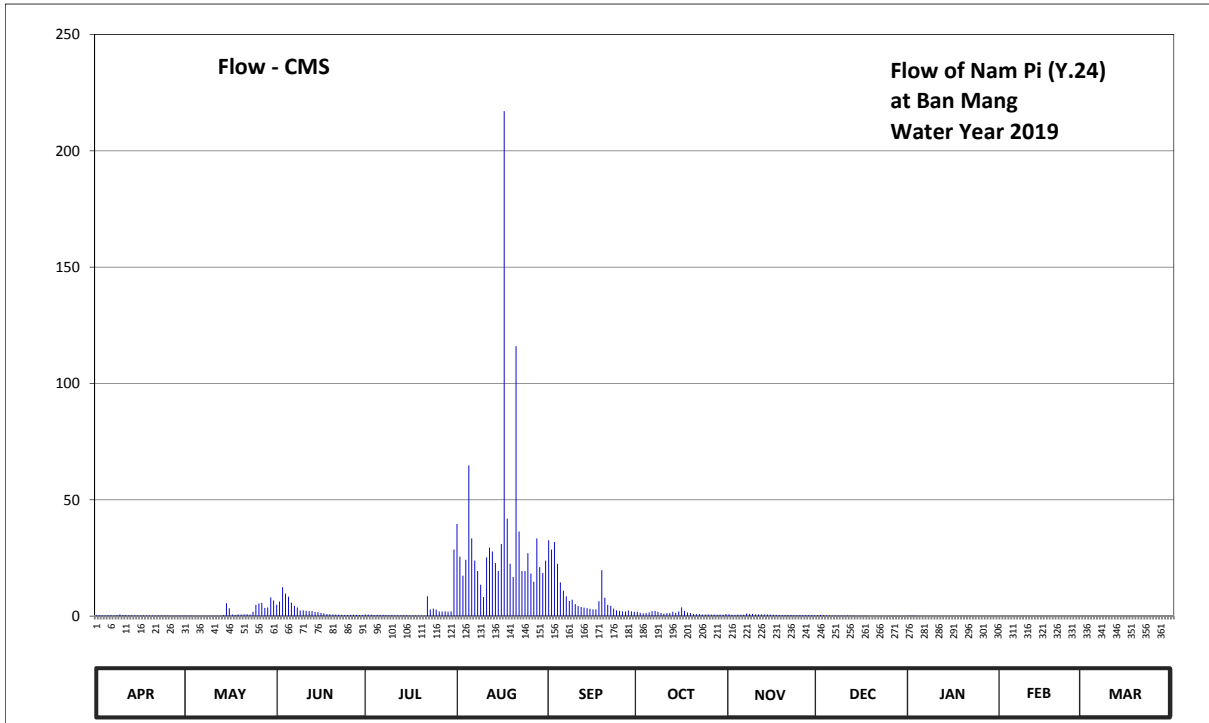
Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

	<b>Ban Mang</b>	<b>Amphoe</b>	<b>Chiang Muan</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	590	sq.km.			
<b>Type of Gage</b>	Staff gage.				
<b>Zero Gage at Bottom</b>	+257.765 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank at the abutment of the bridge.			<b>Elevation</b>	+264.800 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings				
<b>Period of Available Gage Records</b>	1977 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1979 - 1986 , 1996 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1979 - 1986 , 1996 to date				
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 32 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

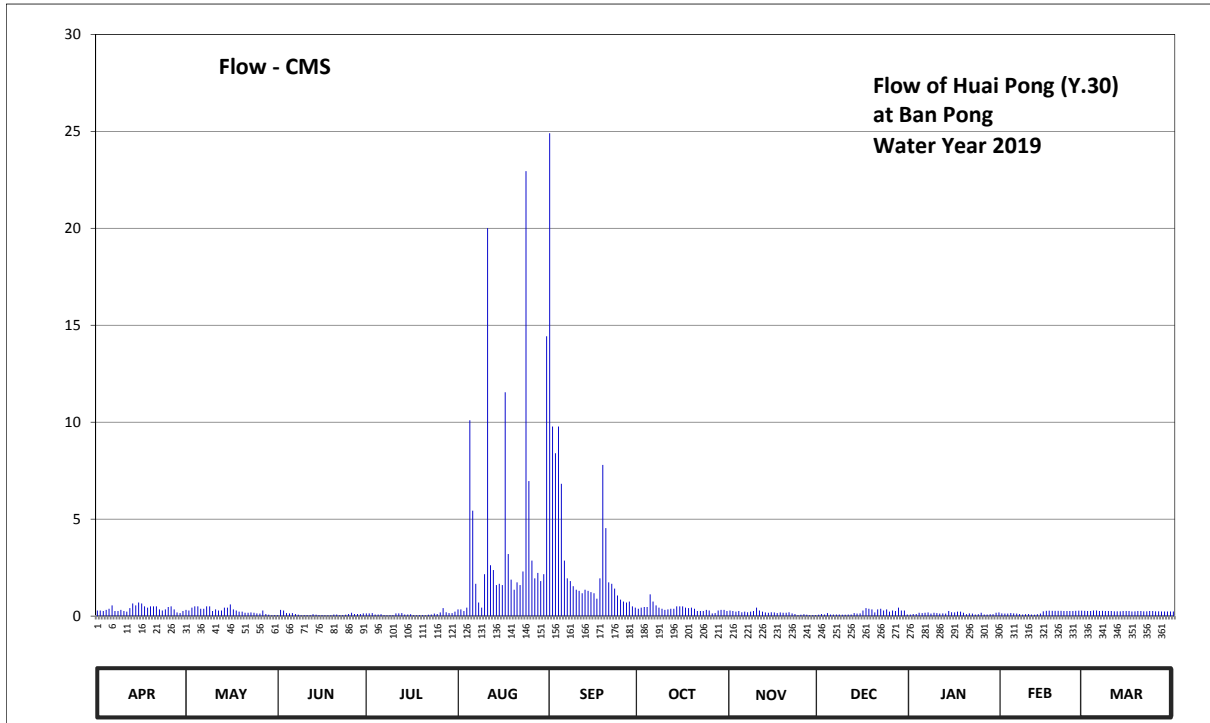
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.23	259.10	259.91	259.35	261.10	260.94	259.56	259.40	259.24	259.10	259.39	259.17	
2	259.21	259.09	260.02	259.35	260.76	260.84	259.51	259.34	259.28	259.11	259.39	259.16	
3	259.20	259.07	260.33	259.33	260.51	260.92	259.46	259.32	259.26	259.05	259.37	259.16	
4	259.20	259.05	260.22	259.30	260.72	260.67	259.49	259.35	259.15	258.99	259.31	259.18	
5	259.21	259.04	260.15	259.32	261.55	260.41	259.53	259.33	259.14	258.91	259.34	259.17	
6	259.21	259.05	259.99	259.32	260.96	260.27	259.60	259.33	259.13	258.91	259.34	259.17	
7	259.20	259.06	259.86	259.31	260.71	260.16	259.62	259.45	259.11	259.25	259.32	259.17	
8	259.25	259.04	259.79	259.30	260.58	260.04	259.56	259.43	259.11	259.52	259.30	259.17	
9	259.35	259.04	259.64	259.27	260.37	260.07	259.49	259.43	259.11	259.47	259.27	259.17	
10	259.27	259.05	259.65	259.24	260.14	259.93	259.44	259.39	259.12	259.44	259.25	259.16	
11	259.24	259.05	259.62	259.22	260.75	259.85	259.48	259.39	259.14	259.40	259.24	259.15	
12	259.22	259.04	259.61	259.22	260.86	259.81	259.48	259.38	259.13	259.40	259.24	259.15	
13	259.20	259.04	259.61	259.21	260.82	259.78	259.56	259.37	259.09	259.44	259.25	259.14	
14	259.20	259.24	259.55	259.22	260.68	259.76	259.49	259.36	259.03	259.43	259.23	259.14	
15	259.18	259.97	259.54	259.21	260.58	259.73	259.58	259.35	259.02	259.40	259.22	259.14	
16	259.17	259.75	259.50	259.20	260.90	259.70	259.80	259.33	259.00	259.42	259.21	259.20	
17	259.17	259.37	259.46	259.18	263.06	259.70	259.62	259.32	259.00	259.43	259.20	259.23	
18	259.16	259.32	259.41	259.16	261.15	260.03	259.53	259.30	258.97	259.42	259.19	259.11	
19	259.13	259.38	259.40	259.13	260.67	260.59	259.48	259.30	258.91	259.43	259.19	259.10	
20	259.12	259.35	259.37	259.12	260.49	260.12	259.43	259.30	258.85	259.43	259.18	259.10	
21	259.11	259.39	259.34	259.11	262.21	259.90	259.42	259.28	258.88	259.43	259.18	259.09	
22	259.10	259.40	259.33	260.16	261.03	259.86	259.41	259.29	258.94	259.42	259.17	259.09	
23	259.11	259.37	259.32	259.69	260.58	259.74	259.39	259.26	258.92	259.44	259.17	259.08	
24	259.10	259.56	259.30	259.74	260.58	259.65	259.37	259.27	258.92	259.45	259.17	259.07	
25	259.09	259.90	259.29	259.69	260.80	259.62	259.38	259.27	258.97	259.43	259.17	259.06	
26	259.10	259.96	259.31	259.58	260.54	259.59	259.36	259.26	258.97	259.40	259.17	259.06	
27	259.10	259.98	259.34	259.57	260.42	259.58	259.35	259.26	258.97	259.42	259.17	259.05	
28	259.10	259.77	259.32	259.59	260.96	259.64	259.34	259.25	258.97	259.41	259.18	259.04	
29	259.11	259.79	259.29	259.57	260.63	259.59	259.35	259.24	258.95	259.40	259.17	259.03	
30	259.12	260.13	259.30	259.59	260.55	259.56	259.34	259.23	258.97	259.39	259.17	259.02	
31		260.05		260.84	260.71		259.41		259.04	259.39		259.02	
Mean	259.17	259.40	259.59	259.42	260.85	260.00	259.48	259.33	259.04	259.34	259.24	259.12	
Max	259.35	260.13	260.33	260.84	263.06	260.94	259.80	259.45	259.28	259.52	259.39	259.23	263.06
Min	259.09	259.04	259.29	259.11	260.14	259.56	259.34	259.23	258.85	258.91	259.17	259.02	258.85
Annual Max Momentary Gage Height	263.22		m. (MSL.) ,			at 08.00 Hours ,	on Aug 17 , 2019						
Zero Gage at Bottom Elevation	257.77		m. (MSL.) ,			River Bed	255.59	m. (MSL.)					
Left Bank Elevation	266.23		m. (MSL.) ,										
Right Bank Elevation	266.69		m. (MSL.) ,			Drainage Are	590	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.20	4.91	0.65	39.60	32.60	1.82	0.80	0.38	0.20	0.00	0.00	
2	0.32	0.19	6.23	0.65	25.60	28.60	1.47	0.62	0.46	0.21	0.00	0.00	
3	0.30	0.17	12.45	0.59	17.39	31.80	1.16	0.56	0.42	0.15	0.00	0.00	
4	0.30	0.15	9.70	0.50	24.20	22.45	1.34	0.65	0.25	0.09	0.00	0.00	
5	0.32	0.14	8.38	0.56	64.75	14.49	1.61	0.59	0.24	0.01	0.00	0.00	
6	0.32	0.15	5.79	0.56	33.40	10.95	2.10	0.59	0.23	0.01	0.00	0.00	
7	0.30	0.16	4.40	0.53	23.85	8.54	2.26	1.10	0.21	0.00	0.00	0.00	
8	0.40	0.14	3.71	0.50	19.42	6.56	1.82	0.98	0.21	0.00	0.00	0.00	
9	0.65	0.14	2.42	0.44	13.45	7.06	1.34	0.98	0.21	0.00	0.00	0.00	
10	0.44	0.15	2.50	0.38	8.21	5.13	1.04	0.77	0.22	0.00	0.00	0.00	
11	0.38	0.15	2.26	0.34	25.25	4.30	1.28	0.77	0.24	0.00	0.00	0.00	
12	0.34	0.14	2.18	0.34	29.40	3.90	1.28	0.74	0.23	0.00	0.00	0.00	
13	0.30	0.14	2.18	0.32	27.80	3.62	1.82	0.71	0.19	0.00	0.00	0.00	
14	0.30	0.38	1.75	0.34	22.80	3.44	1.34	0.68	0.13	0.00	0.00	0.00	
15	0.28	5.57	1.68	0.32	19.42	3.17	1.96	0.65	0.12	0.00	0.00	0.00	
16	0.27	3.35	1.40	0.30	31.00	2.90	3.80	0.59	0.10	0.00	0.00	0.00	
17	0.27	0.71	1.16	0.28	217.00	2.90	2.26	0.56	0.10	0.00	0.00	0.00	
18	0.26	0.56	0.86	0.26	41.90	6.40	1.61	0.50	0.07	0.00	0.00	0.00	
19	0.23	0.74	0.80	0.23	22.45	19.71	1.28	0.50	0.01	0.00	0.00	0.00	
20	0.22	0.65	0.71	0.22	16.81	7.88	0.98	0.50	0.00	0.00	0.00	0.00	
21	0.21	0.77	0.62	0.21	116.00	4.80	0.92	0.46	0.00	0.00	0.00	0.00	
22	0.20	0.80	0.59	8.54	36.38	4.40	0.86	0.48	0.04	0.00	0.00	0.00	
23	0.21	0.71	0.56	2.82	19.42	3.26	0.77	0.42	0.02	0.00	0.00	0.00	
24	0.20	1.82	0.50	3.26	19.42	2.50	0.71	0.44	0.02	0.00	0.00	0.00	
25	0.19	4.80	0.48	2.82	27.00	2.26	0.74	0.44	0.07	0.00	0.00	0.00	
26	0.20	5.46	0.53	1.96	18.26	2.03	0.68	0.42	0.07	0.00	0.00	0.00	
27	0.20	5.68	0.62	1.89	14.78	1.96	0.65	0.42	0.07	0.00	0.00	0.00	
28	0.20	3.53	0.56	2.03	33.40	2.42	0.62	0.40	0.07	0.00	0.00	0.00	
29	0.21	3.71	0.48	1.89	21.05	2.03	0.65	0.38	0.05	0.00	0.00	0.00	
30	0.22	8.05	0.50	2.03	18.55	1.82	0.62	0.36	0.07	0.00	0.00	0.00	
31		6.73		28.60	23.85		0.86		0.14	0.00		0.00	
Total	8.60	56.04	80.91	64.36	1071.81	253.88	41.65	18.06	4.64	0.67	0.00	0.00	1600.62 CMSDAY
Mean	0.29	1.81	2.70	2.08	34.57	8.46	1.34	0.60	0.15	0.02	0.00	0.00	4.37 CMS
Max	0.65	8.05	12.45	28.60	217.00	32.60	3.80	1.10	0.46	0.21	0.00	0.00	217.00 CMS
Min	0.19	0.14	0.48	0.21	8.21	1.82	0.62	0.36	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.74	4.84	6.99	5.56	92.60	21.94	3.60	1.56	0.40	0.06	0.00	0.00	138.29 MCM
Momentary Peak	241.60	CMS. at 263.22 m. (MSL.) at 08.00 Hours , on Aug 17, 2019											
Runoff Yield	7.35	Liters/Second/Square KM. Momentary Peak Yield 404.69 Liters/Second/Square KM.											





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.29	0.32	0.05	0.14	0.35	24.90	0.38	0.29	0.07	0.08	0.14	0.27	
2	0.29	0.29	0.32	0.14	0.35	9.78	0.44	0.26	0.11	0.11	0.13	0.26	
3	0.26	0.44	0.29	0.16	0.26	8.40	0.47	0.23	0.08	0.11	0.13	0.26	
4	0.32	0.50	0.16	0.08	0.44	9.78	0.47	0.26	0.16	0.17	0.16	0.29	
5	0.38	0.50	0.14	0.08	10.10	6.82	1.12	0.20	0.08	0.16	0.14	0.29	
6	0.55	0.38	0.16	0.10	5.44	2.86	0.75	0.23	0.08	0.17	0.13	0.26	
7	0.26	0.38	0.11	0.05	1.67	1.95	0.55	0.20	0.08	0.19	0.11	0.27	
8	0.26	0.50	0.07	0.04	0.70	1.81	0.44	0.23	0.08	0.13	0.08	0.26	
9	0.32	0.50	0.04	0.05	0.44	1.54	0.38	0.26	0.07	0.17	0.10	0.26	
10	0.26	0.26	0.05	0.05	2.16	1.36	0.32	0.44	0.07	0.16	0.11	0.26	
11	0.23	0.35	0.05	0.14	20.01	1.30	0.35	0.29	0.08	0.13	0.08	0.25	
12	0.41	0.29	0.05	0.14	2.62	1.18	0.38	0.23	0.08	0.14	0.07	0.25	
13	0.65	0.29	0.10	0.16	2.38	1.36	0.38	0.19	0.16	0.13	0.10	0.25	
14	0.55	0.44	0.07	0.08	1.60	1.30	0.50	0.17	0.13	0.26	0.13	0.26	
15	0.70	0.44	0.05	0.08	1.67	1.24	0.50	0.20	0.14	0.20	0.25	0.26	
16	0.65	0.60	0.05	0.10	1.60	1.18	0.50	0.19	0.29	0.19	0.27	0.26	
17	0.50	0.35	0.04	0.05	11.54	0.90	0.44	0.16	0.41	0.23	0.28	0.24	
18	0.44	0.29	0.04	0.04	3.20	1.95	0.41	0.19	0.38	0.23	0.27	0.25	
19	0.50	0.23	0.04	0.05	1.88	7.80	0.44	0.17	0.35	0.17	0.27	0.26	
20	0.50	0.23	0.08	0.05	1.36	4.54	0.38	0.17	0.19	0.10	0.27	0.26	
21	0.50	0.17	0.08	0.04	1.74	1.74	0.26	0.20	0.35	0.14	0.27	0.25	
22	0.35	0.17	0.05	0.07	1.60	1.67	0.26	0.14	0.38	0.13	0.26	0.25	
23	0.29	0.19	0.05	0.08	2.30	1.42	0.26	0.11	0.29	0.08	0.26	0.26	
24	0.35	0.17	0.07	0.13	22.95	1.06	0.32	0.05	0.35	0.10	0.26	0.26	
25	0.47	0.14	0.11	0.11	6.96	0.85	0.29	0.07	0.23	0.17	0.26	0.25	
26	0.50	0.13	0.17	0.19	2.86	0.75	0.14	0.10	0.29	0.08	0.27	0.25	
27	0.35	0.29	0.11	0.41	1.95	0.70	0.16	0.07	0.26	0.08	0.28	0.24	
28	0.19	0.11	0.11	0.20	2.23	0.75	0.29	0.05	0.44	0.10	0.28	0.24	
29	0.16	0.07	0.11	0.16	1.81	0.50	0.32	0.05	0.29	0.10	0.28	0.24	
30	0.26	0.04	0.14	0.16	2.16	0.44	0.32	0.05	0.29	0.17		0.24	
31		0.05		0.23	14.43		0.26		0.08	0.19		0.24	
<b>Total</b>	11.74	9.11	2.96	3.56	130.76	101.83	12.48	5.45	6.34	4.57	5.64	7.94	302.38 CMSDAY
<b>Mean</b>	0.39	0.29	0.10	0.11	4.22	3.39	0.40	0.18	0.20	0.15	0.19	0.26	0.83 CMS
<b>Max</b>	0.70	0.60	0.32	0.41	22.95	24.90	1.12	0.44	0.44	0.26	0.28	0.29	24.90 CMS
<b>Min</b>	0.16	0.04	0.04	0.04	0.26	0.44	0.14	0.05	0.07	0.08	0.07	0.24	0.04 CMS
<b>Runoff</b>	1.01	0.79	0.26	0.31	11.30	8.80	1.08	0.47	0.55	0.39	0.49	0.69	26.13 MCM
<b>Momentary Peak</b>	31.62	CMS.	at 268.13 m. (MSL.)		at 06.00 Hours ,	on Sep 1 , 2019							
<b>Runoff Yield</b>	2.55	Liters/Second/Square KM.			Momentary Peak Yield	97.29	Liters/Second/Square KM.						

## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Ban Thung Nong , Phayao (Y.31)

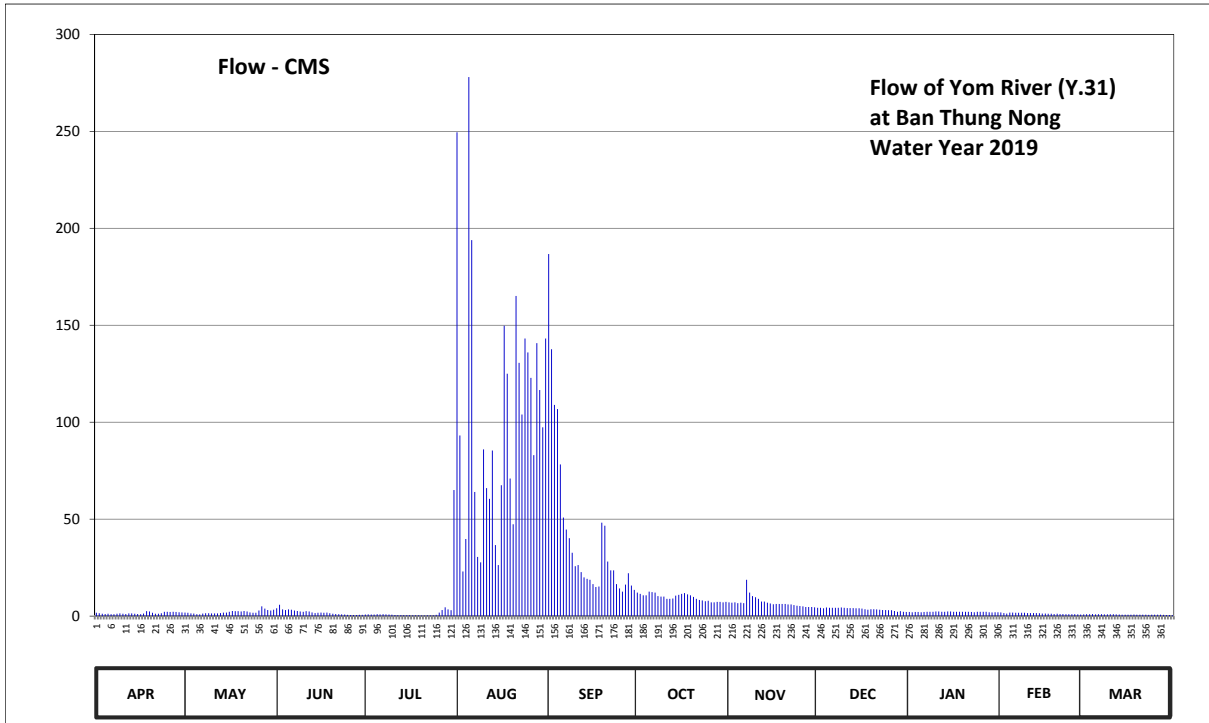
Lat 18 - 57 - 28 N Long 100 - 15 - 58 E

Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	<b>Ban Thung Nong</b>	<b>Amphoe Chiang Muan</b>	<b>Changwat Phayao</b>
<b>Drainage Area</b>	1,981 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+257.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 5 meters from the top staff gage.	<b>Elevation</b>	+266.960 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by the islet about 200 meters downstream from the gage site. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.67	257.68	257.85	257.55	262.05	261.43	258.28	258.04	257.87	257.71	257.69	257.58	
2	257.65	257.67	257.97	257.57	260.22	260.87	258.25	258.03	257.87	257.70	257.66	257.59	
3	257.62	257.64	257.81	257.56	258.70	260.47	258.22	258.04	257.85	257.71	257.63	257.59	
4	257.61	257.63	257.79	257.56	259.17	260.44	258.22	258.02	257.88	257.71	257.68	257.61	
5	257.62	257.60	257.81	257.59	262.30	259.97	258.30	258.03	257.87	257.70	257.68	257.58	
6	257.60	257.58	257.80	257.57	261.51	259.44	258.29	258.02	257.87	257.71	257.67	257.59	
7	257.60	257.63	257.77	257.59	259.72	259.29	258.28	258.55	257.87	257.72	257.67	257.59	
8	257.62	257.65	257.75	257.57	258.93	259.18	258.20	258.28	257.87	257.72	257.67	257.58	
9	257.64	257.65	257.73	257.56	258.85	258.99	258.19	258.20	257.88	257.72	257.67	257.58	
10	257.62	257.64	257.72	257.53	260.10	258.79	258.19	258.17	257.87	257.73	257.66	257.60	
11	257.61	257.64	257.74	257.49	259.76	258.81	258.13	258.13	257.86	257.73	257.66	257.59	
12	257.64	257.64	257.73	257.47	259.65	258.69	258.13	258.06	257.86	257.72	257.66	257.58	
13	257.64	257.66	257.69	257.47	260.09	258.60	258.14	258.06	257.86	257.72	257.66	257.55	
14	257.62	257.68	257.66	257.45	259.09	258.57	258.21	258.03	257.85	257.73	257.65	257.54	
15	257.61	257.68	257.67	257.45	258.81	258.55	258.23	258.01	257.85	257.73	257.63	257.53	
16	257.60	257.72	257.68	257.45	259.79	258.46	258.25	257.99	257.84	257.72	257.63	257.54	
17	257.63	257.75	257.67	257.44	261.02	258.40	258.27	258.00	257.82	257.72	257.62	257.54	
18	257.74	257.74	257.68	257.43	260.70	258.41	258.24	258.00	257.80	257.72	257.62	257.55	
19	257.73	257.74	257.65	257.43	259.85	259.38	258.22	258.00	257.82	257.72	257.61	257.54	
20	257.67	257.73	257.62	257.42	259.36	259.34	258.18	258.00	257.82	257.72	257.62	257.53	
21	257.62	257.75	257.61	257.42	261.19	258.86	258.13	257.98	257.81	257.72	257.61	257.53	
22	257.62	257.73	257.59	257.43	260.78	258.72	258.10	257.98	257.80	257.71	257.61	257.53	
23	257.65	257.69	257.57	257.43	260.40	258.72	258.09	257.96	257.79	257.70	257.60	257.52	
24	257.72	257.67	257.55	257.44	260.94	258.46	258.07	257.94	257.79	257.72	257.60	257.54	
25	257.72	257.67	257.52	257.51	260.85	258.37	258.08	257.93	257.78	257.72	257.60	257.54	
26	257.71	257.77	257.49	257.68	260.67	258.30	258.04	257.92	257.78	257.72	257.59	257.53	
27	257.72	257.92	257.49	257.79	260.05	258.45	258.04	257.90	257.75	257.72	257.58	257.53	
28	257.71	257.84	257.48	257.89	260.91	258.67	258.05	257.90	257.72	257.70	257.56	257.51	
29	257.70	257.79	257.51	257.81	260.58	258.43	258.05	257.90	257.74	257.69	257.58	257.50	
30	257.69	257.77	257.52	257.78	260.29	258.34	258.04	257.89	257.72	257.70	257.60	257.50	
31		257.80		257.74	260.94		258.05		257.71	257.70		257.47	
Mean	257.65	257.70	257.67	257.62	260.23	259.05	258.17	258.03	257.82	257.71	257.63	257.55	
Max	257.74	257.92	257.97	259.74	262.30	261.43	258.30	258.55	257.88	257.73	257.69	257.61	262.30
Min	257.60	257.58	257.48	257.42	258.70	258.30	258.04	257.89	257.71	257.69	257.56	257.47	257.42
Annual Max Momentary Gage Height	262.55		m. (MSL.) ,				at 20.00 Hours , on Aug 5 , 2019						
Zero Gage at Bottom Elevation	257.00		m. (MSL.) ,			River Bed	253.87	m. (MSL.)					
Left Bank Elevation	267.39		m. (MSL.) ,										
Right Bank Elevation	267.25		m. (MSL.) ,			Drainage Are	1,981	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	1.80	4.00	0.80	249.50	186.70	12.14	7.10	4.28	2.13	1.90	0.92	
2	1.50	1.70	5.82	0.88	93.20	137.60	11.45	6.90	4.28	2.00	1.60	0.96	
3	1.20	1.40	3.44	0.84	23.00	108.90	10.76	7.10	4.00	2.13	1.30	0.96	
4	1.10	1.30	3.17	0.84	39.80	106.80	10.76	6.70	4.42	2.13	1.80	1.10	
5	1.20	1.00	3.44	0.96	278.00	78.20	12.60	6.90	4.28	2.00	1.80	0.92	
6	1.00	0.92	3.30	0.88	193.90	50.80	12.37	6.70	4.28	2.13	1.70	0.96	
7	1.00	1.30	2.91	0.96	64.00	44.60	12.14	18.75	4.28	2.26	1.70	0.96	
8	1.20	1.50	2.65	0.88	30.55	40.20	10.30	12.14	4.28	2.26	1.70	0.92	
9	1.40	1.50	2.39	0.84	27.75	32.65	10.10	10.30	4.42	2.26	1.70	0.92	
10	1.20	1.40	2.26	0.72	86.00	25.70	10.10	9.70	4.28	2.39	1.60	1.00	
11	1.10	1.40	2.52	0.57	66.00	26.35	8.90	8.90	4.14	2.39	1.60	0.96	
12	1.40	1.40	2.39	0.51	60.50	22.70	8.90	7.50	4.14	2.26	1.60	0.92	
13	1.40	1.60	1.90	0.51	85.40	20.00	9.10	7.50	4.14	2.26	1.60	0.80	
14	1.20	1.80	1.60	0.45	36.60	19.25	10.53	6.90	4.00	2.39	1.50	0.76	
15	1.10	1.80	1.70	0.45	26.35	18.75	10.99	6.50	4.00	2.39	1.30	0.72	
16	1.00	2.26	1.80	0.45	67.50	16.50	11.45	6.14	3.86	2.26	1.30	0.76	
17	1.30	2.65	1.70	0.42	149.80	15.00	11.91	6.30	3.58	2.26	1.20	0.76	
18	2.52	2.52	1.80	0.39	125.00	15.25	11.22	6.30	3.30	2.26	1.20	0.80	
19	2.39	2.52	1.50	0.39	71.00	48.20	10.76	6.30	3.58	2.26	1.10	0.76	
20	1.70	2.39	1.20	0.36	47.40	46.60	9.90	6.30	3.58	2.26	1.20	0.72	
21	1.20	2.65	1.10	0.36	165.10	28.10	8.90	5.98	3.44	2.26	1.10	0.72	
22	1.20	2.39	0.96	0.39	130.60	23.60	8.30	5.98	3.30	2.13	1.10	0.72	
23	1.50	1.90	0.88	0.39	104.00	23.60	8.10	5.66	3.17	2.00	1.00	0.68	
24	2.26	1.70	0.80	0.42	143.20	16.50	7.70	5.34	3.17	2.26	1.00	0.76	
25	2.26	1.70	0.68	0.64	136.00	14.28	7.90	5.18	3.04	2.26	1.00	0.76	
26	2.13	2.91	0.57	1.80	122.90	12.60	7.10	5.02	3.04	2.26	0.96	0.72	
27	2.26	5.02	0.57	3.17	83.00	16.25	7.10	4.70	2.65	2.26	0.92	0.72	
28	2.13	3.86	0.54	4.56	140.80	22.10	7.30	4.70	2.26	2.00	0.84	0.64	
29	2.00	3.17	0.64	3.44	116.60	15.75	7.30	4.70	2.52	1.90	0.92	0.60	
30	1.90	2.91	0.68	3.04	97.40	13.56	7.10	4.56	2.26	2.00		0.60	
31		3.30		65.00	143.20		7.30		2.13	2.00		0.51	
Total	46.45	65.67	58.91	96.31	3204.05	1247.09	300.48	212.75	112.10	68.01	39.24	25.01	5476.07 CMSDAY
Mean	1.55	2.12	1.96	3.11	103.36	41.57	9.69	7.09	3.62	2.19	1.35	0.81	14.96 CMS
Max	2.52	5.02	5.82	65.00	278.00	186.70	12.60	18.75	4.42	2.39	1.90	1.10	278.00 CMS
Min	1.00	0.92	0.54	0.36	23.00	12.60	7.10	4.56	2.13	1.90	0.84	0.51	0.36 CMS
Runoff	4.01	5.67	5.09	8.32	276.83	107.75	25.96	18.38	9.69	5.88	3.39	2.16	473.13 MCM
Momentary Peak	309.50	CMS. at 262.55 m. (MSL.) at 20.00 Hours , on Aug 5, 2019											
Runoff Yield	7.59	Liters/Second/Square KM. Momentary Peak Yield 156.63 Liters/Second/Square KM.											



## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Ban Khlong Tan , Sukhothai (Y.33)

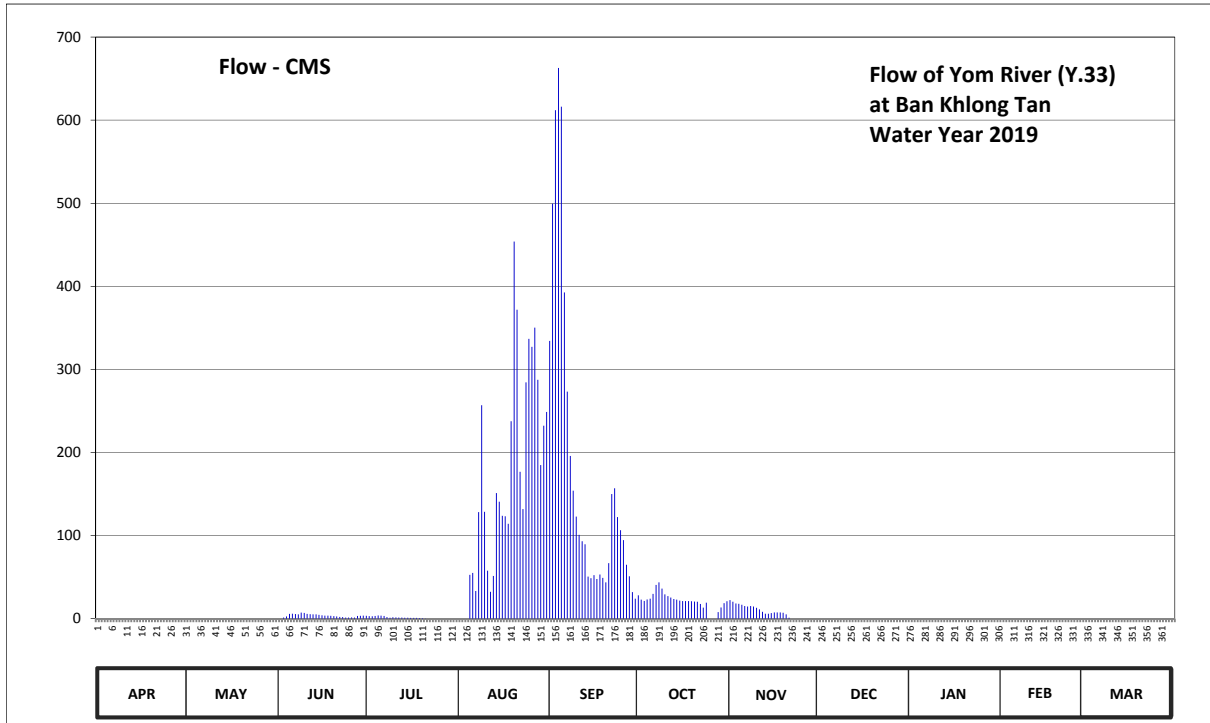
Lat 17 - 10 - 06 N Long 99 - 51 - 52 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

	<b>Ban Khlong Tan</b>	<b>Amphoe Si Samrong</b>	<b>Changwat Sukhothai</b>
<b>Drainage Area</b>	13,948 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+45.820 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20.30 meters from the top staff gage.	<b>Elevation</b>	+55.420 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1990 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +56.400 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Flow effected by the temporary weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 9 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.19	46.15	46.16	46.56	46.19	53.08	47.63	48.05	46.31	47.17	45.96	45.95	
2	46.18	46.14	46.19	46.53	46.18	54.89	47.45	48.01	46.28	47.08	45.96	45.95	
3	46.17	46.14	46.42	46.52	46.17	56.01	47.40	47.96	46.51	46.90	45.96	45.95	
4	46.18	46.14	46.51	46.54	46.18	56.49	47.46	47.95	46.92	46.82	45.96	45.95	
5	46.18	46.13	46.69	46.58	48.38	56.05	47.49	47.92	47.03	46.72	45.96	45.95	
6	46.17	46.13	46.70	46.57	48.44	53.74	47.69	47.88	47.05	46.57	45.96	45.95	
7	46.17	46.13	46.68	46.54	47.80	52.29	48.04	47.87	47.00	46.45	45.96	45.95	
8	46.16	46.13	46.66	46.45	50.03	51.18	48.13	47.88	46.84	46.46	45.96	45.95	
9	46.16	46.13	46.78	46.40	52.07	50.49	47.90	47.87	46.71	46.72	45.96	45.95	
10	46.17	46.13	46.76	46.44	50.04	49.93	47.67	47.83	46.56	46.79	45.96	45.95	
11	46.19	46.13	46.69	46.43	48.51	49.51	47.60	47.78	46.42	46.64	45.96	45.94	
12	46.19	46.14	46.67	46.41	47.77	49.35	47.54	47.71	46.28	46.74	45.96	45.88	
13	46.19	46.16	46.66	46.41	48.34	49.27	47.48	47.65	46.19	46.68	45.96	45.77	
14	46.20	46.15	46.66	46.40	50.44	48.32	47.45	47.65	46.18	46.49	45.96	45.77	
15	46.25	46.15	46.63	46.40	50.26	48.27	47.41	47.67	46.17	46.34	45.96	45.77	
16	46.25	46.14	46.60	46.39	49.95	48.37	47.39	47.69	46.16	46.20	45.96	45.77	
17	46.23	46.14	46.57	46.39	49.94	48.24	47.39	47.69	46.15	46.14	45.96	45.77	
18	46.21	46.14	46.57	46.38	49.77	48.39	47.39	47.69	46.15	46.11	45.96	45.77	
19	46.19	46.14	46.55	46.37	51.81	48.28	47.38	47.68	46.15	46.11	45.96	45.77	
20	46.20	46.13	46.53	46.35	54.41	48.13	47.37	47.63	46.15	46.11	45.96	45.77	
21	46.21	46.14	46.50	46.32	53.51	48.74	47.36	47.53	46.15	46.10	45.96	45.77	
22	46.20	46.18	46.47	46.30	50.87	50.42	47.26	47.39	46.52	46.03	45.96	45.77	
23	46.18	46.15	46.45	46.29	50.10	50.54	47.06	47.15	46.89	45.96	45.96	45.77	
24	46.16	46.15	46.42	46.28	52.44	49.92	47.32	46.85	46.92	45.96	45.96	45.77	
25	46.15	46.14	46.42	46.28	53.11	49.62	47.34	46.58	47.16	45.96	45.96	45.77	
26	46.15	46.14	46.43	46.27	52.99	49.38	47.40	46.41	47.35	45.96	45.96	45.77	
27	46.14	46.14	46.43	46.25	53.27	48.69	47.48	46.35	47.46	45.96	45.96	45.77	
28	46.15	46.13	46.54	46.24	52.48	48.33	47.70	46.33	47.37	45.96	45.96	45.77	
29	46.15	46.14	46.56	46.22	51.00	47.76	47.84	46.32	47.21	45.96	45.95	45.77	
30	46.15	46.14	46.57	46.21	51.73	47.49	47.97	46.32	47.21	45.96	45.96	45.77	
31		46.16		46.20	51.96		48.02		47.18	45.96		45.77	
Mean	46.18	46.14	46.55	46.38	50.20	50.37	47.55	47.44	46.67	46.36	45.96	45.84	
Max	46.25	46.18	46.78	46.58	54.41	56.49	48.13	48.05	47.46	47.17	45.96	45.95	56.49
Min	46.14	46.13	46.16	46.20	46.17	47.49	47.06	46.32	46.15	45.96	45.95	45.77	45.77
Annual Max Momentary Gage Height	56.62		m. (MSL.) ,				at 18.00 Hours ,						on Sep 4 , 2019
Zero Gage at Bottom Elevation	45.82		m. (MSL.) ,			River Bed	44.49	m. (MSL.)					
Left Bank Elevation		56.91		m. (MSL.) ,									
Right Bank Elevation		56.39		m. (MSL.) ,		Drainage Are	13,948	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	3.60	0.00	334.40	28.20	22.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	3.15	0.00	499.55	22.95	20.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	1.50	3.00	0.00	612.05	21.50	18.40	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.85	3.30	0.00	662.90	23.24	18.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	5.82	3.90	52.87	616.25	24.11	16.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	6.00	3.75	55.14	392.60	30.00	15.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	5.64	3.30	33.30	273.26	40.70	14.80	0.00	0.00	0.00	0.00	
8	0.00	0.00	5.28	1.95	128.24	195.97	43.85	15.20	0.00	0.00	0.00	0.00	
9	0.00	0.00	7.44	1.20	256.98	154.11	36.30	14.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	7.08	1.80	128.78	122.86	29.40	13.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	5.82	1.65	57.84	101.05	27.30	11.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	5.46	1.35	32.40	93.28	25.56	8.40	0.00	0.00	0.00	0.00	
13	0.00	0.00	5.28	1.35	51.41	89.56	23.82	6.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	5.28	1.20	151.16	50.68	22.95	6.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	4.74	1.20	140.89	48.86	21.79	6.80	0.00	0.00	0.00	0.00	
16	0.00	0.00	4.20	1.08	123.93	52.51	21.24	7.60	0.00	0.00	0.00	0.00	
17	0.00	0.00	3.75	1.08	123.39	47.76	21.24	7.60	0.00	0.00	0.00	0.00	
18	0.00	0.00	3.75	0.96	114.34	53.24	21.24	7.60	0.00	0.00	0.00	0.00	
19	0.00	0.00	3.45	0.84	237.74	49.22	20.98	7.20	0.00	0.00	0.00	0.00	
20	0.00	0.00	3.15	0.60	453.95	43.85	20.72	5.20	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.70	0.24	371.90	66.90	20.46	1.20	0.00	0.00	0.00	0.00	
22	0.00	0.00	2.25	0.00	176.91	149.98	17.86	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	1.95	0.00	132.05	157.06	13.29	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.50	0.00	284.46	122.32	19.42	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.50	0.00	336.80	106.54	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	1.65	0.00	327.20	94.67	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.50	0.00	350.30	64.90	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	3.30	0.00	287.52	51.05	8.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	3.60	0.00	184.90	32.10	13.60	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	3.75	0.00	232.28	24.11	18.80	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	248.84	0.00	21.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	110.19	40.50	5075.52	5363.59	659.52	244.20	0.00	0.00	0.00	0.00	11493.52 CMSDAY
Mean	0.00	0.00	3.67	1.31	163.73	178.79	21.27	8.14	0.00	0.00	0.00	0.00	31.40 CMS
Max	0.00	0.00	7.44	3.90	453.95	662.90	43.85	22.50	0.00	0.00	0.00	0.00	662.90 CMS
Min	0.00	0.00	0.00	0.00	0.00	24.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	9.52	3.50	438.52	463.41	56.98	21.10	0.00	0.00	0.00	0.00	993.04 MCM
Momentary Peak	677.20	CMS.	at 56.62 m. (MSL.)	at 18.00 Hours,	on Sep 4, 2019								
Runoff Yield	2.29	Liters/Second/Square KM.		Momentary Peak Yield	49.19	Liters/Second/Square KM.							

## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Mae Lai at Ban Mae Lai , Phrae (Y.34)

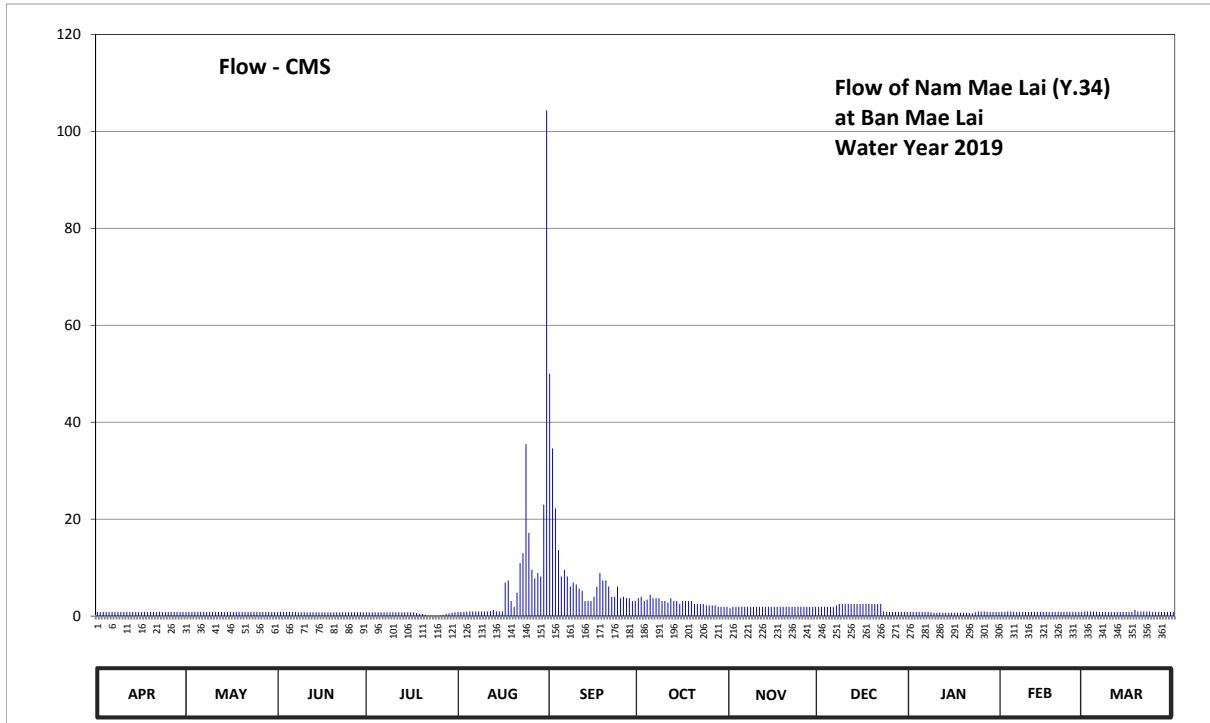
Lat 18 - 12 - 59 N Long 100 - 12 - 36 E

Location : on left bank at the bridge on highway.

	<b>Ban Mae Lai</b>	<b>Amphoe Mueang</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	331 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+157.270 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.	<b>Elevation</b>	+167.293 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow effected by the temporary weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.17	159.17	159.17	159.16	159.17	159.92	159.29	159.22	159.23	159.17	159.17	159.19	
2	159.17	159.17	159.17	159.16	159.17	159.75	159.30	159.23	159.23	159.17	159.17	159.19	
3	159.17	159.17	159.17	159.16	159.17	159.60	159.27	159.23	159.23	159.17	159.19	159.19	
4	159.17	159.17	159.17	159.16	159.18	159.48	159.28	159.23	159.23	159.17	159.19	159.19	
5	159.17	159.17	159.17	159.16	159.20	159.40	159.31	159.23	159.23	159.17	159.17	159.18	
6	159.17	159.17	159.17	159.16	159.19	159.42	159.29	159.23	159.23	159.17	159.17	159.17	
7	159.17	159.17	159.17	159.16	159.19	159.40	159.29	159.23	159.24	159.17	159.17	159.17	
8	159.17	159.17	159.16	159.16	159.19	159.35	159.29	159.23	159.25	159.16	159.17	159.17	
9	159.17	159.17	159.16	159.16	159.19	159.37	159.27	159.23	159.25	159.14	159.17	159.17	
10	159.17	159.17	159.16	159.16	159.19	159.36	159.27	159.23	159.25	159.14	159.17	159.17	
11	159.17	159.17	159.16	159.16	159.19	159.34	159.26	159.23	159.25	159.15	159.17	159.17	
12	159.17	159.17	159.16	159.16	159.20	159.33	159.29	159.23	159.25	159.14	159.17	159.17	
13	159.17	159.17	159.16	159.16	159.21	159.27	159.27	159.23	159.25	159.14	159.17	159.17	
14	159.17	159.17	159.16	159.16	159.20	159.27	159.27	159.23	159.25	159.14	159.17	159.17	
15	159.17	159.17	159.16	159.16	159.19	159.27	159.25	159.23	159.25	159.14	159.17	159.17	
16	159.17	159.17	159.16	159.16	159.20	159.30	159.27	159.23	159.25	159.14	159.17	159.17	
17	159.17	159.17	159.16	159.16	159.37	159.35	159.27	159.23	159.25	159.14	159.17	159.17	
18	159.17	159.17	159.16	159.13	159.38	159.41	159.27	159.23	159.25	159.14	159.17	159.21	
19	159.17	159.17	159.16	159.09	159.27	159.38	159.27	159.23	159.25	159.14	159.17	159.19	
20	159.17	159.17	159.16	159.09	159.23	159.38	159.25	159.23	159.25	159.14	159.18	159.19	
21	159.17	159.17	159.16	159.04	159.32	159.35	159.25	159.23	159.25	159.14	159.18	159.19	
22	159.17	159.17	159.16	158.99	159.44	159.30	159.25	159.23	159.25	159.12	159.17	159.19	
23	159.17	159.17	159.16	158.96	159.47	159.30	159.25	159.23	159.20	159.16	159.17	159.19	
24	159.17	159.17	159.16	158.94	159.76	159.35	159.24	159.23	159.17	159.19	159.17	159.17	
25	159.17	159.17	159.16	158.99	159.53	159.29	159.24	159.23	159.17	159.19	159.17	159.17	
26	159.17	159.17	159.16	159.01	159.42	159.30	159.24	159.23	159.17	159.19	159.17	159.18	
27	159.17	159.17	159.16	159.03	159.39	159.29	159.24	159.23	159.17	159.18	159.17	159.17	
28	159.17	159.17	159.16	159.09	159.41	159.29	159.23	159.23	159.17	159.17	159.17	159.17	
29	159.17	159.17	159.16	159.11	159.40	159.27	159.23	159.23	159.17	159.17	159.17	159.17	
30	159.17	159.17	159.16	159.14	159.61	159.27	159.23	159.23	159.17	159.17	159.17	159.17	
31		159.17		159.16	160.38		159.23		159.17	159.17		159.17	
Mean	159.17	159.17	159.16	159.11	159.34	159.38	159.26	159.23	159.22	159.16	159.17	159.18	
Max	159.17	159.17	159.17	159.16	160.38	159.92	159.31	159.23	159.25	159.19	159.19	159.21	160.38
Min	159.17	159.17	159.16	158.94	159.17	159.27	159.23	159.22	159.17	159.12	159.17	159.17	158.94
Annual Max Momentary Gage Height	161.10		m. (MSL.) ,			at 17.00 Hours ,							on Aug 31 , 2019
Zero Gage at Bottom Elevation	157.27		m. (MSL.) ,			River Bed	157.87		m. (MSL)				
Left Bank Elevation		167.50		m. (MSL.) ,									
Right Bank Elevation		167.49		m. (MSL.) ,		Drainage Are	331		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.85	0.85	0.85	0.80	0.85	50.00	3.70	1.60	1.90	0.85	0.85	0.95	
2	0.85	0.85	0.85	0.80	0.85	34.60	4.00	1.90	1.90	0.85	0.85	0.95	
3	0.85	0.85	0.85	0.80	0.85	22.20	3.10	1.90	1.90	0.85	0.95	0.95	
4	0.85	0.85	0.85	0.80	0.90	13.64	3.40	1.90	1.90	0.85	0.95	0.95	
5	0.85	0.85	0.85	0.80	1.00	8.20	4.42	1.90	1.90	0.85	0.85	0.90	
6	0.85	0.85	0.85	0.80	0.95	9.56	3.70	1.90	1.90	0.85	0.85	0.85	
7	0.85	0.85	0.85	0.80	0.95	8.20	3.70	1.90	2.20	0.85	0.85	0.85	
8	0.85	0.85	0.80	0.80	0.95	6.10	3.70	1.90	2.50	0.80	0.85	0.85	
9	0.85	0.85	0.80	0.80	0.95	6.94	3.10	1.90	2.50	0.70	0.85	0.85	
10	0.85	0.85	0.80	0.80	0.95	6.52	3.10	1.90	2.50	0.70	0.85	0.85	
11	0.85	0.85	0.80	0.80	0.95	5.68	2.80	1.90	2.50	0.75	0.85	0.85	
12	0.85	0.85	0.80	0.80	1.00	5.26	3.70	1.90	2.50	0.70	0.85	0.85	
13	0.85	0.85	0.80	0.80	1.30	3.10	3.10	1.90	2.50	0.70	0.85	0.85	
14	0.85	0.85	0.80	0.80	1.00	3.10	3.10	1.90	2.50	0.70	0.85	0.85	
15	0.85	0.85	0.80	0.80	0.95	3.10	2.50	1.90	2.50	0.70	0.85	0.85	
16	0.85	0.85	0.80	0.80	1.00	4.00	3.10	1.90	2.50	0.70	0.85	0.85	
17	0.85	0.85	0.80	0.80	6.94	6.10	3.10	1.90	2.50	0.70	0.85	0.85	
18	0.85	0.85	0.80	0.65	7.36	8.88	3.10	1.90	2.50	0.70	0.85	1.30	
19	0.85	0.85	0.80	0.46	3.10	7.36	3.10	1.90	2.50	0.70	0.85	0.95	
20	0.85	0.85	0.80	0.46	1.90	7.36	2.50	1.90	2.50	0.70	0.90	0.95	
21	0.85	0.85	0.80	0.26	4.84	6.10	2.50	1.90	2.50	0.70	0.90	0.95	
22	0.85	0.85	0.80	0.09	10.92	4.00	2.50	1.90	2.50	0.60	0.85	0.95	
23	0.85	0.85	0.80	0.06	12.96	4.00	2.50	1.90	1.00	0.80	0.85	0.95	
24	0.85	0.85	0.80	0.04	35.48	6.10	2.20	1.90	0.85	0.95	0.85	0.85	
25	0.85	0.85	0.80	0.09	17.16	3.70	2.20	1.90	0.85	0.95	0.85	0.85	
26	0.85	0.85	0.80	0.14	9.56	4.00	2.20	1.90	0.85	0.95	0.85	0.90	
27	0.85	0.85	0.80	0.22	7.78	3.70	2.20	1.90	0.85	0.90	0.85	0.85	
28	0.85	0.85	0.80	0.46	8.88	3.70	1.90	1.90	0.85	0.85	0.85	0.85	
29	0.85	0.85	0.80	0.55	8.20	3.10	1.90	1.90	0.85	0.85	0.85	0.85	
30	0.85	0.85	0.80	0.70	23.00	3.10	1.90	1.90	0.85	0.85		0.85	
31		0.85		0.80	104.32		1.90		0.85	0.85		0.85	
Total	25.50	26.35	24.35	18.58	277.80	261.40	89.92	56.70	58.90	24.45	24.95	27.80	916.70 CMSDAY
Mean	0.85	0.85	0.81	0.60	8.96	8.71	2.90	1.89	1.90	0.79	0.86	0.90	2.50 CMS
Max	0.85	0.85	0.85	0.80	104.32	50.00	4.42	1.90	2.50	0.95	0.95	1.30	104.32 CMS
Min	0.85	0.85	0.80	0.04	0.85	3.10	1.90	1.60	0.85	0.60	0.85	0.85	0.04 CMS
Runoff	2.20	2.28	2.10	1.61	24.00	22.58	7.77	4.90	5.09	2.11	2.16	2.40	79.20 MCM
Momentary Peak	230.50 CMS. at 161.10 m. (MSL.) at 17.00 Hours , on Aug 31, 2019												
Runoff Yield	7.59 Liters/Second/Square KM.			Momentary Peak Yield 696.37 Liters/Second/Square KM.									

## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

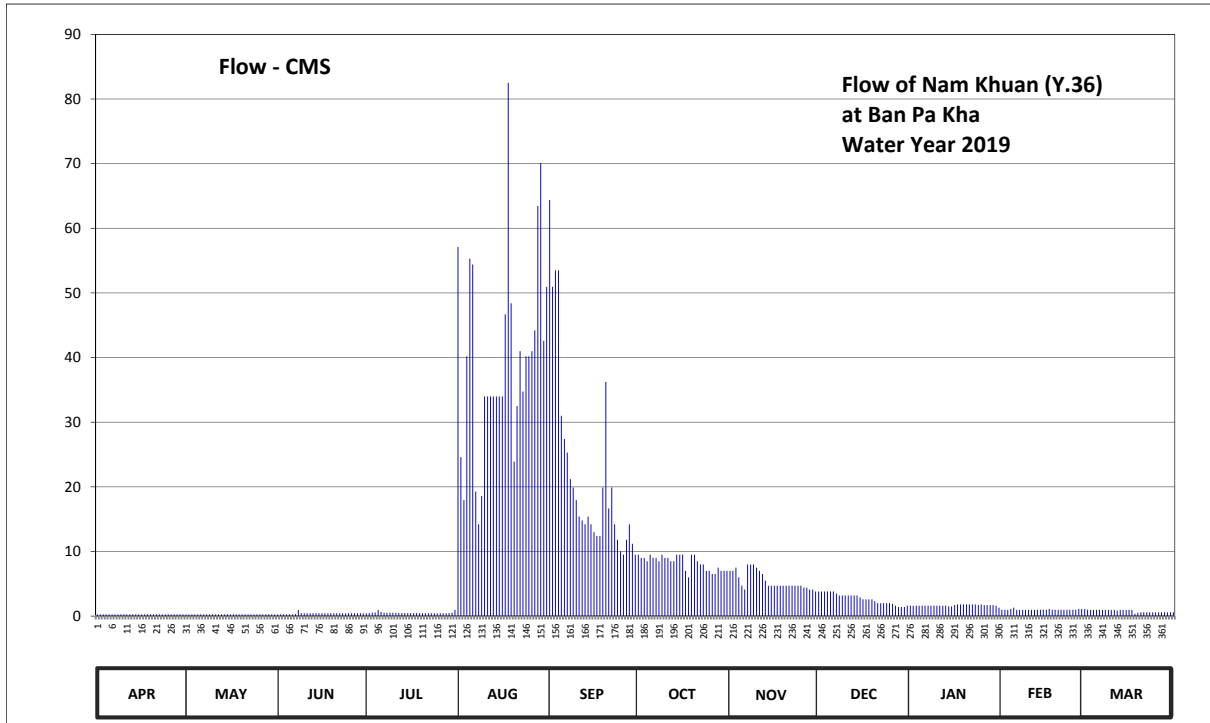
Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

Location : on left bank at the bridge.

	<b>Ban Pa Kha</b>	<b>Amphoe Pong</b>	<b>Changwat Phayao</b>
<b>Drainage Area</b>	822 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+298.586 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the abutment of the bridge.	<b>Elevation</b>	+307.764 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1998 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the islet at the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.48	300.48	300.48	300.59	301.74	301.82	301.09	301.04	300.96	300.86	300.80	300.81	
2	300.48	300.48	300.48	300.61	301.33	301.67	301.08	301.04	300.96	300.86	300.80	300.80	
3	300.48	300.48	300.48	300.65	301.23	301.70	301.08	301.05	300.96	300.86	300.79	300.79	
4	300.48	300.48	300.48	300.66	301.54	301.70	301.07	301.02		300.86	300.81	300.79	
5	300.48	300.48	300.48	300.79	301.72	301.42	301.09	300.99	300.96	300.86	300.83	300.79	
6	300.48	300.48	300.48	300.69	301.71	301.37	301.08	300.97	300.96	300.86	300.79	300.80	
7	300.48	300.48	300.51	300.64	301.25	301.34	301.08	301.06	300.95	300.86	300.79	300.79	
8	300.48	300.48	300.78	300.64	301.17	301.28	301.07	301.06	300.94	300.86	300.79	300.79	
9	300.48	300.48	300.61	300.63	301.24	301.26	301.09	301.06	300.94	300.86	300.79	300.79	
10	300.48	300.48	300.59	300.63	301.46	301.23	301.08	301.05	300.94	300.86	300.79	300.79	
11	300.48	300.48	300.59	300.62	301.46	301.19	301.08	301.04	300.94	300.86	300.79	300.79	
12	300.48	300.48	300.59	300.62	301.46	301.18	301.07	301.03	300.94	300.86	300.79	300.75	
13	300.48	300.48	300.59	300.62	301.46	301.17	301.07	301.01	300.94	300.86	300.80	300.79	
14	300.48	300.48	300.59	300.61	301.46	301.19	301.09	300.99	300.94	300.85	300.80	300.79	
15	300.48	300.48	300.59	300.61	301.46	301.17	301.09	300.99	300.93	300.85	300.80	300.79	
16	300.48	300.48	300.59	300.61	301.46	301.15	301.09	300.99	300.92	300.87	300.80	300.79	
17	300.48	300.48	300.59	300.61	301.62	301.14	301.04	300.99	300.92	300.88	300.81	300.79	
18	300.48	300.48	300.59	300.61	302.00	301.14	301.02	300.99	300.92	300.88	300.80	300.84	
19	300.48	300.48	300.59	300.61	301.64	301.26	301.09	300.99	300.92	300.88	300.80	301.16	
20	300.48	300.48	300.59	300.59	301.32	301.49	301.09	300.99	300.91	300.88	300.80	301.26	
21	300.48	300.48	300.59	300.59	301.44	301.21	301.07	300.99	300.90	300.88	300.80	301.26	
22	300.48	300.48	300.59	300.59	301.55	301.26	301.06	300.99	300.90	300.88	300.80	301.28	
23	300.48	300.48	300.59	300.59	301.47	301.17	301.06	300.99	300.90	300.88	300.80	301.28	
24	300.48	300.48	300.59	300.59	301.54	301.13	301.04	300.99	300.90	300.87	300.80	301.27	
25	300.48	300.48	300.59	300.59	301.54	301.10	301.04	300.99	300.90	300.88	300.80	301.27	
26	300.48	300.48	300.59	300.59	301.55	301.09	301.03	300.98	300.89	300.87	300.80	301.27	
27	300.48	300.48	300.59	300.59	301.59	301.13	301.03	300.98	300.86	300.87	300.81	301.27	
28	300.48	300.48	300.59	300.59	301.81	301.17	301.05	300.97	300.84	300.87	300.81	301.26	
29	300.48	300.48	300.59	300.61	301.88	301.12	301.04	300.97	300.84	300.87	300.81	301.26	
30	300.48	300.48	300.59	300.63	301.57	301.09	301.04	300.96	300.84	300.86	300.86	301.25	
31	300.48	300.48	300.59	300.79	301.67		301.04		300.86	300.83		301.25	
Mean	300.48	300.48	300.57	300.63	301.53	301.28	301.07	301.01	300.92	300.87	300.80	300.99	
Max	300.48	300.48	300.78	300.79	302.00	301.82	301.09	301.06	300.96	300.88	300.83	301.28	302.00
Min	300.48	300.48	300.48	300.59	301.17	301.09	301.02	300.96	300.84	300.83	300.79	300.75	300.48
Annual Max Momentary Gage Height	302.09		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	298.59		m. (MSL.) ,				River Bed	298.31		m. (MSL.)			
Left Bank Elevation	307.46		m. (MSL.) ,										
Right Bank Elevation	307.72		m. (MSL.) ,				Drainage Are	822		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.28	0.28	0.44	57.10	64.40	9.50	7.00	3.80	1.60	1.00	1.10	
2	0.28	0.28	0.28	0.47	24.60	50.95	9.00	7.00	3.80	1.60	1.00	1.00	
3	0.28	0.28	0.28	0.55	17.95	53.50	9.00	7.50	3.80	1.60	0.97	0.97	
4	0.28	0.28	0.28	0.57	40.20	53.50	8.50	6.00	3.80	1.60	1.10	0.97	
5	0.28	0.28	0.28	0.97	55.30	31.00	9.50	4.70	3.80	1.60	1.30	0.97	
6	0.28	0.28	0.28	0.63	54.40	27.40	9.00	4.10	3.80	1.60	0.97	1.00	
7	0.28	0.28	0.32	0.53	19.25	25.30	9.00	8.00	3.50	1.60	0.97	0.97	
8	0.28	0.28	0.93	0.53	14.20	21.20	8.50	8.00	3.20	1.60	0.97	0.97	
9	0.28	0.28	0.47	0.51	18.60	19.90	9.50	8.00	3.20	1.60	0.97	0.97	
10	0.28	0.28	0.44	0.51	34.00	17.95	9.00	7.50	3.20	1.60	0.97	0.97	
11	0.28	0.28	0.44	0.49	34.00	15.40	9.00	7.00	3.20	1.60	0.97	0.97	
12	0.28	0.28	0.44	0.49	34.00	14.80	8.50	6.50	3.20	1.60	0.97	0.83	
13	0.28	0.28	0.44	0.49	34.00	14.20	8.50	5.50	3.20	1.60	1.00	0.97	
14	0.28	0.28	0.44	0.47	34.00	15.40	9.50	4.70	3.20	1.50	1.00	0.97	
15	0.28	0.28	0.44	0.47	34.00	14.20	9.50	4.70	2.90	1.50	1.00	0.97	
16	0.28	0.28	0.44	0.47	34.00	13.00	9.50	4.70	2.60	1.70	1.00	0.97	
17	0.28	0.28	0.44	0.47	46.70	12.40	7.00	4.70	2.60	1.80	1.10	0.97	
18	0.28	0.28	0.44	0.47	82.50	12.40	6.00	4.70	2.60	1.80	1.00	0.37	
19	0.28	0.28	0.44	0.47	48.40	19.90	9.50	4.70	2.60	1.80	1.00	0.53	
20	0.28	0.28	0.44	0.44	23.90	36.25	9.50	4.70	2.30	1.80	1.00	0.58	
21	0.28	0.28	0.44	0.44	32.50	16.65	8.50	4.70	2.00	1.80	1.00	0.58	
22	0.28	0.28	0.44	0.44	41.00	19.90	8.00	4.70	2.00	1.80	1.00	0.59	
23	0.28	0.28	0.44	0.44	34.75	14.20	8.00	4.70	2.00	1.80	1.00	0.59	
24	0.28	0.28	0.44	0.44	40.20	11.80	7.00	4.70	2.00	1.70	1.00	0.59	
25	0.28	0.28	0.44	0.44	40.20	10.00	7.00	4.70	2.00	1.80	1.00	0.59	
26	0.28	0.28	0.44	0.44	41.00	9.50	6.50	4.40	1.90	1.70	1.00	0.59	
27	0.28	0.28	0.44	0.44	44.20	11.80	6.50	4.40	1.60	1.70	1.10	0.59	
28	0.28	0.28	0.44	0.44	63.45	14.20	7.50	4.10	1.40	1.70	1.10	0.58	
29	0.28	0.28	0.44	0.47	70.10	11.20	7.00	4.10	1.40	1.70	1.10	0.58	
30	0.28	0.28	0.44	0.51	42.60	9.50	7.00	3.80	1.40	1.60		0.58	
31		0.28		0.97	50.95		7.00		1.60	1.30		0.58	
<b>Total</b>	8.40	8.68	12.64	15.91	1242.05	661.80	257.00	164.00	83.60	51.30	29.56	24.46	2559.40 CMSDAY
<b>Mean</b>	0.28	0.28	0.42	0.51	40.07	22.06	8.29	5.47	2.70	1.65	1.02	0.79	6.99 CMS
<b>Max</b>	0.28	0.28	0.93	0.97	82.50	64.40	9.50	8.00	3.80	1.80	1.30	1.10	82.50 CMS
<b>Min</b>	0.28	0.28	0.28	0.44	14.20	9.50	6.00	3.80	1.40	1.30	0.97	0.37	0.28 CMS
<b>Runoff</b>	0.73	0.75	1.09	1.37	107.31	57.18	22.20	14.17	7.22	4.43	2.55	2.11	221.13 MCM
<b>Momentary Peak</b>	93.07 CMS. at 302.09 m. (MSL.) at 06.00 Hours , on Aug 18, 2019												
<b>Runoff Yield</b>	8.53 Liters/Second/Square KM.			Momentary Peak Yield			113.22 Liters/Second/Square KM.						

## WATER YEAR : 2019

## YOM RIVER BASIN

Yom River at Ban Wang Chin , Phrae (Y.37)

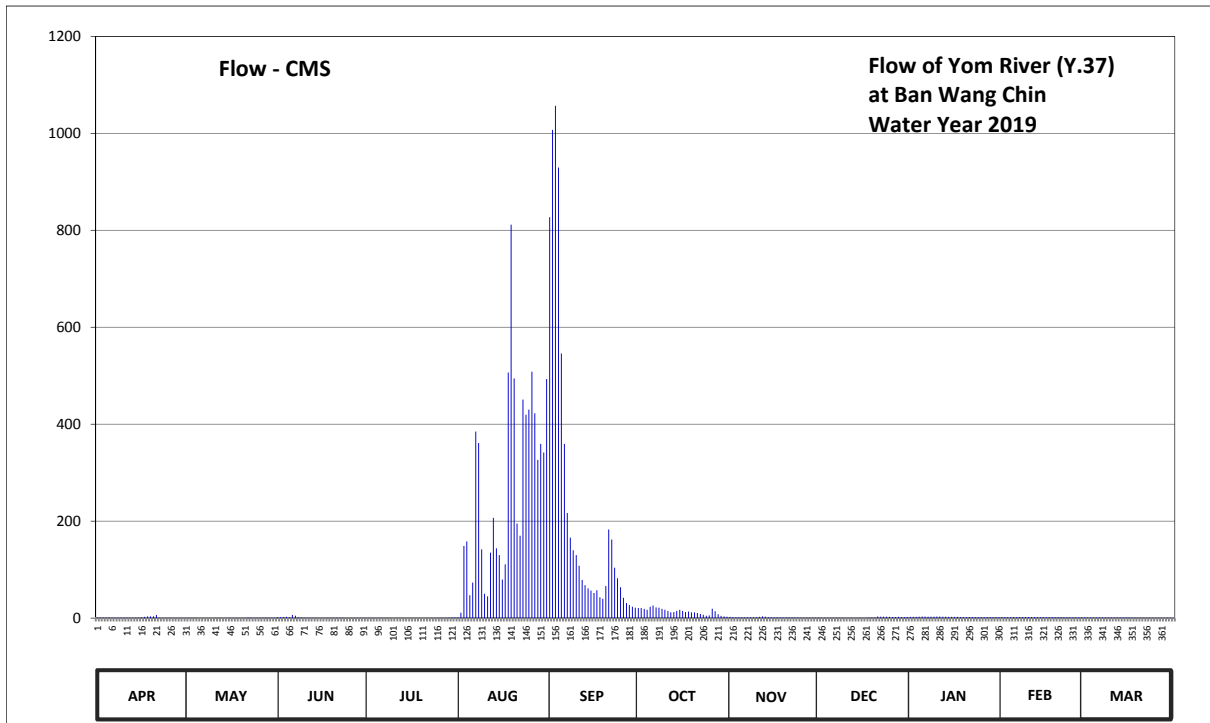
Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

	<b>Ban Wang Chin</b>	<b>Amphoe Wang Chin</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	10,305 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+92.280 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+105.250 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 39 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.27	93.87	94.40	93.88	94.38	100.87	94.78	94.43	94.12	94.64	94.50	94.40	
2	94.26	93.82	94.41	93.86	94.62	101.85	94.78	94.40	94.11	94.68	94.50	94.38	
3	94.25	93.80	94.40	93.85	96.24	102.11	94.75	94.38	94.10	94.67	94.49	94.38	
4	94.23	93.81	94.43	93.82	96.33	101.43	94.72	94.35	94.09	94.72	94.50	94.38	
5	94.23	93.79	94.34	93.82	95.15	99.24	94.82	94.35	94.08	94.80	94.58	94.37	
6	94.22	93.78	94.53	93.88	95.47	98.03	94.86	94.36	94.08	94.78	94.58	94.37	
7	94.21	93.76	94.50	93.88	98.20	96.92	94.80	94.35	94.08	94.76	94.58	94.37	
8	94.20	93.76	94.36	93.90	98.04	96.41	94.79	94.35	94.07	94.75	94.58	94.36	
9	94.19	93.76	94.25	93.84	96.17	96.15	94.75	94.38	94.02	94.76	94.58	94.35	
10	94.18	93.75	94.14	93.78	95.19	96.05	94.72	94.36	93.93	94.77	94.58	94.34	
11	94.17	93.78	94.07	93.78	95.12	95.83	94.68	94.43	93.94	94.77	94.58	94.34	
12	94.17	93.78	94.00	93.75	96.10	95.53	94.63	94.46	94.00	94.75	94.56	94.32	
13	94.14	93.78	93.99	93.73	96.82	95.41	94.64	94.44	93.98	94.73	94.55	94.30	
14	94.16	93.76	93.99	93.70	96.19	95.33	94.68	94.41	93.93	94.69	94.53	94.28	
15	94.21	93.77	93.97	93.68	96.05	95.27	94.72	94.37	93.99	94.65	94.52	94.28	
16	94.34	93.84	93.96	93.68	95.54	95.21	94.68	94.34	93.97	94.67	94.51	94.28	
17	94.43	93.88	93.95	93.68	95.86	95.28	94.64	94.33	94.09	94.66	94.51	94.24	
18	94.46	93.86	94.02	93.68	99.01	95.09	94.66	94.31	94.30	94.59	94.50	94.23	
19	94.46	93.86	94.06	93.68	100.78	95.05	94.63	94.28	94.31	94.54	94.50	94.22	
20	94.46	93.86	94.06	93.66	98.93	95.39	94.63	94.26	94.38	94.53	94.49	94.21	
21	94.53	93.90	94.04	93.65	96.70	96.58	94.61	94.26	94.79	94.56	94.49	94.19	
22	94.06	94.29	94.04	93.72	96.45	96.37	94.57	94.25	94.76	94.57	94.48	94.17	
23	93.89	94.15	94.01	93.88	98.64	95.79	94.54	94.25	94.73	94.56	94.47	94.16	
24	93.87	94.06	93.97	93.95	98.43	95.57	94.50	94.21	94.74	94.55	94.46	94.15	
25	93.85	94.08	93.93	93.97	98.50	95.36	94.51	94.19	94.65	94.54	94.45	94.14	
26	93.84	94.07	93.88	93.99	99.02	95.08	94.76	94.18	94.58	94.53	94.43	94.13	
27	93.82	94.15	93.87	94.04	98.45	94.93	94.67	94.17	94.61	94.53	94.42	94.07	
28	93.80	94.25	93.85	94.10	97.81	94.87	94.56	94.15	94.64	94.52	94.41	93.99	
29	93.95	94.14	93.86	94.19	98.03	94.82	94.49	94.13	94.62	94.51	94.40	94.01	
30	93.92	94.07	93.86	94.26	97.91	94.79	94.46	94.13	94.61	94.51	94.40	94.05	
31		94.09		94.30	98.92		94.44		94.60	94.50		94.05	
Mean	94.16	93.91	94.10	93.86	97.07	96.55	94.66	94.31	94.29	94.64	94.51	94.24	
Max	94.53	94.29	94.53	94.30	100.78	102.11	94.86	94.46	94.79	94.80	94.58	94.40	102.11
Min	93.80	93.75	93.85	93.65	94.38	94.79	94.44	94.13	93.93	94.50	94.40	93.99	93.65
Annual Max Momentary Gage Height	102.29		m. (MSL.) ,			at 23.00 Hours ,			on Sep 3 , 2019				
Zero Gage at Bottom Elevation	92.28		m. (MSL.) ,			River Bed	91.89		m. (MSL.)				
Left Bank Elevation		105.39		m. (MSL.) ,									
Right Bank Elevation		106.47		m. (MSL.) ,		Drainage Are	10,305		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	0.26	1.80	0.27	1.72	827.25	20.80	2.76	0.81	2.50	1.90	1.50		
2	1.26	0.18	2.12	0.24	11.20	1007.25	20.80	1.80	0.78	2.70	1.90	1.44		
3	1.23	0.15	1.80	0.23	149.00	1057.00	19.00	1.72	0.75	2.65	1.86	1.44		
4	1.16	0.17	2.76	0.18	158.00	929.55	17.20	1.60	0.73	2.90	1.90	1.44		
5	1.16	0.14	1.56	0.18	47.25	545.80	23.40	1.60	0.70	3.30	2.22	1.41		
6	1.12	0.13	6.50	0.27	73.30	359.50	26.20	1.64	0.70	3.20	2.22	1.41		
7	1.09	0.11	5.00	0.27	385.00	217.00	22.00	1.60	0.70	3.10	2.22	1.41		
8	1.05	0.11	1.64	0.30	361.00	166.00	21.40	1.60	0.68	3.05	2.22	1.38		
9	1.02	0.11	1.23	0.21	142.00	140.00	19.00	1.72	0.55	3.10	2.22	1.35		
10	0.99	0.10	0.87	0.13	50.25	130.00	17.20	1.64	0.36	3.15	2.22	1.32		
11	0.96	0.13	0.68	0.13	45.00	108.00	14.80	2.76	0.38	3.15	2.22	1.32		
12	0.96	0.13	0.50	0.10	135.00	78.70	11.80	3.72	0.50	3.05	2.14	1.26		
13	0.87	0.13	0.48	0.08	207.00	67.90	12.40	3.08	0.46	2.95	2.10	1.20		
14	0.93	0.11	0.48	0.05	144.00	61.40	14.80	2.12	0.36	2.75	2.02	1.14		
15	1.09	0.12	0.44	0.04	130.00	56.60	17.20	1.68	0.48	2.55	1.98	1.14		
16	1.56	0.21	0.42	0.04	79.60	51.80	14.80	1.56	0.44	2.65	1.94	1.14		
17	2.76	0.27	0.40	0.04	111.00	57.40	12.40	1.52	0.68	2.60	1.94	1.02		
18	3.72	0.24	0.55	0.04	506.70	42.75	13.60	1.44	1.20	2.26	1.90	0.99		
19	3.72	0.24	0.65	0.04	811.50	39.75	11.80	1.33	1.23	2.06	1.90	0.96		
20	3.72	0.24	0.65	0.03	494.50	66.20	11.80	1.26	1.44	2.02	1.86	0.93		
21	6.50	0.30	0.60	0.03	195.00	183.00	10.60	1.26	3.25	2.14	1.86	0.88		
22	0.65	1.37	0.60	0.07	170.00	162.00	8.50	1.23	3.10	2.18	1.82	0.84		
23	0.29	0.90	0.53	0.27	451.00	104.00	7.00	1.23	2.95	2.14	1.78	0.82		
24	0.26	0.65	0.44	0.40	419.50	82.30	5.00	1.09	3.00	2.10	1.74	0.80		
25	0.23	0.70	0.36	0.44	430.00	63.80	5.50	1.02	2.55	2.06	1.70	0.78		
26	0.21	0.68	0.27	0.48	508.40	42.00	19.60	0.99	2.22	2.02	1.62	0.76		
27	0.18	0.90	0.26	0.60	422.50	31.10	14.20	0.96	2.35	2.02	1.58	0.64		
28	0.15	1.23	0.23	0.75	326.50	26.90	8.00	0.90	2.50	1.98	1.54	0.48		
29	0.40	0.87	0.24	1.02	359.50	23.40	4.68	0.84	2.40	1.94	1.50	0.52		
30	0.34	0.68	0.24	1.26	341.50	21.40	3.72	0.84	2.35	1.94		0.60		
31		0.73		1.40	493.00		3.08		2.30	1.90		0.60		
<b>Total</b>	<b>40.88</b>	<b>12.29</b>	<b>34.30</b>	<b>9.59</b>	<b>8159.92</b>	<b>6749.75</b>	<b>432.28</b>	<b>48.51</b>	<b>42.90</b>	<b>78.11</b>	<b>56.02</b>	<b>32.92</b>	<b>15697.47</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>1.36</b>	<b>0.40</b>	<b>1.14</b>	<b>0.31</b>	<b>263.22</b>	<b>224.99</b>	<b>13.94</b>	<b>1.62</b>	<b>1.38</b>	<b>2.52</b>	<b>1.93</b>	<b>1.06</b>	<b>42.89</b>	<b>CMS</b>
<b>Max</b>	<b>6.50</b>	<b>1.37</b>	<b>6.50</b>	<b>1.40</b>	<b>811.50</b>	<b>1057.00</b>	<b>26.20</b>	<b>3.72</b>	<b>3.25</b>	<b>3.30</b>	<b>2.22</b>	<b>1.50</b>	<b>1057.00</b>	<b>CMS</b>
<b>Min</b>	<b>0.15</b>	<b>0.10</b>	<b>0.23</b>	<b>0.03</b>	<b>1.72</b>	<b>21.40</b>	<b>3.08</b>	<b>0.84</b>	<b>0.36</b>	<b>1.90</b>	<b>1.50</b>	<b>0.48</b>	<b>0.03</b>	<b>CMS</b>
<b>Runoff</b>	<b>3.53</b>	<b>1.06</b>	<b>2.96</b>	<b>0.83</b>	<b>705.02</b>	<b>583.18</b>	<b>37.35</b>	<b>4.19</b>	<b>3.71</b>	<b>6.75</b>	<b>4.84</b>	<b>2.84</b>	<b>1356.26</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1093.00 CMS. at 102.29 m. (MSL.) at 23.00 Hours , on Sep 3, 2019</b>													
<b>Runoff Yield</b>	<b>4.17 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 106.05</b>			<b>Liters/Second/Square KM.</b>							



## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham , Phrae (Y.38)

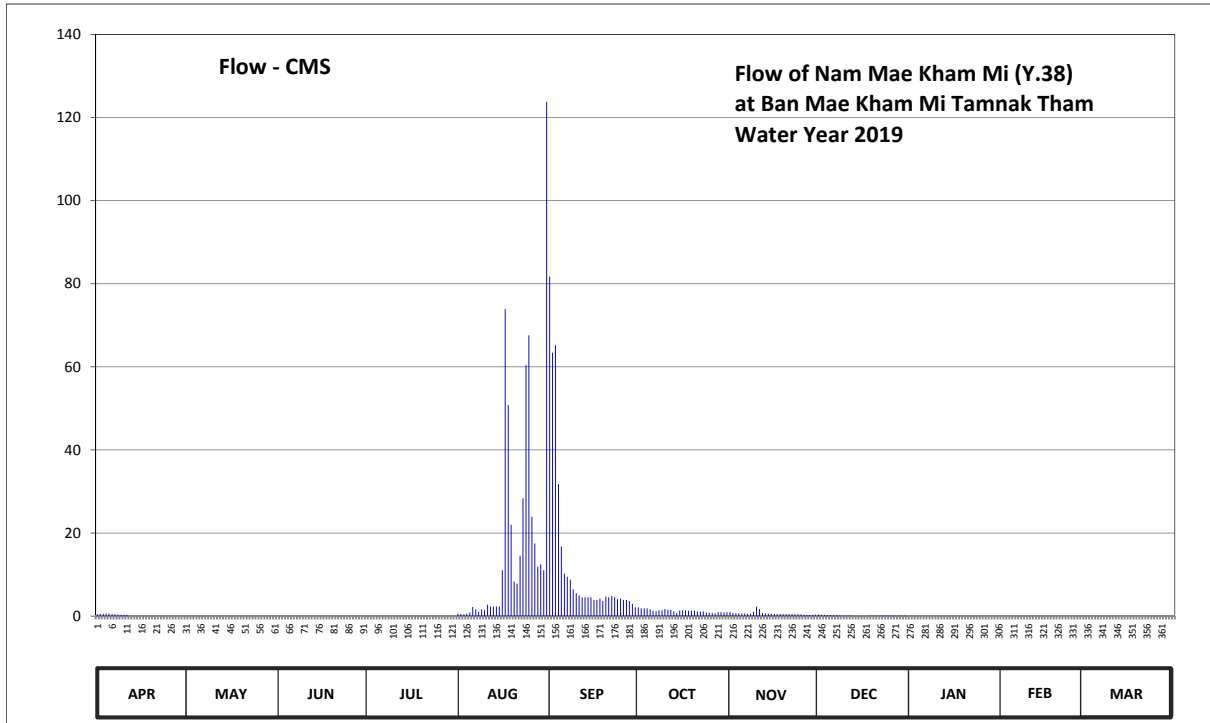
Lat 18 - 15 - 54 N Long 100 - 14 - 28 E

Location : on right bank at the bridge on road.

<b>Ban</b>	Mae Kham Mi Tamnak Thar	<b>Amphoe</b>	Nong Muang Khai	<b>Changwat</b>	Phrae
<b>Drainage Area</b>	452 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+170.100 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.			<b>Elevation</b>	+179.900 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1999 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1999 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1999 to date				
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 34 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

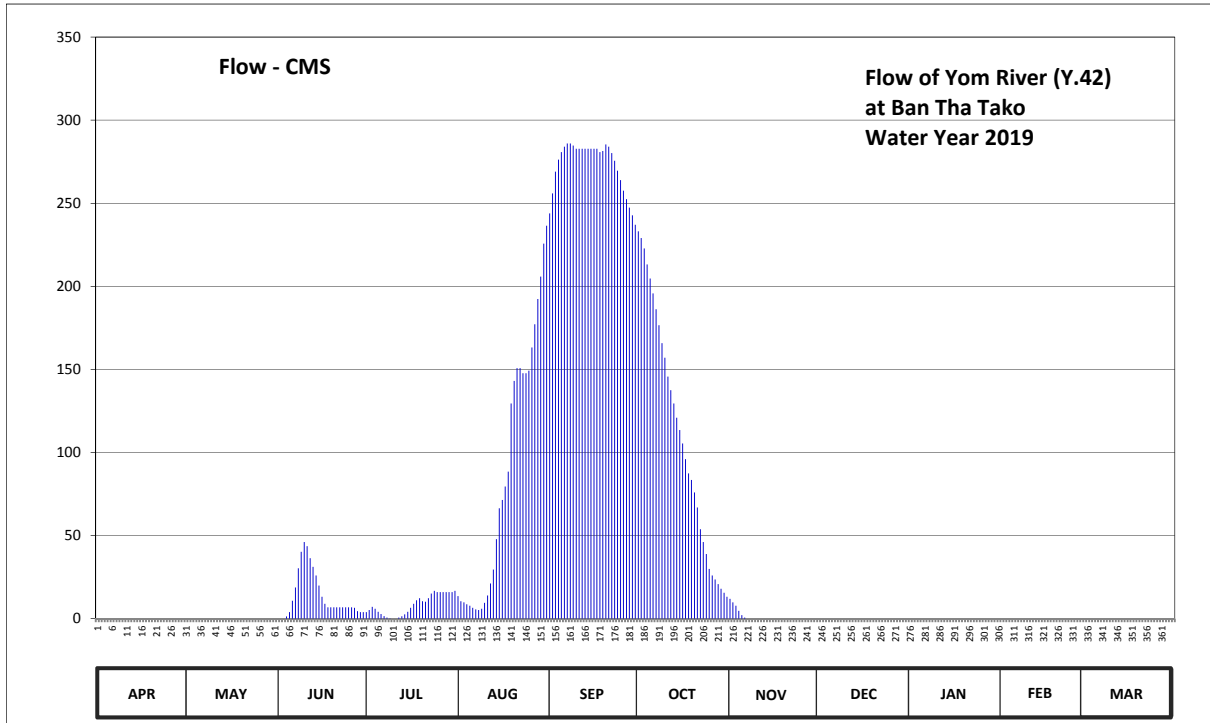
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.78	170.72	170.74	170.75	170.84	172.98	171.06	170.92	170.76	170.65	170.66	170.64	
2	170.82	170.72	170.74	170.75	170.81	172.69	171.04	170.86	170.74	170.65	170.64	170.64	
3	170.82	170.72	170.74	170.77	170.78	172.72	171.04	170.85	170.74	170.64	170.64	170.64	
4	170.84	170.72	170.74	170.77	170.82	172.10	171.04	170.85	170.72	170.64	170.64	170.64	
5	170.83	170.72	170.74	170.75	170.89	171.72	171.01	170.85	170.72	170.64	170.64	170.66	
6	170.78	170.72	170.74	170.76	171.07	171.50	170.96	170.84	170.69	170.67	170.64	170.66	
7	170.79	170.73	170.72	170.75	171.01	171.47	170.94	170.82	170.70	170.64	170.64	170.66	
8	170.76	170.73	170.72	170.76	170.92	171.44	170.98	170.83	170.68	170.64	170.64	170.66	
9	170.74	170.73	170.72	170.76	171.01	171.34	170.99	170.92	170.64	170.64	170.64	170.64	
10	170.74	170.73	170.72	170.76	170.99	171.30	171.02	171.08	170.64	170.64	170.64	170.64	
11	170.73	170.72	170.72	170.74	171.12	171.27	171.00	171.02	170.64	170.64	170.65	170.64	
12	170.73	170.72	170.72	170.76	171.08	171.24	171.00	170.87	170.63	170.64	170.65	170.64	
13	170.73	170.72	170.72	170.76	171.08	171.24	170.94	170.84	170.60	170.64	170.64	170.64	
14	170.73	170.72	170.72	170.76	171.08	171.24	170.87	170.82	170.60	170.64	170.64	170.64	
15	170.73	170.72	170.72	170.75	171.08	171.24	170.98	170.82	170.60	170.64	170.64	170.65	
16	170.73	170.72	170.72	170.75	171.53	171.20	170.98	170.81	170.60	170.64	170.64	170.65	
17	170.73	170.72	170.72	170.75	172.86	171.20	170.98	170.80	170.60	170.64	170.64	170.65	
18	170.73	170.72	170.72	170.74	172.48	171.22	170.97	170.80	170.61	170.64	170.64	170.65	
19	170.73	170.72	170.72	170.74	171.86	171.18	170.97	170.80	170.64	170.64	170.64	170.65	
20	170.73	170.72	170.74	170.74	171.42	171.25	170.97	170.80	170.64	170.64	170.64	170.65	
21	170.73	170.74	170.74	170.74	171.40	171.24	170.94	170.82	170.64	170.64	170.65	170.65	
22	170.72	170.72	170.74	170.74	171.65	171.26	170.93	170.80	170.64	170.65	170.64	170.65	
23	170.72	170.72	170.74	170.74	172.02	171.24	170.94	170.78	170.66	170.65	170.64	170.65	
24	170.72	170.72	170.74	170.76	172.64	171.21	170.90	170.78	170.64	170.65	170.64	170.65	
25	170.72	170.75	170.74	170.76	172.76	171.22	170.88	170.77	170.64	170.65	170.64	170.65	
26	170.72	170.74	170.74	170.76	171.91	171.20	170.86	170.74	170.64	170.66	170.64	170.65	
27	170.72	170.73	170.74	170.78	171.74	171.20	170.84	170.74	170.64	170.66	170.64	170.65	
28	170.72	170.74	170.75	170.76	171.56	171.18	170.91	170.72	170.64	170.66	170.64	170.65	
29	170.72	170.72	170.75	170.76	171.58	171.13	170.91	170.73	170.64	170.66	170.64	170.65	
30	170.72	170.72	170.75	170.76	171.53	171.06	170.90	170.76	170.64	170.66	170.64	170.65	
31		170.74		170.79	173.57		170.91		170.66	170.66		170.65	
Mean	170.75	170.73	170.73	170.76	171.52	171.45	170.96	170.83	170.65	170.65	170.64	170.65	
Max	170.84	170.75	170.75	170.79	173.57	172.98	171.06	171.08	170.76	170.67	170.66	170.66	173.57
Min	170.72	170.72	170.72	170.74	170.78	171.06	170.84	170.72	170.60	170.64	170.64	170.64	170.60
Annual Max Momentary Gage Height	175.50		m. (MSL.) ,				at 19.00 Hours ,						
Zero Gage at Bottom Elevation	170.10		m. (MSL.) ,			River Bed	170.50		m. (MSL.)				
Left Bank Elevation		180.13		m. (MSL.) ,									
Right Bank Elevation		180.12		m. (MSL.) ,		Drainage Are	452		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.00	0.00	0.00	0.66	81.70	2.10	1.02	0.38	0.00	0.00	0.00	
2	0.58	0.00	0.00	0.00	0.54	63.40	1.90	0.74	0.32	0.00	0.00	0.00	
3	0.58	0.00	0.00	0.00	0.44	65.20	1.90	0.70	0.32	0.00	0.00	0.00	
4	0.66	0.00	0.00	0.00	0.58	31.75	1.90	0.70	0.26	0.00	0.00	0.00	
5	0.62	0.00	0.00	0.00	0.86	16.74	1.60	0.70	0.26	0.00	0.00	0.00	
6	0.44	0.00	0.00	0.00	2.20	10.20	1.26	0.66	0.19	0.00	0.00	0.00	
7	0.47	0.00	0.00	0.00	1.60	9.48	1.14	0.58	0.20	0.00	0.00	0.00	
8	0.38	0.00	0.00	0.00	1.02	8.76	1.38	0.62	0.17	0.00	0.00	0.00	
9	0.32	0.00	0.00	0.00	1.60	6.42	1.44	1.02	0.11	0.00	0.00	0.00	
10	0.32	0.00	0.00	0.00	1.44	5.50	1.70	2.30	0.11	0.00	0.00	0.00	
11	0.29	0.00	0.00	0.00	2.78	5.02	1.50	1.70	0.11	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	2.30	4.54	1.50	0.78	0.10	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	2.30	4.54	1.14	0.66	0.05	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	2.30	4.54	0.78	0.58	0.05	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	2.30	4.54	1.38	0.58	0.05	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	11.04	3.90	1.38	0.54	0.05	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	73.90	3.90	1.38	0.50	0.05	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	50.80	4.22	1.32	0.50	0.07	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	21.98	3.62	1.32	0.50	0.11	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	8.28	4.70	1.32	0.50	0.11	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	7.80	4.54	1.14	0.50	0.11	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	14.50	4.86	1.08	0.50	0.11	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	28.35	4.54	1.14	0.44	0.14	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	60.40	4.06	0.90	0.44	0.11	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	67.60	4.22	0.82	0.41	0.11	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	23.90	3.90	0.74	0.32	0.11	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	17.48	3.90	0.66	0.32	0.11	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	11.88	3.62	0.96	0.26	0.11	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	12.44	2.92	0.96	0.29	0.11	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	11.04	2.10	0.90	0.38	0.11	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	123.75		0.96		0.00	0.00	0.00	0.00	
<b>Total</b>	5.10	0.00	0.00	0.00	568.06	381.33	39.60	19.74	4.20	0.00	0.00	0.00	1018.03 CMSDAY
<b>Mean</b>	0.17	0.00	0.00	0.00	18.32	12.71	1.28	0.66	0.14	0.00	0.00	0.00	2.78 CMS
<b>Max</b>	0.66	0.00	0.00	0.00	123.75	81.70	2.10	2.30	0.38	0.00	0.00	0.00	123.75 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.44	2.10	0.66	0.26	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.44	0.00	0.00	0.00	49.08	32.95	3.42	1.71	0.36	0.00	0.00	0.00	87.96 MCM
<b>Momentary Peak</b>	296.50 CMS. at 175.50 m. (MSL.) at 19.00 Hours , on Aug 31, 2019												
<b>Runoff Yield</b>	6.17 Liters/Second/Square KM.			Momentary Peak Yield			655.97 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	4.00	13.60	243.93	233.10	12.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	5.20	10.50	255.90	229.11	9.90	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	7.20	9.90	269.01	222.84	7.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	1.40	6.00	8.70	276.25	213.19	4.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	4.00	4.20	7.80	280.80	204.75	2.20	0.00	0.00	0.00	0.00	
6	0.00	0.00	10.80	2.80	6.60	284.05	195.75	0.70	0.00	0.00	0.00	0.00	
7	0.00	0.00	18.80	1.60	5.60	286.00	186.19	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	30.40	0.70	5.20	286.00	176.63	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	40.25	0.20	6.00	284.70	165.83	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	46.20	0.00	9.60	282.75	157.05	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	43.65	0.00	14.00	282.75	145.68	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	36.43	0.70	21.20	282.75	137.50	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	31.20	1.50	29.60	282.75	129.50	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	26.00	2.60	47.90	282.75	121.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	20.00	4.20	66.50	282.75	113.50	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	13.20	6.60	71.45	282.75	105.50	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	9.00	9.00	79.55	282.75	96.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	6.90	11.10	88.50	280.80	87.50	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	6.90	12.40	129.50	281.45	83.50	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	6.90	10.50	143.10	285.35	75.95	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	6.90	10.20	150.85	284.05	66.95	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	6.90	12.40	150.85	280.15	53.90	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	6.90	15.20	147.75	275.60	46.20	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	6.90	16.80	147.75	269.58	38.98	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	6.90	16.00	149.30	263.88	30.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	6.90	16.00	163.25	257.61	26.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	6.60	16.00	177.19	252.48	23.60	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	4.60	16.00	192.38	247.35	20.80	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	4.00	16.00	205.88	242.79	18.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	4.00	16.00	225.69	237.09	15.60	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00		16.80	236.52		13.20		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	412.63	257.90	2722.21	8186.82	3433.30	37.40	0.00	0.00	0.00	0.00	15050.26 CMSDAY
<b>Mean</b>	0.00	0.00	13.75	8.32	87.81	272.89	110.75	1.25	0.00	0.00	0.00	0.00	41.12 CMS
<b>Max</b>	0.00	0.00	46.20	16.80	236.52	286.00	233.10	12.00	0.00	0.00	0.00	0.00	286.00 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	5.20	237.09	13.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	35.65	22.28	235.20	707.34	296.64	3.23	0.00	0.00	0.00	0.00	1300.34 MCM
<b>Momentary Peak</b>	286.65	CMS.	at 7.21 m. (A.D.)	at 18.00 Hours	on Sep 20, 2019								
<b>Runoff Yield</b>	1.81	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	12.60	Liters/Second/Square KM.						

## WATER YEAR : 2019

## YOM RIVER BASIN

## Yom River at Ban Bang Rakam , Phitsanulok (Y.64)

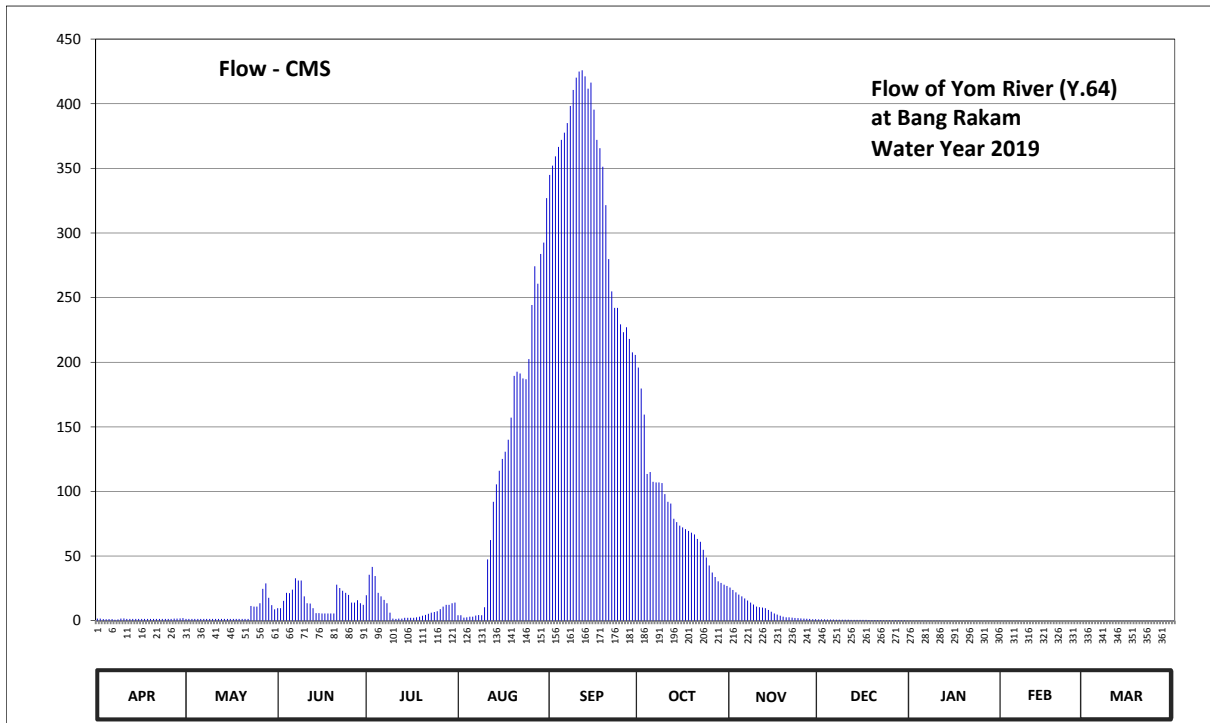
Lat 16 - 45 - 43 N Long 100 - 07 - 16 E

Location : on right bank at Bang Rakam

	<b>Ban</b>	Bang Rakam	<b>Amphoe</b>	Bang Rakam	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	21,059	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+32.514	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the gage observers house.				<b>Elevation</b>	+43.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	2017 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2017 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2017 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +39.150 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records good.Stage-discharge relation defined by 19 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.00	31.96	32.56	32.94	32.29	38.56	36.66	33.14	31.87	31.54	31.33	31.26	
2	32.00	31.96	32.56	33.44	32.29	38.64	36.41	33.08	31.86	31.53	31.33	31.26	
3	31.91	31.96	32.78	33.61	32.13	38.72	36.06	33.02	31.85	31.52	31.33	31.28	
4	31.89	31.96	33.01	33.41	32.15	38.80	35.22	32.96	31.84	31.51	31.33	31.28	
5	31.91	31.96	33.00	33.01	32.21	38.86	35.25	32.91	31.83	31.50	31.32	31.31	
6	31.93	31.96	33.09	32.91	32.21	38.92	35.10	32.85	31.82	31.49	31.32	31.31	
7	31.81	31.96	33.36	32.81	32.27	39.00	35.09	32.79	31.81	31.48	31.32	31.34	
8	31.86	31.96	33.31	32.71	32.30	39.14	35.09	32.73	31.80	31.47	31.31	31.34	
9	32.01	31.96	33.31	32.41	32.29	39.27	35.08	32.67	31.79	31.46	31.31	31.34	
10	32.03	31.96	32.91	32.01	32.59	39.37	34.91	32.61	31.78	31.45	31.31	31.36	
11	31.96	31.96	32.71	31.96	33.76	39.42	34.79	32.59	31.77	31.44	31.30	31.36	
12	31.96	31.96	32.70	32.01	34.14	39.43	34.76	32.58	31.76	31.43	31.30	31.36	
13	31.96	31.96	32.56	32.01	34.79	39.38	34.51	32.56	31.75	31.42	31.30	31.39	
14	31.96	31.96	32.39	32.11	35.06	39.28	34.45	32.50	31.74	31.41	31.29	31.39	
15	31.96	31.96	32.39	32.11	35.27	39.33	34.39	32.44	31.73	31.40	31.29	31.39	
16	31.96	31.96	32.38	32.11	35.45	39.11	34.36	32.38	31.72	31.39	31.29	31.39	
17	31.96	31.96	32.38	32.11	35.55	38.86	34.33	32.32	31.71	31.38	31.29	31.39	
18	31.96	31.96	32.38	32.16	35.72	38.79	34.30	32.26	31.70	31.37	31.28	31.41	
19	31.96	31.96	32.38	32.21	36.02	38.63	34.27	32.21	31.69	31.37	31.28	31.41	
20	31.96	31.96	32.38	32.26	36.56	38.30	34.24	32.15	31.68	31.37	31.28	31.41	
21	31.96	31.96	33.21	32.31	36.61	37.81	34.16	32.15	31.66	31.36	31.27	31.41	
22	31.96	31.96	33.13	32.36	36.59	37.49	34.11	32.12	31.65	31.36	31.27	31.41	
23	31.96	32.63	33.06	32.41	36.53	37.32	33.95	32.09	31.64	31.36	31.27	31.41	
24	31.96	32.61	33.01	32.43	36.52	37.32	33.80	32.07	31.63	31.36	31.27	31.41	
25	31.96	32.61	32.95	32.46	36.76	37.15	33.64	32.04	31.62	31.36	31.26	31.41	
26	31.96	32.71	32.73	32.53	37.35	37.07	33.49	32.01	31.60	31.35	31.26	31.41	
27	32.01	33.11	32.73	32.61	37.74	37.12	33.39	31.99	31.59	31.35	31.26	31.41	
28	32.01	33.24	32.80	32.66	37.57	37.00	33.29	31.96	31.58	31.35	31.26	31.41	
29	32.03	32.87	32.71	32.66	37.86	36.84	33.25	31.89	31.57	31.34	31.26	31.41	
30	32.07	32.65	32.66	32.71	37.97	36.81	33.21	31.88	31.56	31.34	31.26	31.41	
31		32.52		32.73	38.36		33.18		31.55	31.34		31.41	
Mean	31.96	32.20	32.78	32.52	35.00	38.39	34.48	32.43	31.71	31.41	31.29	31.37	
Max	32.07	33.24	33.36	33.61	38.36	39.43	36.66	33.14	31.87	31.54	31.33	31.41	39.43
Min	31.81	31.96	32.38	31.96	32.13	36.81	33.18	31.88	31.55	31.34	31.26	31.26	31.26
Annual Max Momentary Gage Height	39.43		m. (MSL.) ,			at 23.00 Hours ,	on Sep 11 , 2019						
Zero Gage at Bottom Elevation	32.51		m. (MSL.) ,			River Bed	30.47	m. (MSL.)					
Left Bank Elevation		40.08		m. (MSL.) ,									
Right Bank Elevation		39.14		m. (MSL.) ,		Drainage Are	21,059	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	1.44	9.74	19.68	4.26	344.90	195.90	25.68	1.08	0.34	0.13	0.06	
2	1.60	1.44	9.74	35.56	4.26	352.10	179.65	23.78	1.04	0.33	0.13	0.06	
3	1.24	1.44	15.38	41.59	2.44	359.30	159.45	21.92	1.00	0.32	0.13	0.08	
4	1.16	1.44	21.61	34.54	2.60	366.50	113.50	20.22	0.96	0.31	0.13	0.08	
5	1.24	1.44	21.30	21.61	3.14	372.05	115.00	18.87	0.92	0.30	0.12	0.11	
6	1.32	1.44	24.09	18.87	3.14	377.60	107.50	17.25	0.88	0.29	0.12	0.11	
7	0.84	1.44	32.84	16.17	3.98	385.00	107.00	15.64	0.84	0.28	0.12	0.14	
8	1.04	1.44	31.14	13.56	4.40	398.30	107.00	14.08	0.80	0.27	0.11	0.14	
9	1.66	1.44	31.14	6.23	4.26	410.65	106.50	12.52	0.78	0.26	0.11	0.14	
10	1.78	1.44	18.87	1.66	10.46	420.15	98.00	10.96	0.76	0.25	0.11	0.16	
11	1.44	1.44	13.56	1.44	47.44	424.90	92.03	10.46	0.74	0.24	0.10	0.16	
12	1.44	1.44	13.30	1.66	62.42	425.85	90.60	10.22	0.72	0.23	0.10	0.16	
13	1.44	1.44	9.74	1.66	92.03	421.10	78.95	9.74	0.70	0.22	0.10	0.19	
14	1.44	1.44	5.84	2.28	105.50	411.60	76.25	8.30	0.68	0.21	0.09	0.19	
15	1.44	1.44	5.84	2.28	116.00	416.35	73.55	6.92	0.66	0.20	0.09	0.19	
16	1.44	1.44	5.68	2.28	125.25	395.45	72.20	5.68	0.64	0.19	0.09	0.19	
17	1.44	1.44	5.68	2.28	130.75	372.05	70.85	4.72	0.62	0.18	0.09	0.19	
18	1.44	1.44	5.68	2.68	140.10	365.60	69.50	3.84	0.60	0.17	0.08	0.21	
19	1.44	1.44	5.68	3.14	157.15	351.20	68.15	3.14	0.58	0.17	0.08	0.21	
20	1.44	1.44	5.68	3.84	189.40	321.50	66.80	2.60	0.56	0.17	0.08	0.21	
21	1.44	1.44	27.92	4.56	192.65	279.80	63.28	2.60	0.52	0.16	0.07	0.21	
22	1.44	1.44	25.36	5.36	191.35	254.75	61.13	2.36	0.50	0.16	0.07	0.21	
23	1.44	11.48	23.16	6.23	187.45	242.00	54.85	2.14	0.48	0.16	0.07	0.21	
24	1.44	10.96	21.61	6.69	186.80	242.00	49.00	2.02	0.46	0.16	0.07	0.21	
25	1.44	10.96	19.95	7.38	202.40	229.25	42.76	1.84	0.44	0.16	0.06	0.21	
26	1.44	13.56	14.08	9.02	244.25	223.25	37.26	1.66	0.40	0.15	0.06	0.21	
27	1.66	24.72	14.08	10.96	274.20	227.00	33.86	1.56	0.39	0.15	0.06	0.21	
28	1.66	28.88	15.90	12.26	260.75	218.00	30.48	1.44	0.38	0.15	0.06	0.21	
29	1.78	17.79	13.56	12.26	283.80	207.60	29.20	1.16	0.37	0.14	0.06	0.21	
30	2.02	12.00	12.26	13.56	292.60	205.65	27.92	1.12	0.36	0.14	0.06	0.21	
31		8.78		14.08	326.90		26.96		0.35	0.14		0.21	
Total	43.64	170.81	480.41	335.37	3852.13	10021.45	2505.08	264.44	20.21	6.60	2.69	5.29	17708.12 CMSDAY
Mean	1.45	5.51	16.01	10.82	124.26	334.05	80.81	8.81	0.65	0.21	0.09	0.17	48.38 CMS
Max	2.02	28.88	32.84	41.59	326.90	425.85	195.90	25.68	1.08	0.34	0.13	0.21	425.85 CMS
Min	0.84	1.44	5.68	1.44	2.44	205.65	26.96	1.12	0.35	0.14	0.06	0.06	0.06 CMS
Runoff	3.77	14.76	41.51	28.98	332.82	865.85	216.44	22.85	1.75	0.57	0.23	0.46	1529.98 MCM
Momentary Peak	425.85 CMS. at 39.43 m. (MSL.) at 23.00 Hours , on Sep 11 , 2019												
Runoff Yield	2.30 Liters/Second/Square KM.			Momentary Peak Yield				20.22 Liters/Second/Square KM.					

## WATER YEAR : 2019

## YOM RIVER BASIN

Nam Pi at Ban Phi Tai , Nan (Y.65)

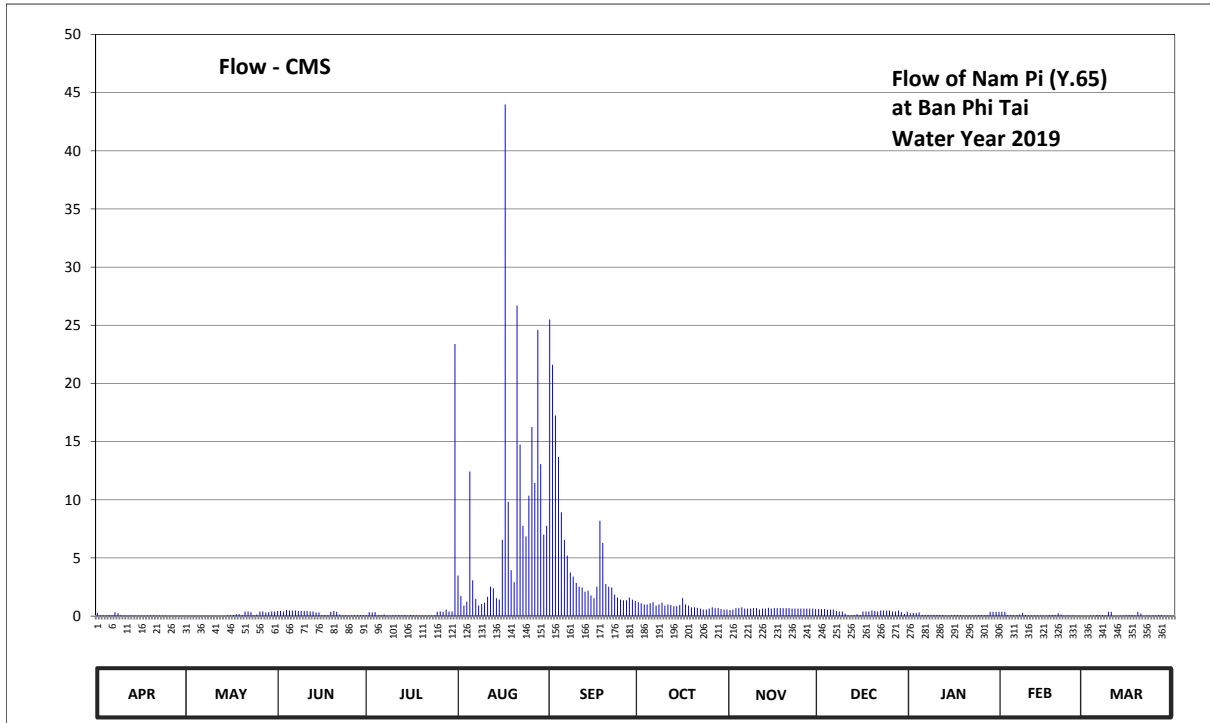
Lat 18 - 52 - 38 N Long 100 - 26 - 20 E

Location : on right bank at the bridge on road.

	<b>Ban Phi Tai</b>	<b>Amphoe Ban Luang</b>	<b>Changwat Nan</b>
<b>Drainage Area</b>	124 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+343.540 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.		<b>Elevation</b> +349.644 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	344.06	343.74	344.11	343.94	344.61	345.75	344.28	344.13	344.15	344.05	344.09	343.74	
2	343.93	343.74	344.11	344.08	344.37	345.62	344.26	344.14	344.15	344.06	344.09	343.76	
3	343.92	343.74	344.10	344.07	344.22	345.45	344.24	344.17	344.15	344.06	343.99	343.84	
4	343.93	343.74	344.13	344.08	344.29	345.29	344.24	344.17	344.14	344.07	343.99	343.87	
5	343.94	343.74	344.12	343.94	345.23	345.04	344.26	344.19	344.14	343.99	343.93	343.94	
6	343.94	343.74	344.12	343.95	344.56	344.89	344.28	344.16	344.14	343.99	343.95	343.94	
7	344.08	343.74	344.12	344.01	344.33	344.79	344.22	344.16	344.11	343.99	344.01	343.96	
8	344.05	343.74	344.11	343.89	344.22	344.64	344.24	344.16	344.10	343.99	344.06	343.89	
9	343.93	343.74	344.11	343.86	344.25	344.60	344.27	344.17	344.10	343.98	344.00	344.09	
10	343.87	343.72	344.11	343.95	344.27	344.53	344.22	344.17	344.04	343.99	343.89	344.09	
11	343.84	343.65	344.11	343.94	344.36	344.49	344.24	344.14	343.89	343.99	343.88	343.74	
12	343.89	343.65	344.10	343.94	344.49	344.48	344.23	344.16	343.92	343.94	343.86	343.76	
13	343.84	343.64	344.10	343.92	344.47	344.43	344.21	344.16	343.99	343.89	343.86	343.84	
14	343.84	343.72	344.07	343.94	344.34	344.44	344.21	344.18	344.02	343.89	343.86	343.87	
15	343.83	343.87	344.07	343.91	344.32	344.38	344.23	344.16	343.98	343.93	343.89	343.94	
16	343.82	343.92	344.00	344.00	344.89	344.34	344.34	344.17	344.10	343.96	343.91	343.94	
17	343.81	343.99	344.00	343.92	346.22	344.49	344.24	344.17	344.10	343.94	343.94	343.94	
18	343.88	344.02	343.96	343.89	345.09	345.00	344.22	344.17	344.10	343.93	343.99	343.93	
19	343.86	344.02	344.09	343.89	344.66	344.87	344.19	344.17	344.12	343.91	343.99	344.09	
20	343.87	343.99	344.11	343.89	344.54	344.52	344.19	344.17	344.11	343.89	344.05	344.04	
21	343.83	344.10	344.09	343.89	345.79	344.49	344.18	344.17	344.10	343.90	344.01	343.79	
22	343.83	344.10	344.01	343.90	345.34	344.48	344.16	344.16	344.12	343.88	343.89	343.84	
23	343.84	344.08	343.89	343.90	344.97	344.39	344.14	344.16	344.12	343.93	343.87	343.87	
24	343.84	343.97	343.92	343.92	344.91	344.35	344.14	344.16	344.12	343.98	343.87	343.86	
25	343.80	344.01	343.89	344.09	345.12	344.32	344.16	344.16	344.12	343.97	343.86	343.84	
26	343.76	344.10	343.89	344.10	345.07	344.31	344.19	344.16	344.10	343.94	343.84	343.94	
27	343.74	344.10	343.92	344.09	345.18	344.31	344.17	344.16	344.10	343.99	343.82	343.92	
28	343.74	344.07	343.96	344.14	345.72	344.35	344.17	344.16	344.12	344.09	343.78	343.81	
29	343.74	344.08	343.94	344.10	345.26	344.32	344.15	344.16	344.08	344.09	343.74	343.77	
30	343.74	344.10	343.94	344.10	344.92	344.30	344.14	344.15	344.03	344.09	344.09	343.79	
31		344.10		345.68	344.97		344.14		344.09	344.09		343.78	
Mean	343.87	343.89	344.04	344.03	344.81	344.66	344.21	344.16	344.09	343.98	343.93	343.88	
Max	344.08	344.10	344.13	345.68	346.22	345.75	344.34	344.19	344.15	344.09	344.09	344.09	346.22
Min	343.74	343.64	343.89	343.86	344.22	344.30	344.14	344.13	343.89	343.88	343.74	343.74	343.64
Annual Max Momentary Gage Height	346.54		m. (MSL.) ,				at 10.00 Hours , on Aug 17 , 2019						
Zero Gage at Bottom Elevation	343.54		m. (MSL.) ,			River Bed	343.27	m. (MSL.)					
Left Bank Elevation		349.64		m. (MSL.) ,									
Right Bank Elevation		349.65		m. (MSL.) ,		Drainage Are	124	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.02	0.44	0.08	3.49	25.50	1.20	0.52	0.60	0.25	0.37	0.02	
2	0.07	0.02	0.44	0.34	1.72	21.60	1.10	0.56	0.60	0.28	0.37	0.02	
3	0.07	0.02	0.40	0.31	0.90	17.25	1.00	0.68	0.60	0.28	0.10	0.04	
4	0.07	0.02	0.52	0.34	1.25	13.69	1.00	0.68	0.56	0.31	0.10	0.05	
5	0.08	0.02	0.48	0.08	12.43	8.92	1.10	0.76	0.56	0.10	0.07	0.08	
6	0.08	0.02	0.48	0.08	3.08	6.56	1.20	0.64	0.56	0.10	0.08	0.08	
7	0.34	0.02	0.48	0.13	1.48	5.20	0.90	0.64	0.44	0.10	0.13	0.08	
8	0.25	0.02	0.44	0.06	0.90	3.76	1.00	0.64	0.40	0.10	0.28	0.06	
9	0.07	0.02	0.44	0.05	1.05	3.40	1.15	0.68	0.40	0.09	0.10	0.37	
10	0.05	0.01	0.44	0.08	1.15	2.84	0.90	0.68	0.22	0.10	0.06	0.37	
11	0.04	0.01	0.44	0.08	1.66	2.53	1.00	0.56	0.06	0.10	0.05	0.02	
12	0.06	0.01	0.40	0.08	2.53	2.46	0.95	0.64	0.07	0.08	0.05	0.02	
13	0.04	0.00	0.40	0.07	2.39	2.11	0.85	0.64	0.10	0.06	0.05	0.04	
14	0.04	0.01	0.31	0.08	1.54	2.18	0.85	0.72	0.16	0.06	0.05	0.05	
15	0.04	0.05	0.31	0.06	1.42	1.78	0.95	0.64	0.09	0.07	0.06	0.08	
16	0.04	0.07	0.10	0.10	6.56	1.54	1.54	0.68	0.40	0.08	0.06	0.08	
17	0.03	0.10	0.10	0.07	43.98	2.53	1.00	0.68	0.40	0.08	0.08	0.08	
18	0.05	0.16	0.08	0.06	9.82	8.20	0.90	0.68	0.40	0.07	0.10	0.07	
19	0.05	0.16	0.37	0.06	3.94	6.28	0.76	0.68	0.48	0.06	0.10	0.37	
20	0.05	0.10	0.44	0.06	2.92	2.76	0.76	0.68	0.44	0.06	0.25	0.22	
21	0.04	0.40	0.37	0.06	26.70	2.53	0.72	0.68	0.40	0.06	0.13	0.03	
22	0.04	0.40	0.13	0.06	14.74	2.46	0.64	0.64	0.48	0.05	0.06	0.04	
23	0.04	0.34	0.06	0.06	7.75	1.84	0.56	0.64	0.48	0.07	0.05	0.05	
24	0.04	0.09	0.07	0.07	6.85	1.60	0.56	0.64	0.48	0.09	0.05	0.05	
25	0.03	0.13	0.06	0.37	10.36	1.42	0.64	0.64	0.48	0.09	0.05	0.04	
26	0.02	0.40	0.06	0.40	16.25	1.36	0.76	0.64	0.40	0.08	0.04	0.08	
27	0.02	0.40	0.07	0.37	11.44	1.36	0.68	0.64	0.40	0.10	0.04	0.07	
28	0.02	0.31	0.08	0.56	24.60	1.60	0.68	0.64	0.48	0.37	0.03	0.03	
29	0.02	0.34	0.08	0.40	13.06	1.42	0.60	0.64	0.34	0.37	0.02	0.02	
30	0.02	0.40	0.08	0.40	7.00	1.30	0.56	0.60	0.19	0.37		0.03	
31		0.40		23.40	7.75		0.56		0.37	0.37		0.03	
<b>Total</b>	2.09	4.47	8.57	28.42	250.71	157.98	27.07	19.48	12.04	4.45	2.98	2.67	520.93 CMSDAY
<b>Mean</b>	0.07	0.14	0.29	0.92	8.09	5.27	0.87	0.65	0.39	0.14	0.10	0.09	1.42 CMS
<b>Max</b>	0.34	0.40	0.52	23.40	43.98	25.50	1.54	0.76	0.60	0.37	0.37	0.37	43.98 CMS
<b>Min</b>	0.02	0.00	0.06	0.05	0.90	1.30	0.56	0.52	0.06	0.05	0.02	0.02	0.00 CMS
<b>Runoff</b>	0.18	0.39	0.74	2.46	21.66	13.65	2.34	1.68	1.04	0.38	0.26	0.23	45.01 MCM
<b>Momentary Peak</b>	60.36	CMS. at 346.54 m. (MSL.) at 10.00 Hours , on Aug 17 , 2019											
<b>Runoff Yield</b>	11.51	Liters/Second/Square KM. Momentary Peak Yield 486.77 Liters/Second/Square KM.											



## WATER YEAR : 2019

## NAN RIVER BASIN

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

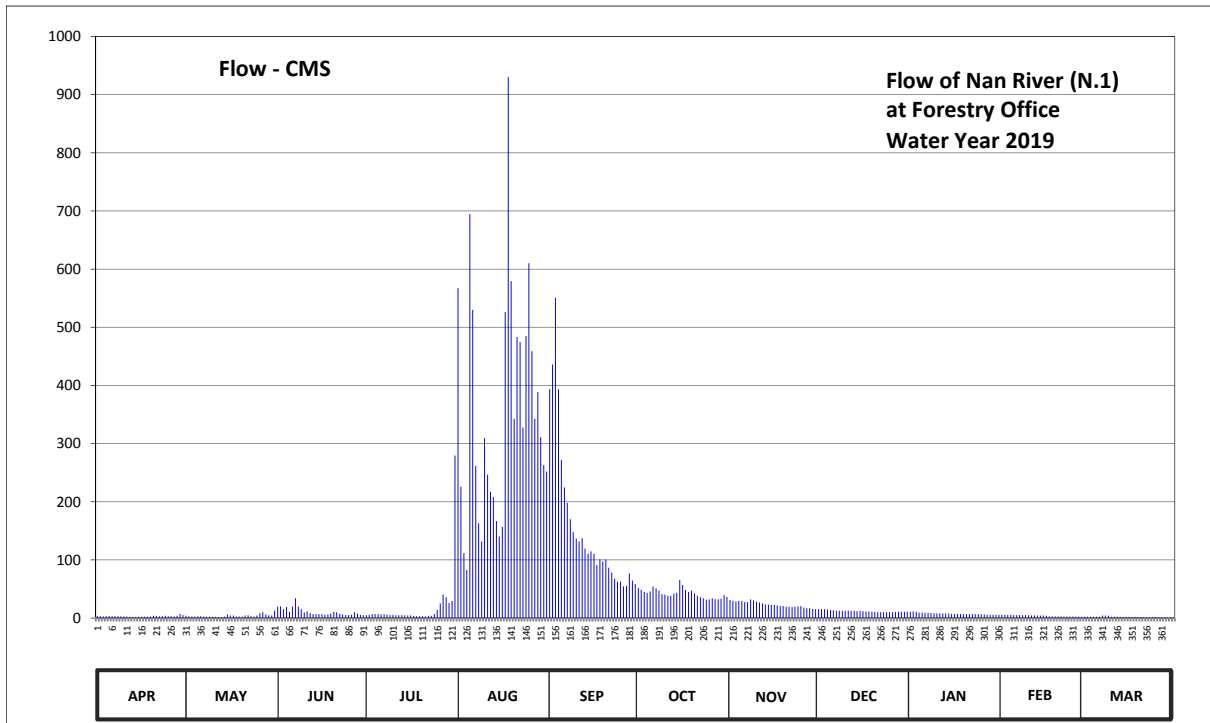
Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

	<b>Ban</b> Forestry Office	<b>Amphoe</b> Mueang	<b>Changwat</b> Nan
<b>Drainage Area</b>	4,560 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+192.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On west side of automatic gage building.	<b>Elevation</b>	+199.868 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1922 - 1956 , 1962 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1954 - 1956 , 1979 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1954 - 1956 , 1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.84	191.85	192.24	191.88	196.61	195.67	192.75	192.45	192.15	192.05	191.91	191.80	
2	191.83	191.82	192.25	191.91	194.54	195.92	192.71	192.43	192.15	192.06	191.91	191.80	
3	191.82	191.81	192.15	191.94	193.43	196.53	192.66	192.41	192.15	192.05	191.90	191.79	
4	191.83	191.81	192.23	191.94	193.11	195.67	192.64	192.43	192.14	192.01	191.90	191.79	
5	191.84	191.82	192.05	191.94	197.22	194.88	192.67	192.43	192.12	192.01	191.89	191.79	
6	191.83	191.83	192.25	191.92	196.43	194.53	192.78	192.39	192.11	192.00	191.89	191.80	
7	191.83	191.81	192.50	191.93	194.81	194.30	192.74	192.39	192.09	192.00	191.89	191.86	
8	191.83	191.80	192.24	191.91	193.96	194.03	192.69	192.47	192.09	191.99	191.88	191.86	
9	191.82	191.79	192.15	191.90	193.64	193.81	192.61	192.44	192.09	191.98	191.88	191.85	
10	191.81	191.77	192.02	191.90	195.13	193.69	192.60	192.41	192.09	191.98	191.87	191.80	
11	191.81	191.77	192.06	191.88	194.70	193.64	192.57	192.38	192.10	191.98	191.87	191.80	
12	191.80	191.76	191.99	191.88	194.47	193.70	192.57	192.35	192.09	191.97	191.87	191.80	
13	191.78	191.75	191.94	191.88	194.39	193.51	192.62	192.32	192.09	191.97	191.86	191.78	
14	191.78	191.79	191.94	191.88	194.00	193.42	192.64	192.31	192.08	191.97	191.86	191.77	
15	191.79	191.92	191.94	191.87	193.73	193.46	192.91	192.30	192.08	191.95	191.86	191.77	
16	191.79	191.86	191.93	191.87	193.90	193.42	192.81	192.30	192.07	191.95	191.85	191.77	
17	191.79	191.86	191.91	191.84	196.41	193.20	192.71	192.29	192.06	191.95	191.82	191.77	
18	191.80	191.81	191.92	191.83	198.24	193.31	192.66	192.27	192.06	191.95	191.82	191.77	
19	191.80	191.81	191.97	191.83	196.67	193.27	192.69	192.27	192.05	191.94	191.82	191.76	
20	191.85	191.81	192.05	191.83	195.35	193.31	192.63	192.24	192.04	191.94	191.82	191.76	
21	191.84	191.87	192.03	191.82	196.19	193.15	192.57	192.24	192.03	191.94	191.82	191.75	
22	191.82	191.88	191.96	191.84	196.14	193.06	192.53	192.23	192.03	191.94	191.81	191.75	
23	191.83	191.83	191.92	191.85	195.25	192.94	192.50	192.24	192.03	191.94	191.81	191.74	
24	191.85	191.81	191.89	191.95	196.20	192.88	192.46	192.25	192.03	191.94	191.81	191.74	
25	191.83	191.86	191.89	192.13	196.82	192.88	192.47	192.26	192.03	191.93	191.81	191.74	
26	191.83	191.98	191.91	192.35	196.05	192.78	192.50	192.21	192.03	191.92	191.80	191.72	
27	191.82	192.03	192.02	192.60	195.35	192.79	192.48	192.19	192.04	191.91	191.80	191.72	
28	191.84	191.92	191.97	192.53	195.64	193.04	192.47	192.19	192.05	191.90	191.80	191.71	
29	191.95	191.87	191.90	192.36	195.14	192.90	192.49	192.16	192.05	191.91	191.80	191.71	
30	191.89	191.86	191.88	192.43	194.82	192.83	192.58	192.15	192.05	191.91		191.73	
31		192.09		194.93	194.74		192.54		192.05	191.91		191.73	
Mean	191.83	191.85	192.04	192.08	195.26	193.75	192.62	192.31	192.07	191.96	191.85	191.77	
Max	191.95	192.09	192.50	194.93	198.24	196.53	192.91	192.47	192.15	192.06	191.91	191.86	198.24
Min	191.78	191.75	191.88	191.82	193.11	192.78	192.46	192.15	192.03	191.90	191.80	191.71	191.71
Annual Max Momentary Gage Height	198.54		m. (MSL.) ,				at 09.00 Hours , on Aug 18 , 2019						
Zero Gage at Bottom Elevation	192.20		m. (MSL.) ,			River Bed	188.56	m. (MSL.)					
Left Bank Elevation		204.23		m. (MSL.) ,									
Right Bank Elevation		204.15		m. (MSL.) ,		Drainage Are	4,560	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.70	4.00	19.50	4.90	567.05	393.55	52.00	31.00	15.25	11.00	5.85	2.50	
2	3.40	3.10	20.00	5.85	225.80	436.00	48.80	29.80	15.25	11.40	5.85	2.50	
3	3.10	2.80	15.25	6.90	111.85	550.65	45.00	28.60	15.25	11.00	5.50	2.35	
4	3.40	2.80	19.00	6.90	82.90	393.55	43.50	29.80	14.80	9.40	5.50	2.35	
5	3.70	3.10	11.00	6.90	694.50	272.00	45.75	29.80	13.90	9.40	5.20	2.35	
6	3.40	3.40	20.00	6.20	530.15	224.60	54.40	27.45	13.45	9.00	5.20	2.50	
7	3.40	2.80	34.00	6.55	261.50	198.00	51.20	27.45	12.60	9.00	5.20	4.30	
8	3.40	2.50	19.50	5.85	163.00	170.00	47.25	32.20	12.60	8.65	4.90	4.30	
9	3.10	2.35	15.25	5.50	131.80	148.00	41.25	30.40	12.60	8.30	4.90	4.00	
10	2.80	2.05	9.80	5.50	309.50	136.55	40.50	28.60	12.60	8.30	4.60	2.50	
11	2.80	2.05	11.40	4.90	246.50	131.80	38.55	26.90	13.00	8.30	4.60	2.50	
12	2.50	1.90	8.65	4.90	217.40	137.50	38.55	25.25	12.60	7.95	4.60	2.50	
13	2.20	1.75	6.90	4.90	207.90	119.45	42.00	23.60	12.60	7.95	4.30	2.20	
14	2.20	2.35	6.90	4.90	167.00	110.90	43.50	23.05	12.20	7.95	4.30	2.05	
15	2.35	6.20	6.90	4.60	140.35	114.70	65.35	22.50	12.20	7.25	4.30	2.05	
16	2.35	4.30	6.55	4.60	157.00	110.90	56.85	22.50	11.80	7.25	4.00	2.05	
17	2.35	4.30	5.85	3.70	526.05	91.00	48.80	22.00	11.40	7.25	3.10	2.05	
18	2.50	2.80	6.20	3.40	930.00	100.90	45.00	21.00	11.40	7.25	3.10	2.05	
19	2.50	2.80	7.95	3.40	579.35	97.30	47.25	21.00	11.00	6.90	3.10	1.90	
20	4.00	2.80	11.00	3.40	342.50	100.90	42.75	19.50	10.60	6.90	3.10	1.90	
21	3.70	4.60	10.20	3.10	483.25	86.50	38.55	19.50	10.20	6.90	3.10	1.75	
22	3.10	4.90	7.60	3.70	474.50	78.40	35.95	19.00	10.20	6.90	2.80	1.75	
23	3.40	3.40	6.20	4.00	327.50	67.90	34.00	19.50	10.20	6.90	2.80	1.60	
24	4.00	2.80	5.20	7.25	485.00	62.80	31.60	20.00	10.20	6.90	2.80	1.60	
25	3.40	4.30	5.20	14.35	610.10	62.80	32.20	20.50	10.20	6.55	2.80	1.60	
26	3.40	8.30	5.85	25.25	458.75	54.40	34.00	18.00	10.20	6.20	2.50	1.30	
27	3.10	10.20	9.80	40.50	342.50	55.20	32.80	17.05	10.60	5.85	2.50	1.30	
28	3.70	6.20	7.95	35.95	388.60	76.60	32.20	17.05	11.00	5.50	2.50	1.15	
29	7.25	4.60	5.50	25.80	311.00	64.50	33.40	15.70	11.00	5.85	2.50	1.15	
30	5.20	4.30	4.90	29.80	263.00	58.55	39.20	15.25	11.00	5.85		1.45	
31		12.60		279.50	251.90		36.60		11.00	5.85		1.45	
Total	99.40	126.35	330.00	572.95	10988.20	4705.90	1318.75	703.95	372.90	239.65	115.50	67.00	19640.55 CMSDAY
Mean	3.31	4.08	11.00	18.48	354.46	156.86	42.54	23.46	12.03	7.73	3.98	2.16	53.66 CMS
Max	7.25	12.60	34.00	279.50	930.00	550.65	65.35	32.20	15.25	11.40	5.85	4.30	930.00 CMS
Min	2.20	1.75	4.90	3.10	82.90	54.40	31.60	15.25	10.20	5.50	2.50	1.15	1.15 CMS
Runoff	8.59	10.92	28.51	49.50	949.38	406.59	113.94	60.82	32.22	20.71	9.98	5.79	1696.94 MCM
Momentary Peak	1005.00	CMS.	at 198.54 m. (MSL.)	at 09.00 Hours	, on Aug 18, 2019								
Runoff Yield	11.80	Liters/Second/Square KM.		Momentary Peak Yield	220.39	Liters/Second/Square KM.							

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Nai Mueang , Uttaradit (N.2B)

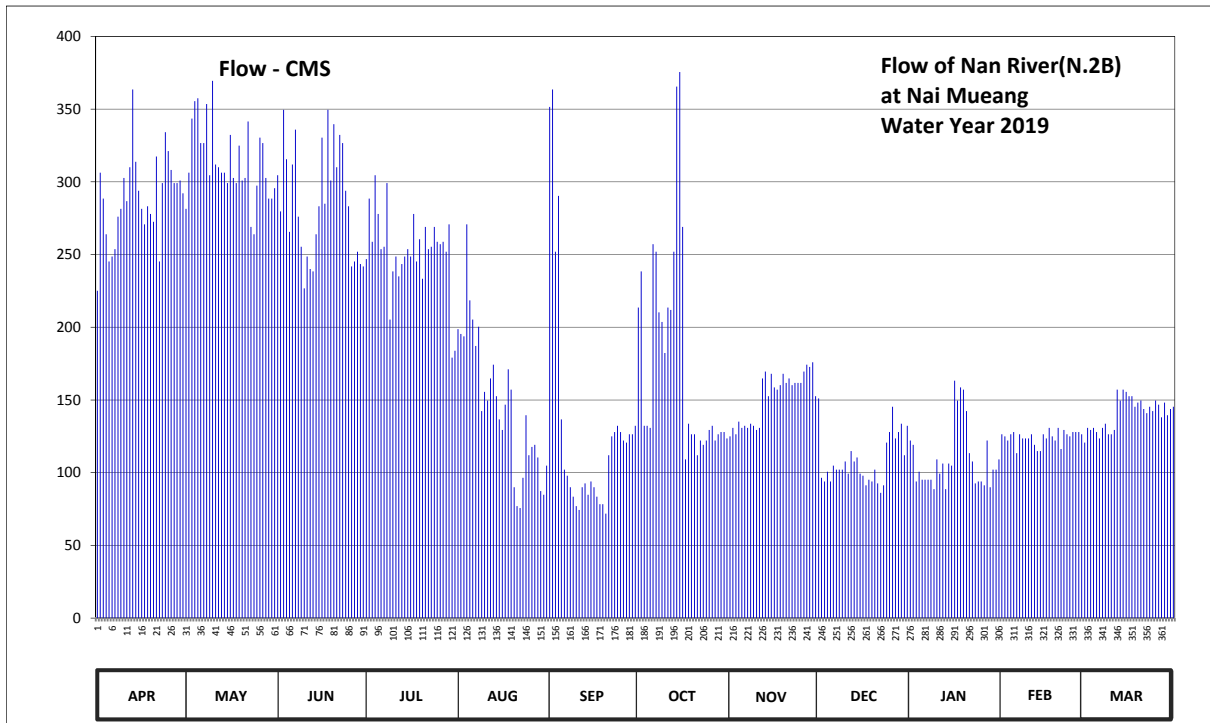
Lat 17 - 36 - 30 N Long 100 - 06 - 08 E

Location : on right bank at Mueang, Uttaradit.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Uttaradit
<b>Drainage Area</b>	16,865 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+52.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+63.138 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.34	53.67	53.80	53.47	53.18	54.05	53.27	52.70	52.88	52.68	52.71	52.67	
2	53.81	53.81	53.66	53.71	53.16	54.11	53.42	52.74	52.50	52.66	52.70	52.74	
3	53.71	54.01	54.04	53.54	53.15	53.50	52.75	52.71	52.48	52.48	52.68	52.73	
4	53.57	54.07	53.86	53.80	53.61	53.72	52.75	52.77	52.53	52.53	52.71	52.74	
5	53.46	54.08	53.58	53.65	53.30	52.78	52.74	52.74	52.48	52.49	52.72	52.72	
6	53.48	53.92	53.84	53.51	53.22	52.54	53.53	52.75	52.56	52.49	52.62	52.69	
7	53.51	53.92	53.97	53.52	53.11	52.51	53.50	52.74	52.54	52.49	52.71	52.74	
8	53.64	54.06	53.64	53.77	53.19	52.45	53.25	52.76	52.54	52.49	52.69	52.76	
9	53.67	53.80	53.52	53.22	52.82	52.40	53.21	52.75	52.54	52.44	52.69	52.71	
10	53.79	54.14	53.35	53.42	52.91	52.35	53.08	52.73	52.58	52.59	52.69	52.71	
11	53.70	53.84	53.48	53.48	52.87	52.33	53.27	52.74	52.52	52.52	52.71	52.73	
12	53.83	53.83	53.43	53.40	52.97	52.45	53.26	52.97	52.63	52.57	52.66	52.92	
13	54.11	53.81	53.42	53.45	53.03	52.47	53.50	53.00	52.58	52.44	52.63	52.87	
14	53.85	53.81	53.57	53.48	52.89	52.41	54.12	52.89	52.60	52.57	52.63	52.92	
15	53.74	53.77	53.68	53.51	52.78	52.48	54.17	52.99	52.52	52.56	52.71	52.91	
16	53.67	53.95	53.94	53.48	52.73	52.45	53.60	52.93	52.51	52.96	52.69	52.89	
17	53.61	53.79	53.69	53.65	52.85	52.40	52.59	52.92	52.46	52.87	52.74	52.89	
18	53.68	53.77	54.04	53.46	53.01	52.36	52.76	52.94	52.49	52.93	52.70	52.84	
19	53.65	53.91	53.78	53.55	52.92	52.36	52.71	52.99	52.48	52.92	52.68	52.86	
20	53.62	53.78	54.47	53.39	52.45	52.31	52.71	52.95	52.54	52.82	52.74	52.87	
21	53.87	53.79	54.33	53.60	52.35	52.61	52.61	52.97	52.47	52.62	52.64	52.83	
22	53.46	54.00	55.82	53.51	52.34	52.70	52.68	52.94	52.42	52.58	52.73	52.81	
23	53.77	53.60	54.86	53.52	52.50	52.72	52.66	52.95	52.46	52.47	52.71	52.84	
24	53.96	53.57	54.20	53.60	52.80	52.75	52.68	52.95	52.67	52.48	52.70	52.82	
25	53.89	53.76	55.59	53.54	52.61	52.72	52.73	52.95	52.72	52.48	52.72	52.87	
26	53.82	53.94	53.44	53.53	52.65	52.68	52.75	53.00	52.84	52.99	52.72	52.85	
27	53.77	53.92	53.46	53.54	52.66	52.67	52.68	53.03	52.69	52.68	52.72	52.79	
28	53.77	53.79	53.50	53.50	52.60	52.71	52.71	53.02	52.72	52.45	52.71	52.86	
29	53.78	53.71	53.45	53.61	52.43	52.71	52.72	53.04	52.76	52.54	52.71	52.80	
30	53.73	53.71	53.44	53.06	52.41	52.75	52.72	52.89	52.61	52.54	52.71	52.83	
31		53.75		53.09	52.56		52.69		52.75	52.59		52.84	
Mean	53.71	53.85	53.89	53.50	52.84	52.72	53.03	52.88	52.58	52.61	52.70	52.81	
Max	54.11	54.14	55.82	53.80	53.61	54.11	54.17	53.04	52.88	52.99	52.74	52.92	55.82
Min	53.34	53.57	53.35	53.06	52.34	52.31	52.59	52.70	52.42	52.44	52.62	52.67	52.31
Annual Max Momentary Gage Height	55.22		m. (MSL.) ,				at 07.00 Hours ,	on Oct 15 , 2019					
Zero Gage at Bottom Elevation	52.30		m. (MSL.) ,			River Bed	46.74	m. (MSL.)					
Left Bank Elevation	60.32		m. (MSL.) ,										
Right Bank Elevation	60.51		m. (MSL.) ,		Drainage Are	16,865	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.10	281.43	304.50	246.90	198.70	351.50	213.55	125.00	151.10	122.10	126.45	120.65	
2	306.35	306.35	279.65	288.53	195.40	363.50	238.40	130.80	96.50	119.20	125.00	130.80	
3	288.53	343.50	349.50	258.80	193.75	252.00	132.25	126.45	93.90	93.90	122.10	129.35	
4	263.90	355.50	315.60	304.50	270.78	290.30	132.25	135.15	100.70	100.70	126.45	130.80	
5	245.20	357.50	265.60	277.88	218.50	136.60	130.80	130.80	93.90	95.20	127.90	127.90	
6	248.60	326.70	311.90	253.70	205.30	102.10	257.10	132.25	104.90	95.20	113.40	123.55	
7	253.70	326.70	335.95	255.40	187.15	97.90	252.00	130.80	102.10	95.20	126.45	130.80	
8	276.10	353.50	276.10	299.18	200.35	90.00	210.25	133.70	102.10	95.20	123.55	133.70	
9	281.43	304.50	255.40	205.30	142.40	83.50	203.65	132.25	102.10	88.70	123.55	126.45	
10	302.73	369.50	226.75	238.40	155.55	77.00	182.30	129.35	107.70	109.10	123.55	126.45	
11	286.75	311.90	248.60	248.60	149.65	74.40	213.55	130.80	99.30	99.30	126.45	129.35	
12	310.05	310.05	240.10	235.00	164.85	90.00	211.90	164.85	114.85	106.30	119.20	157.10	
13	363.50	306.35	238.40	243.50	174.30	92.60	252.00	169.50	107.70	88.70	114.85	149.65	
14	313.75	306.35	263.90	248.60	152.55	84.80	365.50	152.55	110.50	106.30	114.85	157.10	
15	293.85	299.18	283.20	253.70	136.60	93.90	375.50	167.95	99.30	104.90	126.45	155.55	
16	281.43	332.25	330.40	248.60	129.35	90.00	269.00	158.65	97.90	163.30	123.55	152.55	
17	270.78	302.73	284.98	277.88	146.75	83.50	109.10	157.10	91.30	149.65	130.80	152.55	
18	283.20	299.18	349.50	245.20	171.10	78.30	133.70	160.20	95.20	158.65	125.00	145.30	
19	277.88	324.85	300.95	260.50	157.10	78.30	126.45	167.95	93.90	157.10	122.10	148.20	
20	272.55	300.95	339.65	233.35	90.00	71.80	126.45	161.75	102.10	142.40	130.80	149.65	
21	317.45	302.73	310.05	269.00	77.00	111.95	111.95	164.85	92.60	113.40	116.30	143.85	
22	245.20	341.50	332.25	253.70	75.70	125.00	122.10	160.20	86.10	107.70	129.35	140.95	
23	299.18	269.00	326.70	255.40	96.50	127.90	119.20	161.75	91.30	92.60	126.45	145.30	
24	334.10	263.90	293.85	269.00	139.50	132.25	122.10	161.75	120.65	93.90	125.00	142.40	
25	321.15	297.40	283.20	258.80	111.95	127.90	129.35	161.75	127.90	93.90	127.90	149.65	
26	308.20	330.40	241.80	257.10	117.75	122.10	132.25	169.50	145.30	91.30	127.90	146.75	
27	299.18	326.70	245.20	258.80	119.20	120.65	122.10	174.30	123.55	122.10	127.90	138.05	
28	299.18	302.73	252.00	252.00	110.50	126.45	126.45	172.70	127.90	90.00	126.45	148.20	
29	300.95	288.53	243.50	270.78	87.40	126.45	127.90	175.90	133.70	102.10	126.45	139.50	
30	292.08	288.53	241.80	179.10	84.80	132.25	127.90	152.55	111.95	102.10	102.10	143.85	
31	295.63		183.90	104.90			123.55		132.25	109.10		145.30	
Total	8662.05	9726.02	8570.98	7831.10	4565.33	3934.90	5500.55	4553.10	3360.25	3409.30	3606.15	4361.25	68080.98 CMSDAY
Mean	288.74	313.74	285.70	252.62	147.27	131.16	177.44	151.77	108.40	109.98	124.35	140.69	186.01 CMS
Max	363.50	369.50	349.50	304.50	270.78	363.50	375.50	175.90	151.10	163.30	130.80	157.10	375.50 CMS
Min	225.10	263.90	226.75	179.10	75.70	71.80	109.10	125.00	86.10	88.70	113.40	120.65	71.80 CMS
Runoff	748.40	840.33	740.53	676.61	394.44	339.98	475.25	393.39	290.33	294.56	311.57	376.81	5882.20 MCM
Momentary Peak		596.40	CMS. at 55.22 m. (MSL.)										on Oct 15, 2019
Runoff Yield		11.06	Liters/Second/Square KM.										Momentary Peak Yield 35.36 Liters/Second/Square KM.

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Mueang , Phitsanulok (N.5A)

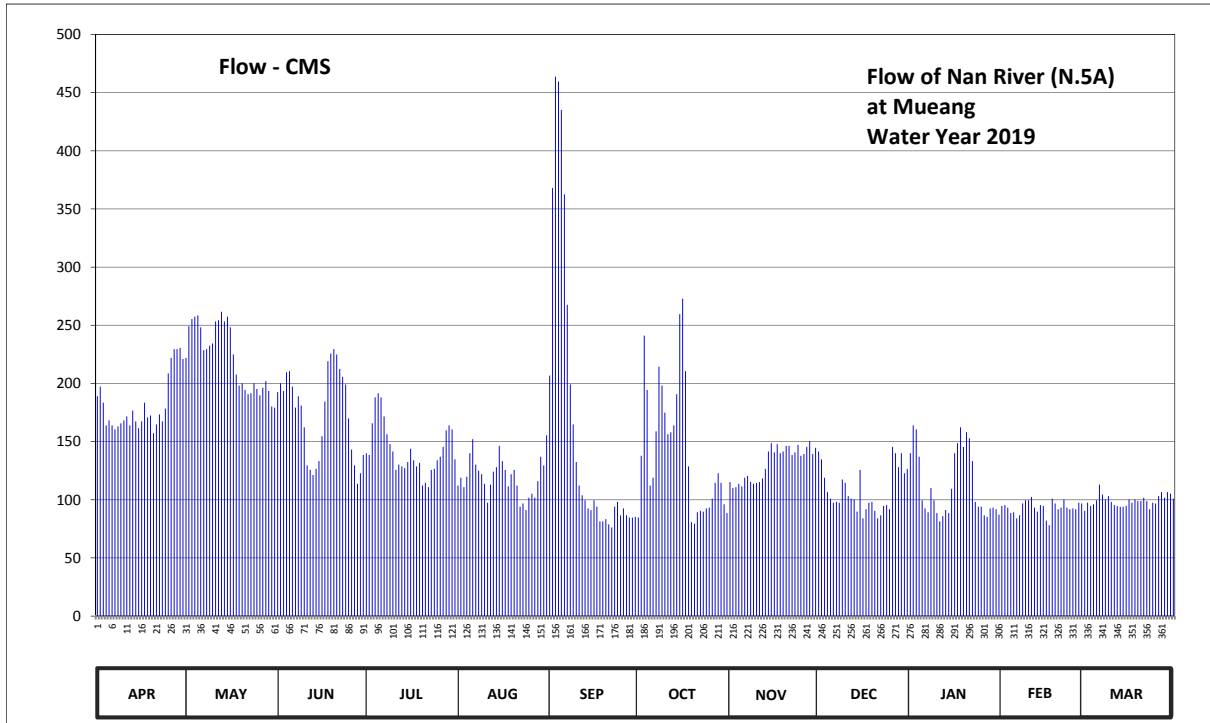
Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	<b>Ban</b>	<b>Nai Mueang</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	25,039	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+34.500 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the automatic gage building.				<b>Elevation</b>	+44.800 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1963 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1966 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1966 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 19 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.66	37.01	36.70	36.08	35.71	36.85	35.31	35.75	36.10	36.08	35.46	35.40	
2	36.75	37.29	36.78	36.06	35.80	38.40	36.05	35.68	36.01	36.37	35.47	35.50	
3	36.60	37.35	36.71	36.39	35.69	39.27	37.21	35.69	35.80	36.33	35.44	35.46	
4	36.37	37.37	36.88	36.65	35.81	39.23	36.72	35.73	35.63	36.04	35.37	35.48	
5	36.42	37.38	36.89	36.69	36.08	39.01	35.71	35.70	35.55	35.53	35.38	35.53	
6	36.37	37.28	36.75	36.65	36.23	38.35	35.80	35.80	35.50	35.43	35.30	35.72	
7	36.33	37.08	36.55	36.46	35.95	37.47	36.31	35.82	35.51	35.38	35.34	35.60	
8	36.36	37.09	36.66	36.28	35.88	36.77	36.93	35.75	35.50	35.68	35.49	35.54	
9	36.39	37.12	36.57	36.18	35.84	36.38	36.76	35.73	35.78	35.53	35.53	35.58	
10	36.42	37.14	36.35	36.10	35.73	35.98	36.50	35.74	35.74	35.37	35.53	35.51	
11	36.46	37.33	35.94	35.89	35.50	35.71	36.28	35.75	35.58	35.26	35.57	35.47	
12	36.37	37.34	35.89	35.95	35.72	35.59	36.30	35.79	35.55	35.33	35.44	35.46	
13	36.52	37.41	35.83	35.93	35.87	35.53	36.37	35.90	35.54	35.41	35.39	35.45	
14	36.41	37.33	35.90	35.91	35.92	35.43	36.68	36.10	35.39	35.37	35.47	35.45	
15	36.34	37.37	35.99	35.98	36.16	35.41	37.39	36.19	35.89	35.67	35.46	35.46	
16	36.41	37.28	36.26	36.13	35.99	35.53	37.52	36.09	35.30	36.08	35.27	35.54	
17	36.60	37.04	36.61	36.00	35.89	35.45	36.89	36.18	35.42	36.19	35.21	35.50	
18	36.45	36.86	36.98	35.93	35.70	35.26	35.93	36.08	35.50	36.35	35.55	35.54	
19	36.47	36.76	37.05	35.97	35.84	35.26	35.25	36.10	35.51	36.15	35.49	35.52	
20	36.29	36.78	37.09	35.71	35.89	35.29	35.23	36.16	35.40	36.30	35.42	35.52	
21	36.38	36.72	37.04	35.74	35.71	35.22	35.38	36.16	35.30	36.24	35.44	35.56	
22	36.48	36.68	36.91	35.69	35.45	35.18	35.40	36.06	35.34	35.99	35.54	35.52	
23	36.41	36.69	36.84	35.89	35.49	35.45	35.39	36.09	35.46	35.51	35.44	35.42	
24	36.54	36.78	36.77	35.90	35.41	35.51	35.43	36.17	35.47	35.45	35.42	35.50	
25	36.87	36.73	36.44	36.00	35.56	35.34	35.44	36.05	35.42	35.45	35.43	35.49	
26	37.01	36.67	36.12	36.04	35.61	35.43	35.55	36.07	36.15	35.34	35.42	35.58	
27	37.09	36.74	35.94	36.15	35.56	35.34	35.74	36.15	36.08	35.32	35.50	35.63	
28	37.09	36.80	35.73	36.32	35.76	35.31	35.85	36.21	35.92	35.43	35.49	35.56	
29	37.10	36.71	35.85	36.37	36.04	35.31	35.74	36.07	36.08	35.44	35.46	35.63	
30	37.00	36.56	36.06	36.33	35.94	35.32	35.48	36.14	35.85	35.42	35.42	35.61	
31		36.55		36.01	36.27		35.37		35.90	35.35		35.55	
Mean	36.57	37.01	36.47	36.11	35.81	36.19	36.06	35.96	35.65	35.70	35.44	35.53	
Max	37.10	37.41	37.09	36.69	36.27	39.27	37.52	36.21	36.15	36.37	35.57	35.72	39.27
Min	36.29	36.55	35.73	35.69	35.41	35.18	35.23	35.68	35.30	35.26	35.21	35.40	35.18
Annual Max Momentary Gage Height	39.42		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	34.50		m. (MSL.) ,				River Bed 29.71		m. (MSL.)				
Left Bank Elevation		45.72		m. (MSL.) ,									
Right Bank Elevation		45.64		m. (MSL.) ,		Drainage Are	25,039		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	188.90	221.95	192.50	140.00	112.25	206.75	84.65	115.25	141.50	140.00	94.70	90.50		
2	197.25	249.23	200.10	138.50	119.00	368.00	137.75	110.10	134.75	163.95	95.40	97.50		
3	183.50	255.38	193.45	165.65	110.80	463.70	241.03	110.80	119.00	160.55	93.30	94.70		
4	163.95	257.43	209.60	188.00	119.75	459.30	194.40	113.75	106.60	137.00	88.55	96.10		
5	168.20	258.45	210.55	191.60	140.00	435.10	112.25	111.50	101.00	99.60	89.20	99.60		
6	163.95	248.20	197.25	188.00	152.05	362.50	119.00	119.00	97.50	92.60	84.00	113.00		
7	160.55	228.60	179.25	171.60	130.25	267.68	158.85	120.50	98.20	89.20	86.60	104.50		
8	163.10	229.55	188.90	156.30	125.00	199.15	214.35	115.25	97.50	110.10	96.80	100.30		
9	165.65	232.40	180.95	147.90	122.00	164.80	198.20	113.75	117.50	99.60	99.60	103.10		
10	168.20	234.30	162.25	141.50	113.75	132.50	175.00	114.50	114.50	88.55	99.60	98.20		
11	171.60	253.33	129.50	125.75	97.50	112.25	156.30	115.25	103.10	81.40	102.40	95.40		
12	163.95	254.35	125.75	130.25	113.00	103.80	158.00	118.25	101.00	85.95	93.30	94.70		
13	176.70	261.53	121.25	128.75	124.25	99.60	163.95	126.50	100.30	91.20	89.85	94.00		
14	167.35	253.33	126.50	127.25	128.00	92.60	190.70	141.50	89.85	88.55	95.40	94.00		
15	161.40	257.43	133.25	132.50	146.30	91.20	259.48	148.70	125.75	109.40	94.70	94.70		
16	167.35	248.20	154.60	143.90	133.25	99.60	272.80	140.75	84.00	140.00	82.05	100.30		
17	183.50	224.80	184.40	134.00	125.75	94.00	210.55	147.90	91.90	148.70	78.15	97.50		
18	170.75	207.70	219.10	128.75	111.50	81.40	128.75	140.00	97.50	162.25	101.00	100.30		
19	172.45	198.20	225.75	131.75	122.00	81.40	80.75	141.50	98.20	145.50	96.80	98.90		
20	157.15	200.10	229.55	112.25	125.75	83.35	79.45	146.30	90.50	158.00	91.90	98.90		
21	164.80	194.40	224.80	114.50	112.25	78.80	89.20	146.30	84.00	152.90	93.30	101.70		
22	173.30	190.70	212.45	110.80	94.00	76.20	90.50	138.50	86.60	133.25	100.30	98.90		
23	167.35	191.60	205.80	125.75	96.80	94.00	89.85	140.75	94.70	98.20	93.30	91.90		
24	178.40	200.10	199.15	126.50	91.20	98.20	92.60	147.10	95.40	94.00	91.90	97.50		
25	208.65	195.35	169.90	134.00	101.70	86.60	93.30	137.75	91.90	94.00	92.60	96.80		
26	221.95	189.80	143.10	137.00	105.20	92.60	101.00	139.25	145.50	86.60	91.90	103.10		
27	229.55	196.30	129.50	145.50	101.70	86.60	114.50	145.50	140.00	85.30	97.50	106.60		
28	229.55	202.00	113.75	159.70	116.00	84.65	122.75	150.35	128.00	92.60	96.80	101.70		
29	230.50	193.45	122.75	163.95	137.00	84.65	114.50	139.25	140.00	93.30	94.70	106.60		
30	221.00	180.10	138.50	160.55	129.50	85.30	96.10	144.70	122.75	91.90		105.20		
31		179.25		134.75	155.45			88.55	126.50	87.25		101.00		
Total	5440.50	6887.51	5224.15	4437.20	3712.95	4866.28	4429.06	3940.50	3365.50	3501.40	2705.60	3077.20	51587.85	CMSDAY
Mean	181.35	222.18	174.14	143.14	119.77	162.21	142.87	131.35	108.56	112.95	93.30	99.26	140.95	CMS
Max	230.50	261.53	229.55	191.60	155.45	463.70	272.80	150.35	145.50	163.95	102.40	113.00	463.70	CMS
Min	157.15	179.25	113.75	110.80	91.20	76.20	79.45	110.10	84.00	81.40	78.15	90.50	76.20	CMS
Runoff	470.06	595.08	451.37	383.37	320.80	420.45	382.67	340.46	290.78	302.52	233.76	265.87	4457.19	MCM
Momentary Peak	480.20 CMS. at 39.42 m. (MSL.) at 15.00 Hours , on Sep 3 , 2019													
Runoff Yield	5.64 Liters/Second/Square KM.			Momentary Peak Yield				19.18 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Ban Rat Chang Khwan , Pichit (N.7A)

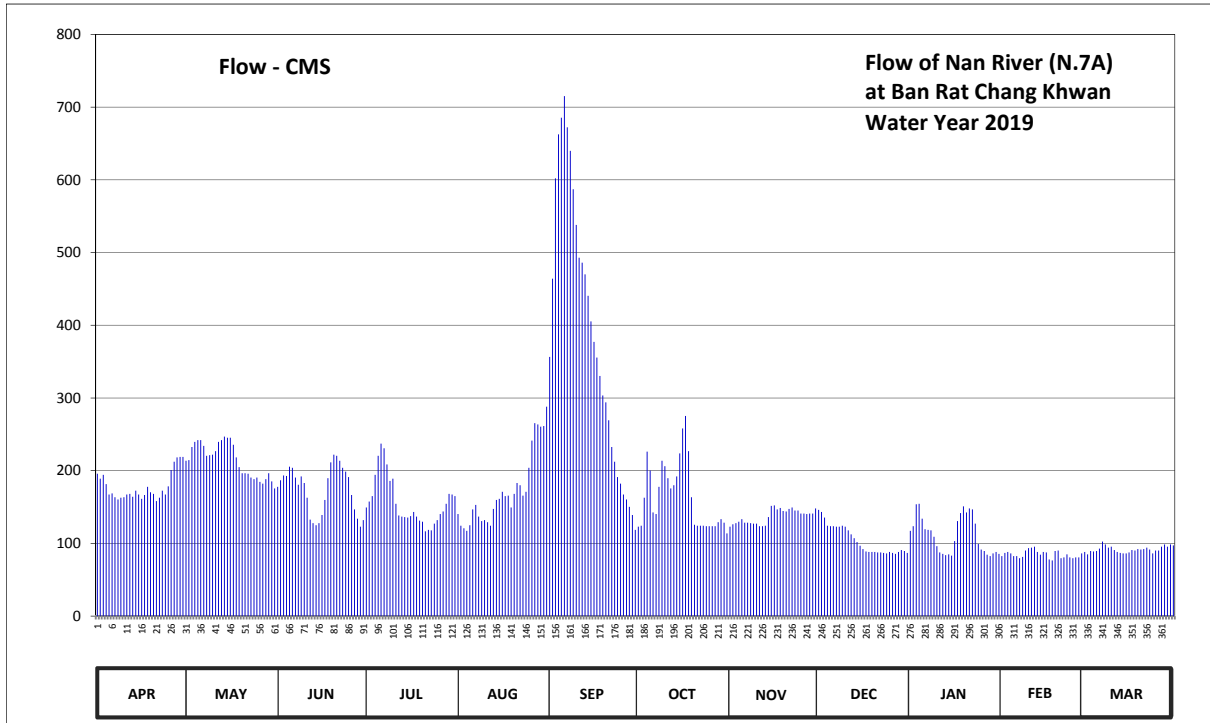
Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Pichit Phitthaya Khom School

	Ban Rat Chang Khwan	Amphoe Mueang	Changwat Pichit
<b>Drainage Area</b>	27,897 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+26.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of Pichit Phitthaya Khom School.	<b>Elevation</b>	+37.143 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2000 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.68	28.94	28.43	28.01	27.90	27.68	27.69	27.68	28.00	27.59	27.06	27.15	
2	28.58	28.90	28.55	28.12	27.67	27.72	27.68	27.72	27.96	27.68	27.13	27.10	
3	28.66	29.16	28.64	28.25	27.64	27.74	28.18	27.74	27.85	28.11	27.15	27.17	
4	28.48	29.24	28.63	28.62	27.58	27.76	29.12	27.76	27.69	28.12	27.12	27.16	
5	28.29	29.27	28.80	28.97	27.69	27.82	28.77	27.82	27.68	27.83	27.06	27.17	
6	28.31	29.27	28.78	29.18	28.01	27.75	27.96	27.75	27.68	27.62	27.06	27.22	
7	28.24	29.17	28.60	29.09	28.10	27.75	27.90	27.75	27.67	27.61	27.01	27.37	
8	28.20	29.01	28.47	28.82	27.86	27.74	28.40	27.74	27.67	27.60	27.04	27.31	
9	28.24	29.02	28.62	28.52	27.78	27.73	28.93	27.73	27.69	27.47	27.18	27.24	
10	28.27	29.03	28.50	28.35	27.80	27.73	28.82	27.73	27.67	27.27	27.23	27.26	
11	28.30	29.07	28.23	28.11	27.76	27.68	28.59	27.68	27.60	27.14	27.24	27.19	
12	28.31	29.24	27.81	27.87	27.67	27.68	28.40	27.68	27.52	27.11	27.26	27.15	
13	28.24	29.26	27.74	27.86	27.97	27.69	28.45	27.69	27.44	27.08	27.15	27.13	
14	28.38	29.34	27.70	27.84	28.16	27.86	28.61	27.86	27.36	27.10	27.09	27.12	
15	28.30	29.27	27.74	27.84	28.19	28.09	29.03	28.09	27.28	27.07	27.15	27.12	
16	28.21	29.32	27.90	27.87	28.32	28.10	29.69	28.10	27.21	27.38	27.14	27.14	
17	28.29	29.18	28.19	27.92	28.23	28.00	29.65	28.00	27.16	27.78	26.98	27.19	
18	28.45	28.96	28.59	27.83	28.24	28.05	29.12	28.05	27.15	27.94	26.96	27.18	
19	28.33	28.82	28.88	27.78	28.07	27.97	28.23	27.97	27.15	28.07	27.17	27.21	
20	28.31	28.71	29.02	27.78	28.28	27.97	27.70	27.97	27.15	27.95	27.18	27.20	
21	28.16	28.66	29.00	27.72	28.48	28.03	27.69	28.03	27.14	28.03	27.01	27.21	
22	28.24	28.66	28.91	27.67	28.44	28.06	27.69	28.06	27.14	28.01	27.03	27.24	
23	28.37	28.60	28.78	27.67	28.24	27.99	27.69	27.99	27.13	27.73	27.10	27.20	
24	28.30	28.57	28.71	27.72	28.31	27.99	27.68	27.99	27.12	27.32	27.03	27.12	
25	28.45	28.59	28.61	27.76	28.75	27.93	27.68	27.93		27.20	27.01	27.18	
26	28.75	28.53	28.28	27.86	29.26	27.93	27.68	27.93	27.13	27.17	27.03	27.18	
27	28.89	28.51	28.01	27.97	29.51	27.92	27.68	27.92	27.11	27.09	27.03	27.26	
28	28.98	28.56	27.83	28.09	29.49	27.93	27.73	27.93	27.15	27.06	27.12	27.31	
29	28.98	28.69	27.67	28.24	29.44	27.93	27.82	27.93	27.19	27.12	27.08	27.26	
30	28.98	28.53	27.80	28.24	29.50	28.03	27.76	28.03	27.17	27.15		27.31	
31		28.40		28.25	29.78		27.68		27.13	27.11		27.29	
Mean	28.44	28.92	28.38	28.12	28.33	27.87	28.25	27.87	27.40	27.50	27.10	27.20	
Max	28.98	29.34	29.02	29.18	29.78	28.10	29.69	28.10	28.00	28.12	27.26	27.37	29.78
Min	28.16	28.40	27.67	27.67	27.58	27.68	27.68	27.68	27.11	27.06	26.96	27.10	26.96
Annual Max Momentary Gage Height	34.28		m. (MSL.) ,				at 04.00 Hours , on Sep 6 , 2019						
Zero Gage at Bottom Elevation	26.00		m. (MSL.) ,			River Bed	25.10	m. (MSL.)					
Left Bank Elevation		37.71	m. (MSL.) ,										
Right Bank Elevation		37.59	m. (MSL.) ,			Drainage Are	27,897	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	195.75	213.75	177.75	149.50	140.40	356.40	122.90	122.90	146.00	117.30	82.60	88.25		
2	189.00	214.50	186.75	157.50	124.30	464.00	124.30	126.40	143.20	123.60	86.95	85.00		
3	194.25	232.50	193.50	165.00	120.80	602.00	162.75	127.80	135.50	153.75	88.25	89.55		
4	181.50	239.70	192.75	194.25	117.30	662.65	226.10	129.90	124.30	154.50	86.30	88.90		
5	167.25	242.10	205.50	220.50	125.00	685.40	200.25	133.40	123.60	134.10	82.60	89.55		
6	168.75	242.10	204.00	237.30	146.70	715.10	142.50	128.50	123.60	119.40	82.60	92.80		
7	163.50	234.10	190.50	230.90	153.00	672.20	140.40	128.50	122.90	118.70	79.60	102.55		
8	160.50	220.50	180.75	208.50	136.90	640.00	177.75	127.80	122.90	118.00	81.40	98.65		
9	162.75	221.30	192.00	186.00	130.60	587.00	213.75	127.10	124.30	109.05	90.20	94.10		
10	163.50	222.10	183.00	189.00	132.00	538.00	206.25	127.10	122.90	96.05	93.45	95.40		
11	167.25	226.90	162.75	154.50	129.20	493.00	189.75	123.60	118.00	87.60	94.10	90.85		
12	168.00	239.70	132.70	138.30	124.30	486.00	175.50	123.60	112.40	85.65	95.40	88.25		
13	164.25	242.10	127.80	136.90	147.40	470.00	180.00	124.30	107.10	83.80	88.25	86.95		
14	172.50	246.90	125.00	136.20	159.75	440.45	192.00	136.20	101.90	85.00	84.40	86.30		
15	167.25	245.30	127.80	135.50	161.25	405.30	223.70	151.60	96.70	83.20	88.25	86.30		
16	161.25	245.30	139.00	137.60	171.00	377.10	258.10	152.30	92.15	103.20	87.60	87.60		
17	166.50	235.70	159.75	143.20	165.00	355.50	275.30	146.70	88.90	130.60	77.80	90.85		
18	177.75	218.25	189.75	136.90	165.75	330.30	226.90	148.80	88.25	141.80	76.60	90.20		
19	170.25	204.75	211.50	131.30	149.50	303.35	163.50	144.60	88.25	150.90	89.55	92.15		
20	168.00	196.50	222.10	129.90	168.00	294.00	125.70	143.90	88.25	142.50	90.20	91.50		
21	158.25	196.50	220.50	116.60	183.00	269.35	124.30	147.40	87.60	148.10	79.60	92.15		
22	162.75	195.75	213.75	118.70	180.00	232.50	124.30	149.50	87.60	146.70	80.80	94.10		
23	172.50	190.50	204.00	118.00	165.75	212.25	124.30	145.30	86.95	127.10	85.00	91.50		
24	167.25	188.25	198.75	127.10	171.00	191.25	123.60	145.30	86.30	99.30	80.80	86.30		
25	178.50	190.50	191.25	132.00	204.00	182.25	123.60	141.10	88.25	91.50	79.60	90.20		
26	201.00	184.50	166.50	140.40	241.30	167.25	123.60	141.10	86.95	89.55	80.80	90.20		
27	212.25	182.25	146.70	143.90	265.30	160.50	123.60	140.40	85.65	84.40	80.80	95.40		
28	218.25	188.25	134.10	154.50	263.70	150.20	129.20	141.10	88.25	82.60	86.30	98.65		
29	219.00	196.50	122.90	168.00	260.50	139.00	133.40	141.10	90.85	86.30	83.80	95.40		
30	219.00	185.25	132.00	167.25	261.30	118.70	128.50	148.10	89.55	88.25		98.65		
31		175.50		165.00	288.05		113.80		86.95	85.65		97.35		
Total	5338.50	6657.80	5235.10	4870.20	5352.05	11701.00	5099.60	4115.40	3236.00	3468.15	2463.60	2845.60	60383.00	CMSDAY
Mean	177.95	214.77	174.50	157.10	172.65	390.03	164.50	137.18	104.39	111.88	84.95	91.79	164.98	CMS
Max	219.00	246.90	222.10	237.30	288.05	715.10	275.30	152.30	146.00	154.50	95.40	102.55	715.10	CMS
Min	158.25	175.50	122.90	116.60	117.30	118.70	113.80	122.90	85.65	82.60	76.60	85.00	76.60	CMS
Runoff	461.25	575.23	452.31	420.79	462.42	1010.97	440.61	355.57	279.59	299.65	212.86	245.86	5217.09	MCM
Momentary Peak		722.80	CMS. at 34.28 m. (MSL.)											on Sep 6 , 2019
Runoff Yield		5.93	Liters/Second/Square KM.			Momentary Peak Yield	25.91							Liters/Second/Square KM.



## WATER YEAR : 2019

## NAN RIVER BASIN

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

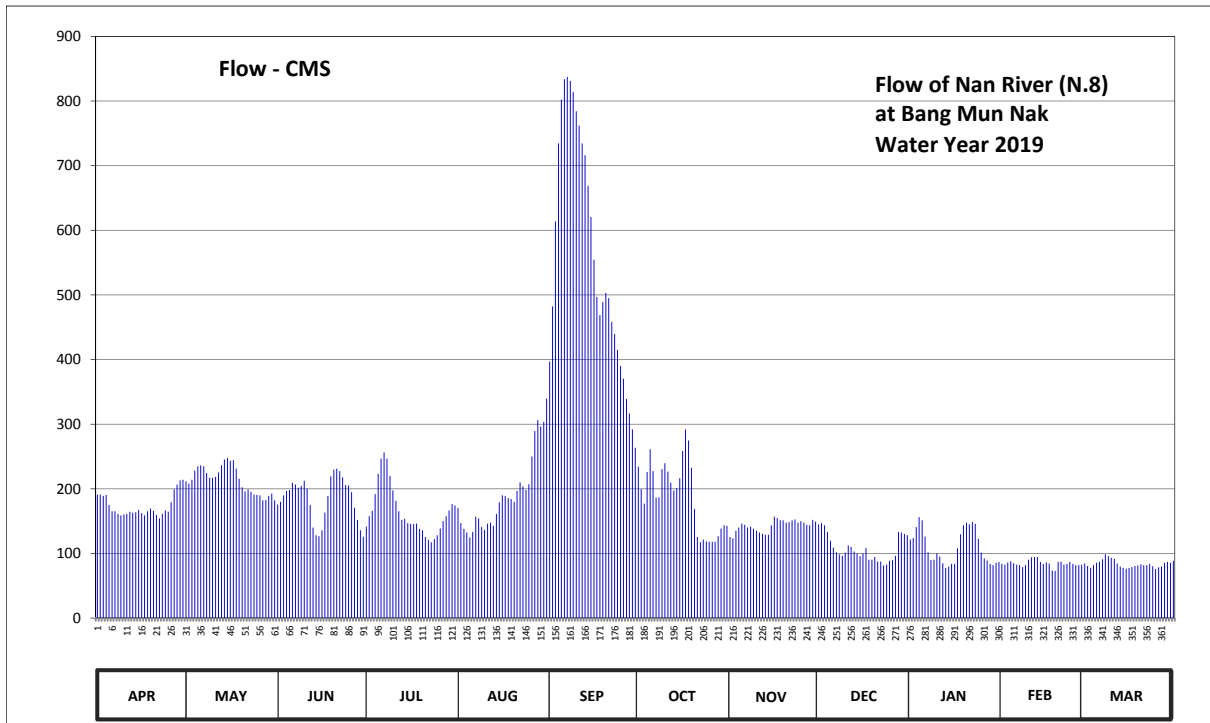
Lat 16 - 01 - 50 N Long 100 - 22 - 53 E

Location : on right bank opposite to Wat Bang Mun Nak.

	<b>Ban</b>	-	<b>Amphoe</b>	Bang Mun Nak	<b>Changwat</b>	Phichit	
<b>Drainage Area</b>	32,878	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+19.800	m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.						
<b>Location BM</b>	On right bank about 89 meters upstream from the top staff gage.					<b>Elevation</b>	+33.276 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings						
<b>Period of Available Gage Records</b>	1951 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1965 - 1967, 1973 - 1979, 1991 - 2000, 2019 to date						
<b>Rated by Flot</b>	-						
<b>Rated by Current Meter</b>	1951 - 1980, 1991 - 2000, 2019 to date						
<b>Stability of Channel Regimes</b>	Fairly stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 27 discharge measurements made in 2019.						

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.56	22.85	22.34	21.85	22.26	25.05	23.15	21.62	21.90	21.56	20.93	20.94	
2	22.56	22.80	22.40	22.08	21.93	25.95	22.68	21.59	21.93	21.60	20.91	20.88	
3	22.53	22.88	22.54	22.20	21.80	27.18	22.36	21.76	21.88	21.84	20.97	20.83	
4	22.55	23.07	22.64	22.57	21.72	28.23	23.04	21.83	21.73	22.06	21.00	20.90	
5	22.33	23.16	22.66	23.00	21.61	28.81	23.49	21.92	21.53	21.99	20.95	20.96	
6	22.19	23.18	22.82	23.31	21.73	29.07	23.06	21.89	21.35	21.63	20.91	20.99	
7	22.19	23.16	22.78	23.43	22.07	29.10	22.49	21.83	21.23	21.23	20.90	21.05	
8	22.13	23.02	22.71	23.31	22.03	29.05	22.50	21.85	21.18	21.03	20.85	21.18	
9	22.10	22.92	22.75	22.96	21.84	28.91	23.10	21.80	21.14	21.04	20.90	21.13	
10	22.12	22.92	22.86	22.65	21.78	28.66	23.22	21.76	21.22	21.20	21.04	21.09	
11	22.13	22.94	22.69	22.42	21.92	28.47	23.05	21.72	21.41	21.12	21.10	21.06	
12	22.18	23.03	22.33	22.19	21.94	28.23	22.82	21.69	21.37	20.95	21.11	20.94	
13	22.16	23.18	21.83	22.00	21.87	28.07	22.65	21.67	21.25	20.83	21.11	20.86	
14	22.17	23.29	21.66	22.02	22.13	27.66	22.70	21.67	21.20	20.86	20.98	20.83	
15	22.22	23.32	21.64	21.93	22.39	27.24	22.91	21.88	21.13	20.93	20.93	20.81	
16	22.15	23.27	21.77	21.91	22.54	26.64	23.46	22.07	21.20	20.93	20.97	20.83	
17	22.10	23.28	22.16	21.91	22.53	26.10	23.87	22.04	21.34	21.33	20.94	20.85	
18	22.19	23.11	22.53	21.92	22.48	25.81	23.66	21.99	21.04	21.68	20.76	20.88	
19	22.25	22.90	22.95	21.80	22.46	26.02	23.13	21.99	21.04	21.88	20.75	20.89	
20	22.20	22.72	23.09	21.77	22.40	26.16	22.24	21.94	21.11	21.94	20.98	20.92	
21	22.11	22.63	23.11	21.62	22.64	26.08	21.62	21.95	20.99	21.90	20.99	20.90	
22	22.03	22.67	23.06	21.55	22.83	25.70	21.49	21.99	20.99	21.95	20.91	20.90	
23	22.13	22.62	22.93	21.49	22.74	25.50	21.56	22.01	20.89	21.91	20.93	20.93	
24	22.21	22.56	22.77	21.57	22.66	25.24	21.51	21.94	20.91	21.58	20.98	20.87	
25	22.18	22.55	22.76	21.66	22.79	24.98	21.50	21.97	21.01	21.22	20.93	20.80	
26	22.39	22.54	22.61	21.81	23.35	24.77	21.50	21.94	21.03	21.07	20.90	20.84	
27	22.67	22.43	22.27	21.97	23.84	24.42	21.50	21.89	21.14	21.02	20.90	20.86	
28	22.78	22.44	22.00	22.08	24.04	24.16	21.64	21.88	21.73	20.93	20.91	20.96	
29	22.87	22.53	21.77	22.21	23.92	23.87	21.81	22.00	21.72	20.90	20.95	20.98	
30	22.88	22.58	21.63	22.35	24.01	23.52	21.88	21.96	21.69	20.96	20.96	20.96	
31		22.43		22.32	24.43		21.87		21.66	20.98		21.01	
Mean	22.31	22.87	22.47	22.19	22.54	26.62	22.50	21.87	21.32	21.36	20.94	20.93	
Max	22.88	23.32	23.11	23.43	24.43	29.10	23.87	22.07	21.93	22.06	21.11	21.18	29.10
Min	22.03	22.43	21.63	21.49	21.61	23.52	21.49	21.59	20.89	20.83	20.75	20.80	20.75
Annual Max Momentary Gage Height	29.13		m. (MSL.) ,			at 19.00 Hours ,	on Sep 6 , 2019						
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed	17.37	m. (MSL.)					
Left Bank Elevation		30.54		m. (MSL.) ,									
Right Bank Elevation		30.95		m. (MSL.) ,		Drainage Are	32,878	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	191.20	211.75	175.80	141.50	170.20	396.75	234.25	125.40	145.00	121.60	83.80	84.40		
2	191.20	208.00	180.00	157.60	147.10	482.25	199.60	123.40	147.10	124.00	82.60	80.80		
3	189.10	214.00	189.80	166.00	138.00	613.80	177.20	135.20	143.60	140.80	86.20	77.80		
4	190.50	228.25	196.80	191.90	132.40	734.45	226.00	140.10	133.10	156.20	88.00	82.00		
5	175.10	235.00	198.20	223.00	124.70	802.20	261.20	146.40	119.80	151.30	85.00	85.60		
6	165.30	236.50	209.50	246.80	133.10	833.75	227.50	144.30	109.00	126.10	82.60	87.40		
7	165.30	235.00	206.60	256.40	156.90	837.50	186.30	140.10	101.80	101.80	82.00	91.00		
8	161.10	224.50	201.70	246.80	154.10	831.25	187.00	141.50	98.80	89.80	79.00	98.80		
9	159.00	217.00	204.50	220.00	140.80	814.20	230.50	138.00	96.40	90.40	82.00	95.80		
10	160.40	217.00	212.50	197.50	136.60	784.20	239.60	135.20	101.20	100.00	90.40	93.40		
11	161.10	218.50	200.30	181.40	146.40	762.05	226.75	132.40	112.60	95.20	94.00	91.60		
12	164.60	225.25	175.10	165.30	147.80	734.45	209.50	130.30	110.20	85.00	94.60	84.40		
13	163.20	236.50	140.10	152.00	142.90	716.05	197.50	128.90	103.00	77.80	94.60	79.60		
14	163.90	245.20	128.20	153.40	161.10	668.90	201.00	128.90	100.00	79.60	86.80	77.80		
15	167.40	247.60	126.80	147.10	179.30	620.60	216.25	143.60	95.80	83.80	83.80	76.60		
16	162.50	243.60	135.90	145.70	189.80	554.40	258.80	156.90	100.00	83.80	86.20	77.80		
17	159.00	244.40	163.20	145.70	189.10	497.00	291.95	154.80	108.40	107.80	84.40	79.00		
18	165.30	231.25	189.10	146.40	185.60	468.95	274.80	151.30	90.40	129.60	73.60	80.80		
19	169.50	215.50	219.25	138.00	184.20	489.00	232.75	151.30	90.40	143.60	73.00	81.40		
20	166.00	202.40	229.75	135.90	180.00	503.00	168.80	147.80	94.60	147.80	86.80	83.20		
21	159.70	196.10	231.25	125.40	196.80	495.00	125.40	148.50	87.40	145.00	87.40	82.00		
22	154.10	198.90	227.50	121.00	210.25	458.50	117.40	151.30	87.40	148.50	82.60	82.00		
23	161.10	195.40	217.75	117.40	203.80	439.50	121.60	152.70	81.40	145.70	83.80	83.80		
24	166.70	191.20	205.90	122.20	198.20	414.80	118.60	147.80	82.60	122.80	86.80	80.20		
25	164.60	190.50	205.20	128.20	207.30	390.10	118.00	149.90	88.60	101.20	83.80	76.00		
26	179.30	189.80	194.70	138.70	250.00	370.30	118.00	147.80	89.80	92.20	82.00	78.40		
27	198.90	182.10	170.90	149.90	289.40	338.80	118.00	144.30	96.40	89.20	82.00	79.60		
28	206.60	182.80	152.00	157.60	306.40	316.60	126.80	143.60	133.10	83.80	82.60	85.60		
29	213.25	189.10	135.90	166.70	296.20	291.95	138.70	152.00	132.40	82.00	85.00	86.80		
30	214.00	192.60	126.10	176.50	303.85	263.60	143.60	149.20	130.30	85.60		85.60		
31		182.10		174.40	339.70		142.90		128.20	86.80		88.60		
<b>Total</b>	5208.95	6627.80	5550.30	5136.40	5942.00	16923.90	5836.25	4282.90	3338.80	3418.80	2455.40	2597.80	67319.30	CMSDAY
<b>Mean</b>	173.63	213.80	185.01	165.69	191.68	564.13	188.27	142.76	107.70	110.28	84.67	83.80	183.93	CMS
<b>Max</b>	214.00	247.60	231.25	256.40	339.70	837.50	291.95	156.90	147.10	156.20	94.60	98.80	837.50	CMS
<b>Min</b>	154.10	182.10	126.10	117.40	124.70	263.60	117.40	123.40	81.40	77.80	73.00	76.00	73.00	CMS
<b>Runoff</b>	450.05	572.64	479.55	443.78	513.39	1462.22	504.25	370.04	288.47	295.38	212.15	224.45	5816.39	MCM
<b>Momentary Peak</b>	841.25	CMS.	at 29.13 m. (MSL.)					19.00 Hours						on Sep 6, 2019
<b>Runoff Yield</b>	5.61	Liters/Second/Square KM.						Momentary Peak Yield	25.59	Liters/Second/Square KM.				

## WATER YEAR : 2019

## NAN RIVER BASIN

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

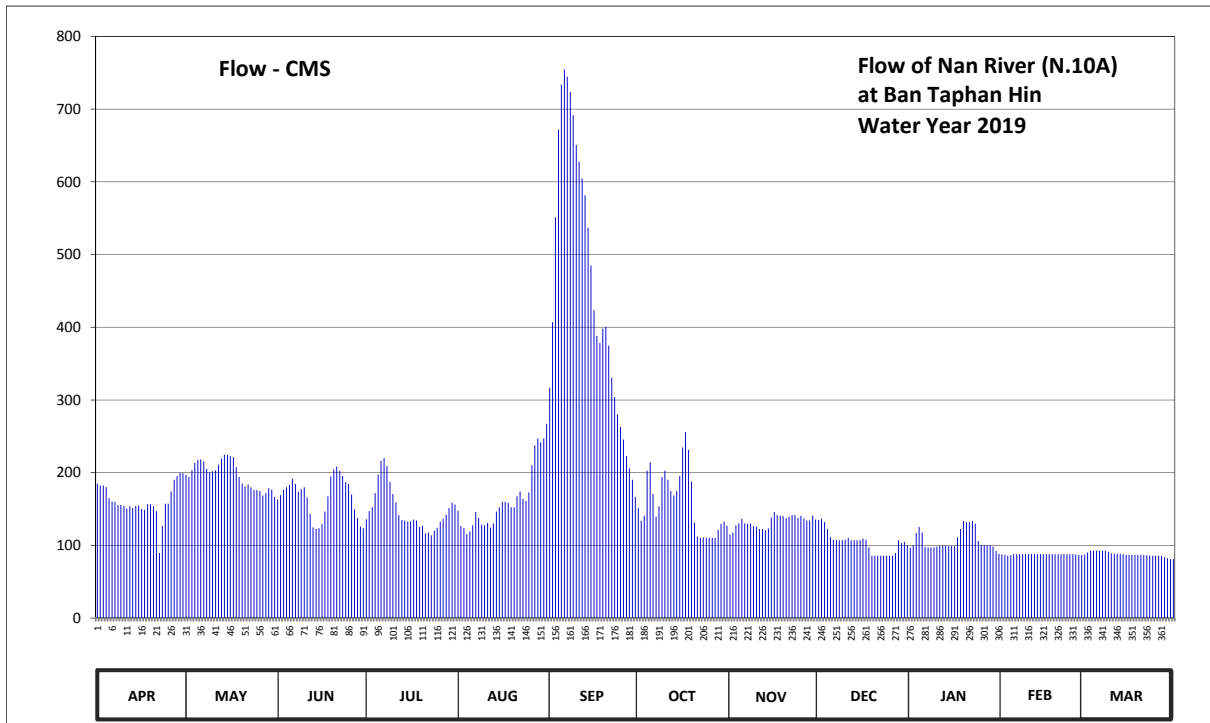
Lat 16 - 13 - 00 N Long 100 - 25 - 19 E

Location : on left bank near Amphoe Taphan Hin Office about 250 meters from Station N.10

	<b>Ban</b>	<b>Taphan Hin</b>	<b>Amphoe</b>	<b>Taphan Hin</b>	<b>Changwat</b>	<b>Phichit</b>
<b>Drainage Area</b>	30,328	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+22.280 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near automatic gage building.				<b>Elevation</b>	+33.300 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1969 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1974 - 1979, 1991 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1974 - 1982, 1987, 1991 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 18 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.47	24.65	24.12	23.67	23.87	26.31	23.93	23.29	23.65	22.96	22.79	22.79	
2	24.43	24.61	24.22	23.86	23.50	27.35	23.63	23.34	23.68	23.03	22.78	22.84	
3	24.43	24.75	24.34	23.95	23.45	28.83	23.75	23.52	23.60	23.33	22.76	22.89	
4	24.40	24.91	24.39	24.26	23.30	29.98	24.74	23.57	23.43	23.48	22.77	22.89	
5	24.15	24.97	24.44	24.66	23.37	30.56	24.92	23.68	23.23	23.34	22.80	22.89	
6	24.08	24.98	24.57	24.95	23.52	30.75	24.24	23.57	23.16	22.98	22.80	22.89	
7	24.07	24.94	24.46	25.01	23.84	30.66	23.73	23.56	23.15	22.97	22.80	22.89	
8	24.00	24.78	24.29	24.84	23.70	30.47	23.97	23.57	23.15	22.97	22.80	22.89	
9	24.00	24.71	24.35	24.50	23.54	30.17	24.61	23.50	23.15	22.97	22.80	22.86	
10	23.98	24.73	24.39	24.24	23.52	29.78	24.74	23.49	23.16	22.99	22.80	22.82	
11	23.92	24.75	24.17	24.06	23.58	29.56	24.55	23.43	23.21	23.01	22.80	22.81	
12	23.97	24.87	23.79	23.77	23.46	29.34	24.31	23.43	23.15	23.01	22.80	22.81	
13	23.93	25.00	23.47	23.65	23.57	29.12	24.21	23.40	23.15	23.01	22.80	22.81	
14	23.98	25.08	23.43	23.64	23.85	28.69	24.31	23.44	23.15	23.00	22.80	22.80	
15	23.99	25.08	23.45	23.61	23.95	28.17	24.63	23.71	23.15	23.00	22.80	22.78	
16	23.91	25.05	23.55	23.62	24.07	27.53	25.23	23.84	23.19	23.00	22.80	22.78	
17	23.89	25.03	23.85	23.66	24.07	27.14	25.52	23.77	23.16	23.22	22.80	22.78	
18	24.02	24.82	24.19	23.64	24.05	27.03	25.18	23.75	22.97	23.43	22.80	22.78	
19	24.02	24.61	24.62	23.48	23.95	27.25	24.51	23.74	22.76	23.63	22.80	22.78	
20	23.97	24.47	24.77	23.51	23.95	27.28	23.59	23.70	22.76	23.60	22.80	22.78	
21	23.86	24.41	24.83	23.32	24.19	26.99	23.24	23.73	22.76	23.60	22.80	22.77	
22	22.83	24.45	24.74	23.34	24.30	26.47	23.21	23.77	22.76	23.63	22.80	22.77	
23	23.51	24.39	24.63	23.27	24.14	26.16	23.22	23.77	22.76	23.56	22.80	22.76	
24	24.03	24.33	24.50	23.39	24.09	25.86	23.21	23.70	22.76	23.13	22.80	22.76	
25	24.03	24.33	24.46	23.46	24.28	25.62	23.21	23.75	22.76	23.03	22.80	22.76	
26	24.30	24.31	24.23	23.61	24.86	25.38	23.21	23.69	22.76	23.03	22.79	22.76	
27	24.55	24.21	23.90	23.68	25.27	25.05	23.21	23.64	22.83	23.03	22.78	22.75	
28	24.63	24.26	23.70	23.78	25.40	24.79	23.40	23.64	23.15	23.03	22.78	22.72	
29	24.70	24.37	23.49	23.93	25.33	24.55	23.56	23.76	23.08	22.99	22.78	22.69	
30	24.69	24.34	23.45	24.05	25.40	24.18	23.61	23.66	23.11	22.88	22.78	22.67	
31		24.18		24.01	25.68		23.51		23.02	22.81		22.67	
Mean	24.09	24.66	24.16	23.88	24.10	27.70	24.03	23.61	23.09	23.15	22.79	22.79	
Max	24.70	25.08	24.83	25.01	25.68	30.75	25.52	23.84	23.68	23.63	22.80	22.89	30.75
Min	22.83	24.18	23.43	23.27	23.30	24.18	23.21	23.29	22.76	22.81	22.76	22.67	22.67
Annual Max Momentary Gage Height	30.77		m. (MSL.) ,				at 15.00 Hours ,						on Sep 6, 2019
Zero Gage at Bottom Elevation	22.28		m. (MSL.) ,			River Bed	19.44	m. (MSL.)					
Left Bank Elevation		31.91		m. (MSL.) ,									
Right Bank Elevation		32.92		m. (MSL.) ,		Drainage Are	30,328	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	185.05	196.75	163.00	136.03	147.70	316.85	151.30	114.95	134.88	96.80	87.48	87.48		
2	182.45	194.15	169.25	147.10	126.50	407.00	133.73	117.70	136.60	100.65	86.95	90.20		
3	182.45	203.25	176.75	152.50	123.75	551.15	140.63	127.60	132.00	117.15	85.90	92.95		
4	180.50	213.65	179.88	171.75	115.50	671.90	202.60	130.35	122.65	125.40	86.43	92.95		
5	164.88	217.55	183.10	197.40	119.35	733.60	214.30	136.60	111.65	117.70	88.00	92.95		
6	160.50	218.20	191.55	216.25	127.60	754.50	170.50	130.35	107.80	97.90	88.00	92.95		
7	159.88	215.60	184.40	220.15	145.90	744.60	139.48	129.80	107.25	97.35	88.00	92.95		
8	155.50	205.20	173.63	209.10	137.75	723.70	153.70	130.35	107.25	97.35	88.00	92.95		
9	155.50	200.65	177.38	187.00	128.70	691.85	194.15	126.50	107.25	97.35	88.00	91.30		
10	154.30	201.95	179.88	170.50	127.60	650.90	202.60	125.95	107.80	98.45	88.00	89.10		
11	150.70	203.25	166.13	159.25	130.90	627.80	190.25	122.65	110.55	99.55	88.00	88.55		
12	153.70	211.05	142.93	141.78	124.30	604.70	174.88	122.65	107.25	99.55	88.00	88.55		
13	151.30	219.50	124.85	134.88	130.35	581.60	168.63	121.00	107.25	99.55	88.00	88.55		
14	154.30	224.70	122.65	134.30	146.50	537.00	174.88	123.20	107.25	99.00	88.00	88.00		
15	154.90	224.70	123.75	132.58	152.50	485.00	195.45	138.33	107.25	99.00	88.00	86.95		
16	150.10	222.75	129.25	133.15	159.88	423.53	234.68	145.90	109.45	99.00	88.00	86.95		
17	148.90	221.45	146.50	135.45	159.88	388.10	255.70	141.78	107.80	111.10	88.00	86.95		
18	156.75	207.80	167.38	134.30	158.63	378.20	231.20	140.63	97.35	122.65	88.00	86.95		
19	156.75	194.15	194.80	125.40	152.50	398.00	187.65	140.05	85.90	133.73	88.00	86.95		
20	153.70	185.05	204.55	127.05	152.50	400.70	131.45	137.75	85.90	132.00	88.00	86.95		
21	147.10	181.15	208.45	116.60	167.38	374.65	112.20	139.48	85.90	132.00	88.00	86.43		
22	89.65	183.75	202.60	117.70	174.25	330.45	110.55	141.78	85.90	133.73	88.00	86.43		
23	127.05	179.88	195.45	113.85	164.25	304.10	111.10	141.78	85.90	129.80	88.00	85.90		
24	157.38	176.13	187.00	120.45	161.13	280.35	110.55	137.75	85.90	106.15	88.00	85.90		
25	157.38	176.13	184.40	124.30	173.00	262.95	110.55	140.63	85.90	100.65	88.00	85.90		
26	174.25	174.88	169.88	132.58	210.40	245.55	110.55	137.18	85.90	100.65	87.48	85.90		
27	190.25	168.63	149.50	136.60	237.58	222.75	110.55	134.30	89.65	100.65	86.95	85.38		
28	195.45	171.75	137.75	142.35	247.00	205.85	121.00	134.30	107.25	100.65	86.95	83.80		
29	200.00	178.63	125.95	151.30	241.93	190.25	129.80	141.20	103.40	98.45	86.95	82.23		
30	199.35	176.75	123.75	158.63	247.00	166.75	132.58	135.45	105.05	92.40		81.18		
31		166.75		156.13	267.30		127.05		100.10	88.55		81.18		
<b>Total</b>	4849.97	6115.78	4986.34	4636.41	5059.51	13654.33	4934.24	3987.94	3221.93	3324.91	2543.09	2721.36	60035.81	CMSDAY
<b>Mean</b>	161.67	197.28	166.21	149.56	163.21	455.14	159.17	132.93	103.93	107.26	87.69	87.79	164.03	CMS
<b>Max</b>	200.00	224.70	208.45	220.15	267.30	754.50	255.70	145.90	136.60	133.73	88.00	92.95	754.50	CMS
<b>Min</b>	89.65	166.75	122.65	113.85	115.50	166.75	110.55	114.95	85.90	88.55	85.90	81.18	81.18	CMS
<b>Runoff</b>	419.04	528.40	430.82	400.59	437.14	1179.73	426.32	344.56	278.37	287.27	219.72	235.13	5187.09	MCM
<b>Momentary Peak</b>		756.70	CMS.	at 30.77 m. (MSL.)	at 15.00 Hours	on Sep 6, 2019								
<b>Runoff Yield</b>		5.42	Liters/Second/Square KM.		Momentary Peak Yield	24.95	Liters/Second/Square KM.							

**WATER YEAR : 2019****NAN RIVER BASIN****Nan River at Ban Hat Phai , Uttaradit (N.12A)**

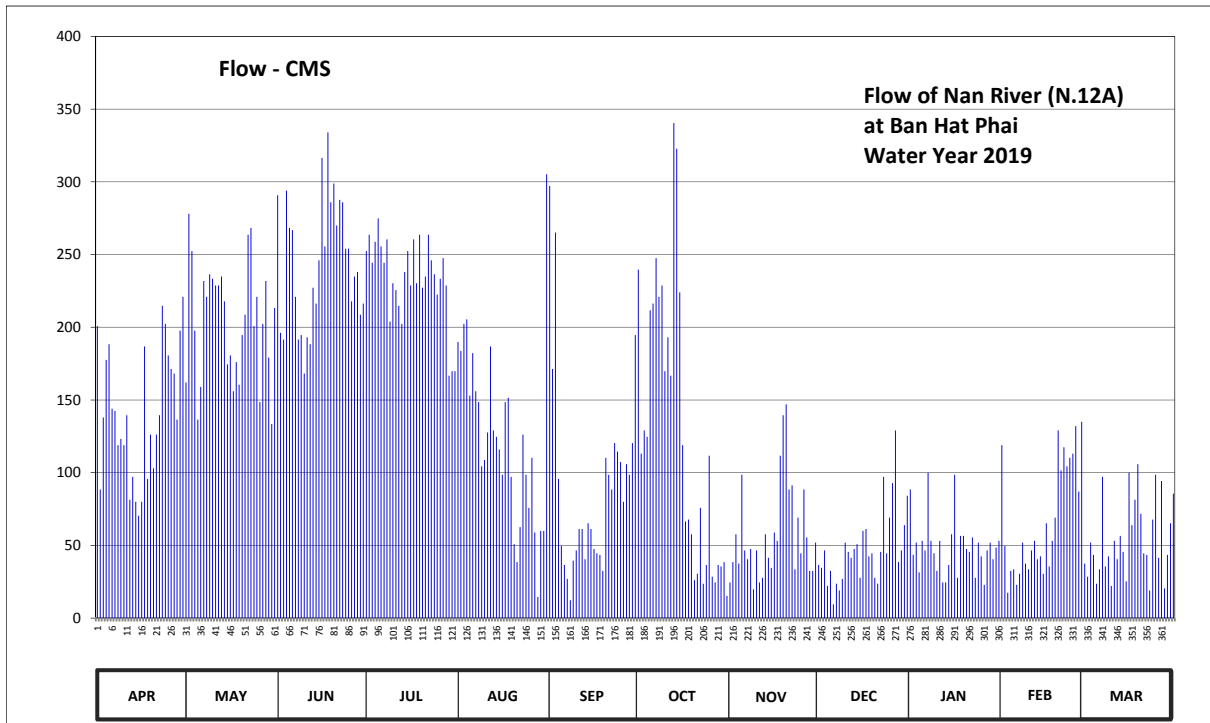
Lat 17 - 44 - 11 N Long 100 - 32 - 27 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	<b>Ban Hat Phai</b>	<b>Amphoe Tha Pla</b>	<b>Changwat</b>	<b>Uttaradit</b>
<b>Drainage Area</b>	15,579 sq.km.			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+69.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank in front of gage observer's house.			<b>Elevation</b> +84.000 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1966 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1966 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	1966 to date			
<b>Stability of Channel Regimes</b>	Rather un stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records fair. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 19 discharge measurements made in 2019.			

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.26	71.21	72.03	71.79	71.39	72.07	71.71	70.11	70.28	70.71	70.92	70.29	
2	70.71	71.95	71.49	71.86	71.35	71.27	70.88	70.30	70.26	70.35	70.41	70.20	
3	71.05	71.79	71.66	71.74	71.47	71.87	70.99	70.46	70.38	70.43	70.06	70.43	
4	71.31	71.44	72.05	71.83	71.49	70.76	70.96	70.29	70.12	70.23	70.24	70.35	
5	71.38	71.04	71.89	71.93	71.15	70.41	71.53	70.78	70.24	70.44	70.25	70.14	
6	71.09	71.19	71.88	71.81	71.34	70.28	71.56	70.37	69.95	70.38	70.13	70.25	
7	71.08	71.66	71.59	71.74	71.17	70.18	71.76	70.33	70.14	70.79	70.22	70.77	
8	70.92	71.59	71.21	71.84	71.12	69.99	71.59	70.38	70.08	70.44	70.43	70.27	
9	70.95	71.69	71.42	71.48	70.82	70.31	71.64	70.09	70.18	70.36	70.29	70.34	
10	70.92	71.67	71.25	71.65	70.85	70.38	71.26	70.40	70.43	70.24	70.25	70.12	
11	71.02	71.07	71.41	71.62	70.98	70.51	71.41	70.14	70.37	70.44	70.38	70.44	
12	70.68	71.56	71.38	71.55	71.37	70.51	71.24	70.19	70.33	70.15	70.44	70.32	
13	70.80	71.68	71.63	71.47	70.99	70.32	72.34	70.48	70.39	70.15	70.32	70.47	
14	70.64	71.57	71.56	71.70	70.96	70.54	72.23	70.33	70.42	70.28	70.34	70.37	
15	70.58	71.28	71.75	71.79	70.90	70.51	71.61	70.25	70.19	70.48	70.22	70.16	
16	70.65	71.33	72.19	71.64	70.78	70.39	70.92	70.48	70.50	70.78	70.54	70.79	
17	71.37	71.13	71.81	71.84	71.12	70.36	70.55	70.44	70.51	70.19	70.27	70.53	
18	70.76	71.30	72.30	71.65	71.14	70.35	70.56	70.86	70.34	70.47	70.44	70.66	
19	70.97	71.20	72.00	71.86	70.77	70.24	70.48	70.39	70.36	70.47	70.57	70.83	
20	70.81	71.42	72.08	71.63	70.42	70.86	70.17	70.42	70.19	70.39	70.99	70.59	
21	70.96	71.51	71.90	71.68	70.30	70.78	70.22	70.37	70.14	70.37	70.80	70.36	
22	71.06	71.86	72.01	71.86	70.52	70.71	70.62	70.73	70.37	70.46	70.91	70.35	
23	71.55	71.90	72.00	71.75	70.97	70.93	70.14	70.24	70.77	70.19	70.82	70.08	
24	71.47	71.46	71.80	71.69	70.78	70.89	70.28	70.56	70.36	70.43	70.86	70.56	
25	70.84	71.60	71.80	71.60	70.62	70.84	70.87	70.35	70.57	70.34	70.88	70.78	
26	71.27	71.12	71.57	71.67	70.86	70.65	70.20	70.70	70.74	70.13	71.01	70.33	
27	71.25	71.47	71.68	71.76	70.49	70.83	70.15	70.45	70.99	70.38	70.70	70.75	
28	71.04	71.66	71.70	71.64	70.36	70.78	70.28	70.25	70.30	70.43	71.03	70.10	
29	71.44	71.32	71.51	71.24	70.50	70.93	70.27	70.23	70.38	70.32	70.76	70.35	
30	71.59	71.02	71.56	71.26	70.50	71.42	70.30	70.43	70.53	70.40	70.54	70.54	
31		71.54		71.16	72.12		70.03		70.68	70.44		70.69	
Mean	71.05	71.46	71.74	71.67	70.95	70.70	70.93	70.39	70.37	70.39	70.53	70.43	
Max	71.59	71.95	72.30	71.93	72.12	72.07	72.34	70.86	70.99	70.79	71.03	70.83	72.34
Min	70.58	71.02	71.21	71.16	70.30	69.99	70.03	70.09	69.95	70.13	70.06	70.08	69.95
Annual Max Momentary Gage Height	74.24		m. (MSL.) ,				at 23.00 Hours , on Oct 13 , 2019						
Zero Gage at Bottom Elevation	69.00		m. (MSL.) ,			River Bed	68.03	m. (MSL.)					
Left Bank Elevation		82.64		m. (MSL.) ,									
Right Bank Elevation		81.43		m. (MSL.) ,		Drainage Are	15,579	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	200.80	162.05	290.80	252.40	189.95	297.20	239.60	24.50	36.50	88.45	118.90	37.50		
2	88.45	278.00	196.15	263.60	183.75	171.35	113.10	38.50	34.50	43.50	49.65	28.50		
3	138.00	252.40	191.50	244.40	202.35	265.20	129.05	57.70	46.50	51.95	17.50	51.95		
4	177.55	197.70	294.00	258.80	205.45	95.70	124.70	37.50	22.10	31.50	32.50	43.50		
5	188.40	136.50	268.40	274.80	153.00	49.65	211.65	98.60	32.50	53.10	33.50	23.70		
6	144.00	159.00	266.80	255.60	182.20	36.50	216.30	46.50	9.50	46.50	22.90	33.50		
7	142.50	231.80	220.95	244.40	156.00	26.90	247.60	40.50	23.70	100.05	30.50	97.15		
8	118.90	220.95	191.50	260.40	148.50	12.30	220.95	47.50	19.00	53.10	51.95	35.50		
9	123.25	236.45	194.60	203.90	104.40	39.50	228.70	19.75	26.90	44.50	37.50	42.50		
10	118.90	233.35	168.25	230.25	108.75	46.50	169.80	46.50	51.95	32.50	33.50	22.10		
11	139.50	228.70	193.05	225.60	127.60	61.30	193.05	24.50	45.50	53.10	46.50	53.10		
12	81.40	228.70	188.40	214.75	186.85	61.30	166.70	27.70	41.50	24.50	53.10	40.50		
13	97.15	234.90	227.15	202.35	129.05	40.50	340.40	57.70	47.50	24.50	40.50	56.55		
14	80.00	217.85	216.30	238.00	124.70	65.20	322.80	41.50	50.80	36.50	42.50	45.50		
15	70.40	174.45	246.00	252.40	116.00	61.30	224.05	34.50	27.70	57.70	30.50	25.30		
16	80.00	180.65	316.40	228.70	98.60	47.50	118.90	58.85	60.00	98.60	65.20	100.05		
17	186.85	156.00	255.60	260.40	148.50	44.50	66.50	53.10	61.30	27.70	35.50	63.90		
18	95.70	176.00	334.00	230.25	151.50	43.50	67.80	111.65	42.50	56.55	53.10	81.40		
19	126.15	160.50	286.00	263.60	97.15	32.50	57.70	139.50	44.50	56.55	69.10	105.85		
20	102.95	194.60	298.80	227.15	50.80	110.20	26.10	147.00	27.70	47.50	129.05	71.70		
21	126.15	208.55	270.00	234.90	38.50	98.60	30.50	88.45	23.70	45.50	101.50	44.50		
22	139.50	263.60	287.60	263.60	62.60	88.45	75.80	91.35	45.50	55.40	117.45	43.50		
23	214.75	268.40	286.00	246.00	126.15	120.35	23.70	33.50	97.15	27.70	104.40	19.00		
24	202.35	200.80	254.00	236.45	98.60	114.55	36.50	69.10	44.50	51.95	110.20	67.80		
25	180.65	220.95	254.00	222.50	75.80	107.30	111.65	44.50	69.10	42.50	113.10	98.60		
26	171.35	148.50	217.85	233.35	110.20	80.00	28.50	88.45	92.80	22.90	132.00	41.50		
27	168.25	202.35	234.90	247.60	58.85	105.85	24.50	55.40	129.05	46.50	87.00	94.25		
28	136.50	231.80	238.00	228.70	14.50	98.60	36.50	32.50	38.50	51.95	135.00	20.50		
29	197.70	179.10	208.55	166.70	60.00	120.35	35.50	32.50	46.50	40.50	95.70	43.50		
30	220.95	133.50	216.30	169.80	60.00	194.60	38.50	51.95	63.90	48.50		65.20		
31		213.20		169.80	305.20		15.25		84.20	53.10		85.60		
Total	4259.00	6331.30	7311.85	7251.15	3875.50	2737.25	3942.35	1741.25	1487.05	1514.85	1989.80	1683.70	44125.05	CMSDAY
Mean	141.97	204.24	243.73	233.91	125.02	91.24	127.17	58.04	47.97	48.87	68.61	54.31	120.56	CMS
Max	220.95	278.00	334.00	274.80	305.20	297.20	340.40	147.00	129.05	100.05	135.00	105.85	340.40	CMS
Min	70.40	133.50	168.25	166.70	14.50	12.30	15.25	19.75	9.50	22.90	17.50	19.00	9.50	CMS
Runoff	367.98	547.02	631.74	626.50	334.84	236.50	340.62	150.44	128.48	130.88	171.92	145.47	3812.40	MCM
Momentary Peak		657.80	CMS. at 74.24 m. (MSL.)											on Oct 13, 2019
Runoff Yield		7.76	Liters/Second/Square KM.				Momentary Peak Yield	42.22						Liters/Second/Square KM.

## WATER YEAR : 2019

## NAN RIVER BASIN

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

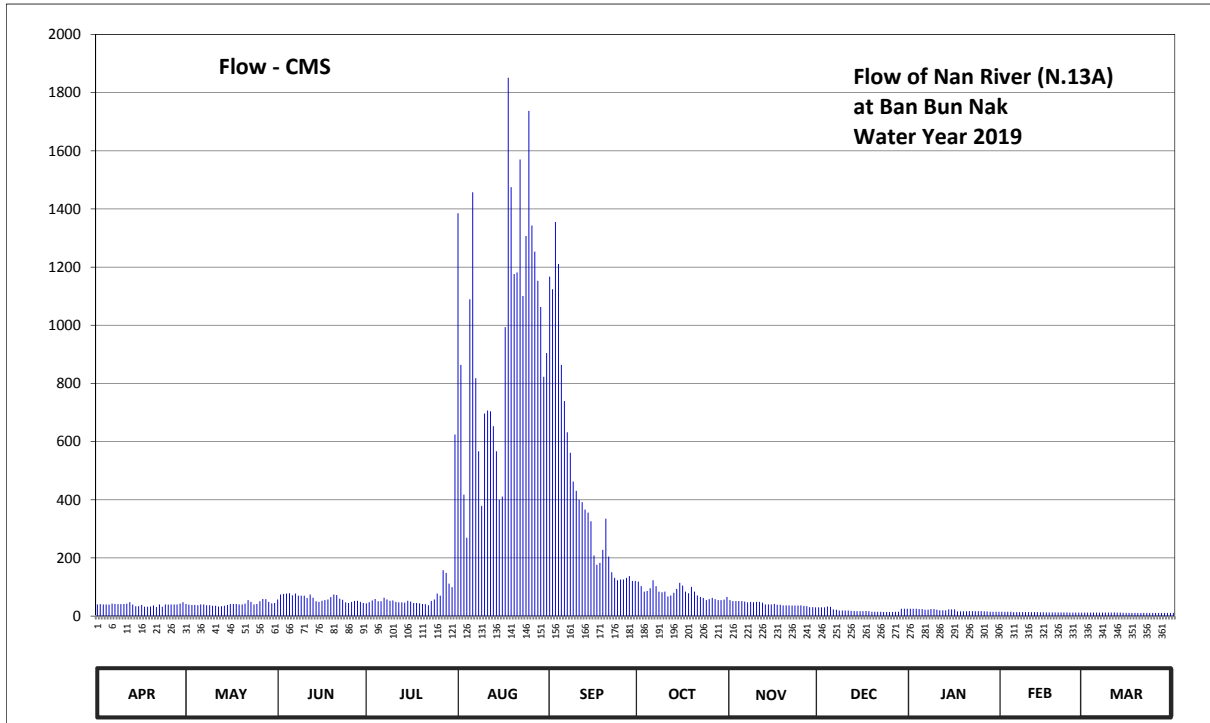
Lat 18 - 33 - 12 N Long 100 - 46 - 03 E

Location : on right bank about 2 kilometers upstream from Station N.13

	<b>Ban</b>	<b>Bun Nak</b>	<b>Amphoe</b>	<b>Wiang Sa</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainage Area</b>	8,706	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+177.400 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+192.700 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1987 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1987 to date					
<b>Stability of Channel Regimes</b>	Fairly Stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.98	177.00	177.15	177.02	182.60	181.87	178.36	178.03	177.80	177.75	177.58	177.44	
2	176.99	176.97	177.30	177.06	180.81	181.72	178.29	178.01	177.80	177.75	177.58	177.44	
3	176.98	176.96	177.32	177.12	179.07	182.50	178.21	178.01	177.80	177.75	177.58	177.44	
4	176.98	176.96	177.33	177.17	178.37	182.02	178.22	178.01	177.83	177.74	177.58	177.44	
5	176.97	176.95	177.34	177.09	181.60	180.81	178.26	178.01	177.82	177.74	177.54	177.44	
6	177.01	176.98	177.28	177.09	182.84	180.35	178.38	178.00	177.73	177.72	177.54	177.44	
7	177.00	176.98	177.33	177.21	180.64	179.95	178.29	177.97	177.72	177.72	177.54	177.45	
8	176.99	176.95	177.27	177.15	179.69	179.67	178.21	177.99	177.68	177.74	177.54	177.45	
9	176.99	176.95	177.27	177.11	178.89	179.27	178.20	177.98	177.68	177.74	177.54	177.45	
10	177.00	176.93	177.27	177.12	180.19	179.13	178.21	177.99	177.68	177.72	177.53	177.45	
11	177.01	176.93	177.20	177.07	180.23	178.99	178.11	177.99	177.68	177.70	177.53	177.47	
12	177.06	176.90	177.30	177.05	180.22	178.95	178.13	177.96	177.66	177.70	177.53	177.44	
13	176.97	176.91	177.21	177.05	180.03	178.83	178.19	177.90	177.65	177.70	177.53	177.44	
14	176.91	176.93	177.09	177.04	179.69	178.78	178.25	177.90	177.64	177.73	177.52	177.43	
15	176.91	176.96	177.07	177.11	178.99	178.64	178.34	177.90	177.64	177.73	177.52	177.40	
16	176.96	177.00	177.11	177.08	179.04	178.64	178.30	177.92	177.64	177.73	177.49	177.40	
17	176.89	177.00	177.13	177.03	181.27	178.55	178.21	177.89	177.65	177.63	177.49	177.40	
18	176.89	177.00	177.15	177.03	184.11	178.57	178.18	177.89	177.64	177.63	177.49	177.40	
19	176.90	176.98	177.23	177.02	182.90	178.69	178.28	177.87	177.60	177.63	177.48	177.40	
20	176.94	176.98	177.30	177.00	181.90	178.90	178.21	177.87	177.60	177.63	177.48	177.40	
21	176.88	177.01	177.29	176.99	181.92	178.63	178.13	177.87	177.60	177.64	177.48	177.40	
22	176.98	177.13	177.18	176.95	183.21	178.47	178.10	177.86	177.59	177.64	177.47	177.40	
23	176.89	177.07	177.14	177.10	181.64	178.41	178.08	177.86	177.57	177.64	177.47	177.40	
24	176.98	176.98	177.05	177.15	182.34	179.38	178.03	177.86	177.57	177.64	177.45	177.40	
25	176.97	177.00	177.03	177.33	183.75	178.39	178.05	177.87	177.57	177.64	177.45	177.40	
26	176.98	177.09	177.07	177.27	182.46	178.39	178.08	177.85	177.57	177.63	177.45	177.40	
27	176.98	177.17	177.10	177.83	182.16	178.41	178.05	177.84	177.59	177.62	177.44	177.40	
28	176.98	177.16	177.11	177.78	181.82	178.43	178.03	177.81	177.60	177.59	177.44	177.40	
29	177.01	177.07	177.07	177.57	181.51	178.37	178.03	177.81	177.75	177.59	177.44	177.40	
30	177.06	177.02	177.03	177.49	180.66	178.37	178.04	177.80	177.75	177.59	177.45	177.40	
31		177.03		179.92	180.96		178.10		177.75	177.58		177.40	
Mean	176.97	177.00	177.19	177.26	181.15	179.34	178.18	177.92	177.67	177.68	177.51	177.42	
Max	177.06	177.17	177.34	179.92	184.11	182.50	178.38	178.03	177.83	177.75	177.58	177.47	184.11
Min	176.88	176.90	177.03	176.95	178.37	178.37	178.03	177.80	177.57	177.58	177.44	177.40	176.88
Annual Max Momentary Gage Height	184.37		m. (MSL.) ,			at 12.00 Hours ,	on Aug 18, 2019						
Zero Gage at Bottom Elevation	177.40		m. (MSL.) ,			River Bed	173.54	m. (MSL.)					
Left Bank Elevation		190.33		m. (MSL.) ,									
Right Bank Elevation		192.60		m. (MSL.) ,		Drainage Are	8,706	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.20	42.00	57.00	44.00	1385.00	1167.30	118.80	54.80	30.00	25.00	14.60	11.80	
2	41.10	39.30	74.00	48.00	863.70	1123.80	102.70	51.60	30.00	25.00	14.60	11.80	
3	40.20	38.40	76.40	54.00	417.40	1355.00	84.30	51.60	30.00	25.00	14.60	11.80	
4	40.20	38.40	77.60	59.00	269.70	1211.00	86.60	51.60	33.00	24.00	14.60	11.80	
5	39.30	37.50	78.80	51.00	1089.00	863.70	95.80	51.60	32.00	24.00	13.80	11.80	
6	43.00	40.20	71.60	51.00	1457.00	739.50	123.40	50.00	23.00	22.00	13.80	11.80	
7	42.00	40.20	77.60	63.20	817.80	632.25	102.70	47.00	22.00	22.00	13.80	12.00	
8	41.10	37.50	70.40	57.00	566.50	561.50	84.30	49.00	19.00	24.00	13.80	12.00	
9	41.10	37.50	70.40	53.00	378.90	462.80	82.00	48.00	19.00	24.00	13.80	12.00	
10	42.00	35.70	70.40	54.00	696.30	430.60	84.30	49.00	19.00	22.00	13.60	12.00	
11	43.00	35.70	62.00	49.00	707.10	399.90	67.60	49.00	19.00	20.00	13.60	12.40	
12	48.00	33.00	74.00	47.00	704.40	391.50	70.80	46.00	18.00	20.00	13.60	11.80	
13	39.30	33.90	63.20	47.00	653.10	366.30	80.40	40.00	17.50	20.00	13.60	11.80	
14	33.90	35.70	51.00	46.00	566.50	355.80	93.50	40.00	17.00	23.00	13.40	11.60	
15	33.90	38.40	49.00	53.00	399.90	326.40	114.20	40.00	17.00	23.00	13.40	11.00	
16	38.40	42.00	53.00	50.00	410.80	208.40	105.00	42.00	17.00	23.00	12.80	11.00	
17	32.20	42.00	55.00	45.00	993.30	176.75	84.30	39.00	17.50	16.50	12.80	11.00	
18	32.20	42.00	57.00	45.00	1851.30	183.25	78.80	39.00	17.00	16.50	12.80	11.00	
19	33.00	40.20	65.60	44.00	1475.00	227.65	100.40	37.00	15.00	16.50	12.60	11.00	
20	36.60	40.20	74.00	42.00	1176.00	335.00	84.30	37.00	15.00	16.50	12.60	11.00	
21	31.40	43.00	72.80	41.10	1181.80	204.55	70.80	37.00	15.00	17.00	12.60	11.00	
22	40.20	55.00	60.00	37.50	1570.10	150.75	66.00	36.00	14.80	17.00	12.40	11.00	
23	32.20	49.00	56.00	52.00	1100.60	131.25	62.80	36.00	14.40	17.00	12.40	11.00	
24	40.20	40.20	47.00	57.00	1307.00	123.40	54.80	36.00	14.40	17.00	12.00	11.00	
25	39.30	42.00	45.00	77.60	1737.50	125.70	58.00	37.00	14.40	17.00	12.00	11.00	
26	40.20	51.00	49.00	70.40	1343.00	125.70	62.80	35.00	14.40	16.50	12.00	11.00	
27	40.20	59.00	52.00	158.00	1253.00	131.25	58.00	34.00	14.80	16.00	11.80	11.00	
28	40.20	58.00	53.00	148.40	1152.80	137.75	54.80	31.00	15.00	14.80	11.80	11.00	
29	43.00	49.00	49.00	111.50	1062.90	121.10	54.80	31.00	25.00	14.80	11.80	11.00	
30	48.00	44.00	45.00	99.50	823.20	121.10	56.40	30.00	25.00	14.80	11.80	11.00	
31		45.00		624.60	904.20		66.00		25.00	14.60		11.00	
Total	1175.60	1305.00	1856.80	2479.80	30314.80	12890.95	2509.40	1256.20	619.20	608.50	381.00	353.40	55750.65 CMSDAY
Mean	39.19	42.10	61.89	79.99	977.90	429.70	80.95	41.87	19.97	19.63	13.14	11.40	152.32 CMS
Max	48.00	59.00	78.80	624.60	1851.30	1355.00	123.40	54.80	33.00	25.00	14.60	12.40	1851.30 CMS
Min	31.40	33.00	45.00	37.50	269.70	121.10	54.80	30.00	14.40	14.60	11.80	11.00	11.00 CMS
Runoff	101.57	112.75	160.43	214.25	2619.20	1113.78	216.81	108.54	53.50	52.57	32.92	30.53	4816.86 MCM
Momentary Peak	1937.10	CMS.	at 184.37 m. (MSL.)	at 12.00 Hours	, on Aug 18, 2019								
Runoff Yield	17.55	Liters/Second/Square KM.		Momentary Peak Yield	222.53	Liters/Second/Square KM.							



**WATER YEAR : 2019****Nan RIVER BASIN****Nan River at Wat Luang Pho Kao , Nakhon Sawan (N.14A)**

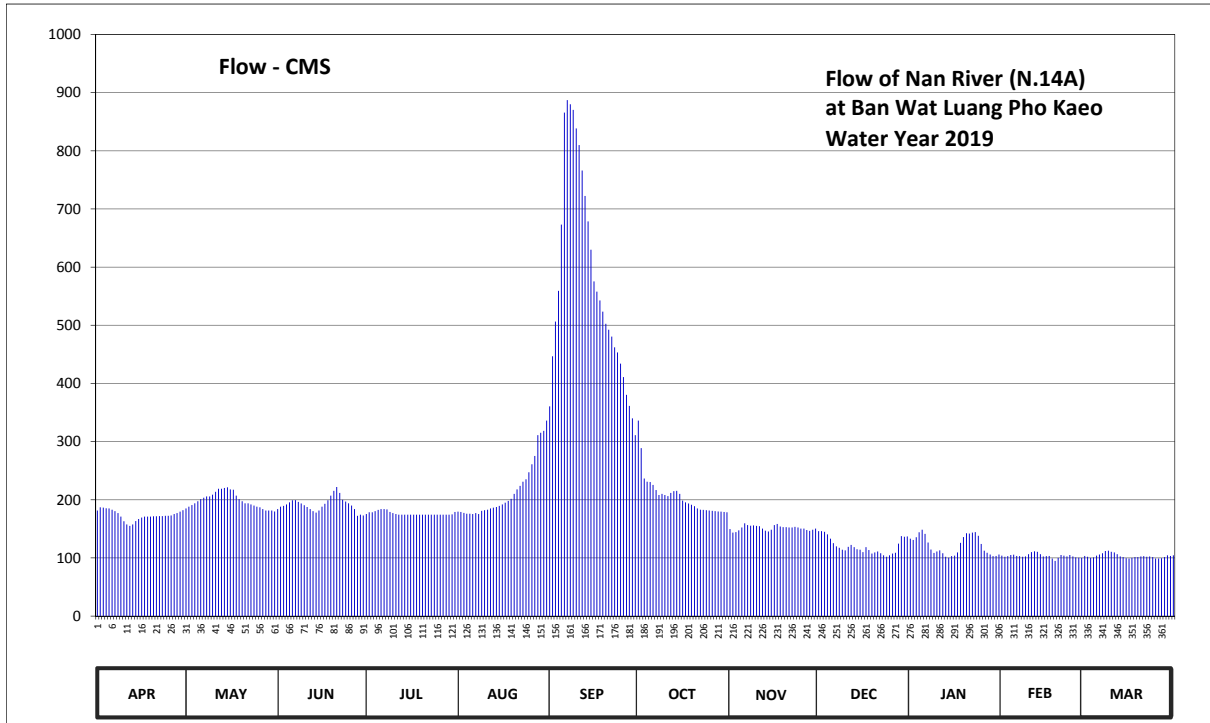
Lat 15 - 53 - 44 N Long 100 - 18 - 42 E

Location : on right bank in front of Wat Luang Pho Kao about 1 kilometer upstream from Station N.14

	<b>Ban</b>	Wat Luang Pho Kao	<b>Amphoe</b>	Chum Saeng	<b>Changwat</b>	Nakhon Sawan
<b>Drainage Area</b>	32,826	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank in front of automatic gage building.				<b>Elevation</b>	+32.155 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1971 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 - 1979, 1991 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1972 - 1980, 1991 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow					
<b>General Description</b>	Records good. Flow effected by Naresuan Dam. Stage-discharge relation defined by 26 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.21	20.28	20.26	20.09	20.17	22.95	22.65	19.57	19.50	19.24	18.66	18.65	
2	20.32	20.34	20.34	20.15	20.16	23.87	22.01	19.45	19.50	19.20	18.62	18.62	
3	20.31	20.40	20.37	20.15	20.13	24.38	21.19	19.47	19.48	19.29	18.64	18.58	
4	20.29	20.46	20.42	20.19	20.10	24.78	21.10	19.53	19.39	19.46	18.68	18.60	
5	20.28	20.53	20.49	20.23	20.10	25.49	21.09	19.63	19.24	19.55	18.69	18.66	
6	20.24	20.60	20.56	20.26	20.09	26.44	21.01	19.77	19.09	19.41	18.65	18.70	
7	20.19	20.64	20.57	20.26	20.12	26.53	20.86	19.71	18.98	19.11	18.64	18.74	
8	20.12	20.68	20.51	20.25	20.09	26.50	20.72	19.69	18.93	18.87	18.62	18.82	
9	20.00	20.68	20.45	20.16	20.20	26.46	20.75	19.70	18.86	18.75	18.63	18.83	
10	19.84	20.73	20.39	20.12	20.22	26.32	20.72	19.68	18.84	18.80	18.71	18.79	
11	19.73	20.81	20.33	20.09	20.24	26.19	20.69	19.67	18.96	18.84	18.78	18.77	
12	19.68	20.90	20.26	20.07	20.28	25.98	20.78	19.59	19.03	18.74	18.81	18.71	
13	19.73	20.90	20.19	20.07	20.31	25.76	20.83	19.52	18.95	18.62	18.79	18.63	
14	19.85	20.92	20.14	20.07	20.33	25.52	20.84	19.49	18.88	18.59	18.71	18.61	
15	19.92	20.94	20.21	20.07	20.37	25.23	20.75	19.55	18.86	18.64	18.63	18.57	
16	19.97	20.88	20.34	20.07	20.42	24.89	20.55	19.71	18.78	18.66	18.64	18.56	
17	20.00	20.87	20.44	20.07	20.48	24.77	20.49	19.75	18.95	18.77	18.65	18.58	
18	20.00	20.70	20.56	20.07	20.54	24.66	20.45	19.66	18.85	19.10	18.56	18.61	
19	20.00	20.60	20.70	20.07	20.61	24.51	20.41	19.64	18.73	19.30	18.48	18.61	
20	20.01	20.53	20.84	20.07	20.75	24.35	20.36	19.64	18.77	19.43	18.58	18.63	
21	20.01	20.46	20.95	20.07	20.88	24.27	20.28	19.63	18.80	19.42	18.68	18.64	
22	20.02	20.46	20.78	20.07	20.98	24.17	20.24	19.63	18.74	19.45	18.66	18.62	
23	20.02	20.42	20.58	20.07	21.10	24.01	20.23	19.65	18.67	19.47	18.63	18.63	
24	20.03	20.38	20.52	20.07	21.17	23.93	20.22	19.63	18.62	19.34	18.68	18.61	
25	20.03	20.34	20.46	20.07	21.37	23.75	20.21	19.59	18.67	19.06	18.63	18.56	
26	20.04	20.32	20.38	20.07	21.60	23.51	20.20	19.59	18.73	18.83	18.60	18.56	
27	20.09	20.26	20.26	20.07	21.82	23.17	20.19	19.54	18.76	18.76	18.59	18.57	
28	20.12	20.21	20.03	20.07	22.33	22.96	20.18	19.51	19.07	18.70	18.58	18.61	
29	20.17	20.21	20.07	20.07	22.39	22.70	20.17	19.55	19.33	18.64	18.61	18.67	
30	20.22	20.21	20.04	20.08	22.43	22.33	20.16	19.59	19.31	18.65	18.65	18.65	
31		20.18		20.16	22.65		20.15		19.32	18.70		18.67	
Mean	20.05	20.54	20.41	20.11	20.79	24.68	20.66	19.61	18.99	19.01	18.65	18.65	
Max	20.32	20.94	20.95	20.26	22.65	26.53	22.65	19.77	19.50	19.55	18.81	18.83	26.53
Min	19.68	20.18	20.03	20.07	20.09	22.33	20.15	19.45	18.62	18.59	18.48	18.56	18.48
Annual Max Momentary Gage Height	26.55		m. (MSL.) ,				at 17.00 Hours ,						on Sep 7 , 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.86	m. (MSL.)					
Left Bank Elevation		29.84		m. (MSL.) ,									
Right Bank Elevation		32.10		m. (MSL.) ,		Drainage Are	32,826	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.50	185.00	184.00	175.50	179.50	360.50	336.00	149.50	146.00	133.00	104.00	103.50	
2	187.00	188.00	188.00	178.50	179.00	446.70	288.70	143.50	146.00	131.00	102.00	102.00	
3	186.50	191.00	189.50	178.50	177.50	506.40	236.40	144.50	145.00	135.50	103.00	100.00	
4	185.50	194.00	192.00	180.50	176.00	559.20	231.00	147.50	140.50	144.00	105.00	101.00	
5	185.00	197.50	195.50	182.50	176.00	673.20	230.40	152.50	133.00	148.50	105.50	104.00	
6	183.00	201.00	199.00	184.00	175.50	865.60	225.60	159.50	125.50	141.50	103.50	106.00	
7	180.50	203.40	199.50	184.00	177.00	887.20	216.60	156.50	120.00	126.50	103.00	108.00	
8	177.00	205.80	196.50	183.50	175.50	880.00	208.20	155.50	117.50	114.50	102.00	112.00	
9	171.00	205.80	193.50	179.00	181.00	870.40	210.00	156.00	114.00	108.50	102.50	112.50	
10	163.00	208.80	190.50	177.00	182.00	838.40	208.20	155.00	113.00	111.00	106.50	110.50	
11	157.50	213.60	187.50	175.50	183.00	809.80	206.40	154.50	119.00	113.00	110.00	109.50	
12	155.00	219.00	184.00	174.50	185.00	766.00	211.80	150.50	122.50	108.00	111.50	106.50	
13	157.50	219.00	180.50	174.50	186.50	722.40	214.80	147.00	118.50	102.00	110.50	102.50	
14	163.50	220.20	178.00	174.50	187.50	678.60	215.40	145.50	115.00	100.50	106.50	101.50	
15	167.00	221.40	181.50	174.50	189.50	629.80	210.00	148.50	114.00	103.00	102.50	99.50	
16	169.50	217.80	188.00	174.50	192.00	575.50	198.50	156.50	110.00	104.00	103.00	99.00	
17	171.00	217.20	193.00	174.50	195.00	557.80	195.50	158.50	118.50	109.50	103.50	100.00	
18	171.00	207.00	199.00	174.50	198.00	542.80	193.50	154.00	113.50	126.00	99.00	101.50	
19	171.00	201.00	207.00	174.50	201.60	523.30	191.50	153.00	107.50	136.00	95.00	101.50	
20	171.50	197.50	215.40	174.50	210.00	502.50	189.00	153.00	109.50	142.50	100.00	102.50	
21	171.50	194.00	222.00	174.50	217.80	492.40	185.00	152.50	111.00	142.00	105.00	103.00	
22	172.00	194.00	211.80	174.50	223.80	480.40	183.00	152.50	108.00	143.50	104.00	102.00	
23	172.00	192.00	200.00	174.50	231.00	462.10	182.50	153.50	104.50	144.50	102.50	102.50	
24	172.50	190.00	197.00	174.50	235.20	453.30	182.00	152.50	102.00	138.00	105.00	101.50	
25	172.50	188.00	194.00	174.50	247.20	434.00	181.50	150.50	104.50	124.00	102.50	99.00	
26	173.00	187.00	190.00	174.50	261.00	410.90	181.00	150.50	107.50	112.50	101.00	99.00	
27	175.50	184.00	184.00	174.50	275.40	380.30	180.50	148.00	109.00	109.00	100.50	99.50	
28	177.00	181.50	172.50	174.50	311.10	361.40	180.00	146.50	124.50	106.00	100.00	101.50	
29	179.50	181.50	174.50	174.50	315.30	340.00	179.50	148.50	137.50	103.00	101.50	104.50	
30	182.00	181.50	173.00	175.00	318.40	311.10	179.00	150.50	136.50	103.50	103.50	103.50	
31		180.00		179.00	336.00		178.50		137.00	106.00		104.50	
Total	5202.00	6167.50	5760.70	5473.50	6679.30	17322.00	6410.00	4546.50	3730.50	3770.50	3000.50	3204.00	71267.00 CMSDAY
Mean	173.40	198.95	192.02	176.56	215.46	577.40	206.77	151.55	120.34	121.63	103.47	103.35	194.72 CMS
Max	187.00	221.40	222.00	184.00	336.00	887.20	336.00	159.50	146.00	148.50	111.50	112.50	887.20 CMS
Min	155.00	180.00	172.50	174.50	175.50	311.10	178.50	143.50	102.00	100.50	95.00	99.00	95.00 CMS
Runoff	449.45	532.87	497.72	472.91	577.09	1496.62	553.82	392.82	322.32	325.77	259.24	276.83	6157.47 MCM
Momentary Peak		892.00	CMS. at 26.55 m. (MSL.)										at 17.00 Hours , on Sep 7 , 2019
Runoff Yield		5.95	Liters/Second/Square KM.										Momentary Peak Yield 27.17 Liters/Second/Square KM.

## WATER YEAR : 2019

## NAN RIVER BASIN

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

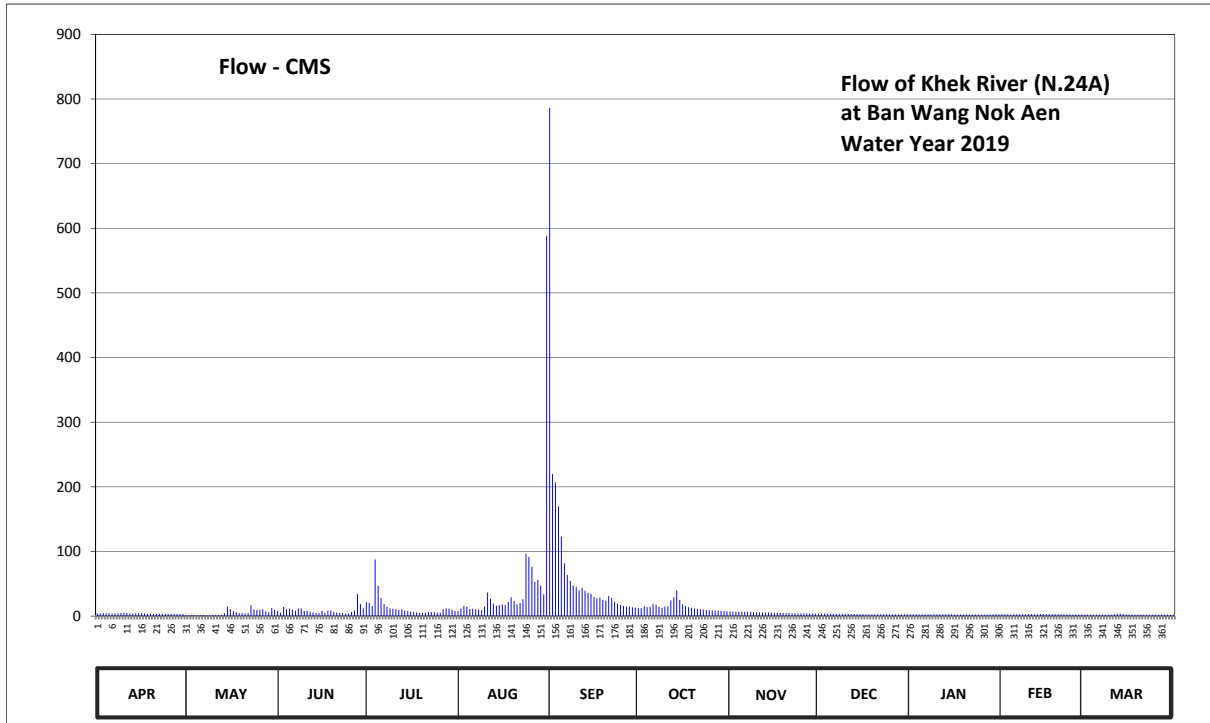
Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	<b>Ban Wang Nok Aen</b>	<b>Amphoe Wang Thong</b>	<b>Changwat Phitsanulok</b>
<b>Drainage Area</b>	1,839 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+40.710 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+54.851 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 - 1974 , 1980 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1965 - 1974 , 1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +53.830 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.11	41.63	42.66	44.09	42.65	54.69	43.18	42.60	42.09	41.87	41.88	41.81	
2	42.18	41.63	42.32	44.00	43.09	50.58	43.18	42.58	42.08	41.87	41.88	41.80	
3	42.22	41.78	43.37	43.51	43.54	50.39	43.46	42.56	42.07	41.87	41.88	41.80	
4	42.17	41.73	42.98	47.76	43.39	49.76	43.34	42.54	42.06	41.87	41.88	41.79	
5	42.18	41.69	43.08	45.92	43.06	48.76	43.38	42.52	42.05	41.87	41.89	41.79	
6	42.09	41.66	42.92	44.60	43.04	47.53	43.81	42.50	42.04	41.87	41.89	41.80	
7	42.15	41.64	42.71	43.81	43.01	46.79	43.72	42.48	42.03	41.87	41.89	41.80	
8	42.18	41.63	43.12	43.42	42.94	46.33	43.41	42.46	42.02	41.87	41.90	41.80	
9	42.20	41.63	43.12	43.16	42.83	45.96	43.23	42.44	42.01	41.87	41.90	41.79	
10	42.24	41.67	42.68	43.08	43.46	45.84	43.45	42.42	42.00	41.87	41.91	41.79	
11	42.26	41.67	42.75	43.01	45.25	45.49	43.50	42.40	41.99	41.87	41.91	41.91	
12	42.11	41.65	42.53	42.90	44.52	45.73	44.31	42.38	41.98	41.87	41.91	42.03	
13	42.10	41.66	42.36	42.96	43.87	45.47	44.70	42.36	41.97	41.87	41.92	42.04	
14	42.17	42.20	42.26	42.76	43.57	45.23	45.49	42.34	41.96	41.87	41.92	41.96	
15	42.22	43.43	42.17	42.64	43.68	45.09	44.39	42.32	41.94	41.87	41.92	41.83	
16	42.21	43.03	42.67	42.52	43.77	44.71	43.80	42.30	41.92	41.87	41.93	41.83	
17	42.13	42.63	42.29	42.43	43.67	44.57	43.51	42.28	41.90	41.86	41.93	41.83	
18	42.01	42.39	42.78	42.36	44.10	44.64	43.34	42.26	41.88	41.86	41.93	41.82	
19	42.04	42.21	42.75	42.28	44.69	44.39	43.23	42.24	41.88	41.86	41.94	41.82	
20	42.02	42.17	42.45	42.27	44.25	44.29	43.13	42.22	41.88	41.86	41.93	41.81	
21	42.02	42.09	42.36	42.28	43.80	44.83	43.05	42.20	41.88	41.86	41.90	41.81	
22	42.03	42.23	42.27	42.45	43.98	44.60	42.99	42.18	41.88	41.86	41.89	41.81	
23	42.02	43.66	42.19	42.46	44.47	44.14	42.94	42.16	41.88	41.86	41.88	41.80	
24	41.96	42.97	42.11	42.42	48.05	43.87	42.90	42.14	41.88	41.86	41.87	41.80	
25	41.98	42.90	42.08	42.32	47.89	43.69	42.85	42.13	41.88	41.86	41.86	41.80	
26	42.04	42.93	42.48	42.30	47.34	43.54	42.82	42.12	41.88	41.86	41.85	41.79	
27	42.03	42.97	42.77	43.00	46.27	43.44	42.77	42.12	41.88	41.86	41.84	41.79	
28	42.01	42.60	45.07	43.14	46.42	43.47	42.72	42.11	41.88	41.87	41.83	41.80	
29	41.98	42.39	43.81	43.07	45.93	43.32	42.69	42.11	41.88	41.87	41.82	41.80	
30	42.02	43.18	43.15	42.92	45.03	43.25	42.66	42.10	41.88	41.87	41.87	41.80	
31		42.87		42.67	53.81		42.61		41.88	41.88		41.80	
Mean	42.10	42.27	42.74	43.18	44.69	45.81	43.37	42.32	41.95	41.87	41.89	41.83	
Max	42.26	43.66	45.07	47.76	53.81	54.69	45.49	42.60	42.09	41.88	41.94	42.04	54.69
Min	41.96	41.63	42.08	42.27	42.65	43.25	42.61	42.10	41.88	41.86	41.82	41.79	41.63
Annual Max Momentary Gage Height	55.09		m. (MSL.) ,				at 07.00 Hours ,						on Sep 1 , 2019
Zero Gage at Bottom Elevation	40.71		m. (MSL.) ,			River Bed	41.63	m. (MSL.)					
Left Bank Elevation		53.82		m. (MSL.) ,									
Right Bank Elevation		54.14		m. (MSL.) ,		Drainage Are	1,839	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.06	1.32	7.82	21.59	7.75	786.29	12.36	7.40	3.94	2.62	2.68	2.26	
2	4.48	1.32	5.44	20.60	11.51	219.84	12.36	7.26	3.88	2.62	2.68	2.20	
3	4.74	2.08	14.17	15.50	15.78	206.99	15.02	7.12	3.82	2.62	2.68	2.20	
4	4.42	1.78	10.46	87.72	14.36	169.68	13.88	6.98	3.76	2.62	2.68	2.14	
5	4.48	1.56	11.41	46.76	11.22	122.96	14.26	6.84	3.70	2.62	2.74	2.14	
6	3.94	1.44	9.89	28.00	11.03	81.51	18.51	6.70	3.64	2.62	2.74	2.20	
7	4.30	1.36	8.17	18.51	10.75	63.60	17.52	6.56	3.58	2.62	2.74	2.20	
8	4.48	1.32	11.79	14.64	10.08	54.40	14.55	6.42	3.52	2.62	2.80	2.20	
9	4.60	1.32	11.79	12.17	9.07	47.48	12.84	6.28	3.46	2.62	2.80	2.14	
10	4.88	1.48	7.96	11.41	15.02	45.32	14.93	6.14	3.40	2.62	2.86	2.14	
11	5.02	1.48	8.45	10.75	36.45	39.75	15.40	6.00	3.34	2.62	2.86	2.86	
12	4.06	1.40	6.91	9.70	26.96	43.48	24.23	5.86	3.28	2.62	2.86	3.58	
13	4.00	1.44	5.72	10.27	19.17	39.45	29.30	5.72	3.22	2.62	2.92	3.64	
14	4.42	4.60	5.02	8.52	16.07	36.19	39.75	5.58	3.16	2.62	2.92	3.16	
15	4.74	14.74	4.42	7.68	17.11	34.37	25.27	5.44	3.04	2.62	2.92	2.38	
16	4.67	10.94	7.89	6.84	18.07	29.43	18.40	5.30	2.92	2.62	2.98	2.38	
17	4.18	7.61	5.23	6.21	17.02	27.61	15.50	5.16	2.80	2.56	2.98	2.38	
18	3.46	5.93	8.66	5.72	21.70	28.52	13.88	5.02	2.68	2.56	2.98	2.32	
19	3.64	4.67	8.45	5.16	29.17	25.27	12.84	4.88	2.68	2.56	3.04	2.32	
20	3.52	4.42	6.35	5.09	23.50	23.98	11.89	4.74	2.68	2.56	2.98	2.26	
21	3.52	3.94	5.72	5.16	18.40	30.99	11.13	4.60	2.68	2.56	2.80	2.26	
22	3.58	4.81	5.09	6.35	20.38	28.00	10.56	4.48	2.68	2.56	2.74	2.26	
23	3.52	16.92	4.54	6.42	26.31	22.18	10.08	4.36	2.68	2.56	2.68	2.20	
24	3.16	10.37	4.06	6.14	96.55	19.17	9.70	4.24	2.68	2.56	2.62	2.20	
25	3.28	9.70	3.88	5.44	91.50	17.21	9.25	4.18	2.68	2.56	2.56	2.20	
26	3.64	9.99	6.56	5.30	76.50	15.78	8.98	4.12	2.68	2.56	2.50	2.14	
27	3.58	10.37	8.59	10.65	53.20	14.83	8.59	4.12	2.68	2.56	2.44	2.14	
28	3.46	7.40	34.11	11.98	56.20	15.12	8.24	4.06	2.68	2.62	2.38	2.20	
29	3.28	5.93	18.51	11.32	46.94	13.69	8.03	4.06	2.68	2.62	2.32	2.20	
30	3.52	12.36	12.08	9.89	33.59	13.03	7.82	4.00	2.68	2.62		2.20	
31		9.43		7.89	588.37		7.47		2.68	2.68		2.20	
Total	120.63	173.43	269.14	439.38	1449.73	2316.12	452.54	163.62	95.98	80.62	79.88	73.30	5714.37 CMSDAY
Mean	4.02	5.59	8.97	14.17	46.77	77.20	14.60	5.45	3.10	2.60	2.75	2.36	15.61 CMS
Max	5.02	16.92	34.11	87.72	588.37	786.29	39.75	7.40	3.94	2.68	3.04	3.64	786.29 CMS
Min	3.16	1.32	3.88	5.09	7.75	13.03	7.47	4.00	2.68	2.56	2.32	2.14	1.32 CMS
Runoff	10.42	14.98	23.25	37.96	125.26	200.11	39.10	14.14	8.29	6.97	6.90	6.33	493.72 MCM
Momentary Peak		891.56 CMS.		at 55.09 m. (MSL.)		at 07.00 Hours		on Sep 1, 2019					
Runoff Yield		8.41		Liters/Second/Square KM.		Momentary Peak Yield	479.08		Liters/Second/Square KM.				

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Ban Nong Kham , Phitsanulok (N.27A)

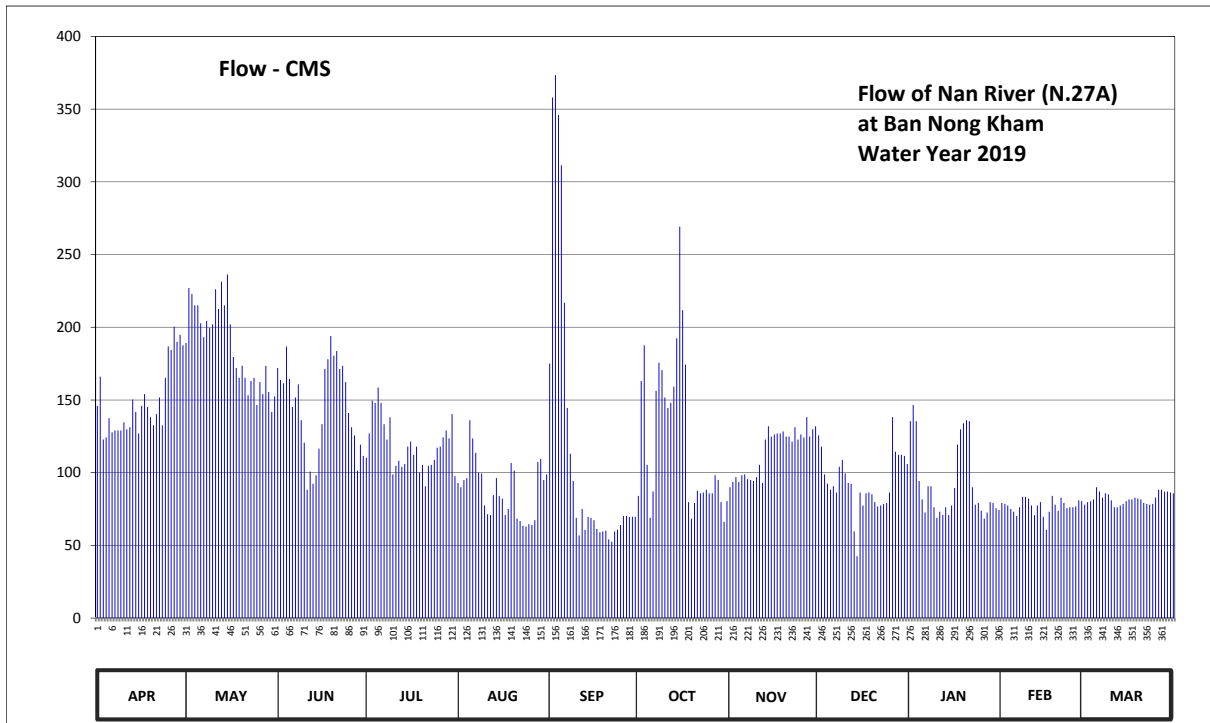
Lat 17 - 01 - 46 N Long 100 - 11 - 00 E

Location : on right bank about 1.8 kilometers downstream from Phrom Phiram Dam.

	<b>Ban Nong Kham</b>	<b>Amphoe Phrom Phiram</b>	<b>Changwat Phitsanulok</b>
<b>Drainage Area</b>	19,360 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+38.430 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 10 meters from the top staff gage.	<b>Elevation</b>	+49.457 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1980 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.17	40.74	40.52	39.66	39.40	40.56	39.25	39.35	39.88	40.02	39.17	39.15	
2	40.44	41.20	40.41	39.90	39.35	42.60	40.40	39.41	39.77	40.18	39.16	39.18	
3	39.84	41.15	40.38	40.22	39.43	42.74	40.72	39.46	39.49	40.02	39.14	39.19	
4	39.86	41.06	40.71	40.20	39.45	42.48	39.59	39.41	39.39	39.42	39.10	39.21	
5	40.05	41.06	40.42	40.34	40.03	42.13	39.00	39.48	39.32	39.21	39.07	39.35	
6	39.91	40.91	40.16	40.20	39.85	41.08	39.30	39.49	39.36	39.06	39.02	39.30	
7	39.93	40.79	40.25	39.99	39.71	40.15	40.31	39.44	39.29	39.36	39.12	39.23	
8	39.93	40.93	40.37	39.84	39.51	39.70	40.57	39.43	39.57	39.36	39.24	39.28	
9	39.93	40.87	40.03	40.06	39.50	39.42	40.50	39.42	39.64	39.12	39.24	39.27	
10	40.01	40.90	39.81	39.49	39.14	39.00	40.25	39.46	39.50	39.00	39.22	39.20	
11	39.94	41.19	39.32	39.58	39.04	38.78	40.15	39.59	39.40	39.07	39.14	39.12	
12	39.96	41.03	39.52	39.63	39.03	39.10	40.20	39.40	39.39	39.03	39.03	39.12	
13	40.23	41.25	39.39	39.57	39.26	38.85	40.35	39.84	38.83	39.12	39.14	39.14	
14	40.11	41.06	39.48	39.60	39.45	39.01	40.78	39.97	38.52	39.03	39.18	39.16	
15	39.90	41.31	39.75	39.77	39.25	39.00	41.68	39.87	39.29	39.14	39.01	39.19	
16	40.17	40.90	39.99	39.82	39.22	38.97	41.02	39.89	39.14	39.34	38.85	39.21	
17	40.28	40.62	40.51	39.69	39.03	38.86	40.55	39.90	39.28	39.79	39.07	39.21	
18	40.16	40.52	40.60	39.77	39.10	38.82	39.18	39.90	39.29	39.94	39.25	39.23	
19	40.06	40.43	40.80	39.51	39.61	38.83	38.99	39.92	39.27	40.00	39.15	39.22	
20	39.98	40.54	40.63	39.59	39.53	38.84	39.17	39.87	39.18	40.03	39.08	39.21	
21	40.09	40.43	40.67	39.36	38.99	38.73	39.31	39.87	39.13	40.02	39.23	39.17	
22	40.25	40.27	40.51	39.58	38.96	38.70	39.28	39.82	39.14	39.35	39.17	39.16	
23	39.98	40.40	40.54	39.59	38.90	38.83	39.29	39.96	39.16	39.15	39.11	39.15	
24	40.43	40.43	40.39	39.64	38.89	38.85	39.32	39.84	39.17	39.17	39.12	39.16	
25	40.71	40.18	40.10	39.76	38.92	38.91	39.28	39.89	39.29	39.08	39.12	39.23	
26	40.68	40.39	39.96	39.77	38.91	39.02	39.28	39.86	40.06	38.99	39.13	39.32	
27	40.88	40.28	39.88	39.86	38.97	39.02	39.48	40.06	39.72	39.06	39.20	39.32	
28	40.75	40.54	39.53	39.93	39.62	39.01	39.43	39.87	39.69	39.18	39.19	39.30	
29	40.81	40.30	39.79	39.85	39.65	39.01	39.18	39.94	39.69	39.17	39.12	39.30	
30	40.72	40.11	39.68	40.09	39.43	39.01	38.95	39.97	39.68	39.11		39.29	
31		40.26		39.47	39.49		39.19		39.60	39.09		39.28	
Mean	40.21	40.71	40.14	39.78	39.31	39.60	39.80	39.72	39.39	39.37	39.13	39.22	
Max	40.88	41.31	40.80	40.34	40.03	42.74	41.68	40.06	40.06	40.18	39.25	39.35	42.74
Min	39.84	40.11	39.32	39.36	38.89	38.70	38.95	39.35	38.52	38.99	38.85	39.12	38.52
Annual Max Momentary Gage Height	42.90		m. (MSL.) ,			at 06.00 Hours ,	on Sep 3 , 2019						
Zero Gage at Bottom Elevation	38.43		m. (MSL.) ,			River Bed	34.01	m. (MSL.)					
Left Bank Elevation		49.38		m. (MSL.) ,									
Right Bank Elevation		48.20		m. (MSL.) ,		Drainage Are	19,360	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	145.90	189.20	172.00	110.20	93.00	175.00	84.00	90.00	125.60	135.40	79.20	78.00		
2	166.00	227.00	163.75	127.00	90.00	358.00	163.00	93.65	117.90	146.60	78.60	79.80		
3	122.80	222.75	161.50	149.50	94.95	373.40	187.60	96.90	98.85	135.40	77.40	80.40		
4	124.20	215.10	186.80	148.00	96.25	346.00	105.35	93.65	92.40	94.30	75.00	81.60		
5	137.50	215.10	164.50	158.50	136.10	311.35	69.00	98.20	88.20	81.60	73.20	90.00		
6	127.70	202.80	145.20	148.00	123.50	216.80	87.00	98.85	90.60	72.60	70.20	87.00		
7	129.10	193.20	151.75	133.30	113.70	144.50	156.25	95.60	86.40	90.60	76.20	82.80		
8	129.10	204.40	160.75	122.80	100.15	113.00	175.75	94.95	104.05	90.60	83.40	85.80		
9	129.10	199.60	136.10	138.20	99.50	94.30	170.50	94.30	108.80	76.20	83.40	85.20		
10	134.70	202.00	120.70	98.85	77.40	69.00	151.75	96.90	99.50	69.00	82.20	81.00		
11	129.80	226.15	88.20	104.70	71.40	56.90	144.50	105.35	93.00	73.20	77.40	76.20		
12	131.20	212.55	100.80	108.10	70.80	75.00	148.00	93.00	92.40	70.80	70.80	76.20		
13	150.25	231.25	92.40	104.05	84.60	60.75	159.25	122.80	59.65	76.20	77.40	77.40		
14	141.70	215.10	98.20	106.00	96.25	69.60	192.40	131.90	42.60	70.80	79.80	78.60		
15	127.00	236.35	116.50	117.90	84.00	69.00	269.20	124.90	86.40	77.40	69.60	80.40		
16	145.90	202.00	133.30	121.40	82.20	67.35	211.70	126.30	77.40	89.40	60.75	81.60		
17	154.00	179.60	171.25	112.30	70.80	61.30	174.25	127.00	85.80	119.30	73.20	81.60		
18	145.20	172.00	178.00	117.90	75.00	59.10	79.80	127.00	86.40	129.80	84.00	82.80		
19	138.20	165.25	194.00	100.15	106.70	59.65	68.45	128.40	85.20	134.00	78.00	82.20		
20	132.60	173.50	180.40	105.35	101.45	60.20	79.20	124.90	79.80	136.10	73.80	81.60		
21	140.30	165.25	183.60	90.60	68.45	54.15	87.60	124.90	76.80	135.40	82.80	79.20		
22	151.75	153.25	171.25	104.70	66.80	52.50	85.80	121.40	77.40	90.00	79.20	78.60		
23	132.60	163.00	173.50	105.35	63.50	59.65	86.40	131.20	78.60	78.00	75.60	78.00		
24	165.25	165.25	162.25	108.80	62.95	60.75	88.20	122.80	79.20	79.20	76.20	78.60		
25	186.80	146.60	141.00	117.20	64.60	64.05	85.80	126.30	86.40	73.80	76.20	82.80		
26	184.40	162.25	131.20	117.90	64.05	70.20	85.80	124.20	138.20	68.45	76.80	88.20		
27	200.40	154.00	125.60	124.20	67.35	70.20	98.20	138.20	114.40	72.60	81.00	88.20		
28	190.00	173.50	101.45	129.10	107.40	69.60	94.95	124.90	112.30	79.80	80.40	87.00		
29	194.80	155.50	119.30	123.50	109.50	69.60	79.80	129.80	112.30	79.20	76.20	87.00		
30	187.60	141.70	111.60	140.30	94.95	69.60	66.25	131.90	111.60	75.60		86.40		
31		152.50		97.55	98.85		80.40		106.00	74.40		85.80		
Total	4475.85	5817.70	4336.85	3691.40	2736.15	3480.50	3816.15	3440.15	2894.15	2875.75	2227.95	2550.00	42342.60	CMSDAY
Mean	149.20	187.67	144.56	119.08	88.26	116.02	123.10	114.67	93.36	92.77	76.83	82.26	115.69	CMS
Max	200.40	236.35	194.00	158.50	136.10	373.40	269.20	138.20	138.20	146.60	84.00	90.00	373.40	CMS
Min	122.80	141.70	88.20	90.60	62.95	52.50	66.25	90.00	42.60	68.45	60.75	76.20	42.60	CMS
Runoff	386.71	502.65	374.70	318.94	236.40	300.72	329.72	297.23	250.05	248.46	192.49	220.32	3658.40	MCM
Momentary Peak	391.00 CMS. at 42.90 m. (MSL.) at 06.00 Hours , on Sep 3 , 2019													
Runoff Yield	5.99 Liters/Second/Square KM.			Momentary Peak Yield				20.20 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Khwaee Noi River at Ban Nong Krathao , Phitsanulok (N.36)

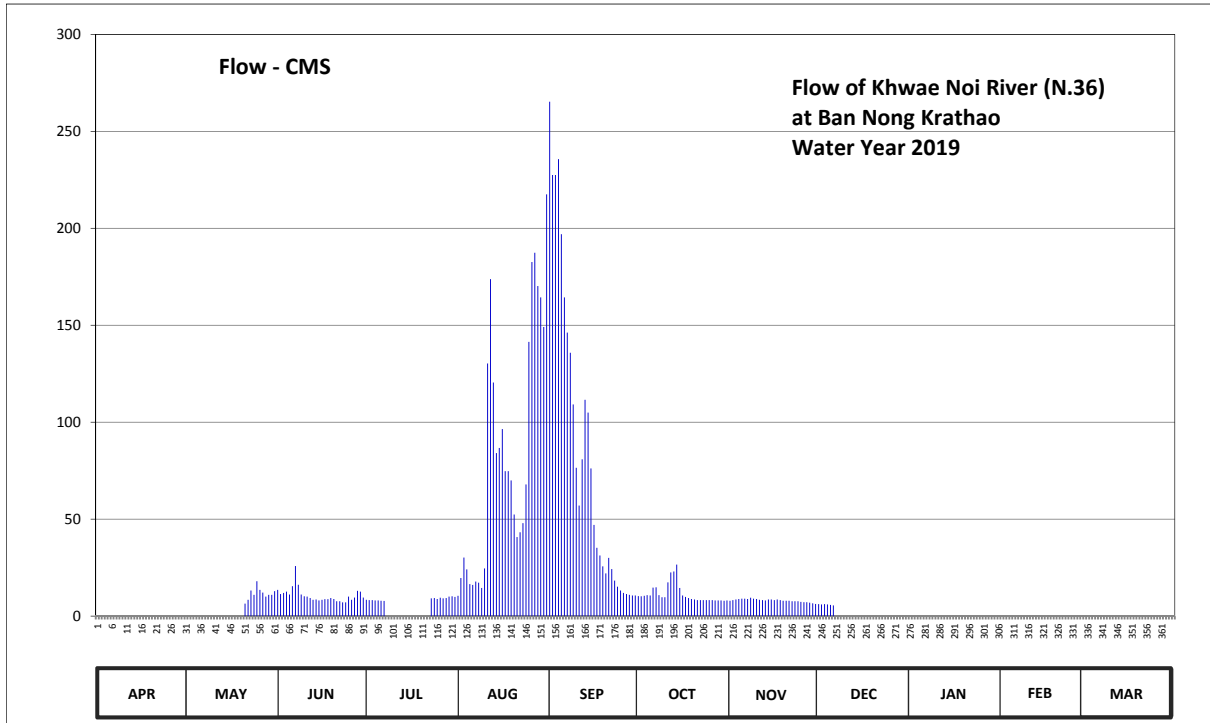
Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

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
<b>Drainage Area</b>	1,710 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+191.880 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank along the measuring line.		<b>Elevation</b> +202.438 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 - 1979 , 1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1971 - 1979 , 1993 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.49	194.16	194.50	194.16	194.30	199.44	194.29	194.13	194.01	194.09	193.38	191.53	
2	193.47	194.16	194.36	194.15	194.91	199.27	194.28	194.15	194.00	194.09	193.27	191.17	
3	193.47	194.17	194.40	194.15	195.54	199.27	194.30	194.17	194.01	194.08	193.14	191.14	
4	193.47	194.15	194.44	194.14	195.19	199.31	194.32	194.19	194.00	194.05	193.06	191.37	
5	193.47	194.15	194.34	194.14	194.70	199.10	194.31	194.20	193.98	194.03	193.00	191.70	
6	193.47	194.13	194.63	194.13	194.67	198.86	194.58	194.20	193.95	194.02	192.97	192.34	
7	193.47	194.12	195.29	194.12	194.79	198.69	194.59	194.19	193.96	194.09	192.84	193.12	
8	193.47	194.12	194.68	194.11	194.75	198.56	194.32	194.23	193.95	194.08	192.63	193.51	
9	193.47	194.12	194.34	194.11	194.57	198.17	194.25	194.20	193.95	194.03	192.35	194.06	
10	194.17	194.18	194.28	194.13	195.22	197.50	194.25	194.19	193.98	193.95	192.10	194.16	
11	194.07	194.19	194.27	194.13	198.49	196.83	194.76	194.16	193.98	193.87	192.09	193.98	
12	193.88	194.19	194.22	194.12	198.94	197.61	195.10	194.15	193.99	193.84	192.05	193.76	
13	193.85	194.31	194.16	194.12	198.35	198.21	195.13	194.14	193.99	193.64	191.87	193.49	
14	193.84	194.34	194.17	194.11	197.69	198.10	195.33	194.17	193.96	193.56	192.80	193.27	
15	193.84	194.33	194.14	194.11	197.75	197.49	194.57	194.17	194.01	193.60	193.05	193.09	
16	193.99	194.32	194.16	194.11	197.95	196.40	194.31	194.15	193.98	193.56	192.74	192.53	
17	194.16	194.32	194.18	194.10	197.45	195.81	194.26	194.17	193.99	193.69	192.45	192.08	
18	194.16	194.32	194.18	194.10	197.45	195.60	194.22	194.15	194.15	193.73	191.85	191.78	
19	194.15	194.31	194.22	194.10	197.30	195.28	194.19	194.13	194.08	193.79	192.11	191.49	
20	194.12	194.10	194.19	194.12	196.64	195.07	194.17	194.13	194.00	193.83	192.13	191.13	
21	194.12	194.03	194.11	194.15	196.09	195.53	194.15	194.13	193.88	193.85	192.23	191.29	
22	194.12	194.16	194.11	194.17	196.21	195.20	194.15	194.11	193.79	193.96	192.02	191.72	
23	194.11	194.48	194.07	194.21	196.44	194.82	194.15	194.11	193.87	193.96	191.67	192.68	
24	194.07	194.33	194.07	194.22	197.23	194.61	194.15	194.11	194.01	193.84	191.55	194.32	
25	194.09	194.80	194.27	194.19	198.63	194.48	194.15	194.09	194.03	193.76	191.79	194.33	
26	194.09	194.50	194.16	194.23	199.01	194.40	194.15	194.08	194.08	194.00	191.75	194.21	
27	194.16	194.41	194.24	194.21	199.04	194.36	194.14	194.08	194.07	194.07	191.71	194.14	
28	194.15	194.27	194.47	194.22	198.91	194.33	194.14	194.06	194.09	193.87	191.81	194.09	
29	194.12	194.33	194.44	194.27	198.86	194.31	194.14	194.04	194.09	193.70	191.52	193.99	
30	194.15	194.33	194.24	194.28	198.72	194.31	194.13	194.02	194.09	193.57	193.91	193.91	
31		194.46		194.26	199.22		194.14		194.08	193.45	193.71	193.71	
Mean	193.89	194.27	194.31	194.16	196.94	196.70	194.36	194.14	194.00	193.86	192.34	192.87	
Max	194.17	194.80	195.29	194.28	199.22	199.44	195.33	194.23	194.15	194.09	193.38	194.33	199.44
Min	193.47	194.03	194.07	194.10	194.30	194.31	194.13	194.02	193.79	193.45	191.52	191.13	191.13
Annual Max Momentary Gage Height	199.48		m. (MSL.) ,				at 23.00 Hours , on Aug 31 , 2019						
Zero Gage at Bottom Elevation	191.88		m. (MSL.) ,			River Bed	190.88	m. (MSL.)					
Left Bank Elevation		200.86		m. (MSL.) ,									
Right Bank Elevation		200.44		m. (MSL.) ,		Drainage Are	1,710	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	13.50	8.40	10.50	265.30	10.35	7.95	6.15	0.00	0.00	0.00	
2	0.00	0.00	11.40	8.25	19.65	227.50	10.20	8.25	6.00	0.00	0.00	0.00	
3	0.00	0.00	12.00	8.25	30.20	227.50	10.50	8.55	6.15	0.00	0.00	0.00	
4	0.00	0.00	12.60	8.10	24.08	235.70	10.80	8.85	6.00	0.00	0.00	0.00	
5	0.00	0.00	11.10	8.10	16.50	197.00	10.65	9.00	5.80	0.00	0.00	0.00	
6	0.00	0.00	15.45	7.95	16.05	164.40	14.70	9.00	5.50	0.00	0.00	0.00	
7	0.00	0.00	25.83	7.80	17.85	146.20	14.85	8.85	0.00	0.00	0.00	0.00	
8	0.00	0.00	16.20	0.00	17.25	135.80	10.80	9.45	0.00	0.00	0.00	0.00	
9	0.00	0.00	11.10	0.00	14.55	109.20	9.75	9.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	10.20	0.00	24.60	76.50	9.75	8.85	0.00	0.00	0.00	0.00	
11	0.00	0.00	10.05	0.00	130.30	57.00	17.40	8.40	0.00	0.00	0.00	0.00	
12	0.00	0.00	9.30	0.00	173.80	80.90	22.50	8.25	0.00	0.00	0.00	0.00	
13	0.00	0.00	8.40	0.00	120.50	111.60	23.03	8.10	0.00	0.00	0.00	0.00	
14	0.00	0.00	8.55	0.00	84.10	105.00	26.53	8.55	0.00	0.00	0.00	0.00	
15	0.00	0.00	8.10	0.00	86.75	76.15	14.55	8.55	0.00	0.00	0.00	0.00	
16	0.00	0.00	8.40	0.00	96.50	47.00	10.65	8.25	0.00	0.00	0.00	0.00	
17	0.00	0.00	8.70	0.00	74.75	35.20	9.90	8.55	0.00	0.00	0.00	0.00	
18	0.00	0.00	8.70	0.00	74.75	31.25	9.30	8.25	0.00	0.00	0.00	0.00	
19	0.00	0.00	9.30	0.00	70.00	25.65	8.85	7.95	0.00	0.00	0.00	0.00	
20	0.00	0.00	8.85	0.00	52.40	22.05	8.55	7.95	0.00	0.00	0.00	0.00	
21	0.00	6.45	7.65	0.00	40.80	30.03	8.25	7.95	0.00	0.00	0.00	0.00	
22	0.00	8.40	7.65	0.00	43.20	24.25	8.25	7.65	0.00	0.00	0.00	0.00	
23	0.00	13.20	7.05	9.15	47.90	18.30	8.25	7.65	0.00	0.00	0.00	0.00	
24	0.00	10.95	7.05	9.30	67.90	15.15	8.25	7.65	0.00	0.00	0.00	0.00	
25	0.00	18.00	10.05	8.85	141.40	13.20	8.25	7.35	0.00	0.00	0.00	0.00	
26	0.00	13.50	8.40	9.45	182.60	12.00	8.25	7.20	0.00	0.00	0.00	0.00	
27	0.00	12.15	9.60	9.15	187.40	11.40	8.10	7.20	0.00	0.00	0.00	0.00	
28	0.00	10.05	13.05	9.30	170.20	10.95	8.10	6.90	0.00	0.00	0.00	0.00	
29	0.00	10.95	12.60	10.05	164.40	10.65	8.10	6.60	0.00	0.00	0.00	0.00	
30	0.00	10.95	9.60	10.20	149.10	10.65	7.95	6.30	0.00	0.00	0.00	0.00	
31	0.00	12.90		9.90	217.50		8.10		0.00	0.00		0.00	
<b>Total</b>	0.00	127.50	320.43	142.20	2567.48	2533.48	353.46	243.00	35.60	0.00	0.00	0.00	6323.15 CMSDAY
<b>Mean</b>	0.00	4.11	10.68	4.59	82.82	84.45	11.40	8.10	1.15	0.00	0.00	0.00	17.28 CMS
<b>Max</b>	0.00	18.00	25.83	10.20	217.50	265.30	26.53	9.45	6.15	0.00	0.00	0.00	265.30 CMS
<b>Min</b>	0.00	0.00	7.05	0.00	10.50	10.65	7.95	6.30	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	11.02	27.69	12.29	221.83	218.89	30.54	21.00	3.08	0.00	0.00	0.00	546.32 MCM
<b>Momentary Peak</b>	275.10	CMS. at 199.48 m. (MSL.) at 23.00 Hours , on Aug 31 , 2019											
<b>Runoff Yield</b>	10.13	Liters/Second/Square KM. Momentary Peak Yield 160.88 Liters/Second/Square KM.											



### WATER YEAR : 2019

#### NAN RIVER BASIN

**Nan River at Ban Thap Krit , Nakhon Sawan (N.37)**

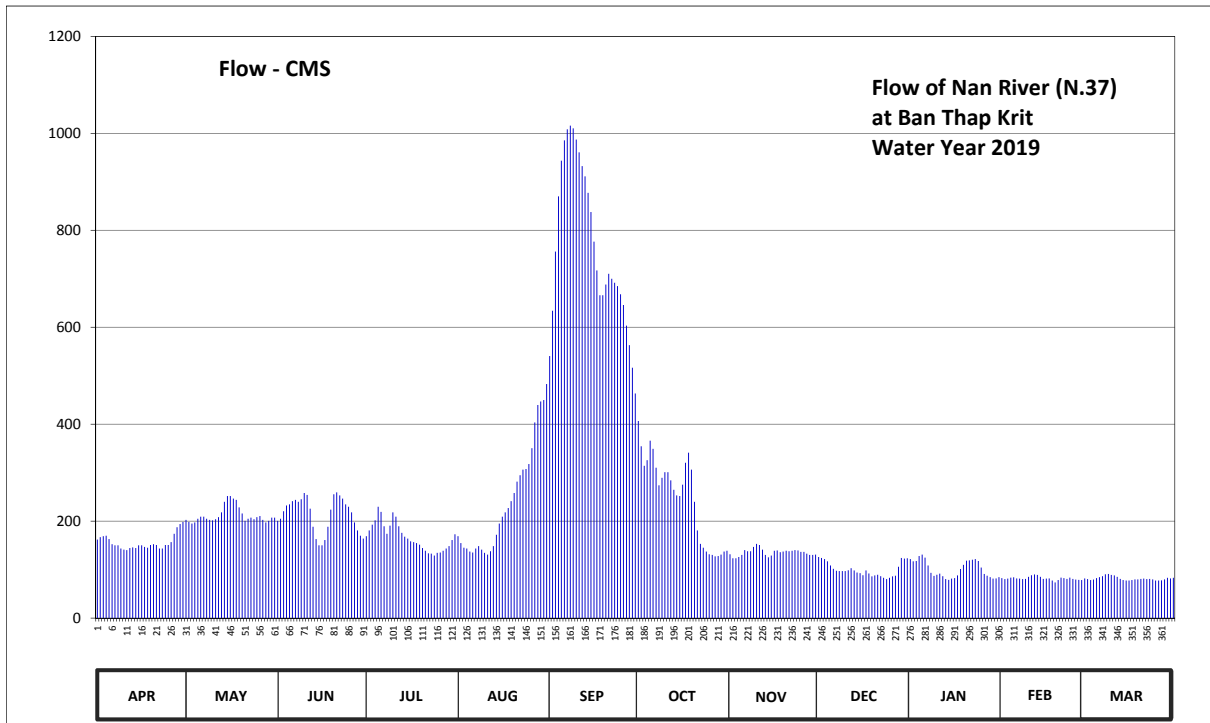
Lat 15 - 45 - 20 N    Long 100 - 15 - 29 E

**Location : on right bank at Ban Thap Krit.**

	<b>Ban Thap Krit</b>	<b>Amphoe Chum Saeng</b>	<b>Changwat Nakhon Sawan</b>
<b>Drainage Area</b>	57,613 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank in front of automatic gage building.		<b>Elevation</b> +27.246 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1971 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1971 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1971 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2019.		

#### Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.29	18.68	18.66	18.36	18.36	21.11	20.23	17.91	17.83	17.77	17.13	17.12	
2	18.34	18.64	18.70	18.48	18.21	21.67	19.88	17.79	17.80	17.70	17.09	17.09	
3	18.36	18.61	18.84	18.59	18.09	22.39	19.57	17.79	17.77	17.71	17.11	17.05	
4	18.37	18.63	18.94	18.67	18.07	23.04	19.66	17.83	17.70	17.86	17.15	17.07	
5	18.30	18.70	18.96	18.92	17.99	23.43	19.96	17.89	17.58	17.90	17.16	17.13	
6	18.18	18.74	19.01	18.83	17.96	23.65	19.84	18.03	17.48	17.81	17.12	17.17	
7	18.15	18.74	19.03	18.56	18.07	23.77	19.54	18.00	17.41	17.58	17.11	17.21	
8	18.15	18.70	19.00	18.41	18.13	23.81	19.26	18.00	17.40	17.34	17.09	17.29	
9	18.07	18.68	19.04	18.57	18.04	23.78	19.38	18.11	17.40	17.22	17.10	17.30	
10	18.04	18.67	19.14	18.82	17.95	23.66	19.47	18.19	17.40	17.27	17.18	17.26	
11	18.03	18.69	19.11	18.74	17.90	23.52	19.47	18.16	17.43	17.31	17.25	17.24	
12	18.08	18.73	18.89	18.56	18.00	23.37	19.34	18.04	17.50	17.21	17.28	17.18	
13	18.10	18.82	18.55	18.43	18.13	23.26	19.19	17.89	17.42	17.09	17.26	17.10	
14	18.08	19.00	18.30	18.35	18.39	23.08	19.10	17.82	17.35	17.06	17.18	17.05	
15	18.15	19.09	18.15	18.31	18.61	22.86	19.09	17.87	17.33	17.11	17.10	17.03	
16	18.15	19.09	18.15	18.25	18.74	22.51	19.27	18.01	17.25	17.13	17.11	17.03	
17	18.11	19.05	18.28	18.23	18.82	22.16	19.62	18.02	17.42	17.24	17.12	17.05	
18	18.09	19.03	18.55	18.21	18.90	21.86	19.78	17.97	17.32	17.47	17.03	17.08	
19	18.16	18.91	18.87	18.17	19.01	21.86	19.51	17.99	17.20	17.60	16.95	17.08	
20	18.18	18.80	19.12	18.08	19.14	21.99	19.00	18.01	17.24	17.72	17.05	17.10	
21	18.16	18.66	19.15	18.01	19.32	22.12	18.48	18.00	17.27	17.73	17.15	17.11	
22	18.07	18.70	19.10	17.94	19.42	22.06	18.19	18.01	17.21	17.75	17.13	17.09	
23	18.07	18.72	19.05	17.93	19.51	22.01	18.09	18.03	17.14	17.77	17.10	17.10	
24	18.16	18.69	18.96	17.87	19.52	21.97	17.99	18.02	17.09	17.71	17.15	17.08	
25	18.16	18.73	18.92	17.95	19.60	21.87	17.91	17.98	17.14	17.52	17.10	17.03	
26	18.23	18.75	18.82	17.96	19.85	21.74	17.89	17.98	17.20	17.30	17.07	17.03	
27	18.41	18.68	18.63	18.01	20.21	21.49	17.85	17.93	17.23	17.23	17.06	17.04	
28	18.54	18.63	18.48	18.07	20.45	21.25	17.86	17.89	17.54	17.17	17.05	17.08	
29	18.60	18.66	18.37	18.13	20.50	20.96	17.90	17.89	17.80	17.11	17.08	17.14	
30	18.64	18.72	18.31	18.28	20.52	20.61	17.99	17.90	17.78	17.12	17.12	17.12	
31		18.72		18.40	20.74		18.01		17.79	17.17		17.14	
Mean	18.21	18.76	18.77	18.33	18.91	22.43	18.98	17.96	17.43	17.44	17.12	17.12	
Max	18.64	19.09	19.15	18.92	20.74	23.81	20.23	18.19	17.83	17.90	17.28	17.30	23.81
Min	18.03	18.61	18.15	17.87	17.90	20.61	17.85	17.79	17.09	17.06	16.95	17.03	16.95
Annual Max Momentary Gage Height	23.82		m. (MSL.) ,				at 09.00 Hours , on Sep 8 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	12.97	m. (MSL.)					
Left Bank Elevation		27.91		m. (MSL.) ,									
Right Bank Elevation		27.95		m. (MSL.) ,		Drainage Area	57,613	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	162.10	202.80	200.60	169.00	169.00	540.60	406.50	131.70	126.10	121.90	82.50	82.00		
2	167.00	198.40	205.00	181.00	154.90	633.90	354.40	123.30	124.00	117.00	80.50	80.50		
3	169.00	195.10	220.40	192.90	145.20	756.30	314.10	123.30	121.90	117.70	81.50	78.50		
4	170.00	197.30	232.20	201.70	143.60	870.20	325.80	126.10	117.00	128.20	83.50	79.50		
5	163.00	205.00	234.80	229.60	137.30	943.70	366.00	130.30	108.60	131.00	84.00	82.50		
6	152.40	209.40	241.30	219.30	135.20	985.50	349.20	140.40	101.80	124.70	82.00	84.50		
7	150.00	209.40	243.90	189.60	143.60	1008.30	310.20	138.00	97.60	108.60	81.50	86.50		
8	150.00	205.00	240.00	174.00	148.40	1015.90	273.80	138.00	97.00	93.40	80.50	90.50		
9	143.60	202.80	245.20	190.70	141.20	1010.20	289.40	146.80	97.00	87.00	81.00	91.00		
10	141.20	201.70	258.20	218.20	134.50	987.40	301.10	153.20	97.00	89.50	85.00	89.00		
11	140.40	203.90	254.30	209.40	131.00	960.80	301.10	150.80	98.80	91.60	88.50	88.00		
12	144.40	208.30	225.90	189.60	138.00	932.30	284.20	141.20	103.00	86.50	90.00	85.00		
13	146.00	218.20	188.50	176.00	148.40	911.40	264.70	130.30	98.20	80.50	89.00	81.00		
14	144.40	240.00	163.00	168.00	172.00	877.40	253.00	125.40	94.00	79.00	85.00	78.50		
15	150.00	251.70	150.00	164.00	195.10	837.80	251.70	128.90	92.80	81.50	81.00	77.50		
16	150.00	251.70	150.00	158.50	209.40	776.70	275.10	138.80	88.50	82.50	81.50	77.50		
17	146.80	246.50	161.20	156.70	218.20	717.20	320.60	139.60	98.20	88.00	82.00	78.50		
18	145.20	243.90	188.50	154.90	227.00	666.20	341.40	135.90	92.20	101.20	77.50	80.00		
19	150.80	228.30	223.70	151.60	241.30	666.20	306.30	137.30	86.00	110.00	73.50	80.00		
20	152.40	216.00	255.60	144.40	258.20	688.30	240.00	138.80	88.00	118.40	78.50	81.00		
21	150.80	200.60	259.50	138.80	281.60	710.40	181.00	138.00	89.50	119.10	83.50	81.50		
22	143.60	205.00	253.00	133.80	294.60	700.20	153.20	138.80	86.50	120.50	82.50	80.50		
23	143.60	207.20	246.50	133.10	306.30	691.70	145.20	140.40	83.00	121.90	81.00	81.00		
24	150.80	203.90	234.80	128.90	307.60	684.90	137.30	139.60	80.50	117.70	83.50	80.00		
25	150.80	208.30	229.60	134.50	318.00	667.90	131.70	136.60	83.00	104.40	81.00	77.50		
26	156.70	210.50	218.20	135.20	350.50	645.80	130.30	136.60	86.00	91.00	79.50	77.50		
27	174.00	202.80	197.30	138.80	403.50	603.30	127.50	133.10	87.50	87.50	79.00	78.00		
28	187.40	197.30	181.00	143.60	439.50	563.00	128.20	130.30	105.80	84.50	78.50	80.00		
29	194.00	200.60	170.00	148.40	447.00	516.60	131.00	130.30	124.00	81.50	80.00	83.00		
30	198.40	207.20	164.00	161.20	450.00	463.50	137.30	131.00	122.60	82.00		82.00		
31		207.20		173.00	483.00		138.80		123.30	84.50		83.00		
<b>Total</b>	<b>4688.80</b>	<b>6586.00</b>	<b>6436.20</b>	<b>5208.40</b>	<b>7473.10</b>	<b>23033.60</b>	<b>7670.10</b>	<b>4072.80</b>	<b>3099.40</b>	<b>3132.80</b>	<b>2377.00</b>	<b>2535.50</b>	<b>76313.70</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>156.29</b>	<b>212.45</b>	<b>214.54</b>	<b>168.01</b>	<b>241.07</b>	<b>767.79</b>	<b>247.42</b>	<b>135.76</b>	<b>99.98</b>	<b>101.06</b>	<b>81.97</b>	<b>81.79</b>	<b>208.51</b>	<b>CMS</b>
<b>Max</b>	<b>198.40</b>	<b>251.70</b>	<b>259.50</b>	<b>229.60</b>	<b>483.00</b>	<b>1015.90</b>	<b>406.50</b>	<b>153.20</b>	<b>126.10</b>	<b>131.00</b>	<b>90.00</b>	<b>91.00</b>	<b>1015.90</b>	<b>CMS</b>
<b>Min</b>	<b>140.40</b>	<b>195.10</b>	<b>150.00</b>	<b>128.90</b>	<b>131.00</b>	<b>463.50</b>	<b>127.50</b>	<b>123.30</b>	<b>80.50</b>	<b>79.00</b>	<b>73.50</b>	<b>77.50</b>	<b>73.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>405.11</b>	<b>569.03</b>	<b>556.09</b>	<b>450.01</b>	<b>645.68</b>	<b>1990.10</b>	<b>662.70</b>	<b>351.89</b>	<b>267.79</b>	<b>270.67</b>	<b>205.37</b>	<b>219.07</b>	<b>6593.50</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1017.80</b>	<b>CMS.</b>	<b>at 23.82 m. (MSL.)</b>	<b>at 09.00 Hours</b>	<b>, on Sep 8, 2019</b>									
<b>Runoff Yield</b>	<b>3.63</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>17.67</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## NAN RIVER BASIN

## Khlong Chom Phu at Ban Chom Phu , Phitsanulok (N.43A)

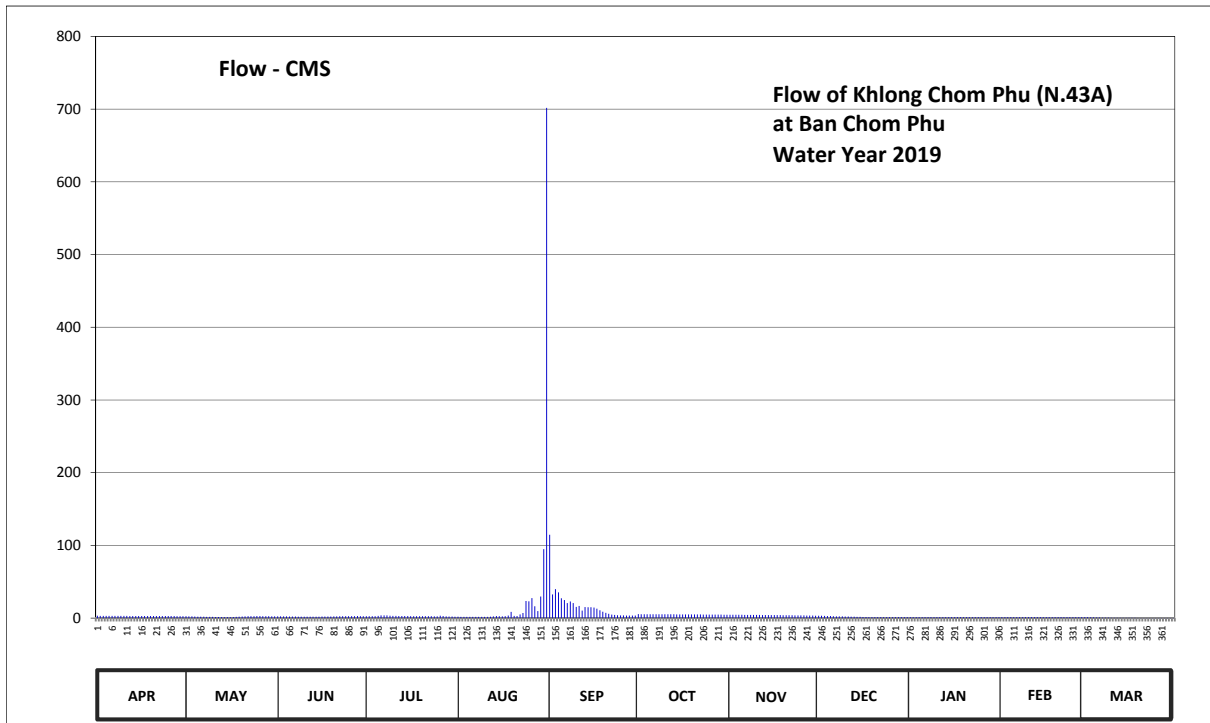
Lat 16 - 41 - 40 N Long 100 - 39 - 28 E

Location : on right bank at Ban Chom Phu.

	<b>Ban</b> Chom Phu	<b>Amphoe</b> Noen Maprang	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	434 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+50.056 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b> +63.086 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +59.120 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 7 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.16	52.04	52.02	52.04	51.91	57.71	52.57	52.43	52.18	51.78	51.79	51.78	
2	52.15	52.01	52.01	52.04	51.89	55.18	52.56	52.43	52.16	51.78	51.79	51.76	
3	52.15	51.98	51.99	52.05	51.88	55.60	52.56	52.42	52.14	51.78	51.79	51.74	
4	52.14	51.95	51.98	52.05	51.88	55.36	52.56	52.41	52.11	51.78	51.79	51.72	
5	52.14	51.93	51.96	52.15	51.87	54.84	52.55	52.41	52.09	51.78	51.79	51.70	
6	52.14	51.91	51.95	52.27	51.86	54.65	52.55	52.40	52.06	51.78	51.79	51.68	
7	52.13	51.90	51.94	52.26	51.85	54.33	52.55	52.40	52.02	51.78	51.79	51.66	
8	52.13	51.88	51.93	52.28	51.85	54.49	52.54	52.39	52.02	51.78	51.79	51.64	
9	52.12	51.87	51.92	52.19	51.85	54.32	52.54	52.38	51.99	51.78	51.79	51.63	
10	52.12	51.85	51.91	52.15	51.85	53.82	52.54	52.38	51.96	51.78	51.79	51.61	
11	52.12	51.83	51.90	52.13	51.87	53.94	52.53	52.37	51.94	51.78	51.79	51.60	
12	52.11	51.81	51.90	52.11	51.92	53.28	52.53	52.36	51.92	51.78	51.79	51.59	
13	52.11	51.80	51.90	52.09	52.02	53.80	52.53	52.36	51.90	51.78	51.79	51.59	
14	52.10	51.79	51.92	52.08	52.09	53.78	52.52	52.35	51.88	51.78	51.79	51.59	
15	52.10	51.78	51.93	52.07	52.05	53.78	52.52	52.34	51.85	51.78	51.79	51.58	
16	52.10	51.80	51.95	52.06	52.02	53.74	52.51	52.34	51.83	51.78	51.79	51.58	
17	52.09	51.83	51.97	52.06	52.06	53.57	52.51	52.33	51.81	51.78	51.79	51.58	
18	52.09	51.87	51.96	52.05	52.21	53.34	52.51	52.33	51.79	51.78	51.79	51.58	
19	52.09	51.91	51.97	52.04	53.07	53.10	52.50	52.32	51.77	51.78	51.79	51.57	
20	52.08	51.96	51.99	52.04	52.13	52.86	52.50	52.31	51.77	51.78	51.79	51.57	
21	52.08	52.02	52.02	52.03	52.11	52.64	52.49	52.30	51.77	51.78	51.79	51.57	
22	52.08	52.05	52.03	52.03	52.51	52.48	52.49	52.29	51.77	51.78	51.79	51.57	
23	52.08	52.04	52.04	52.05	52.82	52.38	52.48	52.28	51.77	51.78	51.79	51.57	
24	52.07	52.05	52.05	52.02	54.54	52.32	52.48	52.27	51.77	51.78	51.79	51.56	
25	52.07	52.07	52.04	52.00	54.52	52.27	52.47	52.26	51.77	51.78	51.79	51.56	
26	52.07	52.07	52.04	52.16	54.86	52.25	52.47	52.25	51.77	51.78	51.79	51.56	
27	52.07	52.05	52.04	52.07	53.91	52.22	52.46	52.24	51.77	51.78	51.79	51.56	
28	52.06	52.04	52.07	52.01	53.22	52.22	52.45	52.23	51.77	51.78	51.79	51.57	
29	52.06	52.03	52.05	51.97	55.00	52.21	52.45	52.21	51.78	51.79	51.79	51.57	
30	52.06	52.02	52.04	51.94	57.32	52.21	52.44	52.19	51.78	51.79	51.79	51.57	
31		52.02		51.92	61.71		52.44		51.78	51.79		51.57	
Mean	52.10	51.94	51.98	52.08	52.99	53.62	52.51	52.33	51.89	51.78	51.79	51.61	
Max	52.16	52.07	52.07	52.28	61.71	57.71	52.57	52.43	52.18	51.79	51.79	51.78	61.71
Min	52.06	51.78	51.90	51.92	51.85	52.21	52.44	52.19	51.77	51.78	51.79	51.56	51.56
Annual Max Momentary Gage Height	62.16		m. (MSL.) ,				at 06.00 Hours , on Aug 31 , 2019						
Zero Gage at Bottom Elevation	50.06		m. (MSL.) ,			River Bed	49.47	m. (MSL.)					
Left Bank Elevation	59.88		m. (MSL.) ,										
Right Bank Elevation	59.11		m. (MSL.) ,			Drainage Are	434	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	2.60	2.50	2.60	1.95	114.73	5.42	4.62	3.30	1.30	1.35	1.30	
2	3.15	2.45	2.45	2.60	1.85	32.48	5.36	4.62	3.20	1.30	1.35	1.20	
3	3.15	2.30	2.35	2.65	1.80	39.90	5.36	4.56	3.10	1.30	1.35	1.10	
4	3.10	2.15	2.30	2.65	1.80	35.48	5.36	4.51	2.95	1.30	1.35	1.00	
5	3.10	2.05	2.20	3.15	1.75	27.32	5.30	4.51	2.85	1.30	1.35	0.90	
6	3.10	1.95	2.15	3.75	1.70	24.85	5.30	4.45	2.70	1.30	1.35	0.80	
7	3.05	1.90	2.10	3.70	1.65	20.76	5.30	4.45	2.50	1.30	1.35	0.70	
8	3.05	1.80	2.05	3.80	1.65	22.77	5.24	4.40	2.50	1.30	1.35	0.60	
9	3.00	1.75	2.00	3.35	1.65	20.64	5.24	4.34	2.35	1.30	1.35	0.55	
10	3.00	1.65	1.95	3.15	1.65	15.40	5.24	4.34	2.20	1.30	1.35	0.45	
11	3.00	1.55	1.90	3.05	1.75	16.60	5.18	4.29	2.10	1.30	1.35	0.40	
12	2.95	1.45	1.90	2.95	2.00	10.24	5.18	4.23	2.00	1.30	1.35	0.36	
13	2.95	1.40	1.90	2.85	2.50	15.20	5.18	4.23	1.90	1.30	1.35	0.36	
14	2.90	1.35	2.00	2.80	2.85	15.00	5.12	4.18	1.80	1.30	1.35	0.36	
15	2.90	1.30	2.05	2.75	2.65	15.00	5.12	4.12	1.65	1.30	1.35	0.32	
16	2.90	1.40	2.15	2.70	2.50	14.60	5.06	4.12	1.55	1.30	1.35	0.32	
17	2.85	1.55	2.25	2.70	2.70	12.90	5.06	4.07	1.45	1.30	1.35	0.32	
18	2.85	1.75	2.20	2.65	3.45	10.72	5.06	4.07	1.35	1.30	1.35	0.32	
19	2.85	1.95	2.25	2.60	8.64	8.85	5.00	4.01	1.25	1.30	1.35	0.28	
20	2.80	2.20	2.35	2.60	3.05	7.24	5.00	3.96	1.25	1.30	1.35	0.28	
21	2.80	2.50	2.50	2.55	2.95	5.84	4.95	3.90	1.25	1.30	1.35	0.28	
22	2.80	2.65	2.55	2.55	5.06	4.89	4.95	3.85	1.25	1.30	1.35	0.28	
23	2.80	2.60	2.60	2.65	6.98	4.34	4.89	3.80	1.25	1.30	1.35	0.28	
24	2.75	2.65	2.65	2.50	23.42	4.01	4.89	3.75	1.25	1.30	1.35	0.24	
25	2.75	2.75	2.60	2.40	23.16	3.75	4.84	3.70	1.25	1.30	1.35	0.24	
26	2.75	2.75	2.60	3.20	27.58	3.65	4.84	3.65	1.25	1.30	1.35	0.24	
27	2.75	2.65	2.60	2.75	16.30	3.50	4.78	3.60	1.25	1.30	1.35	0.24	
28	2.70	2.60	2.75	2.45	9.76	3.50	4.73	3.55	1.25	1.30	1.35	0.28	
29	2.70	2.55	2.65	2.25	29.60	3.45	4.73	3.45	1.30	1.35	1.35	0.28	
30	2.70	2.50	2.60	2.10	94.84	3.45	4.67	3.35	1.30	1.35		0.28	
31		2.50		2.00	701.65		4.67		1.30	1.35		0.28	
Total	87.35	65.20	69.10	86.45	990.84	521.06	157.02	122.68	57.85	40.45	39.15	14.84	2251.99 CMSDAY
Mean	2.91	2.10	2.30	2.79	31.96	17.37	5.07	4.09	1.87	1.30	1.35	0.48	6.15 CMS
Max	3.20	2.75	2.75	3.80	701.65	114.73	5.42	4.62	3.30	1.35	1.35	1.30	701.65 CMS
Min	2.70	1.30	1.90	2.00	1.65	3.45	4.67	3.35	1.25	1.30	1.35	0.24	0.24 CMS
Runoff	7.55	5.63	5.97	7.47	85.61	45.02	13.57	10.60	5.00	3.49	3.38	1.28	194.57 MCM
Momentary Peak	834.40 CMS. at 62.16 m. (MSL.) at 06.00 Hours , on Aug 31 , 2019												
Runoff Yield	14.22 Liters/Second/Square KM.			Momentary Peak Yield			1922.58 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

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

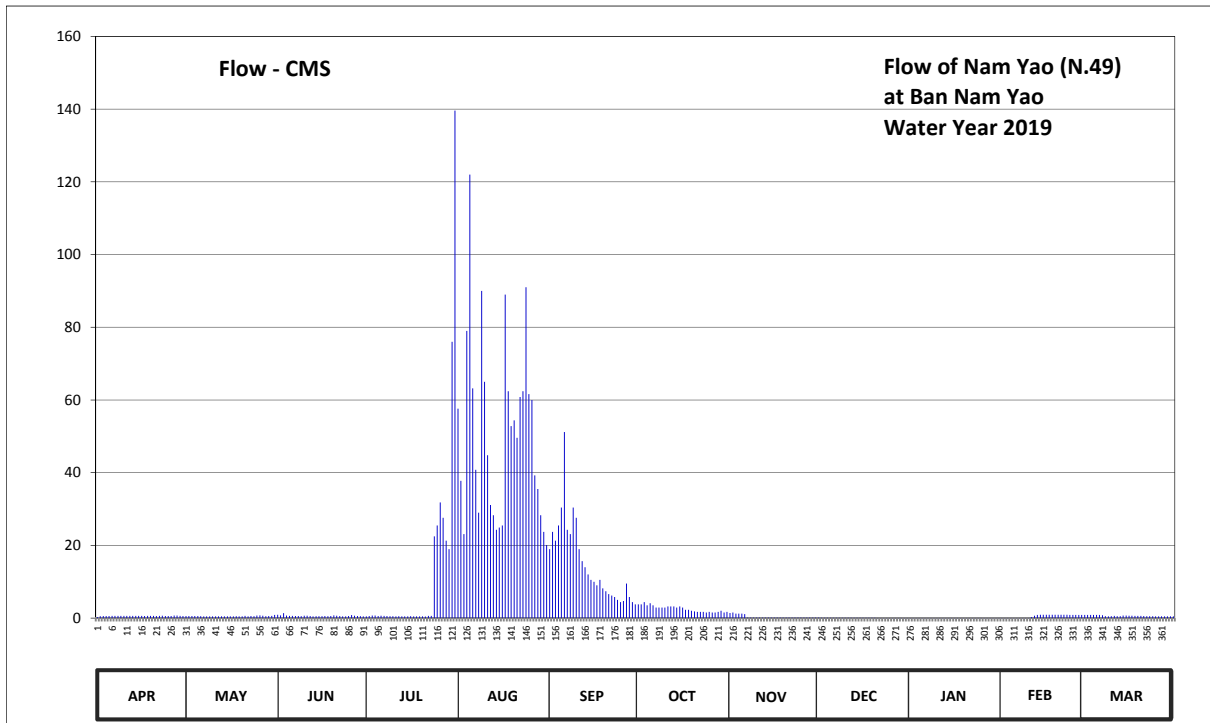
Lat 18 - 59 - 33 N Long 100 - 56 - 36 E

Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban Nam Yao	Amphoe Pua	Changwat Nan
<b>Drainage Area</b>	153 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+263.983 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.	<b>Elevation</b>	+270.035 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.23	265.38	265.56	265.35	266.12	265.59	265.26	265.16	265.11	265.05	265.03	265.53	
2	265.37	265.38	265.48	265.39	265.87	265.67	265.26	265.17	265.09	265.05	265.03	265.53	
3	265.38	265.38	265.67	265.44	265.66	265.63	265.28	265.15	265.09	265.05	265.03	265.53	
4	265.38	265.39	265.45	265.45	266.35	265.70	265.25	265.15	265.09	265.05	265.03	265.53	
5	265.39	265.39	265.40	265.38	266.78	265.77	265.27	265.15	265.08	265.05	265.03	265.53	
6	265.40	265.36	265.41	265.42	266.19	266.04	265.25	265.14	265.08	265.05	265.03	265.53	
7	265.40	265.35	265.39	265.40	265.91	265.68	265.23	265.14	265.08	265.05	265.03	265.50	
8	265.40	265.35	265.39	265.38	265.75	265.66	265.23	265.14	265.08	265.05	265.03	265.37	
9	265.40	265.34	265.37	265.37	266.46	265.77	265.23	265.14	265.08	265.05	265.03	265.35	
10	265.40	265.34	265.43	265.37	266.21	265.73	265.23	265.14	265.08	265.04	265.03	265.36	
11	265.40	265.34	265.43	265.35	265.96	265.59	265.24	265.13	265.08	265.04	265.24	265.41	
12	265.40	265.33	265.39	265.36	265.78	265.53	265.24	265.13	265.08	265.04	265.42	265.36	
13	265.40	265.33	265.34	265.35	265.74	265.50	265.24	265.13	265.07	265.04	265.54	265.37	
14	265.40	265.35	265.36	265.34	265.68	265.46	265.23	265.13	265.07	265.04	265.55	265.45	
15	265.40	265.35	265.36	265.35	265.69	265.43	265.24	265.13	265.07	265.04	265.55	265.44	
16	265.40	265.35	265.36	265.36	265.70	265.42	265.23	265.13	265.07	265.04	265.55	265.42	
17	265.39	265.35	265.38	265.34	266.45	265.40	265.21	265.13	265.07	265.04	265.55	265.42	
18	265.40	265.36	265.36	265.35	266.18	265.43	265.21	265.12	265.07	265.04	265.55	265.40	
19	265.41	265.34	265.39	265.34	266.06	265.38	265.20	265.12	265.07	265.04	265.55	265.40	
20	265.41	265.35	265.47	265.33	266.08	265.36	265.19	265.12	265.07	265.04	265.55	265.40	
21	265.39	265.41	265.42	265.32	266.02	265.34	265.18	265.12	265.06	265.04	265.55	265.39	
22	265.41	265.33	265.39	265.41	266.16	265.33	265.18	265.12	265.06	265.04	265.55	265.36	
23	265.43	265.38	265.34	265.40	266.18	265.32	265.18	265.11	265.06	265.04	265.55	265.36	
24	265.39	265.36	265.34	265.65	266.47	265.30	265.17	265.11	265.06	265.04	265.53	265.36	
25	265.38	265.46	265.38	265.70	266.17	265.28	265.18	265.11	265.06	265.03	265.53	265.35	
26	265.39	265.48	265.52	265.79	266.15	265.29	265.17	265.11	265.06	265.03	265.53	265.34	
27	265.44	265.42	265.43	265.73	265.89	265.41	265.17	265.11	265.06	265.03	265.53	265.34	
28	265.45	265.36	265.39	265.63	265.84	265.32	265.18	265.11	265.05	265.03	265.53	265.34	
29	265.41	265.38	265.36	265.59	265.74	265.28	265.20	265.11	265.05	265.03	265.53	265.34	
30	265.39	265.41	265.35	266.32	265.67	265.26	265.17	265.11	265.05	265.03	265.53	265.34	
31		265.53		266.93	265.61		265.18		265.05	265.03		265.35	
Mean	265.39	265.38	265.41	265.51	266.02	265.50	265.22	265.13	265.07	265.04	265.35	265.41	
Max	265.45	265.53	265.67	266.93	266.78	266.04	265.28	265.17	265.11	265.05	265.55	265.53	266.93
Min	265.23	265.33	265.34	265.32	265.61	265.26	265.17	265.11	265.05	265.03	265.03	265.34	265.03
Annual Max Momentary Gage Height	268.55		m. (MSL.) ,			at 16.00 Hours ,							on Aug 9, 2019
Zero Gage at Bottom Elevation	263.98		m. (MSL.) ,			River Bed	264.88	m. (MSL.)					
Left Bank Elevation		273.24		m. (MSL.) ,									
Right Bank Elevation		275.27		m. (MSL.) ,		Drainage Are	153	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.56	0.92	0.50	57.60	18.95	3.80	1.40	0.11	0.05	0.03	0.86	
2	0.54	0.56	0.76	0.58	37.75	23.70	3.80	1.55	0.09	0.05	0.03	0.86	
3	0.56	0.56	1.35	0.68	23.10	21.30	4.40	1.25	0.09	0.05	0.03	0.86	
4	0.56	0.58	0.70	0.70	79.00	25.50	3.50	1.25	0.09	0.05	0.03	0.86	
5	0.58	0.58	0.60	0.56	122.00	30.40	4.10	1.25	0.08	0.05	0.03	0.86	
6	0.60	0.52	0.62	0.64	63.20	51.20	3.50	1.10	0.08	0.05	0.03	0.86	
7	0.60	0.50	0.58	0.60	40.80	24.30	2.90	0.14	0.08	0.05	0.03	0.80	
8	0.60	0.50	0.58	0.56	29.00	23.10	2.90	0.14	0.08	0.05	0.03	0.54	
9	0.60	0.48	0.54	0.54	90.00	30.40	2.90	0.14	0.08	0.05	0.03	0.50	
10	0.60	0.48	0.66	0.54	65.00	27.60	2.90	0.14	0.08	0.04	0.03	0.52	
11	0.60	0.48	0.66	0.50	44.80	18.95	3.20	0.13	0.08	0.04	0.28	0.62	
12	0.60	0.46	0.58	0.52	31.10	15.65	3.20	0.13	0.08	0.04	0.64	0.52	
13	0.60	0.46	0.48	0.50	28.30	14.00	3.20	0.13	0.07	0.04	0.88	0.54	
14	0.60	0.50	0.52	0.48	24.30	12.00	2.90	0.13	0.07	0.04	0.90	0.70	
15	0.60	0.50	0.52	0.50	24.90	10.50	3.20	0.13	0.07	0.04	0.90	0.68	
16	0.60	0.50	0.52	0.52	25.50	10.00	2.90	0.13	0.07	0.04	0.90	0.64	
17	0.58	0.50	0.56	0.48	89.00	9.00	2.30	0.13	0.07	0.04	0.90	0.64	
18	0.60	0.52	0.52	0.50	62.40	10.50	2.30	0.12	0.07	0.04	0.90	0.60	
19	0.62	0.48	0.58	0.48	52.80	8.20	2.00	0.12	0.07	0.04	0.90	0.60	
20	0.62	0.50	0.74	0.46	54.40	7.40	1.85	0.12	0.07	0.04	0.90	0.60	
21	0.58	0.62	0.64	0.44	49.60	6.60	1.70	0.12	0.06	0.04	0.90	0.58	
22	0.62	0.46	0.58	0.62	60.80	6.20	1.70	0.12	0.06	0.04	0.90	0.52	
23	0.66	0.56	0.48	0.60	62.40	5.80	1.70	0.11	0.06	0.04	0.90	0.52	
24	0.58	0.52	0.48	22.50	91.00	5.00	1.55	0.11	0.06	0.04	0.86	0.52	
25	0.56	0.72	0.56	25.50	61.60	4.40	1.70	0.11	0.06	0.03	0.86	0.50	
26	0.58	0.76	0.84	31.80	60.00	4.70	1.55	0.11	0.06	0.03	0.86	0.48	
27	0.68	0.64	0.66	27.60	39.25	9.50	1.55	0.11	0.06	0.03	0.86	0.48	
28	0.70	0.52	0.58	21.30	35.50	5.80	1.70	0.11	0.05	0.03	0.86	0.48	
29	0.62	0.56	0.52	18.95	28.30	4.40	2.00	0.11	0.05	0.03	0.86	0.48	
30	0.58	0.62	0.50	76.00	23.70	3.80	1.55	0.11	0.05	0.03		0.48	
31		0.86		139.60	20.10		1.70		0.05	0.03		0.50	
<b>Total</b>	17.68	17.06	18.83	375.75	1577.20	448.85	80.15	10.75	2.20	1.26	16.26	19.20	2585.19 CMSDAY
<b>Mean</b>	0.59	0.55	0.63	12.12	50.88	14.96	2.59	0.36	0.07	0.04	0.56	0.62	7.06 CMS
<b>Max</b>	0.70	0.86	1.35	139.60	122.00	51.20	4.40	1.55	0.11	0.05	0.90	0.86	139.60 CMS
<b>Min</b>	0.26	0.46	0.48	0.44	20.10	3.80	1.55	0.11	0.05	0.03	0.03	0.48	0.03 CMS
<b>Runoff</b>	1.53	1.47	1.63	32.46	136.27	38.78	6.92	0.93	0.19	0.11	1.40	1.66	223.36 MCM
<b>Momentary Peak</b>	362.50 CMS. at 268.55 m. (MSL.) at 16.00 Hours , on Aug 9 , 2019												
<b>Runoff Yield</b>	46.16 Liters/Second/Square KM.			Momentary Peak Yield 2362.64 Liters/Second/Square KM.									

## WATER YEAR : 2019

## NAN RIVER BASIN

## Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

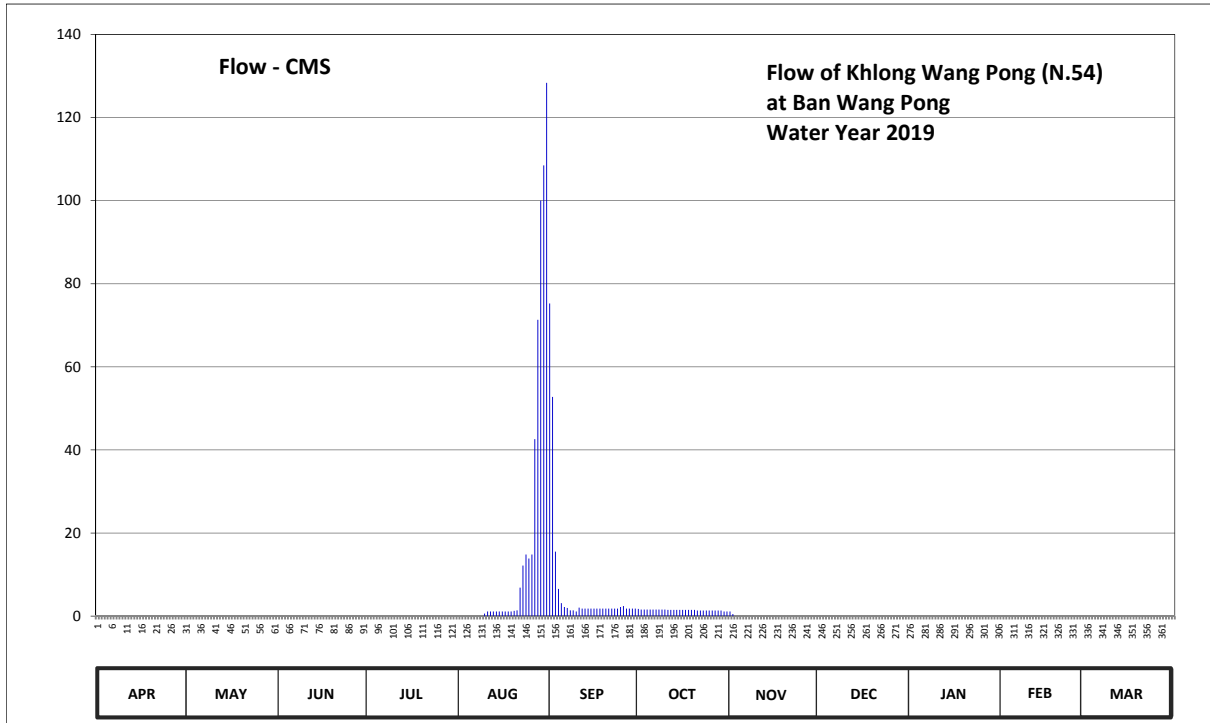
Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

	<b>Ban Wang Pong</b>	<b>Amphoe Wang Pong</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	174 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+104.350 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+108.350 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 3 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.96	104.00	104.00	104.05	104.05	107.25	104.44	104.36	104.25	103.76	104.25	104.25	
2	103.97	103.97	103.97	104.05	104.05	106.69	104.42	104.27	104.25	103.75	104.25	104.25	
3	103.98	103.98	103.98	104.05	104.05	105.42	104.42	104.25	104.25	103.77	104.25	104.25	
4	104.00	104.00	104.00	104.05	104.05	104.90	104.42	104.25	104.25	103.78	104.25	104.25	
5	104.02	104.02	104.02	104.05	104.05	104.61	104.42	104.25	104.25	103.75	104.25	104.25	
6	104.03	104.05	104.03	104.05	104.05	104.50	104.42	104.25	104.25	103.76	104.25	104.25	
7	104.03	104.03	104.03	104.05	104.05	104.47	104.42	104.25	104.25	103.78	104.25	104.25	
8	104.03	104.05	104.03	104.05	104.05	104.40	104.42	104.25	104.25	103.75	104.25	104.25	
9	104.03	104.05	104.03	104.05	104.05	104.40	104.42	104.25	104.25	103.73	104.25	104.25	
10	104.03	104.03	104.03	104.05	104.29	104.36	104.42	104.25	104.25	103.78	104.25	104.25	
11	104.03	103.96	104.05	104.05	104.36	104.48	104.41	104.25	104.25	103.72	104.25	104.25	
12	104.03	103.97	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.72	104.25	104.25	
13	104.03	103.98	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.73	104.25	104.25	
14	104.03	104.00	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.74	104.25	104.25	
15	104.03	104.02	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.77	104.25	104.25	
16	104.03	104.03	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.75	104.25	104.25	
17	104.03	104.03	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.83	104.25	104.25	
18	104.03	104.03	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.72	104.25	104.25	
19	104.03	104.03	104.05	104.05	104.36	104.45	104.41	104.25	104.25	103.72	104.25	104.25	
20	104.03	104.03	104.05	104.05	104.38	104.45	104.41	104.25	104.25	103.72	104.25	104.25	
21	104.03	103.96	104.05	104.05	104.40	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
22	104.03	103.97	104.05	104.05	104.92	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
23	104.03	103.98	104.05	104.05	105.25	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
24	104.03	104.00	104.05	104.05	105.39	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
25	104.03	104.02	104.05	104.05	105.34	104.50	104.39	104.25	104.25	103.72	104.25	104.25	
26	104.03	104.00	104.05	104.05	105.39	104.53	104.39	104.25	104.25	103.72	104.25	104.25	
27	104.03	103.95	104.05	104.05	106.40	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
28	104.03	103.95	104.05	104.05	107.16	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
29	104.03	103.95	104.05	104.05	107.78	104.45	104.39	104.25	104.25	103.72	104.25	104.25	
30	104.03	103.95	104.05	104.05	107.93	104.45	104.36	104.25	104.25	103.72	104.25	104.25	
31		103.95		104.05	108.27		104.36		104.25	103.72		104.25	
Mean	104.02	104.00	104.04	104.05	104.92	104.67	104.40	104.25	104.25	103.74	104.25	104.25	
Max	104.03	104.05	104.05	104.05	108.27	107.25	104.44	104.36	104.25	103.83	104.25	104.25	108.27
Min	103.96	103.95	103.97	104.05	104.05	104.36	104.36	104.25	104.25	103.72	104.25	104.25	103.72
Annual Max Momentary Gage Height	108.66		m. (MSL.) ,				at 09.00 Hours , on Aug 31 , 2019						
Zero Gage at Bottom Elevation	104.35		m. (MSL.) ,			River Bed	103.50	m. (MSL.)					
Left Bank Elevation		109.85	m. (MSL.) ,										
Right Bank Elevation		109.87	m. (MSL.) ,			Drainage Are	174	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

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	75.25	1.72	1.12	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	52.75	1.56	0.49	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	15.50	1.56	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	6.55	1.56	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	3.11	1.56	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	2.20	1.56	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	1.96	1.56	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	1.40	1.56	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	1.40	1.56	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.63	1.12	1.56	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	1.12	2.04	1.48	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	1.12	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	1.26	1.80	1.48	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	1.40	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	6.84	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	12.15	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	14.81	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	13.86	2.20	1.33	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	14.81	2.44	1.33	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	42.60	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	71.32	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	100.00	1.80	1.33	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	108.48	1.80	1.12	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	128.34	1.12	1.12	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	526.58	198.52	44.77	1.61	0.00	0.00	0.00	0.00	771.48 CMSDAY
Mean	0.00	0.00	0.00	0.00	16.99	6.62	1.44	0.05	0.00	0.00	0.00	0.00	2.11 CMS
Max	0.00	0.00	0.00	0.00	128.34	75.25	1.72	1.12	0.00	0.00	0.00	0.00	128.34 CMS
Min	0.00	0.00	0.00	0.00	0.00	1.12	1.12	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	45.50	17.15	3.87	0.14	0.00	0.00	0.00	0.00	66.66 MCM
Momentary Peak	153.30	CMS. at 108.66 m. (MSL.) at 09.00 Hours , on Aug 31, 2019											
Runoff Yield	12.15	Liters/Second/Square KM. Momentary Peak Yield 881.03 Liters/Second/Square KM.											



## WATER YEAR : 2019

## NAN RIVER BASIN

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

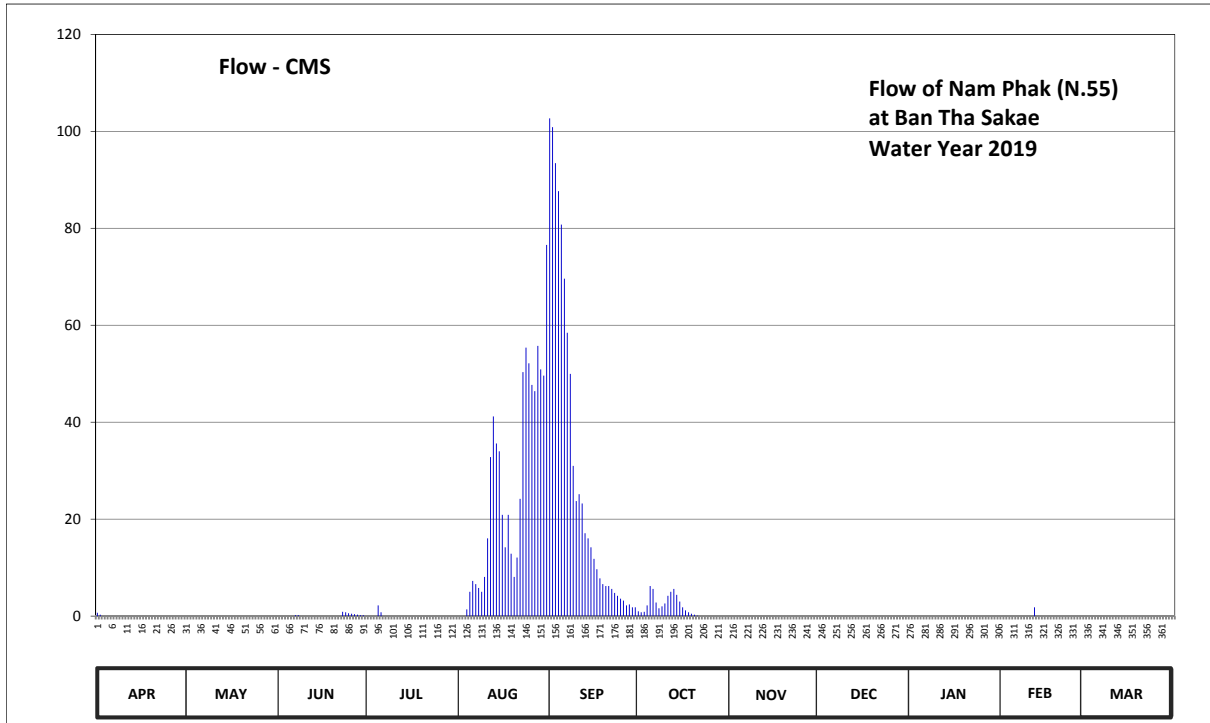
Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	<b>Ban</b> Tha Sakae	<b>Amphoe</b> Chat Trakan	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	971 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+182.830 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 13 meters from the top staff gage.	<b>Elevation</b> +191.446 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.97	185.74	185.86	185.78	185.79	189.68	186.00	185.87	185.76	185.73	185.76	185.73	
2	185.93	185.75	185.85	185.78	185.82	189.61	185.98	185.87	185.76	185.70	185.76	185.73	
3	185.90	185.75	185.84	185.78	185.88	189.31	185.99	185.88	185.76	185.65	185.76	185.73	
4	185.88	185.75	185.84	185.86	186.02	189.07	186.06	185.89	185.75	185.61	185.76	185.74	
5	185.84	185.76	185.83	186.06	186.20	188.78	186.26	185.88	185.74	185.56	185.76	185.76	
6	185.81	185.76	185.83	185.98	186.31	188.25	186.23	185.88	185.74	185.49	185.76	185.77	
7	185.78	185.76	185.92	185.90	186.28	187.68	186.09	185.87	185.73	185.42	185.76	185.76	
8	185.76	185.77	185.92	185.87	186.24	187.21	186.03	185.88	185.73	185.34	185.76	185.76	
9	185.74	185.77	185.88	185.88	186.20	186.95	186.05	185.89	185.73	185.30	185.76	185.76	
10	185.73	185.78	185.84	185.85	186.34	186.81	186.08	185.87	185.74	185.30	185.74	185.75	
11	185.73	185.79	185.82	185.78	186.63	186.84	186.16	185.86	185.73	185.64	185.74	185.73	
12	185.73	185.79	185.81	185.77	186.98	186.80	186.20	185.85	185.74	185.77	186.04	185.71	
13	185.73	185.79	185.81	185.77	187.09	186.66	186.23	185.84	185.75	185.76	185.75	185.71	
14	185.73	185.80	185.80	185.76	187.02	186.63	186.17	185.84	185.75	185.76	185.75	185.70	
15	185.73	185.80	185.80	185.76	187.00	186.57	186.10	185.84	185.75	185.75	185.73	185.71	
16	185.73	185.80	185.80	185.76	186.75	186.48	186.04	185.83	185.74	185.75	185.71	185.80	
17	185.73	185.81	185.81	185.75	186.57	186.40	186.01	185.84	185.75	185.76	185.73	185.81	
18	185.73	185.81	185.81	185.75	186.75	186.33	185.98	185.83	185.74	185.76	185.73	185.77	
19	185.72	185.81	185.82	185.75	186.52	186.28	185.95	185.83	185.74	185.76	185.73	185.76	
20	185.72	185.82	185.82	185.76	186.34	186.26	185.93	185.82	185.74	185.76	185.73	185.76	
21	185.72	185.82	185.82	185.77	186.49	186.26	185.91	185.82	185.74	185.72	185.73	185.77	
22	185.72	185.82	185.88	185.77	186.82	186.23	185.90	185.81	185.72	185.60	185.73	185.78	
23	185.72	185.83	185.99	185.78	187.23	186.19	185.89	185.79	185.73	185.44	185.73	185.77	
24	185.72	185.83	185.98	185.77	187.51	186.16	185.89	185.79	185.73	185.30	185.74	185.77	
25	185.72	185.84	185.96	185.77	187.33	186.13	185.89	185.79	185.72	185.17	185.73	185.77	
26	185.72	185.84	185.95	185.78	187.08	186.11	185.90	185.78	185.72	185.14	185.73	185.76	
27	185.73	185.85	185.94	185.78	187.00	186.06	185.88	185.77	185.72	185.55	185.73	185.75	
28	185.73	185.85	185.93	185.79	187.53	186.07	185.87	185.77	185.72	185.75	185.73	185.74	
29	185.73	185.85	185.92	185.79	187.26	186.04	185.86	185.77	185.71	185.75	185.73	185.73	
30	185.73	185.86	185.92	185.80	187.19	186.04	185.88	185.77	185.72	185.75	185.75	185.73	
31		185.86		185.80	188.59		185.87		185.74	185.75		185.73	
Mean	185.76	185.80	185.87	185.80	186.73	187.00	186.01	185.83	185.74	185.60	185.75	185.75	
Max	185.97	185.86	185.99	186.06	188.59	189.68	186.26	185.89	185.76	185.77	186.04	185.81	189.68
Min	185.72	185.74	185.80	185.75	185.79	186.04	185.86	185.77	185.71	185.14	185.71	185.70	185.14
Annual Max Momentary Gage Height	189.74		m. (MSL.) ,			at 19.00 Hours ,	on Sep 1 , 2019						
Zero Gage at Bottom Elevation	182.83		m. (MSL.) ,			River Bed	182.96	m. (MSL.)					
Left Bank Elevation		190.63		m. (MSL.) ,									
Right Bank Elevation		190.63		m. (MSL.) ,		Drainage Are	971	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.00	0.00	0.00	0.00	102.68	1.00	0.00	0.00	0.00	0.00	0.00	
2	0.30	0.00	0.00	0.00	0.00	100.86	0.80	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	93.44	0.90	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	1.40	87.68	2.20	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.20	5.00	80.76	6.20	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.80	7.27	69.60	5.60	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.20	0.00	6.60	58.44	2.80	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.20	0.00	5.80	49.98	1.60	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	5.00	31.00	2.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	8.07	23.73	2.60	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	16.05	25.15	4.20	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	32.80	23.25	5.00	0.00	0.00	0.00	1.80	0.00	
13	0.00	0.00	0.00	0.00	41.20	17.10	5.60	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	35.60	16.05	4.40	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	34.00	14.20	3.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	20.88	11.80	1.80	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	14.20	9.67	1.20	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	20.88	7.80	0.80	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	12.87	6.60	0.50	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	8.07	6.20	0.30	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	12.07	6.20	0.10	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	24.20	5.60	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.90	0.00	50.34	4.80	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.80	0.00	55.38	4.20	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.60	0.00	52.14	3.60	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.50	0.00	47.68	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.40	0.00	46.40	2.20	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.30	0.00	55.74	2.40	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.20	0.00	50.88	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.20	0.00	49.62	1.80	0.00	0.00	0.00	0.00	0.00	0.00	
31		0.00		0.00	76.58		0.00		0.00	0.00		0.00	
<b>Total</b>	1.00	0.00	4.30	3.00	796.72	871.79	52.60	0.00	0.00	0.00	1.80	0.00	1731.21 CMSDAY
<b>Mean</b>	0.03	0.00	0.14	0.10	25.70	29.06	1.70	0.00	0.00	0.00	0.06	0.00	4.73 CMS
<b>Max</b>	0.70	0.00	0.90	2.20	76.58	102.68	6.20	0.00	0.00	0.00	1.80	0.00	102.68 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.09	0.00	0.37	0.26	68.84	75.32	4.54	0.00	0.00	0.00	0.16	0.00	149.58 MCM
<b>Momentary Peak</b>	104.32	CMS.	at 189.74 m. (MSL.)	at 19.00 Hours	on Sep 1, 2019								
<b>Runoff Yield</b>	4.88	Liters/Second/Square KM.			<b>Momentary Peak Yield</b>	107.44	Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

Nam Fua at Ban Kok Muang, Phitsanulok (N.58)

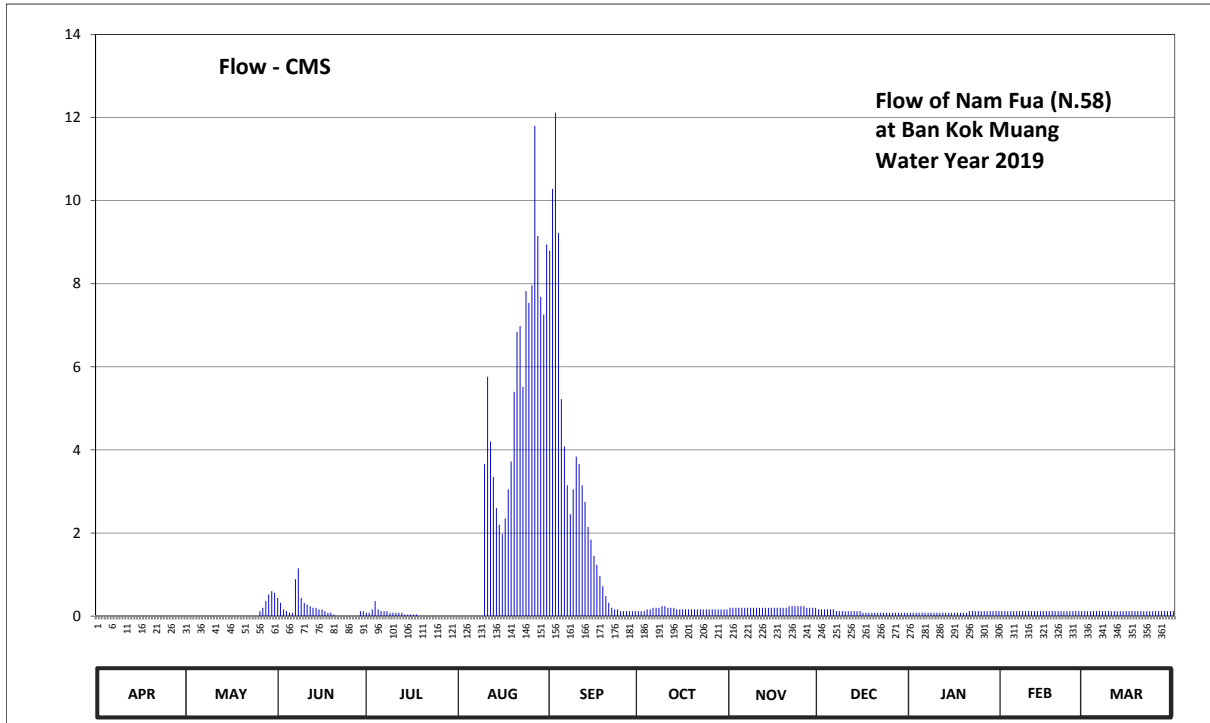
Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	<b>Ban</b>	<b>Kok Muang</b>	<b>Amphoe</b>	<b>Nakhon Thai</b>	<b>Changwat</b>	<b>Phitsanulok</b>
<b>Drainage Area</b>	318	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+208.360 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 16 meters from the top staff gage.				<b>Elevation</b>	+214.931 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.50	209.50	209.71	209.62	209.53	211.20	209.63	209.65	209.64	209.62	209.63	209.63	
2	209.50	209.50	209.68	209.62	209.53	211.41	209.63	209.65	209.64	209.62	209.63	209.63	
3	209.50	209.51	209.64	209.64	209.54	211.64	209.63	209.65	209.64	209.62	209.63	209.63	
4	209.50	209.51	209.63	209.69	209.54	211.26	209.64	209.65	209.64	209.62	209.63	209.63	
5	209.50	209.52	209.62	209.64	209.56	210.67	209.64	209.65	209.64	209.62	209.63	209.63	
6	209.50	209.52	209.62	209.63	209.60	210.48	209.65	209.65	209.64	209.62	209.63	209.63	
7	209.50	209.52	209.82	209.63	209.59	210.31	209.65	209.65	209.63	209.62	209.63	209.63	
8	209.50	209.53	209.88	209.63	209.55	210.17	209.65	209.65	209.63	209.62	209.63	209.63	
9	209.50	209.53	209.71	209.62	209.55	210.29	209.66	209.65	209.63	209.62	209.63	209.63	
10	209.50	209.53	209.68	209.62	210.41	210.44	209.66	209.65	209.63	209.62	209.63	209.63	
11	209.50	209.53	209.67	209.62	210.76	210.41	209.65	209.65	209.63	209.62	209.63	209.63	
12	209.50	209.52	209.66	209.62	210.50	210.31	209.65	209.65	209.63	209.62	209.63	209.63	
13	209.50	209.52	209.65	209.62	210.35	210.23	209.65	209.65	209.63	209.62	209.63	209.63	
14	209.50	209.52	209.65	209.61	210.20	210.11	209.64	209.65	209.63	209.62	209.63	209.63	
15	209.50	209.53	209.64	209.61	210.12	210.04	209.64	209.65	209.63	209.62	209.63	209.63	
16	209.50	209.53	209.64	209.61	210.07	209.95	209.64	209.65	209.62	209.62	209.63	209.63	
17	209.50	209.53	209.63	209.61	210.15	209.90	209.64	209.65	209.62	209.62	209.63	209.63	
18	209.50	209.54	209.62	209.61	210.29	209.84	209.64	209.65	209.62	209.62	209.63	209.63	
19	209.50	209.54	209.62	209.60	210.42	209.78	209.64	209.65	209.62	209.62	209.63	209.63	
20	209.50	209.53	209.61	209.60	210.70	209.72	209.64	209.65	209.62	209.62	209.63	209.63	
21	209.50	209.53	209.60	209.60	210.92	209.68	209.64	209.66	209.62	209.63	209.63	209.63	
22	209.50	209.54	209.60	209.59	210.94	209.65	209.64	209.66	209.62	209.63	209.63	209.63	
23	209.50	209.55	209.60	209.58	210.72	209.64	209.64	209.66	209.62	209.63	209.63	209.63	
24	209.50	209.56	209.60	209.57	211.06	209.64	209.64	209.66	209.62	209.63	209.63	209.63	
25	209.50	209.59	209.60	209.56	211.02	209.63	209.64	209.66	209.62	209.63	209.63	209.63	
26	209.50	209.63	209.60	209.55	211.08	209.63	209.64	209.66	209.62	209.63	209.63	209.63	
27	209.50	209.65	209.60	209.55	211.60	209.63	209.64	209.65	209.62	209.63	209.63	209.63	
28	209.50	209.69	209.60	209.54	211.25	209.63	209.64	209.65	209.62	209.63	209.63	209.63	
29	209.50	209.73	209.63	209.54	211.04	209.63	209.64	209.65	209.62	209.63	209.63	209.63	
30	209.50	209.75	209.63	209.53	210.98	209.63	209.64	209.65	209.62	209.63	209.63	209.63	
31		209.74		209.53	211.22		209.64		209.62	209.63		209.63	
Mean	209.50	209.56	209.65	209.60	210.38	210.15	209.64	209.65	209.63	209.62	209.63	209.63	
Max	209.50	209.75	209.88	209.69	211.60	211.64	209.66	209.66	209.64	209.63	209.63	209.63	211.64
Min	209.50	209.50	209.60	209.53	209.53	209.63	209.63	209.65	209.62	209.62	209.63	209.63	209.50
Annual Max Momentary Gage Height	211.72		m. (MSL.) ,				at 18.00 Hours ,						
Zero Gage at Bottom Elevation	208.36		m. (MSL.) ,				River Bed	209.40		m. (MSL.)			
Left Bank Elevation	216.01		m. (MSL.) ,										
Right Bank Elevation	214.69		m. (MSL.) ,				Drainage Are	318		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.44	0.08	0.00	8.80	0.12	0.20	0.16	0.08	0.12	0.12	
2	0.00	0.00	0.32	0.08	0.00	10.28	0.12	0.20	0.16	0.08	0.12	0.12	
3	0.00	0.00	0.16	0.16	0.00	12.12	0.12	0.20	0.16	0.08	0.12	0.12	
4	0.00	0.00	0.12	0.36	0.00	9.22	0.16	0.20	0.16	0.08	0.12	0.12	
5	0.00	0.00	0.08	0.16	0.00	5.22	0.16	0.20	0.16	0.08	0.12	0.12	
6	0.00	0.00	0.08	0.12	0.00	4.08	0.20	0.20	0.16	0.08	0.12	0.12	
7	0.00	0.00	0.89	0.12	0.00	3.15	0.20	0.20	0.12	0.08	0.12	0.12	
8	0.00	0.00	1.15	0.12	0.00	2.45	0.20	0.20	0.12	0.08	0.12	0.12	
9	0.00	0.00	0.44	0.08	0.00	3.05	0.24	0.20	0.12	0.08	0.12	0.12	
10	0.00	0.00	0.32	0.08	3.66	3.84	0.24	0.20	0.12	0.08	0.12	0.12	
11	0.00	0.00	0.28	0.08	5.76	3.66	0.20	0.20	0.12	0.08	0.12	0.12	
12	0.00	0.00	0.24	0.08	4.20	3.15	0.20	0.20	0.12	0.08	0.12	0.12	
13	0.00	0.00	0.20	0.08	3.35	2.75	0.20	0.20	0.12	0.08	0.12	0.12	
14	0.00	0.00	0.20	0.04	2.60	2.15	0.16	0.20	0.12	0.08	0.12	0.12	
15	0.00	0.00	0.16	0.04	2.20	1.84	0.16	0.20	0.12	0.08	0.12	0.12	
16	0.00	0.00	0.16	0.04	1.97	1.45	0.16	0.20	0.08	0.08	0.12	0.12	
17	0.00	0.00	0.12	0.04	2.35	1.23	0.16	0.20	0.08	0.08	0.12	0.12	
18	0.00	0.00	0.08	0.04	3.05	0.97	0.16	0.20	0.08	0.08	0.12	0.12	
19	0.00	0.00	0.08	0.00	3.72	0.72	0.16	0.20	0.08	0.08	0.12	0.12	
20	0.00	0.00	0.04	0.00	5.40	0.48	0.16	0.20	0.08	0.08	0.12	0.12	
21	0.00	0.00	0.00	0.00	6.84	0.32	0.16	0.24	0.08	0.12	0.12	0.12	
22	0.00	0.00	0.00	0.00	6.98	0.20	0.16	0.24	0.08	0.12	0.12	0.12	
23	0.00	0.00	0.00	0.00	5.52	0.16	0.16	0.24	0.08	0.12	0.12	0.12	
24	0.00	0.00	0.00	0.00	7.82	0.16	0.16	0.24	0.08	0.12	0.12	0.12	
25	0.00	0.00	0.00	0.00	7.54	0.12	0.16	0.24	0.08	0.12	0.12	0.12	
26	0.00	0.12	0.00	0.00	7.96	0.12	0.16	0.24	0.08	0.12	0.12	0.12	
27	0.00	0.20	0.00	0.00	11.80	0.12	0.16	0.20	0.08	0.12	0.12	0.12	
28	0.00	0.36	0.00	0.00	9.15	0.12	0.16	0.20	0.08	0.12	0.12	0.12	
29	0.00	0.52	0.12	0.00	7.68	0.12	0.16	0.20	0.08	0.12	0.12	0.12	
30	0.00	0.60	0.12	0.00	7.26	0.12	0.16	0.20	0.08	0.12	0.12	0.12	
31	0.00	0.56	0.00	0.00	8.94	0.16	0.16	0.20	0.08	0.12	0.12	0.12	
<b>Total</b>	0.00	2.36	5.80	1.80	125.75	82.17	5.24	6.24	3.32	2.92	3.48	3.72	242.80 CMSDAY
<b>Mean</b>	0.00	0.08	0.19	0.06	4.06	2.74	0.17	0.21	0.11	0.09	0.12	0.12	0.66 CMS
<b>Max</b>	0.00	0.60	1.15	0.36	11.80	12.12	0.24	0.24	0.16	0.12	0.12	0.12	12.12 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.20	0.08	0.08	0.12	0.12	0.00 CMS
<b>Runoff</b>	0.00	0.20	0.50	0.16	10.86	7.10	0.45	0.54	0.29	0.25	0.30	0.32	20.98 MCM
<b>Momentary Peak</b>	12.76 CMS. at 211.72 m. (MSL.) at 18.00 Hours , on Sep 2 , 2019												
<b>Runoff Yield</b>	2.09 Liters/Second/Square KM.			Momentary Peak Yield			40.13 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Lam Nam Khan at Ban Na Pho Na Chan , Phitsanulok (N.59)

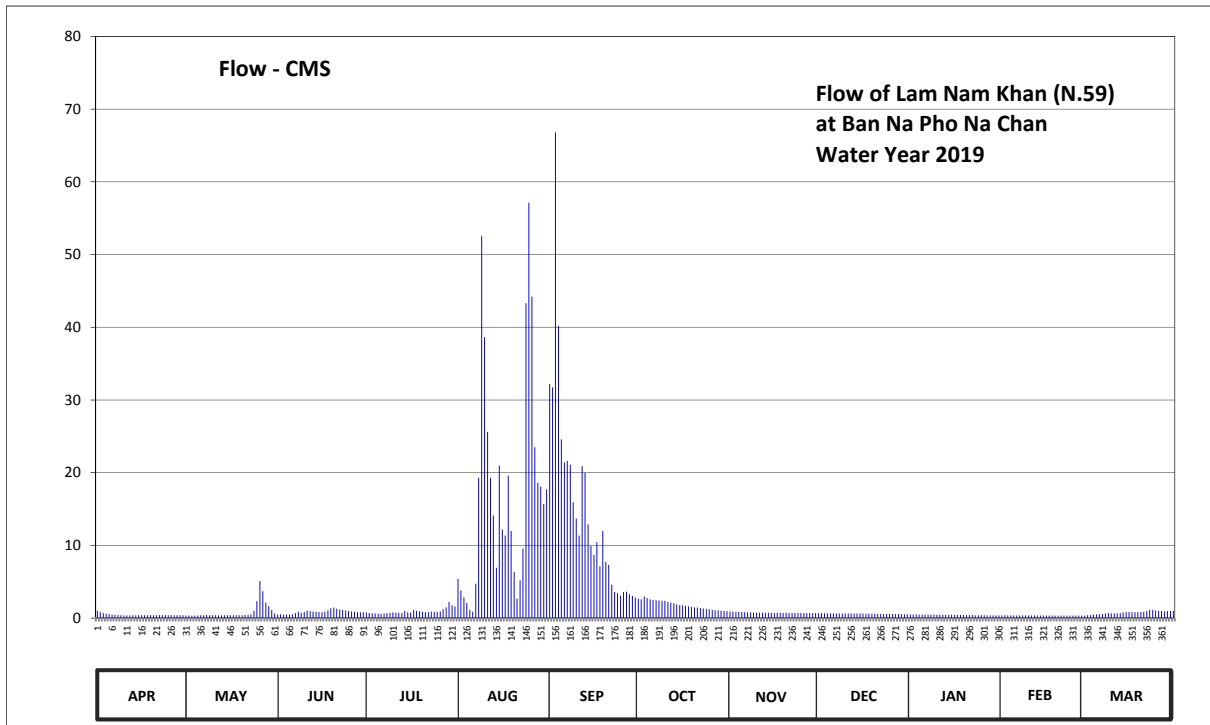
Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Pho Na Chan.

	<b>Ban</b>	Na Pho Na Chan	<b>Amphoe</b>	Nakhon Thai	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	415	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+197.680 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 25 meters from the top staff gage.				<b>Elevation</b>	+206.935 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +205.960 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 19 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	201.24	200.88	200.97	201.13	202.18	205.10	201.70	201.21	201.08	200.97	200.88	200.87	
2	201.16	200.86	200.98	201.10	201.91	205.07	201.68	201.20	201.08	200.97	200.88	200.89	
3	201.08	200.85	200.96	201.07	201.74	206.10	201.76	201.19	201.08	200.97	200.88	200.91	
4	201.03	200.86	200.96	201.05	201.56	205.46	201.72	201.18	201.07	200.96	200.88	200.95	
5	200.99	200.88	200.95	201.04	201.28	204.56	201.68	201.17	201.07	200.96	200.88	200.97	
6	200.96	200.89	200.98	201.03	201.19	204.26	201.66	201.16	201.07	200.96	200.88	200.99	
7	200.93	200.90	201.09	201.06	202.07	204.28	201.65	201.15	201.06	200.95	200.88	201.02	
8	200.91	200.91	201.19	201.09	204.05	204.23	201.64	201.14	201.06	200.95	200.88	201.06	
9	200.90	200.90	201.11	201.10	205.83	203.68	201.63	201.13	201.06	200.95	200.88	201.10	
10	200.88	200.89	201.17	201.14	205.40	203.40	201.63	201.12	201.06	200.94	200.88	201.07	
11	200.88	200.89	201.24	201.12	204.64	203.08	201.59	201.12	201.05	200.94	200.88	201.06	
12	200.88	200.88	201.22	201.11	204.05	204.21	201.57	201.12	201.05	200.94	200.88	201.07	
13	200.89	200.88	201.20	201.10	203.45	204.12	201.55	201.12	201.05	200.93	200.87	201.09	
14	200.89	200.89	201.18	201.23	202.44	203.30	201.51	201.12	201.05	200.93	200.87	201.14	
15	200.89	200.90	201.17	201.14	204.22	202.87	201.48	201.12	201.05	200.93	200.87	201.16	
16	200.89	200.90	201.16	201.13	203.20	202.70	201.47	201.11	201.04	200.92	200.87	201.17	
17	200.90	200.89	201.19	201.27	203.08	202.95	201.45	201.11	201.04	200.92	200.87	201.16	
18	200.90	200.89	201.25	201.24	204.08	202.47	201.43	201.11	201.04	200.92	200.87	201.16	
19	200.90	200.90	201.35	201.22	203.17	203.17	201.41	201.11	201.03	200.92	200.87	201.17	
20	200.90	200.90	201.38	201.19	202.34	202.56	201.39	201.11	201.03	200.91	200.87	201.17	
21	200.90	200.91	201.33	201.16	201.70	202.50	201.38	201.11	201.02	200.91	200.87	201.19	
22	200.91	200.93	201.29	201.16	202.15	202.05	201.36	201.10	201.02	200.91	200.87	201.23	
23	200.91	200.97	201.27	201.20	202.82	201.87	201.34	201.10	201.02	200.90	200.87	201.27	
24	200.91	201.23	201.25	201.18	205.57	201.84	201.32	201.10	201.01	200.90	200.87	201.28	
25	200.91	201.62	201.23	201.17	205.93	201.78	201.30	201.10	201.01	200.89	200.87	201.25	
26	200.91	202.13	201.21	201.21	205.60	201.87	201.28	201.10	201.01	200.89	200.87	201.24	
27	200.90	201.89	201.19	201.31	204.47	201.88	201.26	201.09	201.00	200.88	200.87	201.22	
28	200.90	201.57	201.17	201.39	203.98	201.82	201.25	201.09	200.99	200.88	200.87	201.21	
29	200.90	201.44	201.15	201.59	203.92	201.77	201.24	201.09	200.99	200.88	200.87	201.22	
30	200.90	201.27	201.16	201.48	203.65	201.73	201.23	201.09	200.98	200.88	200.87	201.23	
31		201.06		201.43	203.88		201.22		200.98	200.88		201.22	
Mean	200.93	201.06	201.16	201.19	203.40	203.22	201.48	201.13	201.04	200.92	200.87	201.12	
Max	201.24	202.13	201.38	201.59	205.93	206.10	201.76	201.21	201.08	200.97	200.88	201.28	206.10
Min	200.88	200.85	200.95	201.03	201.19	201.73	201.22	201.09	200.98	200.88	200.87	200.87	200.85
Annual Max Momentary Gage Height	206.40		m. (MSL.) ,				at 06.00 Hours ,		on Sep 3 , 2019				
Zero Gage at Bottom Elevation	197.68		m. (MSL.) ,				River Bed	199.78		m. (MSL.)			
Left Bank Elevation	205.95		m. (MSL.) ,										
Right Bank Elevation	207.02		m. (MSL.) ,				Drainage Are	415		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	1.02	0.37	0.51	0.76	5.38	32.20	2.65	0.93	0.67	0.51	0.37	0.36				
2	0.82	0.34	0.52	0.70	3.81	31.72	2.57	0.90	0.67	0.51	0.37	0.39				
3	0.67	0.33	0.49	0.66	2.87	66.80	2.98	0.88	0.67	0.51	0.37	0.42				
4	0.60	0.34	0.49	0.63	2.09	40.18	2.76	0.86	0.66	0.49	0.37	0.48				
5	0.54	0.37	0.48	0.61	1.14	24.58	2.57	0.84	0.66	0.49	0.37	0.51				
6	0.49	0.39	0.52	0.60	0.88	21.40	2.49	0.82	0.66	0.49	0.37	0.54				
7	0.45	0.40	0.69	0.64	4.72	21.60	2.45	0.80	0.64	0.48	0.37	0.58				
8	0.42	0.42	0.88	0.69	19.30	21.10	2.41	0.78	0.64	0.48	0.37	0.64				
9	0.40	0.40	0.72	0.70	52.52	15.94	2.37	0.76	0.64	0.48	0.37	0.70				
10	0.37	0.39	0.84	0.78	38.65	13.70	2.37	0.74	0.64	0.46	0.37	0.66				
11	0.37	0.39	1.02	0.74	25.62	11.36	2.21	0.74	0.63	0.46	0.37	0.64				
12	0.37	0.37	0.96	0.72	19.30	20.90	2.13	0.74	0.63	0.46	0.37	0.66				
13	0.39	0.37	0.90	0.70	14.10	20.00	2.05	0.74	0.63	0.45	0.36	0.69				
14	0.39	0.39	0.86	0.99	6.94	12.90	1.89	0.74	0.63	0.45	0.36	0.78				
15	0.39	0.40	0.84	0.78	21.00	9.89	1.78	0.74	0.63	0.45	0.36	0.82				
16	0.39	0.40	0.82	0.76	12.20	8.70	1.75	0.72	0.61	0.43	0.36	0.84				
17	0.40	0.39	0.88	1.11	11.36	10.45	1.68	0.72	0.61	0.43	0.36	0.82				
18	0.40	0.39	1.05	1.02	19.60	7.12	1.61	0.72	0.61	0.43	0.36	0.82				
19	0.40	0.40	1.35	0.96	11.99	11.99	1.54	0.72	0.60	0.43	0.36	0.84				
20	0.40	0.40	1.44	0.88	6.34	7.72	1.47	0.72	0.60	0.42	0.36	0.84				
21	0.40	0.42	1.29	0.82	2.65	7.30	1.44	0.72	0.58	0.42	0.36	0.88				
22	0.42	0.45	1.17	0.82	5.20	4.60	1.38	0.70	0.58	0.42	0.36	0.99				
23	0.42	0.51	1.11	0.90	9.54	3.59	1.32	0.70	0.58	0.40	0.36	1.11				
24	0.42	0.99	1.05	0.86	43.30	3.42	1.26	0.70	0.57	0.40	0.36	1.14				
25	0.42	2.33	0.99	0.84	57.13	3.09	1.20	0.70	0.57	0.39	0.36	1.05				
26	0.42	5.08	0.93	0.93	44.20	3.59	1.14	0.70	0.57	0.39	0.36	1.02				
27	0.40	3.70	0.88	1.23	23.50	3.64	1.08	0.69	0.55	0.37	0.36	0.96				
28	0.40	2.13	0.84	1.47	18.62	3.31	1.05	0.69	0.54	0.37	0.36	0.93				
29	0.40	1.64	0.80	2.21	18.08	3.04	1.02	0.69	0.54	0.37	0.36	0.96				
30	0.40	1.11	0.82	1.78	15.70	2.82	0.99	0.69	0.52	0.37		0.99				
31		0.64		1.61	17.72		0.96		0.52	0.37		0.96				
<b>Total</b>	13.78	26.65	26.14	28.90	535.45	448.65	56.57	22.59	18.85	13.58	10.56	24.02	1225.74 CMSDAY			
<b>Mean</b>	0.46	0.86	0.87	0.93	17.27	14.96	1.82	0.75	0.61	0.44	0.36	0.77	3.35 CMS			
<b>Max</b>	1.02	5.08	1.44	2.21	57.13	66.80	2.98	0.93	0.67	0.51	0.37	1.14	66.80 CMS			
<b>Min</b>	0.37	0.33	0.48	0.60	0.88	2.82	0.96	0.69	0.52	0.37	0.36	0.36	0.33 CMS			
<b>Runoff</b>	1.19	2.30	2.26	2.50	46.26	38.76	4.89	1.95	1.63	1.17	0.91	2.08	105.90 MCM			
<b>Momentary Peak</b>	92.80	CMS. at 206.40 m. (MSL.) at 06.00 Hours , on Sep 3 , 2019														
<b>Runoff Yield</b>	8.09	Liters/Second/Square KM.											<b>Momentary Peak Yield</b>	223.61	Liters/Second/Square KM.	

## WATER YEAR : 2019

## NAN RIVER BASIN

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

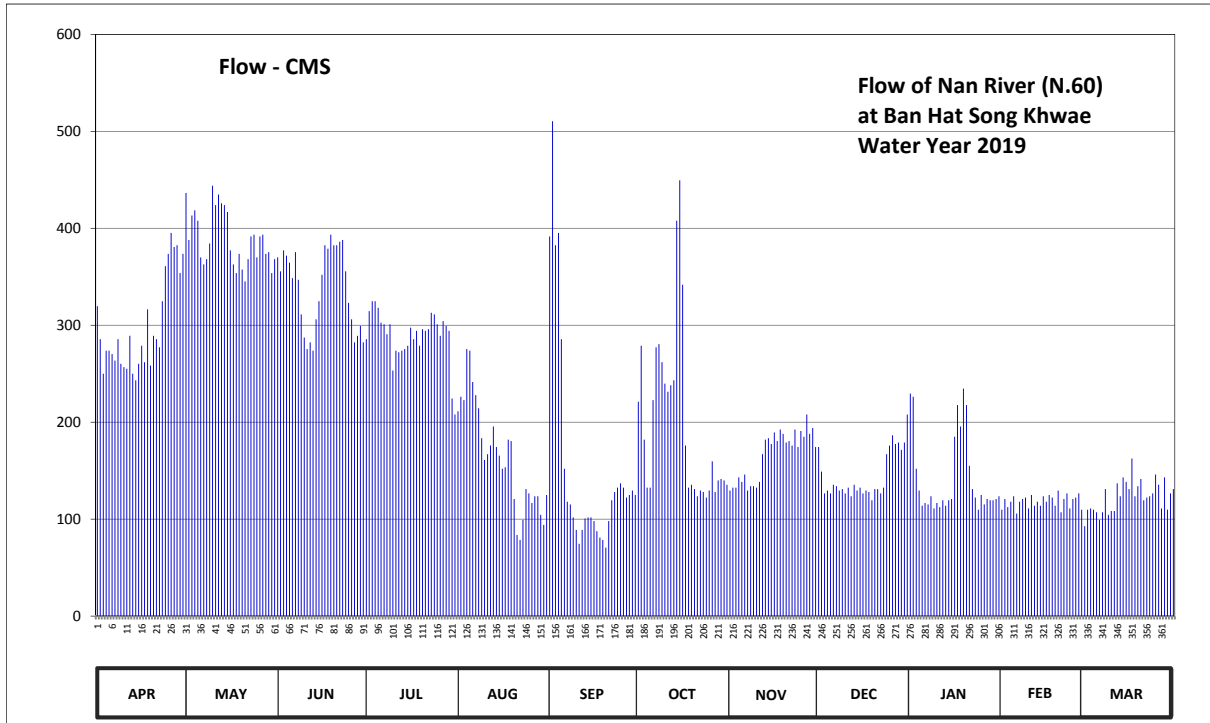
Lat 17 - 24 - 54 N Long 100 - 07 - 58 E

Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

	Ban Hat Song Khwae	Amphoe Tron	Changwat Uttaradit
<b>Drainage Area</b>	18,447 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+48.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the Meteorological Station.	<b>Elevation</b>	+57.592 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Sirikit Dam reservoir. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.41	51.07	50.70	50.21	49.77	50.82	49.83	49.23	49.53	49.88	49.09	48.96	
2	50.21	50.80	50.62	50.38	49.86	51.46	50.17	49.25	49.36	49.86	49.17	49.09	
3	50.00	50.94	50.74	50.44	49.84	50.77	49.58	49.25	49.21	49.38	49.11	49.10	
4	50.14	50.97	50.71	50.44	50.15	50.84	49.25	49.32	49.23	49.23	49.15	49.09	
5	50.14	50.91	50.67	50.40	50.14	50.21	49.25	49.29	49.21	49.12	49.19	49.07	
6	50.12	50.70	50.58	50.31	49.95	49.38	49.84	49.34	49.27	49.14	49.06	49.01	
7	50.08	50.66	50.73	50.30	49.87	49.15	50.16	49.23	49.26	49.13	49.15	49.07	
8	50.21	50.69	50.57	50.24	49.79	49.13	50.18	49.26	49.23	49.19	49.17	49.24	
9	50.06	50.78	50.36	50.30	49.59	49.03	50.07	49.26	49.24	49.10	49.18	49.05	
10	50.04	51.11	50.22	50.02	49.44	48.93	49.94	49.25	49.21	49.14	49.10	49.08	
11	50.03	51.00	50.15	50.14	49.48	48.82	49.89	49.29	49.25	49.11	49.20	49.08	
12	50.23	51.06	50.19	50.13	49.54	48.93	49.93	49.48	49.19	49.16	49.12	49.28	
13	50.00	51.01	50.14	50.14	49.67	49.02	49.96	49.58	49.27	49.12	49.15	49.19	
14	49.96	51.00	50.33	50.15	49.53	49.03	50.91	49.59	49.23	49.16	49.12	49.32	
15	50.06	50.96	50.44	50.17	49.47	49.03	51.14	49.55	49.25	49.17	49.19	49.29	
16	50.17	50.74	50.60	50.28	49.38	49.00	50.54	49.63	49.21	49.60	49.15	49.24	
17	50.07	50.66	50.77	50.21	49.39	48.92	49.54	49.57	49.23	49.81	49.20	49.45	
18	50.39	50.61	50.75	50.26	49.58	48.87	49.25	49.65	49.22	49.67	49.18	49.19	
19	50.05	50.72	50.83	50.17	49.57	48.85	49.27	49.62	49.16	49.91	49.12	49.26	
20	50.23	50.63	50.77	50.27	49.17	48.79	49.24	49.56	49.24	49.81	49.23	49.31	
21	50.21	50.56	50.77	50.26	48.89	49.00	49.19	49.57	49.24	49.40	49.07	49.16	
22	50.16	50.69	50.79	50.27	48.85	49.16	49.23	49.54	49.21	49.24	49.17	49.18	
23	50.44	50.82	50.80	50.37	49.01	49.22	49.22	49.65	49.25	49.18	49.21	49.19	
24	50.65	50.83	50.62	50.36	49.24	49.25	49.18	49.53	49.48	49.09	49.10	49.21	
25	50.72	50.70	50.43	50.30	49.21	49.28	49.23	49.64	49.54	49.20	49.17	49.34	
26	50.84	50.82	50.33	50.23	49.14	49.25	49.43	49.60	49.61	49.13	49.18	49.27	
27	50.76	50.83	50.19	50.32	49.19	49.18	49.22	49.75	49.55	49.17	49.21	49.10	
28	50.77	50.72	50.23	50.29	49.19	49.20	49.30	49.62	49.56	49.16	49.09	49.32	
29	50.61	50.73	50.29	50.26	49.05	49.23	49.31	49.66	49.51	49.16	49.23	49.09	
30	50.72	50.61	50.19	49.85	48.97	49.20	49.30	49.53	49.56	49.17	49.17	49.21	
31		50.69		49.75	49.20		49.27		49.75	49.19		49.24	
Mean	50.28	50.81	50.52	50.23	49.46	49.37	49.67	49.48	49.33	49.32	49.15	49.18	
Max	50.84	51.11	50.83	50.44	50.15	51.46	51.14	49.75	49.75	49.91	49.23	49.45	51.46
Min	49.96	50.56	50.14	49.75	48.85	48.79	49.18	49.23	49.16	49.09	49.06	48.96	48.79
Annual Max Momentary Gage Height	51.68		m. (MSL.) ,				at 13.00 Hours ,						
Zero Gage at Bottom Elevation	48.50		m. (MSL.) ,			River Bed	44.21	m. (MSL.)					
Left Bank Elevation		58.53		m. (MSL.) ,									
Right Bank Elevation		56.90		m. (MSL.) ,		Drainage Are	18,447	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	319.70	436.60	370.00	285.70	211.20	391.60	221.10	129.50	174.50	229.60	109.70	92.80		
2	285.70	388.00	355.60	314.60	226.20	510.40	278.90	132.50	149.00	226.20	120.80	109.70		
3	250.00	413.20	377.20	324.80	222.80	382.60	182.00	132.50	126.50	152.00	112.40	111.00		
4	273.80	418.60	371.80	324.80	275.50	395.20	132.50	143.00	129.50	129.50	118.00	109.70		
5	273.80	407.80	364.60	318.00	273.80	285.70	132.50	138.50	126.50	113.80	123.60	107.10		
6	270.40	370.00	348.60	302.70	241.50	152.00	222.80	146.00	135.50	116.60	105.80	99.30		
7	263.60	362.80	375.40	301.00	227.90	118.00	277.20	129.50	134.00	115.20	118.00	107.10		
8	285.70	368.20	346.90	290.80	214.40	115.20	280.60	134.00	129.50	123.60	120.80	131.00		
9	260.20	384.40	311.20	301.00	183.50	101.90	261.90	134.00	131.00	111.00	122.20	104.50		
10	256.80	443.90	287.40	253.40	161.00	88.90	239.80	132.50	126.50	116.60	111.00	108.40		
11	255.10	424.00	275.50	273.80	167.00	74.60	231.30	138.50	132.50	112.40	125.00	108.40		
12	289.10	434.80	282.30	272.10	176.00	88.90	238.10	167.00	123.60	119.40	113.80	137.00		
13	250.00	425.80	273.80	273.80	195.50	100.60	243.20	182.00	135.50	113.80	118.00	123.60		
14	243.20	424.00	306.10	275.50	174.50	101.90	407.80	183.50	129.50	119.40	113.80	143.00		
15	260.20	416.80	324.80	278.90	165.50	101.90	449.60	177.50	132.50	120.80	123.60	138.50		
16	278.90	377.20	352.00	297.60	152.00	98.00	341.80	189.50	126.50	185.00	118.00	131.00		
17	261.90	362.80	382.60	285.70	153.50	87.60	176.00	180.50	129.50	217.70	125.00	162.50		
18	316.30	353.80	379.00	294.20	182.00	81.10	132.50	192.50	128.00	195.50	122.20	123.60		
19	258.50	373.60	393.40	278.90	180.50	78.50	135.50	188.00	119.40	234.70	113.80	134.00		
20	289.10	357.40	382.60	295.90	120.80	70.70	131.00	179.00	131.00	217.70	129.50	141.50		
21	285.70	345.20	382.60	294.20	83.70	98.00	123.60	180.50	131.00	155.00	107.10	119.40		
22	277.20	368.20	386.20	295.90	78.50	119.40	129.50	176.00	126.50	131.00	120.80	122.20		
23	324.80	391.60	388.00	312.90	99.30	128.00	128.00	192.50	132.50	122.20	126.50	123.60		
24	361.00	393.40	355.60	311.20	131.00	132.50	122.20	174.50	167.00	109.70	111.00	126.50		
25	373.60	370.00	323.10	301.00	126.50	137.00	129.50	191.00	176.00	125.00	120.80	146.00		
26	395.20	391.60	306.10	289.10	116.60	132.50	159.50	185.00	186.50	115.20	122.20	135.50		
27	380.80	393.40	282.30	304.40	123.60	122.20	128.00	208.00	177.50	120.80	126.50	111.00		
28	382.60	373.60	289.10	299.30	123.60	125.00	140.00	188.00	179.00	119.40	109.70	143.00		
29	353.80	375.40	299.30	294.20	104.50	129.50	141.50	194.00	171.50	119.40	129.50	109.70		
30	373.60	353.80	282.30	224.50	94.10	125.00	140.00	174.50	179.00	120.80		126.50		
31		368.20		208.00	125.00		135.50		208.00	123.60		131.00		
<b>Total</b>	<b>8950.30</b>	<b>12068.10</b>	<b>10155.40</b>	<b>8977.90</b>	<b>5111.50</b>	<b>4674.40</b>	<b>6193.40</b>	<b>4994.00</b>	<b>4485.00</b>	<b>4432.60</b>	<b>3439.10</b>	<b>3818.10</b>	<b>77299.80</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>298.34</b>	<b>389.29</b>	<b>338.51</b>	<b>289.61</b>	<b>164.89</b>	<b>155.81</b>	<b>199.79</b>	<b>166.47</b>	<b>144.68</b>	<b>142.99</b>	<b>118.59</b>	<b>123.16</b>	<b>211.20</b>	<b>CMS</b>
<b>Max</b>	<b>395.20</b>	<b>443.90</b>	<b>393.40</b>	<b>324.80</b>	<b>275.50</b>	<b>510.40</b>	<b>449.60</b>	<b>208.00</b>	<b>208.00</b>	<b>234.70</b>	<b>129.50</b>	<b>162.50</b>	<b>510.40</b>	<b>CMS</b>
<b>Min</b>	<b>243.20</b>	<b>345.20</b>	<b>273.80</b>	<b>208.00</b>	<b>78.50</b>	<b>70.70</b>	<b>122.20</b>	<b>129.50</b>	<b>119.40</b>	<b>109.70</b>	<b>105.80</b>	<b>92.80</b>	<b>70.70</b>	<b>CMS</b>
<b>Runoff</b>	<b>773.31</b>	<b>1042.68</b>	<b>877.43</b>	<b>775.69</b>	<b>441.63</b>	<b>403.87</b>	<b>535.11</b>	<b>431.48</b>	<b>387.50</b>	<b>382.98</b>	<b>297.14</b>	<b>329.88</b>	<b>6678.70</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>552.20</b>	<b>CMS.</b>	<b>at 51.68 m. (MSL.)</b>	<b>at 13.00 Hours</b>	<b>on Oct 15,</b>	<b>2019</b>							
<b>Runoff Yield</b>		<b>11.48</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>29.93</b>	<b>Liters/Second/Square KM.</b>							



## WATER YEAR : 2019

## NAN RIVER BASIN

## Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

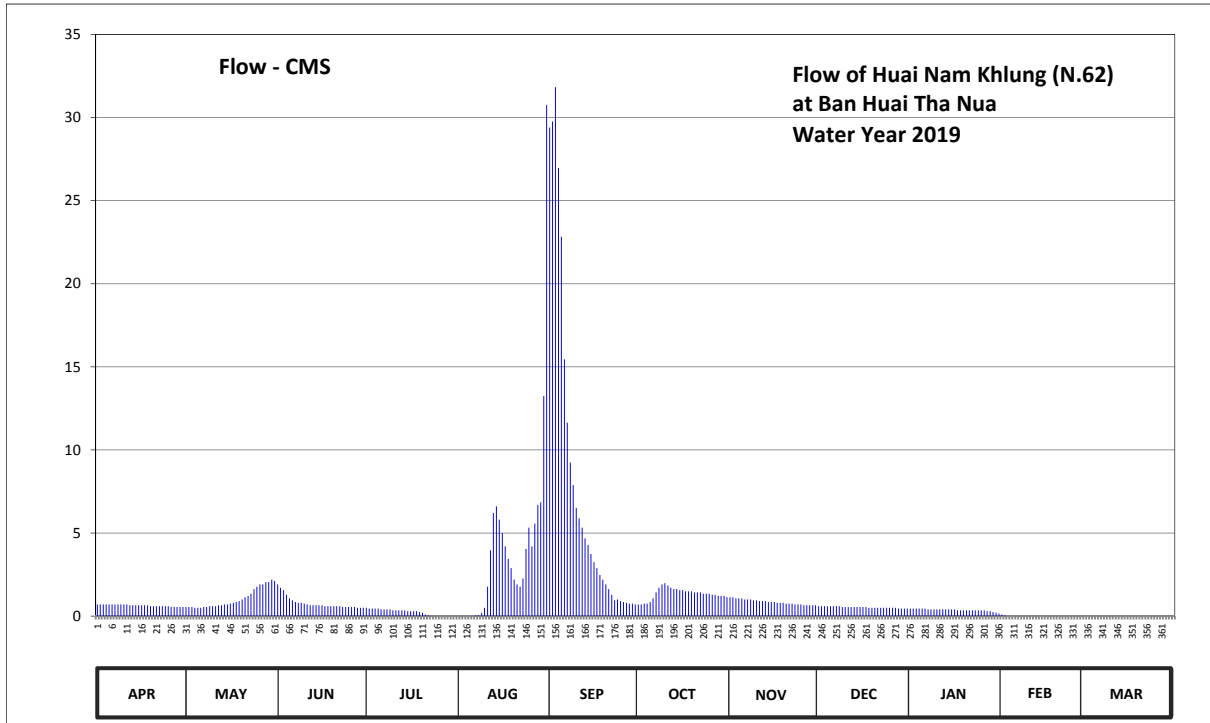
Lat 17 - 14 - 24 N Long 100 - 33 - 18 E

Location : on left bank at Ban Huai Tha Nua.

	<b>Ban</b>	Huai Tha Nua	<b>Amphoe</b>	Chat Trakan	<b>Changwat</b>	Phitsanulok
<b>Drainage Area</b>	353	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+190.310 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 60 meters from the top staff gage.				<b>Elevation</b>	+200.077 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1996 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.34	191.31	191.53	191.30	191.17	194.80	191.34	191.42	191.32	191.29	191.22	191.01	
2	191.34	191.31	191.50	191.29	191.17	194.84	191.34	191.42	191.32	191.29	191.21	191.01	
3	191.34	191.31	191.48	191.29	191.18	195.07	191.35	191.41	191.32	191.29	191.20	191.01	
4	191.34	191.30	191.44	191.29	191.19	194.53	191.35	191.41	191.32	191.29	191.19	191.01	
5	191.34	191.30	191.41	191.29	191.19	194.07	191.37	191.41	191.32	191.29	191.18	191.01	
6	191.34	191.30	191.39	191.28	191.20	193.25	191.41	191.40	191.32	191.29	191.17	191.01	
7	191.34	191.31	191.37	191.28	191.21	192.78	191.46	191.40	191.32	191.28	191.16	191.01	
8	191.34	191.31	191.36	191.28	191.21	192.48	191.50	191.40	191.32	191.28	191.15	191.01	
9	191.34	191.32	191.36	191.28	191.24	192.31	191.53	191.39	191.31	191.28	191.14	191.01	
10	191.34	191.32	191.35	191.27	191.30	192.14	191.54	191.39	191.31	191.28	191.13	191.01	
11	191.34	191.32	191.34	191.27	191.51	192.06	191.52	191.38	191.31	191.28	191.12	191.01	
12	191.33	191.33	191.33	191.27	191.82	191.99	191.50	191.38	191.31	191.28	191.11	191.01	
13	191.33	191.33	191.33	191.27	192.10	191.91	191.49	191.38	191.31	191.28	191.10	191.01	
14	191.33	191.34	191.33	191.27	192.15	191.86	191.49	191.37	191.31	191.28	191.10	191.01	
15	191.33	191.34	191.33	191.26	192.05	191.79	191.48	191.37	191.31	191.28	191.09	191.01	
16	191.33	191.35	191.33	191.26	191.95	191.72	191.48	191.37	191.31	191.28	191.06	191.01	
17	191.33	191.36	191.32	191.26	191.85	191.67	191.47	191.36	191.31	191.27	191.04	191.01	
18	191.33	191.37	191.32	191.26	191.75	191.61	191.47	191.36	191.30	191.27	191.02	191.01	
19	191.32	191.38	191.32	191.25	191.67	191.57	191.47	191.36	191.30	191.27	191.01	191.01	
20	191.32	191.40	191.32	191.24	191.57	191.53	191.46	191.35	191.30	191.27	191.01	191.01	
21	191.32	191.42	191.32	191.22	191.53	191.49	191.46	191.35	191.30	191.27	191.01	191.01	
22	191.32	191.43	191.32	191.21	191.51	191.44	191.46	191.35	191.30	191.27	191.01	191.01	
23	191.32	191.45	191.31	191.20	191.58	191.39	191.45	191.34	191.30	191.27	191.01	191.01	
24	191.32	191.49	191.31	191.19	191.83	191.40	191.45	191.34	191.30	191.27	191.01	191.01	
25	191.32	191.51	191.31	191.18	191.99	191.38	191.45	191.34	191.30	191.27	191.01	191.01	
26	191.31	191.53	191.31	191.18	191.85	191.37	191.44	191.33	191.30	191.27	191.01	191.01	
27	191.31	191.53	191.31	191.18	192.02	191.36	191.44	191.33	191.30	191.26	191.01	191.01	
28	191.31	191.55	191.30	191.17	192.16	191.35	191.43	191.33	191.29	191.26	191.01	191.01	
29	191.31	191.55	191.30	191.17	192.18	191.35	191.43	191.33	191.29	191.25	191.01	191.01	
30	191.31	191.57	191.30	191.17	192.98	191.34	191.43	191.33	191.29	191.24	191.01	191.01	
31		191.56		191.17	194.95		191.42		191.29	191.23		191.01	
Mean	191.33	191.39	191.35	191.24	191.78	192.26	191.45	191.37	191.31	191.27	191.09	191.01	
Max	191.34	191.57	191.53	191.30	194.95	195.07	191.54	191.42	191.32	191.29	191.22	191.01	195.07
Min	191.31	191.30	191.30	191.17	191.17	191.34	191.34	191.33	191.29	191.23	191.01	191.01	191.01
Annual Max Momentary Gage Height	195.18		m. (MSL.) ,			at 06.00 Hours ,	on Aug 31 , 2019						
Zero Gage at Bottom Elevation	190.31		m. (MSL.) ,			River Bed	190.72	m. (MSL.)					
Left Bank Elevation		196.71		m. (MSL.) ,									
Right Bank Elevation		196.90		m. (MSL.) ,		Drainage Are	353	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.55	1.91	0.50	0.00	29.40	0.70	1.14	0.60	0.45	0.10	0.00	
2	0.70	0.55	1.70	0.45	0.00	29.76	0.70	1.14	0.60	0.45	0.05	0.00	
3	0.70	0.55	1.56	0.45	0.00	31.83	0.75	1.07	0.60	0.45	0.00	0.00	
4	0.70	0.50	1.28	0.45	0.00	26.97	0.75	1.07	0.60	0.45	0.00	0.00	
5	0.70	0.50	1.07	0.45	0.00	22.83	0.85	1.07	0.60	0.45	0.00	0.00	
6	0.70	0.50	0.95	0.40	0.00	15.45	1.07	1.00	0.60	0.45	0.00	0.00	
7	0.70	0.55	0.85	0.40	0.05	11.64	1.42	1.00	0.60	0.40	0.00	0.00	
8	0.70	0.55	0.80	0.40	0.05	9.24	1.70	1.00	0.60	0.40	0.00	0.00	
9	0.70	0.60	0.80	0.40	0.20	7.88	1.91	0.95	0.55	0.40	0.00	0.00	
10	0.70	0.60	0.75	0.35	0.50	6.52	1.98	0.95	0.55	0.40	0.00	0.00	
11	0.70	0.60	0.70	0.35	1.77	5.88	1.84	0.90	0.55	0.40	0.00	0.00	
12	0.65	0.65	0.65	0.35	3.96	5.32	1.70	0.90	0.55	0.40	0.00	0.00	
13	0.65	0.65	0.65	0.35	6.20	4.68	1.63	0.90	0.55	0.40	0.00	0.00	
14	0.65	0.70	0.65	0.35	6.60	4.28	1.63	0.85	0.55	0.40	0.00	0.00	
15	0.65	0.70	0.65	0.30	5.80	3.73	1.56	0.85	0.55	0.40	0.00	0.00	
16	0.65	0.75	0.65	0.30	5.00	3.24	1.56	0.85	0.55	0.40	0.00	0.00	
17	0.65	0.80	0.60	0.30	4.20	2.89	1.49	0.80	0.55	0.35	0.00	0.00	
18	0.65	0.85	0.60	0.30	3.45	2.47	1.49	0.80	0.50	0.35	0.00	0.00	
19	0.60	0.90	0.60	0.25	2.89	2.19	1.49	0.80	0.50	0.35	0.00	0.00	
20	0.60	1.00	0.60	0.20	2.19	1.91	1.42	0.75	0.50	0.35	0.00	0.00	
21	0.60	1.14	0.60	0.10	1.91	1.63	1.42	0.75	0.50	0.35	0.00	0.00	
22	0.60	1.21	0.60	0.05	1.77	1.28	1.42	0.75	0.50	0.35	0.00	0.00	
23	0.60	1.35	0.55	0.00	2.26	0.95	1.35	0.70	0.50	0.35	0.00	0.00	
24	0.60	1.63	0.55	0.00	4.04	1.00	1.35	0.70	0.50	0.35	0.00	0.00	
25	0.60	1.77	0.55	0.00	5.32	0.90	1.35	0.70	0.50	0.35	0.00	0.00	
26	0.55	1.91	0.55	0.00	4.20	0.85	1.28	0.65	0.50	0.35	0.00	0.00	
27	0.55	1.91	0.55	0.00	5.56	0.80	1.28	0.65	0.50	0.30	0.00	0.00	
28	0.55	2.05	0.50	0.00	6.68	0.75	1.21	0.65	0.45	0.30	0.00	0.00	
29	0.55	2.05	0.50	0.00	6.84	0.75	1.21	0.65	0.45	0.25	0.00	0.00	
30	0.55	2.19	0.50	0.00	13.24	0.70	1.21	0.65	0.45	0.20	0.00	0.00	
31		2.12		0.00	30.75		1.14		0.45	0.15		0.00	
Total	19.20	32.38	23.47	7.45	125.43	237.72	41.86	25.64	16.55	11.40	0.15	0.00	541.25 CMSDAY
Mean	0.64	1.04	0.78	0.24	4.05	7.92	1.35	0.85	0.53	0.37	0.01	0.00	1.48 CMS
Max	0.70	2.19	1.91	0.50	30.75	31.83	1.98	1.14	0.60	0.45	0.10	0.00	31.83 CMS
Min	0.55	0.50	0.50	0.00	0.00	0.70	0.70	0.65	0.45	0.15	0.00	0.00	0.00 CMS
Runoff	1.66	2.80	2.03	0.64	10.84	20.54	3.62	2.22	1.43	0.98	0.01	0.00	46.76 MCM
Momentary Peak	32.82	CMS. at 195.18 m. (MSL.) at 06.00 Hours , on Aug 31 , 2019											
Runoff Yield	4.20	Liters/Second/Square KM. Momentary Peak Yield 92.97 Liters/Second/Square KM.											

## WATER YEAR : 2019

## NAN RIVER BASIN

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

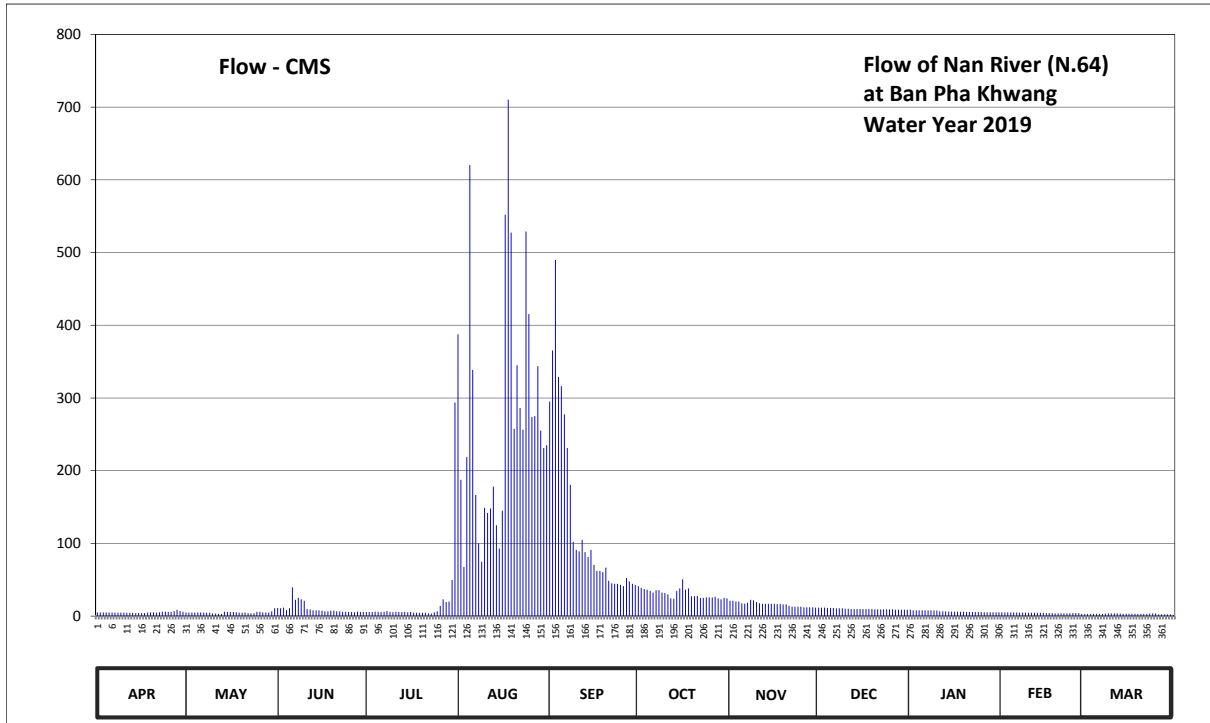
Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban Pha Khwang	Amphoe Mueang	Changwat Nan
<b>Drainage Area</b>	3,476 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+210.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Temporary.		
<b>Location BM</b>	On right bank at the approach of the bridge.	<b>Elevation</b>	+223.555 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.50	211.50	211.68	211.52	215.21	214.48	212.14	211.87	211.69	211.62	211.51	211.42	
2	211.50	211.49	211.67	211.52	213.62	215.04	212.11	211.87	211.69	211.60	211.50	211.42	
3	211.50	211.49	211.69	211.52	212.44	215.93	212.09	211.85	211.69	211.60	211.50	211.42	
4	211.50	211.49	211.61	211.54	213.87	214.75	212.08	211.85	211.68	211.60	211.50	211.42	
5	211.50	211.50	211.67	211.53	216.83	214.65	212.06	211.81	211.68	211.60	211.50	211.42	
6	211.50	211.50	212.12	211.52	214.83	214.34	212.03	211.80	211.68	211.60	211.50	211.42	
7	211.49	211.49	211.89	211.53	213.44	213.97	212.07	211.82	211.67	211.60	211.49	211.42	
8	211.49	211.48	211.93	211.57	212.78	213.56	212.07	211.89	211.67	211.60	211.49	211.43	
9	211.49	211.48	211.90	211.52	212.52	212.80	212.03	211.88	211.67	211.59	211.49	211.45	
10	211.49	211.45	211.87	211.51	213.27	212.69	212.02	211.84	211.65	211.59	211.48	211.45	
11	211.48	211.44	211.64	211.53	213.20	212.67	212.00	211.81	211.65	211.55	211.48	211.45	
12	211.48	211.42	211.63	211.52	213.26	212.83	211.92	211.80	211.64	211.55	211.48	211.45	
13	211.48	211.41	211.60	211.52	213.54	212.66	211.91	211.80	211.64	211.55	211.48	211.44	
14	211.47	211.54	211.60	211.52	213.03	212.59	212.06	211.80	211.64	211.54	211.48	211.43	
15	211.47	211.52	211.60	211.51	212.71	212.69	212.10	211.80	211.64	211.54	211.48	211.43	
16	211.47	211.52	211.58	211.52	213.23	212.47	212.25	211.80	211.64	211.54	211.47	211.43	
17	211.47	211.52	211.55	211.49	216.36	212.38	212.08	211.79	211.64	211.53	211.47	211.43	
18	211.49	211.51	211.55	211.48	217.45	212.38	212.10	211.79	211.64	211.53	211.47	211.43	
19	211.50	211.49	211.58	211.48	216.19	212.36	211.96	211.78	211.64	211.54	211.45	211.42	
20	211.50	211.48	211.58	211.48	214.18	212.43	211.96	211.78	211.63	211.52	211.45	211.42	
21	211.49	211.49	211.55	211.48	214.88	212.23	211.97	211.74	211.63	211.52	211.45	211.42	
22	211.51	211.47	211.55	211.45	214.41	212.19	211.93	211.72	211.63	211.52	211.45	211.42	
23	211.53	211.45	211.53	211.44	214.17	212.18	211.93	211.72	211.63	211.52	211.45	211.44	
24	211.54	211.46	211.53	211.51	216.20	212.18	211.94	211.72	211.63	211.52	211.46	211.45	
25	211.53	211.53	211.52	211.55	215.41	212.16	211.94	211.72	211.63	211.52	211.47	211.45	
26	211.52	211.53	211.52	211.74	214.31	212.14	211.94	211.70	211.63	211.51	211.47	211.40	
27	211.56	211.50	211.51	211.90	214.32	212.27	211.95	211.70	211.62	211.51	211.47	211.40	
28	211.62	211.50	211.54	211.84	214.87	212.22	211.92	211.70	211.62	211.51	211.42	211.40	
29	211.57	211.49	211.52	211.85	214.16	212.18	211.90	211.70	211.62	211.51	211.42	211.40	
30	211.53	211.55	211.52	212.24	213.97	212.16	211.93	211.69	211.62	211.51	211.45	211.40	
31		211.67		214.47	214.00		211.92		211.62	211.51		211.33	
Mean	211.51	211.50	211.64	211.67	214.28	212.99	212.01	211.78	211.65	211.55	211.47	211.42	
Max	211.62	211.67	212.12	214.47	217.45	215.93	212.25	211.89	211.69	211.62	211.51	211.45	217.45
Min	211.47	211.41	211.51	211.44	212.44	212.14	211.90	211.69	211.62	211.51	211.42	211.33	211.33
Annual Max Momentary Gage Height	218.49		m. (MSL.) ,				at 04.00 Hours , on Aug 18, 2019						
Zero Gage at Bottom Elevation	210.90		m. (MSL.) ,			River Bed	210.76	m. (MSL.)					
Left Bank Elevation		226.43		m. (MSL.) ,									
Right Bank Elevation		224.00		m. (MSL.) ,		Drainage Are	3,476	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.00	5.00	11.20	5.60	387.40	295.00	41.20	21.20	11.60	8.80	5.30	3.00	
2	5.00	4.75	10.80	5.60	187.50	365.20	38.80	21.20	11.60	8.00	5.00	3.00	
3	5.00	4.75	11.60	5.60	67.60	489.85	37.20	20.00	11.60	8.00	5.00	3.00	
4	5.00	4.75	8.40	6.20	218.75	328.75	36.40	20.00	11.20	8.00	5.00	3.00	
5	5.00	5.00	10.80	5.90	620.35	316.25	34.80	17.60	11.20	8.00	5.00	3.00	
6	5.00	5.00	39.60	5.60	338.75	277.50	32.40	17.00	11.20	8.00	5.00	3.00	
7	4.75	4.75	22.40	5.90	166.60	231.25	35.60	18.20	10.80	8.00	4.75	3.00	
8	4.75	4.50	25.10	7.10	100.00	180.40	35.60	22.40	10.80	8.00	4.75	3.25	
9	4.75	4.50	23.00	5.60	74.80	102.00	32.40	21.80	10.80	7.70	4.75	3.75	
10	4.75	3.75	21.20	5.30	149.00	91.00	31.60	19.40	10.00	7.70	4.50	3.75	
11	4.50	3.50	9.60	5.90	142.00	89.00	30.00	17.60	10.00	6.50	4.50	3.75	
12	4.50	3.00	9.20	5.60	148.00	105.00	24.40	17.00	9.60	6.50	4.50	3.75	
13	4.50	2.75	8.00	5.60	178.10	88.00	23.70	17.00	9.60	6.50	4.50	3.50	
14	4.25	6.20	8.00	5.60	125.00	81.10	34.80	17.00	9.60	6.20	4.50	3.25	
15	4.25	5.60	8.00	5.30	93.00	91.00	38.00	17.00	9.60	6.20	4.50	3.25	
16	4.25	5.60	7.40	5.60	145.00	70.30	50.50	17.00	9.60	6.20	4.25	3.25	
17	4.25	5.60	6.50	4.75	552.20	62.20	36.40	16.50	9.60	5.90	4.25	3.25	
18	4.75	5.30	6.50	4.50	710.25	62.20	38.00	16.50	9.60	5.90	4.25	3.25	
19	5.00	4.75	7.40	4.50	527.55	60.40	27.20	16.00	9.60	6.20	3.75	3.00	
20	5.00	4.50	7.40	4.50	257.50	66.70	27.20	16.00	9.20	5.60	3.75	3.00	
21	4.75	4.75	6.50	4.50	345.00	48.70	27.90	14.00	9.20	5.60	3.75	3.00	
22	5.30	4.25	6.50	3.75	286.25	45.20	25.10	13.00	9.20	5.60	3.75	3.00	
23	5.90	3.75	5.90	3.50	256.25	44.40	25.10	13.00	9.20	5.60	3.75	3.50	
24	6.20	4.00	5.90	5.30	529.00	44.40	25.80	13.00	9.20	5.60	4.00	3.75	
25	5.90	5.90	5.60	6.50	415.40	42.80	25.80	13.00	9.20	5.60	4.25	3.75	
26	5.60	5.90	5.60	14.00	273.75	41.20	25.80	12.00	9.20	5.30	4.25	2.50	
27	6.80	5.00	5.30	23.00	275.00	52.30	26.50	12.00	8.80	5.30	4.25	2.50	
28	8.80	5.00	6.20	19.40	343.75	47.80	24.40	12.00	8.80	5.30	3.00	2.50	
29	7.10	4.75	5.60	20.00	255.00	44.40	23.00	12.00	8.80	5.30	3.00	2.50	
30	5.90	6.50	5.60	49.60	231.25	42.80	25.10	11.60	8.80	5.30		2.50	
31		10.80		293.75	235.00		24.40		8.80	5.30		1.45	
Total	156.50	154.15	320.80	553.55	8635.00	3907.10	965.10	492.00	306.00	201.70	125.80	95.95	15913.65 CMSDAY
Mean	5.22	4.97	10.69	17.86	278.55	130.24	31.13	16.40	9.87	6.51	4.34	3.10	43.48 CMS
Max	8.80	10.80	39.60	293.75	710.25	489.85	50.50	22.40	11.60	8.80	5.30	3.75	710.25 CMS
Min	4.25	2.75	5.30	3.50	67.60	41.20	23.00	11.60	8.80	5.30	3.00	1.45	1.45 CMS
Runoff	13.52	13.32	27.72	47.83	746.06	337.57	83.38	42.51	26.44	17.43	10.87	8.29	1374.94 MCM
Momentary Peak		865.95 CMS.			at 218.49 m. (MSL.)								on Aug 18, 2019
Runoff Yield		12.54		Liters/Second/Square KM.		249.12		Liters/Second/Square KM.					

## WATER YEAR : 2019

## NAN RIVER BASIN

Nam Yao at Ban Pang Sa , Nan (N.65)

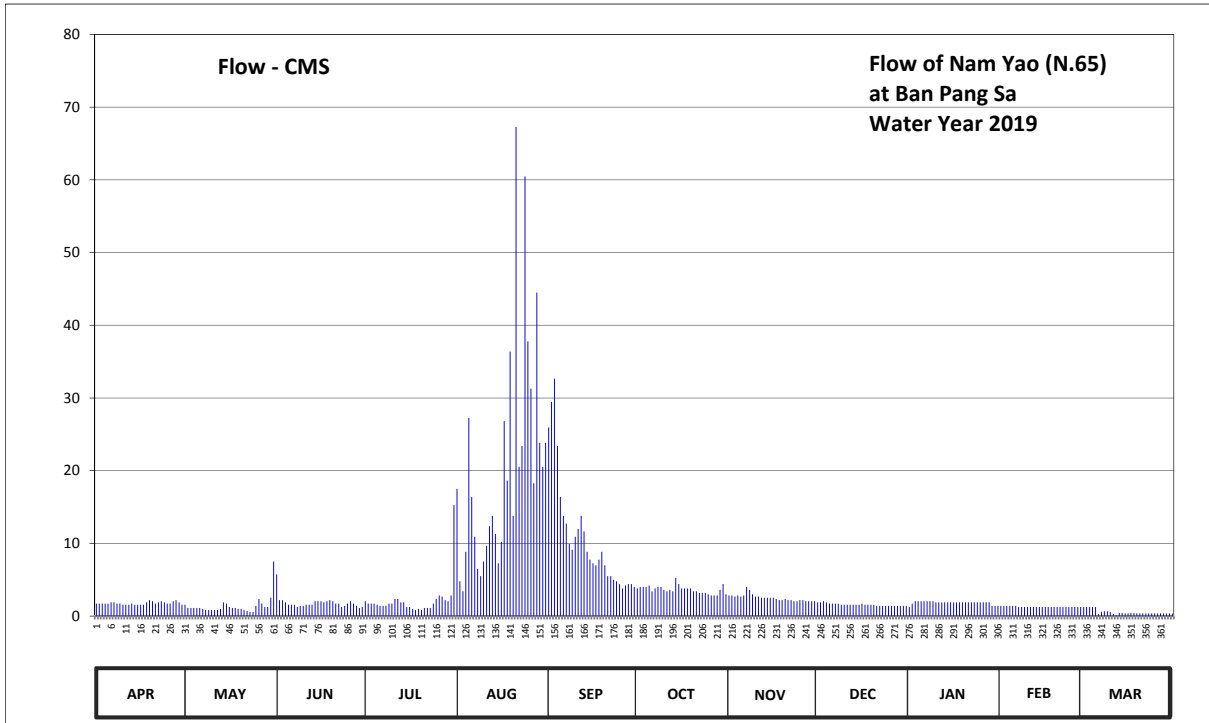
Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

	Ban Pang Sa	Amphoe	Tha Wang Pha	Changwat	Nan
<b>Drainage Area</b>	621 sq.km.				
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+248.891 m. (MSL.)				
<b>Bench Mark</b>	B.M.- H.D.				
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.			<b>Elevation</b>	+257.381 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1996 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1996 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1996 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.42	249.41	249.63	249.44	250.00	250.21	249.54	249.49	249.43	249.39	249.40	249.39	
2	249.42	249.38	249.45	249.42	249.59	250.29	249.55	249.49	249.43	249.42	249.40	249.39	
3	249.42	249.38	249.45	249.42	249.52	250.36	249.55	249.48	249.44	249.44	249.40	249.39	
4	249.42	249.38	249.43	249.42	249.75	250.15	249.55	249.49	249.43	249.44	249.40	249.39	
5	249.42	249.38	249.41	249.41	250.24	249.97	249.56	249.48	249.42	249.44	249.40	249.39	
6	249.43	249.38	249.41	249.40	249.97	249.90	249.52	249.49	249.42	249.44	249.40	249.42	
7	249.43	249.37	249.41	249.40	249.82	249.87	249.54	249.55	249.42	249.44	249.39	249.52	
8	249.42	249.36	249.39	249.40	249.66	249.79	249.55	249.53	249.42	249.44	249.39	249.53	
9	249.42	249.36	249.40	249.42	249.62	249.76	249.55	249.50	249.41	249.44	249.39	249.53	
10	249.41	249.36	249.40	249.42	249.70	249.82	249.53	249.48	249.41	249.43	249.39	249.51	
11	249.41	249.36	249.41	249.46	249.78	249.85	249.52	249.48	249.41	249.43	249.39	249.43	
12	249.41	249.36	249.41	249.46	249.86	249.90	249.53	249.47	249.41	249.43	249.39	249.37	
13	249.42	249.37	249.41	249.43	249.90	249.84	249.52	249.47	249.41	249.43	249.39	249.48	
14	249.41	249.43	249.44	249.43	249.83	249.75	249.61	249.47	249.41	249.43	249.39	249.48	
15	249.41	249.42	249.44	249.39	249.69	249.71	249.57	249.47	249.41	249.43	249.39	249.46	
16	249.41	249.39	249.44	249.39	249.80	249.69	249.54	249.47	249.42	249.43	249.39	249.46	
17	249.41	249.38	249.43	249.37	250.23	249.68	249.54	249.46	249.41	249.43	249.39	249.48	
18	249.43	249.38	249.44	249.36	250.03	249.71	249.54	249.45	249.41	249.43	249.39	249.47	
19	249.45	249.37	249.45	249.37	250.44	249.75	249.54	249.45	249.41	249.43	249.39	249.46	
20	249.44	249.37	249.44	249.36	249.90	249.68	249.52	249.46	249.41	249.43	249.39	249.46	
21	249.42	249.36	249.42	249.38	251.03	249.62	249.52	249.45	249.40	249.43	249.39	249.46	
22	249.43	249.35	249.42	249.38	250.08	249.62	249.51	249.45	249.40	249.43	249.39	249.46	
23	249.44	249.34	249.39	249.38	250.15	249.60	249.51	249.44	249.40	249.43	249.39	249.46	
24	249.43	249.34	249.40	249.42	250.91	249.59	249.51	249.44	249.40	249.43	249.39	249.46	
25	249.42	249.40	249.42	249.46	250.47	249.57	249.50	249.45	249.40	249.43	249.39	249.46	
26	249.42	249.46	249.44	249.49	250.33	249.54	249.49	249.45	249.40	249.43	249.39	249.46	
27	249.44	249.42	249.42	249.48	250.02	249.56	249.49	249.44	249.40	249.43	249.39	249.46	
28	249.45	249.39	249.40	249.45	250.61	249.57	249.49	249.44	249.40	249.43	249.39	249.46	
29	249.43	249.39	249.38	249.44	250.16	249.57	249.53	249.44	249.40	249.40	249.39	249.45	
30	249.41	249.47	249.39	249.49	250.08	249.55	249.57	249.44	249.40	249.40	249.39	249.45	
31		249.70		249.94	250.16		249.50		249.40	249.40		249.45	
Mean	249.42	249.39	249.43	249.43	250.04	249.78	249.53	249.47	249.41	249.43	249.39	249.45	
Max	249.45	249.70	249.63	249.94	251.03	250.36	249.61	249.55	249.44	249.44	249.40	249.53	251.03
Min	249.41	249.34	249.38	249.36	249.52	249.54	249.49	249.44	249.40	249.39	249.39	249.37	249.34
Annual Max Momentary Gage Height	251.71		m. (MSL.) ,				at 11.00 Hours ,						on Aug 21 , 2019
Zero Gage at Bottom Elevation	248.89		m. (MSL.) ,			River Bed	249.30		m. (MSL.)				
Left Bank Elevation		256.90		m. (MSL.) ,									
Right Bank Elevation		256.95		m. (MSL.) ,		Drainage Are	621		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.72	1.56	5.75	2.04	17.50	25.94	3.80	2.84	1.88	1.26	1.40	1.26	
2	1.72	1.12	2.20	1.72	4.80	29.46	4.00	2.84	1.88	1.72	1.40	1.26	
3	1.72	1.12	2.20	1.72	3.40	32.66	4.00	2.68	2.04	2.04	1.40	1.26	
4	1.72	1.12	1.88	1.72	8.85	23.40	4.00	2.84	1.88	2.04	1.40	1.26	
5	1.72	1.12	1.56	1.56	27.26	16.39	4.20	2.68	1.72	2.04	1.40	1.26	
6	1.88	1.12	1.56	1.40	16.39	13.80	3.40	2.84	1.72	2.04	1.40	0.26	
7	1.88	0.98	1.56	1.40	10.92	12.72	3.80	4.00	1.72	2.04	1.26	0.60	
8	1.72	0.84	1.26	1.40	6.50	9.93	4.00	3.60	1.72	2.04	1.26	0.65	
9	1.72	0.84	1.40	1.72	5.50	9.12	4.00	3.00	1.56	2.04	1.26	0.65	
10	1.56	0.84	1.40	1.72	7.50	10.92	3.60	2.68	1.56	1.88	1.26	0.55	
11	1.56	0.84	1.56	2.36	9.66	12.00	3.40	2.68	1.56	1.88	1.26	0.29	
12	1.56	0.84	1.56	2.36	12.36	13.80	3.60	2.52	1.56	1.88	1.26	0.14	
13	1.72	0.98	1.56	1.88	13.80	11.64	3.40	2.52	1.56	1.88	1.26	0.44	
14	1.56	1.88	2.04	1.88	11.28	8.85	5.25	2.52	1.56	1.88	1.26	0.44	
15	1.56	1.72	2.04	1.26	7.25	7.77	4.40	2.52	1.56	1.88	1.26	0.38	
16	1.56	1.26	2.04	1.26	10.20	7.25	3.80	2.52	1.72	1.88	1.26	0.38	
17	1.56	1.12	1.88	0.98	26.82	7.00	3.80	2.36	1.56	1.88	1.26	0.44	
18	1.88	1.12	2.04	0.84	18.64	7.77	3.80	2.20	1.56	1.88	1.26	0.41	
19	2.20	0.98	2.20	0.98	36.38	8.85	3.80	2.20	1.56	1.88	1.26	0.38	
20	2.04	0.98	2.04	0.84	13.80	7.00	3.40	2.36	1.56	1.88	1.26	0.38	
21	1.72	0.84	1.72	1.12	67.27	5.50	3.40	2.20	1.40	1.88	1.26	0.38	
22	1.88	0.70	1.72	1.12	20.54	5.50	3.20	2.20	1.40	1.88	1.26	0.38	
23	2.04	0.56	1.26	1.12	23.40	5.00	3.20	2.04	1.40	1.88	1.26	0.38	
24	1.88	0.56	1.40	1.72	60.46	4.80	3.20	2.04	1.40	1.88	1.26	0.38	
25	1.72	1.40	1.72	2.36	37.79	4.40	3.00	2.20	1.40	1.88	1.26	0.38	
26	1.72	2.36	2.04	2.84	31.28	3.80	2.84	2.20	1.40	1.88	1.26	0.38	
27	2.04	1.72	1.72	2.68	18.26	4.20	2.84	2.04	1.40	1.88	1.26	0.38	
28	2.20	1.26	1.40	2.20	44.50	4.40	2.84	2.04	1.40	1.88	1.26	0.38	
29	1.88	1.26	1.12	2.04	23.82	4.40	3.60	2.04	1.40	1.40	1.26	0.35	
30	1.56	2.52	1.26	2.84	20.54	4.00	4.40	2.04	1.40	1.40		0.35	
31		7.50		15.28	23.82		3.00		1.40	1.40		0.35	
Total	53.20	43.06	55.09	66.36	640.49	322.27	112.97	75.44	48.84	57.18	37.38	16.78	1529.06 CMSDAY
Mean	1.77	1.39	1.84	2.14	20.66	10.74	3.64	2.51	1.58	1.84	1.29	0.54	4.18 CMS
Max	2.20	7.50	5.75	15.28	67.27	32.66	5.25	4.00	2.04	2.04	1.40	1.26	67.27 CMS
Min	1.56	0.56	1.12	0.84	3.40	3.80	2.84	2.04	1.40	1.26	1.26	0.14	0.14 CMS
Runoff	4.60	3.72	4.76	5.73	55.34	27.84	9.76	6.52	4.22	4.94	3.23	1.45	132.11 MCM
Momentary Peak		109.56	CMS.	at 251.71 m. (MSL.)	at 11.00 Hours	, on Aug 21, 2019							
Runoff Yield		6.75	Liters/Second/Square KM.		Momentary Peak Yield	176.43	Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)

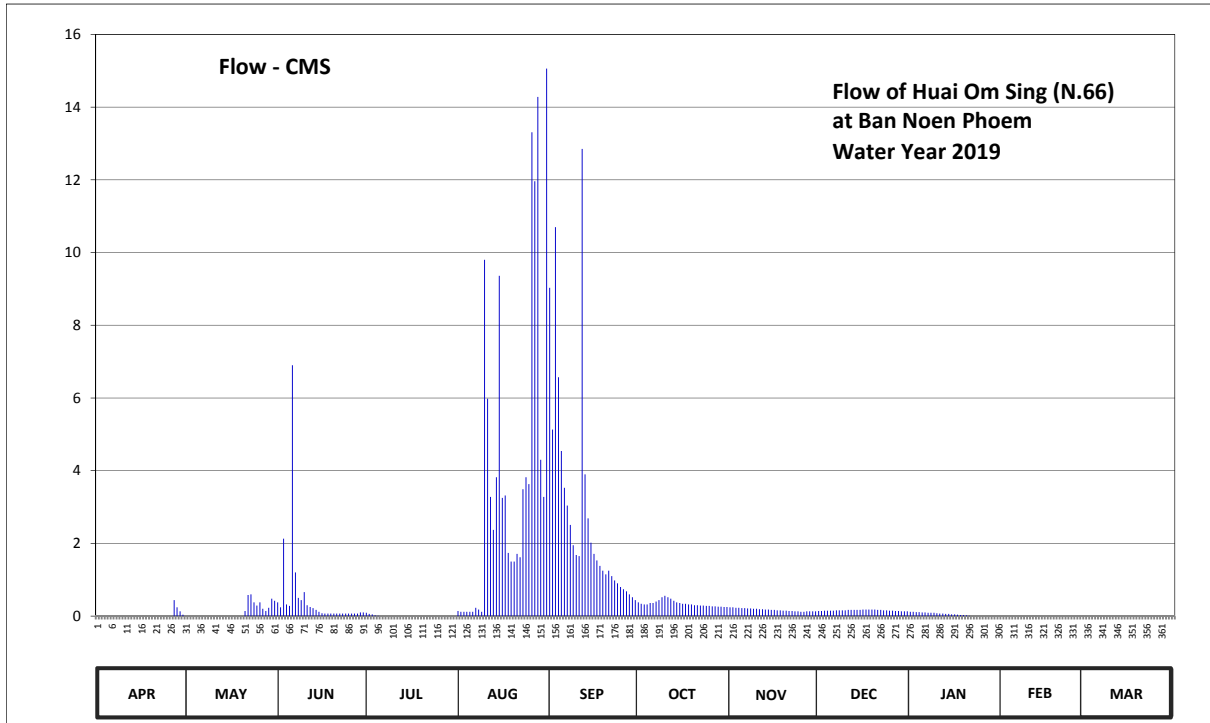
Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Om Sing.

	<b>Ban</b>	Noen Phoem	<b>Amphoe</b>	Nakhon Thai	<b>Changwat</b>	Phitsanulok	
<b>Drainage Area</b>	152	sq.km.					
<b>Type of Gage</b>	Staff gage						
<b>Zero Gage at Bottom</b>	+201.220 m. (MSL.)						
<b>Bench Mark</b>	B.M.- H.D.						
<b>Location BM</b>	On right bank about 8 meters from the top staff gage.					<b>Elevation</b>	+208.617 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.						
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings						
<b>Period of Available Gage Records</b>	1995 to date						
<b>Rating Operation</b>							
<b>Period of Rating</b>	1996 to date						
<b>Rated by Flot</b>	-						
<b>Rated by Current Meter</b>	1996 to date						
<b>Stability of Channel Regimes</b>	Fairly stable.						
<b>Overbank Flow Conditions</b>	No overbank flow.						
<b>General Description</b>	Records very good. Stage-discharge relation defined by 10 discharge measurements made in 2019.						

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.67	202.67	203.04	202.79	202.84	205.36	203.04	202.94	202.84	202.82	202.67	202.67	
2	202.67	202.67	202.94	202.76	202.82	204.55	203.02	202.94	202.84	202.82	202.67	202.67	
3	202.67	202.67	203.75	202.75	202.82	205.65	203.01	202.93	202.85	202.81	202.67	202.67	
4	202.67	202.67	203.01	202.72	202.82	204.87	203.01	202.93	202.85	202.81	202.67	202.67	
5	202.67	202.67	202.98	202.71	202.82	204.41	203.03	202.92	202.85	202.80	202.67	202.67	
6	202.67	202.67	204.94	202.69	202.82	204.15	203.03	202.92	202.85	202.80	202.67	202.67	
7	202.67	202.67	203.44	202.69	202.93	204.01	203.05	202.91	202.86	202.79	202.67	202.67	
8	202.67	202.67	203.10	202.68	202.88	203.86	203.07	202.91	202.86	202.79	202.67	202.67	
9	202.67	202.67	203.07	202.68	202.82	203.70	203.11	202.90	202.86	202.79	202.67	202.67	
10	202.67	202.67	203.18	202.68	205.50	203.61	203.13	202.90	202.86	202.78	202.67	202.67	
11	202.67	202.67	203.00	202.68	204.74	203.60	203.11	202.89	202.87	202.77	202.67	202.67	
12	202.67	202.67	202.95	202.67	204.08	206.00	203.09	202.89	202.87	202.77	202.67	202.67	
13	202.67	202.67	202.92	202.67	203.82	204.25	203.06	202.88	202.87	202.76	202.67	202.67	
14	202.67	202.67	202.87	202.67	204.23	203.91	203.04	202.88	202.87	202.76	202.67	202.67	
15	202.67	202.67	202.82	202.67	205.42	203.72	203.03	202.87	202.87	202.75	202.67	202.67	
16	202.67	202.67	202.78	202.67	204.07	203.62	203.02	202.87	202.88	202.75	202.67	202.67	
17	202.67	202.67	202.77	202.67	204.09	203.56	203.02	202.86	202.88	202.74	202.67	202.67	
18	202.67	202.67	202.77	202.67	203.63	203.51	203.01	202.86	202.88	202.73	202.67	202.67	
19	202.67	202.67	202.77	202.67	203.55	203.46	203.01	202.85	202.88	202.73	202.67	202.67	
20	202.67	202.70	202.77	202.67	203.55	203.42	203.00	202.85	202.88	202.72	202.67	202.67	
21	202.67	202.84	202.77	202.67	203.62	203.46	203.00	202.84	202.87	202.71	202.67	202.67	
22	202.67	203.14	202.77	202.67	203.59	203.40	202.99	202.84	202.87	202.70	202.67	202.67	
23	202.67	203.15	202.77	202.67	204.14	203.34	202.99	202.83	202.86	202.69	202.67	202.67	
24	202.67	203.04	202.77	202.67	204.23	203.30	202.98	202.83	202.86	202.69	202.67	202.67	
25	202.67	202.99	202.77	202.67	204.18	203.25	202.98	202.82	202.85	202.68	202.67	202.67	
26	202.67	203.04	202.77	202.67	206.07	203.22	202.97	202.82	202.85	202.68	202.67	202.67	
27	203.07	202.90	202.77	202.67	205.86	203.19	202.97	202.83	202.84	202.67	202.67	202.67	
28	202.94	202.84	202.77	202.67	206.22	203.15	202.96	202.83	202.84	202.67	202.67	202.67	
29	202.83	202.93	202.80	202.67	204.35	203.11	202.96	202.83	202.83	202.67	202.67	202.67	
30	202.74	203.09	202.80	202.67	204.08	203.07	202.95	202.83	202.83	202.67	202.67	202.67	
31		203.06		202.67	206.34		202.95		202.83	202.67		202.67	
Mean	202.70	202.79	202.99	202.68	204.03	203.86	203.02	202.87	202.86	202.74	202.67	202.67	
Max	203.07	203.15	204.94	202.79	206.34	206.00	203.13	202.94	202.88	202.82	202.67	202.67	206.34
Min	202.67	202.67	202.77	202.67	202.82	203.07	202.95	202.82	202.83	202.67	202.67	202.67	202.67
Annual Max Momentary Gage Height	206.75		m. (MSL.) ,				at 06.00 Hours ,	on Sep 12 , 2019					
Zero Gage at Bottom Elevation	201.22		m. (MSL.) ,			River Bed	202.10	m. (MSL.)					
Left Bank Elevation		208.67		m. (MSL.) ,									
Right Bank Elevation		207.63		m. (MSL.) ,		Drainage Are	152	Square Kilometers					

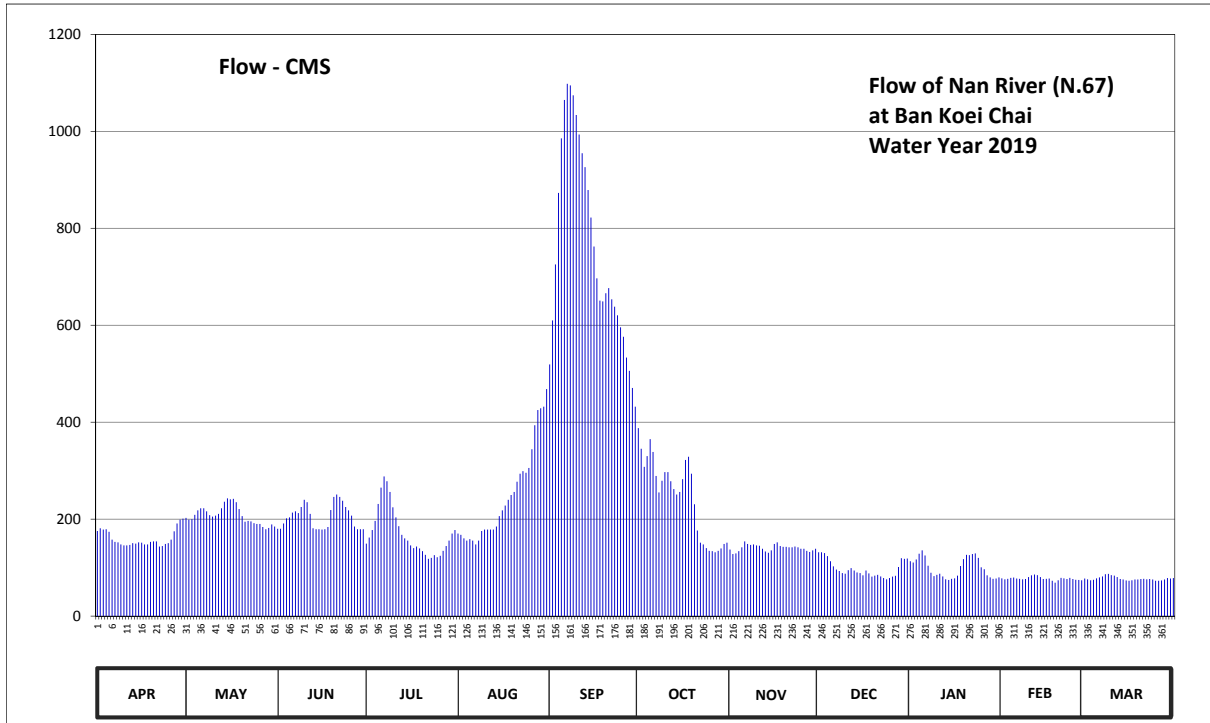


**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.38	0.09	0.14	9.03	0.38	0.24	0.14	0.12	0.00	0.00	
2	0.00	0.00	0.24	0.06	0.12	5.13	0.34	0.24	0.14	0.12	0.00	0.00	
3	0.00	0.00	2.13	0.05	0.12	10.70	0.32	0.23	0.15	0.11	0.00	0.00	
4	0.00	0.00	0.32	0.02	0.12	6.57	0.32	0.23	0.15	0.11	0.00	0.00	
5	0.00	0.00	0.28	0.01	0.12	4.54	0.36	0.22	0.15	0.10	0.00	0.00	
6	0.00	0.00	6.90	0.00	0.12	3.53	0.36	0.22	0.15	0.10	0.00	0.00	
7	0.00	0.00	1.20	0.00	0.23	3.04	0.40	0.21	0.16	0.09	0.00	0.00	
8	0.00	0.00	0.50	0.00	0.18	2.51	0.44	0.21	0.16	0.09	0.00	0.00	
9	0.00	0.00	0.44	0.00	0.12	1.95	0.52	0.20	0.16	0.09	0.00	0.00	
10	0.00	0.00	0.66	0.00	9.80	1.68	0.56	0.20	0.16	0.08	0.00	0.00	
11	0.00	0.00	0.30	0.00	5.98	1.65	0.52	0.19	0.17	0.07	0.00	0.00	
12	0.00	0.00	0.25	0.00	3.28	12.85	0.48	0.19	0.17	0.07	0.00	0.00	
13	0.00	0.00	0.22	0.00	2.37	3.90	0.42	0.18	0.17	0.06	0.00	0.00	
14	0.00	0.00	0.17	0.00	3.82	2.69	0.38	0.18	0.17	0.06	0.00	0.00	
15	0.00	0.00	0.12	0.00	9.36	2.02	0.36	0.17	0.17	0.05	0.00	0.00	
16	0.00	0.00	0.08	0.00	3.25	1.71	0.34	0.17	0.18	0.05	0.00	0.00	
17	0.00	0.00	0.07	0.00	3.32	1.53	0.34	0.16	0.18	0.04	0.00	0.00	
18	0.00	0.00	0.07	0.00	1.74	1.38	0.32	0.16	0.18	0.03	0.00	0.00	
19	0.00	0.00	0.07	0.00	1.50	1.25	0.32	0.15	0.18	0.03	0.00	0.00	
20	0.00	0.00	0.07	0.00	1.50	1.15	0.30	0.15	0.18	0.02	0.00	0.00	
21	0.00	0.14	0.07	0.00	1.71	1.25	0.30	0.14	0.17	0.01	0.00	0.00	
22	0.00	0.58	0.07	0.00	1.62	1.10	0.29	0.14	0.17	0.00	0.00	0.00	
23	0.00	0.60	0.07	0.00	3.49	0.98	0.29	0.13	0.16	0.00	0.00	0.00	
24	0.00	0.38	0.07	0.00	3.82	0.90	0.28	0.13	0.16	0.00	0.00	0.00	
25	0.00	0.29	0.07	0.00	3.63	0.80	0.28	0.12	0.15	0.00	0.00	0.00	
26	0.00	0.38	0.07	0.00	13.31	0.74	0.27	0.12	0.15	0.00	0.00	0.00	
27	0.44	0.20	0.07	0.00	11.96	0.68	0.27	0.13	0.14	0.00	0.00	0.00	
28	0.24	0.14	0.07	0.00	14.28	0.60	0.26	0.13	0.14	0.00	0.00	0.00	
29	0.13	0.23	0.10	0.00	4.30	0.52	0.26	0.13	0.13	0.00	0.00	0.00	
30	0.04	0.48	0.10	0.00	3.28	0.44	0.25	0.13	0.13	0.00	0.00	0.00	
31		0.42		0.00	15.06		0.25		0.13	0.00		0.00	
<b>Total</b>	0.85	3.84	15.23	0.23	123.65	86.82	10.78	5.20	4.90	1.50	0.00	0.00	253.00 CMSDAY
<b>Mean</b>	0.03	0.12	0.51	0.01	3.99	2.89	0.35	0.17	0.16	0.05	0.00	0.00	0.69 CMS
<b>Max</b>	0.44	0.60	6.90	0.09	15.06	12.85	0.56	0.24	0.18	0.12	0.00	0.00	15.06 CMS
<b>Min</b>	0.00	0.00	0.07	0.00	0.12	0.44	0.25	0.12	0.13	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.07	0.33	1.32	0.02	10.68	7.50	0.93	0.45	0.42	0.13	0.00	0.00	21.86 MCM
<b>Momentary Peak</b>	18.00 CMS. at 206.75 m. (MSL.) at 06.00 Hours , on Sep 12 , 2019												
<b>Runoff Yield</b>	4.56 Liters/Second/Square KM.			Momentary Peak Yield			118.42 Liters/Second/Square KM.						







**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	175.70	202.70	180.20	149.60	170.30	519.10	387.80	137.20	131.60	113.20	78.00	77.50		
2	181.10	199.10	180.20	162.20	167.60	610.10	345.30	127.90	131.60	110.40	76.00	76.00		
3	178.40	200.00	191.00	177.50	160.40	725.60	307.90	129.30	130.00	116.70	77.00	74.00		
4	179.30	209.00	201.80	196.40	155.90	873.00	329.90	134.00	123.70	128.60	79.00	75.00		
5	173.90	218.00	203.60	231.50	158.60	985.60	365.00	142.00	113.20	135.60	79.50	78.00		
6	157.70	222.50	213.50	265.00	155.90	1064.80	338.70	154.10	102.70	125.10	77.50	80.00		
7	153.20	222.50	216.20	288.10	147.80	1098.20	289.20	148.70	96.00	104.10	77.00	82.00		
8	152.30	216.20	212.60	278.20	155.90	1094.80	255.00	146.90	93.00	89.40	76.00	86.40		
9	147.80	208.10	225.20	256.00	175.70	1074.40	279.30	147.80	88.80	82.50	76.50	87.00		
10	146.00	205.40	240.00	224.30	178.40	1033.80	296.90	146.00	87.60	85.20	80.50	84.60		
11	146.00	207.20	235.10	203.60	178.40	993.40	296.90	145.20	94.80	87.60	84.00	83.50		
12	146.90	210.80	210.80	185.60	178.40	954.80	278.20	138.80	99.00	82.00	85.80	80.50		
13	150.50	222.50	181.10	167.60	178.40	926.20	262.00	133.20	94.20	76.00	84.60	76.50		
14	149.60	236.00	179.30	160.40	184.70	879.00	251.00	130.80	90.00	74.50	80.50	75.50		
15	152.30	243.00	179.30	155.90	206.30	822.20	256.00	135.60	88.80	77.00	76.50	73.50		
16	151.40	241.00	178.40	146.00	218.00	762.40	282.60	148.70	84.00	78.00	77.00	73.00		
17	147.80	242.00	179.30	140.40	227.90	696.80	322.20	152.30	94.20	83.50	77.50	74.00		
18	147.80	235.10	183.80	143.60	240.00	650.80	328.80	144.40	88.20	103.40	73.00	75.50		
19	153.20	220.70	218.90	139.60	250.00	649.40	293.60	142.80	81.50	117.40	69.00	75.50		
20	154.10	206.30	246.00	134.00	256.00	666.20	230.60	142.80	83.50	126.50	74.00	76.50		
21	154.10	194.60	251.00	126.50	277.10	676.50	176.60	142.00	85.20	125.80	79.00	77.00		
22	143.60	196.40	246.00	118.10	293.60	653.60	151.40	142.00	82.00	127.90	78.00	76.00		
23	144.40	195.50	238.00	120.20	299.10	638.20	147.80	143.60	78.50	129.30	76.50	76.50		
24	148.70	191.90	225.20	125.80	295.80	620.50	140.40	142.00	76.00	120.20	79.00	75.50		
25	150.50	190.10	218.00	121.60	305.70	595.80	134.80	138.80	78.50	100.80	76.50	73.00		
26	157.70	190.10	207.20	124.40	344.20	576.30	134.00	138.80	81.50	96.60	75.00	73.00		
27	174.80	183.80	184.70	134.80	393.80	533.40	131.60	134.80	83.00	84.00	74.50	73.50		
28	191.00	179.30	179.30	144.40	425.00	506.10	134.80	132.40	101.40	80.00	74.00	75.50		
29	199.10	182.00	179.30	155.90	428.60	470.60	139.60	135.60	119.50	77.00	75.50	78.50		
30	200.90	189.20	179.30	170.30	432.20	432.20	148.70	138.80	118.10	77.50	77.50	77.50		
31	184.70		177.50	468.20		151.40		118.80	80.00			78.50		
<b>Total</b>	<b>4809.80</b>	<b>6445.70</b>	<b>6164.30</b>	<b>5325.00</b>	<b>7707.90</b>	<b>22783.80</b>	<b>7588.00</b>	<b>4217.30</b>	<b>3018.90</b>	<b>3095.80</b>	<b>2246.90</b>	<b>2399.00</b>	<b>75802.40</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>160.33</b>	<b>207.93</b>	<b>205.48</b>	<b>171.77</b>	<b>248.64</b>	<b>759.46</b>	<b>244.77</b>	<b>140.58</b>	<b>97.38</b>	<b>99.86</b>	<b>77.48</b>	<b>77.39</b>	<b>207.11</b>	<b>CMS</b>
<b>Max</b>	<b>200.90</b>	<b>243.00</b>	<b>251.00</b>	<b>288.10</b>	<b>468.20</b>	<b>1098.20</b>	<b>387.80</b>	<b>154.10</b>	<b>131.60</b>	<b>135.60</b>	<b>85.80</b>	<b>87.00</b>	<b>1098.20</b>	<b>CMS</b>
<b>Min</b>	<b>143.60</b>	<b>179.30</b>	<b>178.40</b>	<b>118.10</b>	<b>147.80</b>	<b>432.20</b>	<b>131.60</b>	<b>127.90</b>	<b>76.00</b>	<b>74.50</b>	<b>69.00</b>	<b>73.00</b>	<b>69.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>415.57</b>	<b>556.91</b>	<b>532.60</b>	<b>460.08</b>	<b>665.96</b>	<b>1968.52</b>	<b>655.60</b>	<b>364.37</b>	<b>260.83</b>	<b>267.48</b>	<b>194.13</b>	<b>207.27</b>	<b>6549.33</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1101.60</b>	<b>CMS.</b>	<b>at 25.89 m. (MSL.)</b>	<b>at 24.00 Hours</b>	<b>on Sep 7, 2019</b>									
<b>Runoff Yield</b>	<b>3.62</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>19.20</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Ban Tha Takhian , Phitsanulok (N.68)

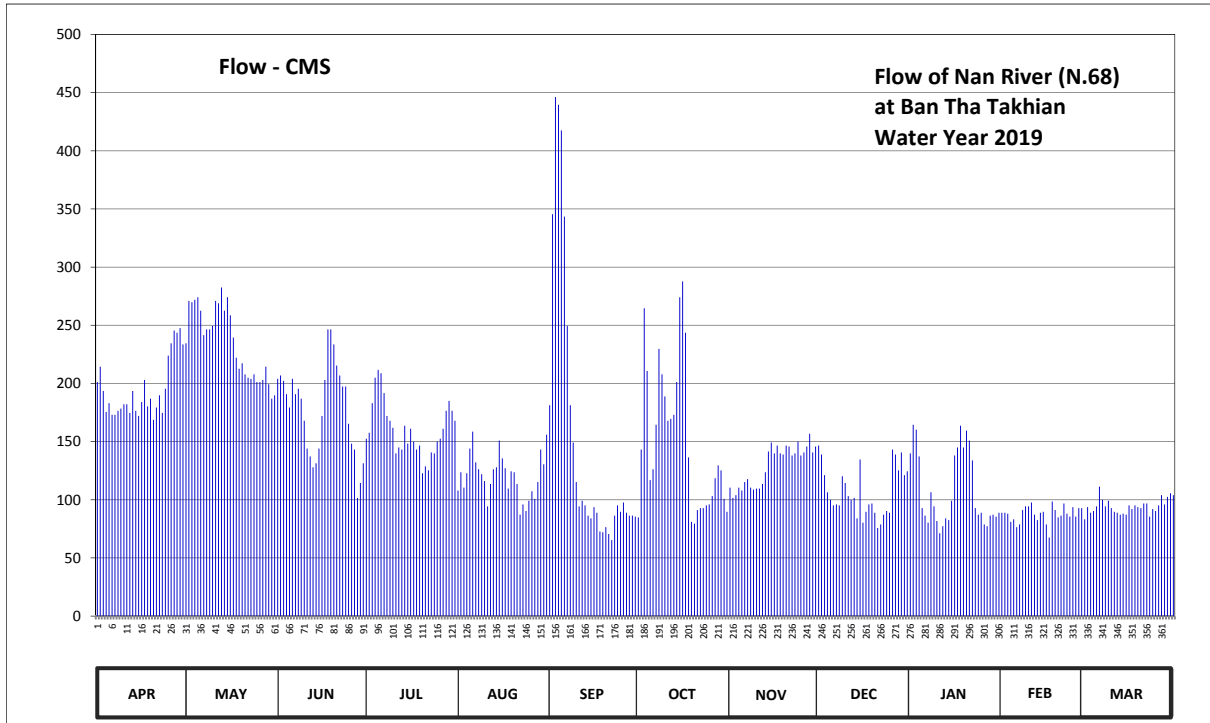
Lat 16 - 52 - 15 N Long 100 - 14 - 36 E

Location : on right bank at Ban Tha Takhian.

	<b>Ban</b> Tha Takhian	<b>Amphoe</b> Mueang	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	25,018 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+35.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+48.820 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Flow effected by Mae Yom side flow. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.77	38.12	37.80	37.23	36.70	37.56	36.41	36.73	37.16	37.08	36.46	36.39	
2	37.91	38.48	37.83	37.29	36.89	39.19	37.12	36.62	37.07	37.37	36.46	36.52	
3	37.69	38.47	37.78	37.58	36.73	40.11	38.42	36.65	36.86	37.32	36.45	36.46	
4	37.50	38.49	37.66	37.81	36.88	40.05	37.87	36.73	36.68	37.05	36.36	36.48	
5	37.58	38.51	37.54	37.88	37.13	39.85	36.81	36.70	36.60	36.51	36.39	36.53	
6	37.47	38.40	37.80	37.85	37.30	39.17	36.92	36.79	36.54	36.43	36.30	36.74	
7	37.47	38.19	37.66	37.67	36.99	38.27	37.37	36.82	36.55	36.35	36.33	36.60	
8	37.51	38.24	37.71	37.46	36.92	37.56	38.07	36.73	36.54	36.68	36.49	36.53	
9	37.53	38.24	37.62	37.41	36.87	37.19	37.84	36.71	36.85	36.53	36.53	36.59	
10	37.57	38.27	37.41	37.34	36.80	36.79	37.64	36.72	36.78	36.37	36.53	36.51	
11	37.57	38.48	37.13	37.08	36.53	36.53	37.41	36.72	36.64	36.23	36.57	36.47	
12	37.49	38.46	37.05	37.14	36.77	36.59	37.43	36.77	36.60	36.31	36.44	36.46	
13	37.69	38.59	36.94	37.12	36.92	36.54	37.47	36.89	36.62	36.40	36.38	36.44	
14	37.51	38.40	36.98	37.36	36.94	36.43	37.77	37.10	36.40	36.38	36.46	36.45	
15	37.46	38.51	37.13	37.18	37.21	36.40	38.51	37.19	37.02	36.59	36.47	36.44	
16	37.59	38.36	37.46	37.33	37.03	36.52	38.64	37.08	36.35	37.06	36.33	36.54	
17	37.79	38.17	37.79	37.20	36.93	36.46	38.21	37.16	36.47	37.14	36.18	36.50	
18	37.55	37.99	38.24	37.12	36.72	36.25	37.04	37.08	36.55	37.36	36.58	36.54	
19	37.62	37.89	38.24	37.16	36.90	36.24	36.36	37.07	36.56	37.14	36.49	36.52	
20	37.42	37.94	38.11	36.88	36.89	36.30	36.34	37.16	36.46	37.31	36.41	36.51	
21	37.54	37.84	37.92	36.95	36.77	36.22	36.49	37.15	36.29	37.21	36.43	36.56	
22	37.65	37.81	37.83	36.91	36.44	36.15	36.51	37.06	36.33	37.01	36.56	36.56	
23	37.49	37.80	37.73	37.09	36.55	36.43	36.51	37.08	36.44	36.51	36.45	36.42	
24	37.71	37.84	37.73	37.08	36.48	36.54	36.54	37.20	36.48	36.44	36.42	36.50	
25	38.01	37.77	37.38	37.20	36.59	36.47	36.55	37.06	36.46	36.46	36.52	36.48	
26	38.12	37.77	37.18	37.23	36.69	36.57	36.64	37.09	37.12	36.33	36.42	36.54	
27	38.23	37.79	37.12	37.33	36.61	36.46	36.83	37.15	37.07	36.31	36.51	36.65	
28	38.21	37.91	36.62	37.51	36.79	36.43	36.96	37.28	36.91	36.43	36.51	36.55	
29	38.25	37.75	36.78	37.60	37.12	36.43	36.91	37.09	37.09	36.44	36.47	36.63	
30	38.11	37.62	36.98	37.51	36.97	36.42	36.61	37.15	36.86	36.42	36.42	36.67	
31		37.65		37.41	37.27		36.47		36.90	36.46		36.65	
Mean	37.70	38.12	37.50	37.32	36.85	37.14	37.18	36.96	36.69	36.70	36.44	36.53	
Max	38.25	38.59	38.24	37.88	37.30	40.11	38.64	37.28	37.16	37.37	36.58	36.74	40.11
Min	37.42	37.62	36.62	36.88	36.44	36.15	36.34	36.62	36.29	36.23	36.18	36.39	36.15
Annual Max Momentary Gage Height	40.21		m. (MSL.) ,				at 15.00 Hours , on Sep 3 , 2019						
Zero Gage at Bottom Elevation	35.00		m. (MSL.) ,			River Bed	33.00	m. (MSL.)					
Left Bank Elevation		45.39		m. (MSL.) ,									
Right Bank Elevation		45.28		m. (MSL.) ,		Drainage Are	25,018	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	201.15	234.50	204.00	152.55	108.00	181.20	84.80	110.40	146.60	139.80	88.80	83.25		
2	214.45	270.90	206.85	157.65	123.65	345.45	143.20	101.60	138.95	164.45	88.80	93.60		
3	193.55	269.85	202.10	183.10	110.40	446.10	264.60	104.00	121.10	160.20	88.00	88.80		
4	175.50	271.95	190.70	204.95	122.80	439.50	210.65	110.40	106.40	137.25	81.00	90.40		
5	183.10	274.05	179.30	211.60	144.05	417.50	116.85	108.00	100.00	92.80	83.25	94.40		
6	172.95	262.50	204.00	208.75	158.50	343.35	126.20	115.20	95.20	86.40	76.50	111.20		
7	172.95	241.50	190.70	191.65	132.15	249.50	164.45	117.70	96.00	80.25	78.75	100.00		
8	176.45	246.50	195.45	172.10	126.20	181.20	229.65	110.40	95.20	106.40	91.20	94.40		
9	178.35	246.50	186.90	167.85	121.95	149.15	207.80	108.80	120.25	94.40	94.40	99.20		
10	182.15	249.50	167.85	161.90	116.00	115.20	188.80	109.60	114.40	81.75	94.40	92.80		
11	182.15	270.90	144.05	139.80	94.40	94.40	167.85	109.60	103.20	71.25	97.60	89.60		
12	174.65	268.80	137.25	144.90	113.60	99.20	169.55	113.60	100.00	77.25	87.20	88.80		
13	193.55	282.45	127.90	143.20	126.20	95.20	172.95	123.65	101.60	84.00	82.50	87.20		
14	176.45	262.50	131.30	163.60	127.90	86.40	201.15	141.50	84.00	82.50	88.80	88.00		
15	172.10	274.05	144.05	148.30	150.85	84.00	274.05	149.15	134.70	99.20	89.60	87.20		
16	184.05	258.50	172.10	161.05	135.55	93.60	287.70	139.80	80.25	138.10	78.75	95.20		
17	203.05	239.50	203.05	150.00	127.05	88.80	243.50	146.60	89.60	144.90	67.50	92.00		
18	180.25	222.05	246.50	143.20	109.60	72.75	136.40	139.80	96.00	163.60	98.40	95.20		
19	186.90	212.55	246.50	146.60	124.50	72.00	81.00	138.95	96.80	144.90	91.20	93.60		
20	168.70	217.30	233.50	122.80	123.65	76.50	79.50	146.60	88.80	159.35	84.80	92.80		
21	179.30	207.80	215.40	128.75	113.60	70.50	91.20	145.75	75.75	150.85	86.40	96.80		
22	189.75	204.95	206.85	125.35	87.20	65.25	92.80	138.10	78.75	133.85	96.80	96.80		
23	174.65	204.00	197.35	140.65	96.00	86.40	92.80	139.80	87.20	92.80	88.00	85.60		
24	195.45	207.80	197.35	139.80	90.40	95.20	95.20	150.00	90.40	87.20	85.60	92.00		
25	223.95	201.15	165.30	150.00	99.20	89.60	96.00	138.10	88.80	88.80	93.60	90.40		
26	234.50	201.15	148.30	152.55	107.20	97.60	103.20	140.65	143.20	78.75	85.60	95.20		
27	245.50	203.05	143.20	161.05	100.80	88.80	118.55	145.75	138.95	77.25	92.80	104.00		
28	243.50	214.45	101.60	176.45	115.20	86.40	129.60	156.80	125.35	86.40	92.80	96.00		
29	247.50	199.25	114.40	185.00	143.20	86.40	125.35	140.65	140.65	87.20	89.60	102.40		
30	233.50	186.90	131.30	176.45	130.45	85.60	100.80	145.75	121.10	85.60		105.60		
31		189.75		167.85	155.95		89.60		124.50	88.80		104.00		
Total	5840.05	7296.60	5335.10	4979.45	3736.20	4582.75	4685.75	3886.70	3323.70	3366.25	2542.65	2926.45	52501.65	CMSDAY
Mean	194.67	235.37	177.84	160.63	120.52	152.76	151.15	129.56	107.22	108.59	87.68	94.40	143.45	CMS
Max	247.50	282.45	246.50	211.60	158.50	446.10	287.70	156.80	146.60	164.45	98.40	111.20	446.10	CMS
Min	168.70	186.90	101.60	122.80	87.20	65.25	79.50	101.60	75.75	71.25	67.50	83.25	65.25	CMS
Runoff	504.58	630.43	460.95	430.22	322.81	395.95	404.85	335.81	287.17	290.84	219.68	252.85	4536.14	MCM
Momentary Peak	457.10 CMS. at 40.21 m. (MSL.) at 15.00 Hours , on Sep 3 , 2019													
Runoff Yield	5.75 Liters/Second/Square KM.			Momentary Peak Yield				18.27 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Khek River at Ban Tan Tawan , Phetchabun (N.73)

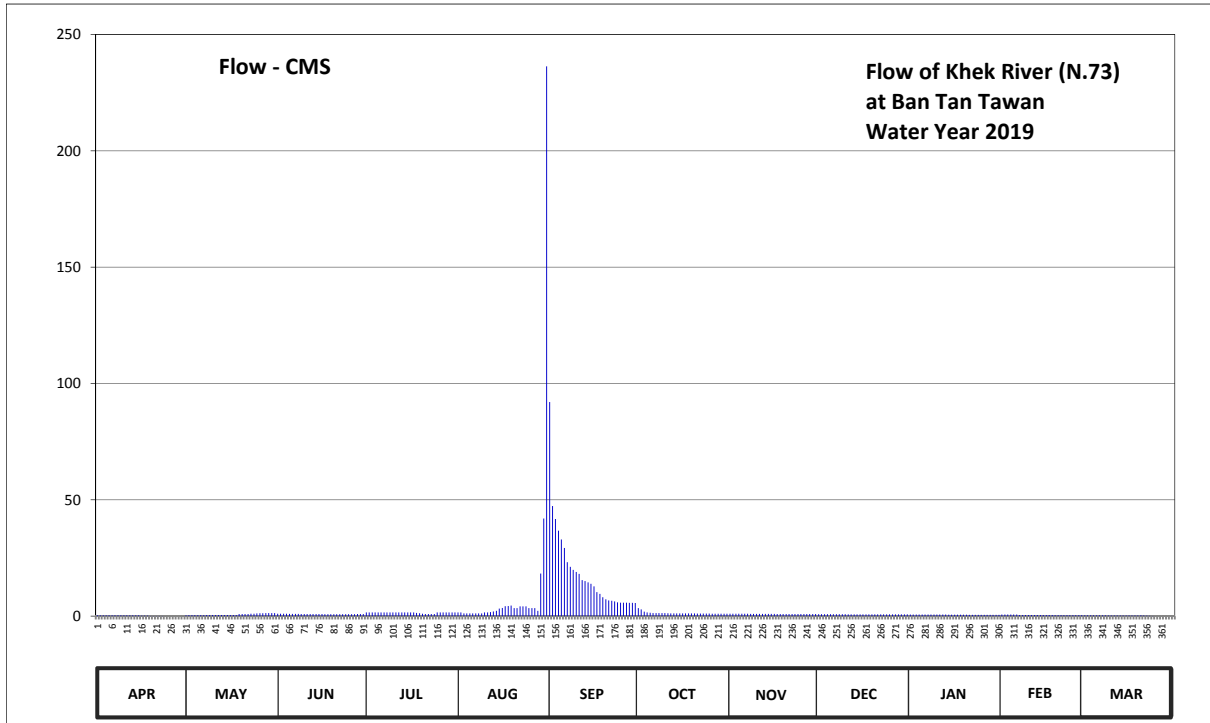
Lat 16 - 33 - 24 N Long 100 - 53 - 44 E

Location : on right bank at Ban Tan Tawan.

	<b>Ban Tan Tawan</b>	<b>Amphoe Khao Kho</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	212 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+684.529 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +694.038 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2002 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2002 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2002 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +694.020 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 2 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.52	685.52	685.70	685.82	685.82	690.55	686.12	685.69	685.65	685.62	685.62	685.52	
2	685.52	685.53	685.70	685.82	685.82	688.80	686.04	685.69	685.65	685.62	685.62	685.52	
3	685.52	685.54	685.69	685.82	685.72	688.55	685.88	685.69	685.65	685.62	685.62	685.52	
4	685.52	685.54	685.69	685.82	685.72	688.31	685.81	685.69	685.65	685.62	685.62	685.51	
5	685.52	685.54	685.68	685.82	685.72	688.13	685.78	685.69	685.65	685.62	685.62	685.51	
6	685.52	685.54	685.68	685.82	685.72	687.95	685.76	685.69	685.65	685.62	685.62	685.51	
7	685.52	685.54	685.68	685.82	685.72	687.63	685.76	685.69	685.65	685.62	685.56	685.51	
8	685.52	685.55	685.68	685.82	685.72	687.52	685.76	685.68	685.65	685.61	685.56	685.51	
9	685.52	685.55	685.67	685.82	685.72	687.45	685.75	685.68	685.65	685.61	685.56	685.50	
10	685.52	685.55	685.67	685.82	685.82	687.40	685.75	685.68	685.65	685.61	685.56	685.50	
11	685.52	685.55	685.67	685.82	685.82	687.35	685.74	685.68	685.64	685.61	685.55	685.50	
12	685.52	685.55	685.67	685.82	685.84	687.19	685.73	685.68	685.64	685.61	685.55	685.50	
13	685.52	685.56	685.67	685.82	685.89	687.16	685.73	685.68	685.64	685.61	685.55	685.50	
14	685.52	685.56	685.66	685.82	685.94	687.12	685.72	685.68	685.64	685.60	685.55	685.50	
15	685.52	685.56	685.66	685.82	686.09	687.08	685.72	685.68	685.64	685.60	685.55	685.50	
16	685.46	685.57	685.66	685.82	686.13	687.00	685.72	685.68	685.64	685.60	685.55	685.50	
17	685.46	685.57	685.65	685.82	686.23	686.82	685.72	685.67	685.64	685.60	685.55	685.49	
18	685.46	685.57	685.65	685.77	686.24	686.77	685.72	685.67	685.64	685.60	685.55	685.49	
19	685.42	685.66	685.65	685.74	686.27	686.65	685.72	685.67	685.64	685.60	685.54	685.49	
20	685.42	685.66	685.65	685.70	686.12	686.56	685.72	685.67	685.64	685.60	685.54	685.52	
21	685.42	685.67	685.65	685.67	686.12	686.51	685.71	685.67	685.63	685.59	685.54	685.48	
22	685.42	685.67	685.65	685.67	686.22	686.50	685.71	685.67	685.63	685.59	685.54	685.46	
23	685.42	685.70	685.65	685.66	686.22	686.47	685.71	685.67	685.63	685.59	685.54	685.44	
24	685.40	685.70	685.65	685.66	686.22	686.43	685.71	685.66	685.63	685.59	685.54	685.42	
25	685.40	685.72	685.65	685.82	686.12	686.42	685.71	685.66	685.63	685.59	685.53	685.38	
26	685.38	685.74	685.65	685.82	686.12	686.42	685.70	685.66	685.63	685.59	685.53	685.36	
27	685.38	685.74	685.65	685.82	686.12	686.42	685.70	685.66	685.63	685.59	685.53	685.34	
28	685.38	685.76	685.66	685.82	685.94	686.41	685.70	685.66	685.63	685.58	685.53	685.32	
29	685.36	685.76	685.66	685.82	687.36	686.41	685.70	685.66	685.63	685.58	685.53	685.32	
30	685.32	685.76	685.66	685.82	688.56	686.40	685.70	685.66	685.63	685.58	685.53	685.32	
31		685.76		685.82	694.46		685.70		685.63	685.58		685.32	
Mean	685.46	685.62	685.67	685.79	686.37	687.21	685.75	685.68	685.64	685.60	685.56	685.46	
Max	685.52	685.76	685.70	685.82	694.46	690.55	686.12	685.69	685.65	685.62	685.62	685.52	694.46
Min	685.32	685.52	685.65	685.66	685.72	686.40	685.70	685.66	685.63	685.58	685.53	685.32	685.32
Annual Max Momentary Gage Height	695.54		m. (MSL.) ,			at 12.00 Hours ,	on Aug 31 , 2019						
Zero Gage at Bottom Elevation	684.53		m. (MSL.) ,			River Bed	685.51	m. (MSL.)					
Left Bank Elevation		694.03		m. (MSL.) ,									
Right Bank Elevation		694.01		m. (MSL.) ,		Drainage Are	212	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.36	1.05	1.61	1.61	92.03	3.44	1.01	0.83	0.69	0.69	0.36	
2	0.36	0.39	1.05	1.61	1.61	47.30	2.88	1.01	0.83	0.69	0.69	0.36	
3	0.36	0.42	1.01	1.61	1.14	41.75	1.94	1.01	0.83	0.69	0.69	0.36	
4	0.36	0.42	1.01	1.61	1.14	36.71	1.56	1.01	0.83	0.69	0.69	0.33	
5	0.36	0.42	0.96	1.61	1.14	32.93	1.41	1.01	0.83	0.69	0.69	0.33	
6	0.36	0.42	0.96	1.61	1.14	29.30	1.32	1.01	0.83	0.69	0.69	0.33	
7	0.36	0.42	0.96	1.61	1.14	23.14	1.32	1.01	0.83	0.69	0.48	0.33	
8	0.36	0.45	0.96	1.61	1.14	21.16	1.32	0.96	0.83	0.65	0.48	0.33	
9	0.36	0.45	0.92	1.61	1.14	19.90	1.28	0.96	0.83	0.65	0.48	0.30	
10	0.36	0.45	0.92	1.61	1.61	19.00	1.28	0.96	0.83	0.65	0.48	0.30	
11	0.36	0.45	0.92	1.61	1.61	18.15	1.23	0.96	0.78	0.65	0.45	0.30	
12	0.36	0.45	0.92	1.61	1.72	15.46	1.19	0.96	0.78	0.65	0.45	0.30	
13	0.36	0.48	0.92	1.61	2.00	15.04	1.19	0.96	0.78	0.65	0.45	0.30	
14	0.36	0.48	0.87	1.61	2.27	14.48	1.14	0.96	0.78	0.60	0.45	0.30	
15	0.36	0.48	0.87	1.61	3.23	13.92	1.14	0.96	0.78	0.60	0.45	0.30	
16	0.18	0.51	0.87	1.61	3.51	12.80	1.14	0.96	0.78	0.60	0.45	0.30	
17	0.18	0.51	0.83	1.61	4.24	10.28	1.14	0.92	0.78	0.60	0.45	0.27	
18	0.18	0.51	0.83	1.37	4.32	9.58	1.14	0.92	0.78	0.60	0.45	0.27	
19	0.06	0.87	0.83	1.23	4.56	8.10	1.14	0.92	0.78	0.60	0.42	0.27	
20	0.06	0.87	0.83	1.05	3.44	7.20	1.14	0.92	0.78	0.60	0.42	0.36	
21	0.06	0.92	0.83	0.92	3.44	6.70	1.10	0.92	0.74	0.57	0.42	0.24	
22	0.06	0.92	0.83	0.92	4.16	6.60	1.10	0.92	0.74	0.57	0.42	0.18	
23	0.06	1.05	0.83	0.87	4.16	6.30	1.10	0.92	0.74	0.57	0.42	0.12	
24	0.00	1.05	0.83	0.87	4.16	5.90	1.10	0.87	0.74	0.57	0.42	0.06	
25	0.00	1.14	0.83	1.61	3.44	5.80	1.10	0.87	0.74	0.57	0.39	0.00	
26	0.00	1.23	0.83	1.61	3.44	5.80	1.05	0.87	0.74	0.57	0.39	0.00	
27	0.00	1.23	0.83	1.61	3.44	5.80	1.05	0.87	0.74	0.57	0.39	0.00	
28	0.00	1.32	0.87	1.61	2.27	5.70	1.05	0.87	0.74	0.54	0.39	0.00	
29	0.00	1.32	0.87	1.61	18.32	5.70	1.05	0.87	0.74	0.54	0.39	0.00	
30	0.00	1.32	0.87	1.61	41.96	5.60	1.05	0.87	0.74	0.54		0.00	
31		1.32		1.61	236.30		1.05		0.74	0.54		0.00	
<b>Total</b>	6.24	22.63	26.91	45.87	368.80	548.13	41.14	28.24	24.24	19.08	14.13	6.90	1152.31 CMSDAY
<b>Mean</b>	0.21	0.73	0.90	1.48	11.90	18.27	1.33	0.94	0.78	0.62	0.49	0.22	3.15 CMS
<b>Max</b>	0.36	1.32	1.05	1.61	236.30	92.03	3.44	1.01	0.83	0.69	0.69	0.36	236.30 CMS
<b>Min</b>	0.00	0.36	0.83	0.87	1.14	5.60	1.05	0.87	0.74	0.54	0.39	0.00	0.00 CMS
<b>Runoff</b>	0.54	1.96	2.33	3.96	31.86	47.36	3.55	2.44	2.09	1.65	1.22	0.60	99.56 MCM
<b>Momentary Peak</b>	284.50 CMS. at 695.54 m. (MSL.) at 12.00 Hours , on Aug 31, 2019												
<b>Runoff Yield</b>	14.89 Liters/Second/Square KM.			Momentary Peak Yield 1341.98 Liters/Second/Square KM.									

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Bang Krathum , Phitsanulok (N.74)

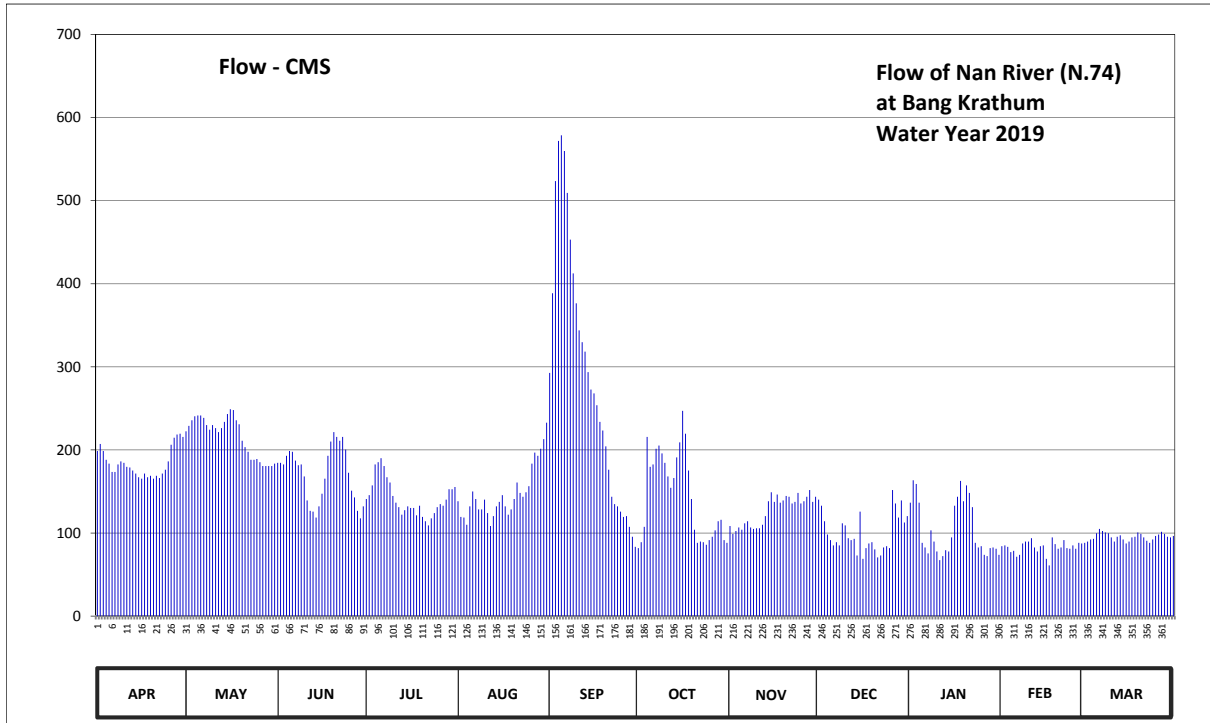
Lat 16 - 34 - 38 N Long 100 - 14 - 33 E

Location : on left bank at Bang Krathum.

	<b>Ban</b> -	<b>Amphoe</b> Bang Krathum	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	25,489 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+29.360 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+44.315 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.08	32.33	31.93	31.45	31.42	33.07	30.76	31.08	31.44	31.40	30.79	30.84	
2	32.17	32.40	31.93	31.50	31.21	34.07	30.85	30.97	31.36	31.70	30.80	30.86	
3	32.08	32.47	31.91	31.63	31.20	35.35	31.07	31.01	31.15	31.65	30.78	30.89	
4	31.97	32.52	32.02	31.91	31.10	35.79	32.26	31.06	30.96	31.40	30.70	30.90	
5	31.92	32.53	32.08	31.94	31.35	35.85	31.88	31.03	30.88	30.84	30.72	30.98	
6	31.81	32.53	32.07	31.99	31.55	35.68	31.91	31.12	30.80	30.77	30.63	31.04	
7	31.81	32.50	31.96	31.89	31.45	35.22	32.11	31.15	30.85	30.68	30.66	31.01	
8	31.91	32.41	31.90	31.74	31.31	34.71	32.15	31.06	30.80	31.02	30.83	30.99	
9	31.95	32.35	31.91	31.67	31.31	34.31	32.05	31.04	31.12	30.86	30.86	30.98	
10	31.93	32.41	31.75	31.49	31.44	33.95	31.93	31.05	31.09	30.71	30.86	30.92	
11	31.88	32.37	31.43	31.40	31.26	33.61	31.75	31.05	30.91	30.58	30.91	30.86	
12	31.87	32.32	31.29	31.34	31.08	33.46	31.60	31.10	30.88	30.64	30.77	30.93	
13	31.83	32.37	31.28	31.24	31.22	33.34	31.73	31.22	30.90	30.73	30.71	30.95	
14	31.79	32.45	31.20	31.30	31.35	33.08	32.00	31.42	30.65	30.71	30.79	30.89	
15	31.74	32.55	31.35	31.35	31.41	32.86	32.19	31.54	31.28	30.92	30.80	30.83	
16	31.72	32.61	31.52	31.33	31.50	32.81	32.59	31.41	30.60	31.36	30.60	30.86	
17	31.79	32.60	31.72	31.33	31.35	32.66	32.30	31.51	30.76	31.48	30.50	30.92	
18	31.74	32.47	32.02	31.23	31.24	32.45	31.83	31.40	30.83	31.69	30.92	30.93	
19	31.76	32.42	32.20	31.36	31.31	32.34	31.45	31.43	30.85	31.42	30.82	30.99	
20	31.72	32.21	32.32	31.21	31.45	32.14	31.03	31.49	30.74	31.63	30.75	30.97	
21	31.76	32.13	32.26	31.15	31.67	31.84	30.84	31.48	30.62	31.53	30.77	30.92	
22	31.73	32.07	32.21	31.09	31.53	31.48	30.86	31.39	30.65	31.34	30.88	30.87	
23	31.79	31.97	32.26	31.19	31.48	31.38	30.85	31.41	30.77	30.84	30.76	30.84	
24	31.84	31.97	32.10	31.26	31.54	31.35	30.81	31.53	30.79	30.77	30.75	30.89	
25	31.95	31.98	31.80	31.34	31.62	31.28	30.88	31.39	30.76	30.79	30.80	30.94	
26	32.16	31.94	31.56	31.38	31.92	31.21	30.93	31.42	31.57	30.66	30.75	30.96	
27	32.25	31.89	31.47	31.36	32.06	31.22	31.02	31.48	31.39	30.64	30.84	31.00	
28	32.29	31.89	31.29	31.44	32.02	31.07	31.15	31.57	31.20	30.76	30.83	30.97	
29	32.30	31.89	31.19	31.58	32.11	30.93	31.17	31.41	31.43	30.77	30.80	30.93	
30	32.26	31.89	31.35	31.58	32.23	30.78	30.88	31.48	31.13	30.75	30.80	30.92	
31		31.92		31.61	32.44		30.84		31.22	30.66		30.94	
Mean	31.93	32.27	31.78	31.46	31.52	32.98	31.47	31.29	30.98	31.02	30.77	30.93	
Max	32.30	32.61	32.32	31.99	32.44	35.85	32.59	31.57	31.57	31.70	30.92	31.04	35.85
Min	31.72	31.89	31.19	31.09	31.08	30.78	30.76	30.97	30.60	30.58	30.50	30.83	30.50
Annual Max Momentary Gage Height	35.88		m. (MSL.) ,			at 18.00 Hours ,	on Sep 5 , 2019						
Zero Gage at Bottom Elevation	29.36		m. (MSL.) ,			River Bed	26.58	m. (MSL.)					
Left Bank Elevation		40.10		m. (MSL.) ,									
Right Bank Elevation		39.88		m. (MSL.) ,		Drainage Are	25,489	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	198.60	222.35	184.35	141.00	138.30	292.65	81.80	108.30	140.10	136.50	84.20	88.20		
2	207.15	229.00	184.35	145.50	119.40	388.50	89.00	98.95	132.90	163.50	85.00	89.80		
3	198.60	235.65	182.45	157.20	118.50	523.50	107.45	102.35	114.25	159.00	83.40	92.20		
4	188.15	240.40	192.90	182.45	110.00	571.90	215.70	106.60	98.10	136.50	77.00	93.00		
5	183.40	241.35	198.60	185.30	132.00	578.50	179.70	104.05	91.40	88.20	78.60	99.80		
6	173.40	241.35	197.65	190.05	150.00	559.80	182.45	111.70	85.00	82.60	71.40	104.90		
7	173.40	238.50	187.20	180.60	141.00	509.20	201.45	114.25	89.00	75.40	73.80	102.35		
8	182.45	229.95	181.50	167.10	128.40	453.10	205.25	106.60	85.00	103.20	87.40	100.65		
9	186.25	224.25	182.45	160.80	128.40	412.50	195.75	104.90	111.70	89.80	89.80	99.80		
10	184.35	229.95	168.00	144.60	140.10	376.50	184.35	105.75	109.15	77.80	89.80	94.70		
11	179.70	226.15	139.20	136.50	123.90	343.95	168.00	105.75	93.85	67.40	93.85	89.80		
12	178.80	221.40	126.60	131.10	108.30	329.70	154.50	110.00	91.40	72.20	82.60	95.55		
13	175.20	226.15	125.70	122.10	120.30	318.30	166.20	120.30	93.00	79.40	77.80	97.25		
14	171.60	233.75	118.50	127.50	132.00	293.60	191.00	138.30	73.00	77.80	84.20	92.20		
15	167.10	243.25	132.00	132.00	137.40	272.70	209.05	149.10	125.70	94.70	85.00	87.40		
16	165.30	248.95	147.30	130.20	145.50	267.95	247.05	137.40	69.00	132.90	69.00	89.80		
17	171.60	248.00	165.30	130.20	132.00	253.70	219.50	146.40	81.80	143.70	61.00	94.70		
18	167.10	235.65	192.90	121.20	122.10	233.75	175.20	136.50	87.40	162.60	94.70	95.55		
19	168.90	230.90	210.00	132.90	128.40	223.30	141.00	139.20	89.00	138.30	86.60	100.65		
20	165.30	210.95	221.40	119.40	141.00	204.30	104.05	144.60	80.20	157.20	81.00	98.95		
21	168.90	203.35	215.70	114.25	160.80	176.10	88.20	143.70	70.60	148.20	82.60	94.70		
22	166.20	197.65	210.95	109.15	148.20	143.70	89.80	135.60	73.00	131.10	91.40	90.60		
23	171.60	188.15	215.70	117.65	143.70	134.70	89.00	137.40	82.60	88.20	81.80	88.20		
24	176.10	188.15	200.50	123.90	149.10	132.00	85.80	148.20	84.20	82.60	81.00	92.20		
25	186.25	189.10	172.50	131.10	156.30	125.70	91.40	135.60	81.80	84.20	85.00	96.40		
26	206.20	185.30	150.90	134.70	183.40	119.40	95.55	138.30	151.80	73.80	81.00	98.10		
27	214.75	180.60	142.80	132.90	196.70	120.30	103.20	143.70	135.60	72.20	88.20	101.50		
28	218.55	180.60	126.60	140.10	192.90	107.45	114.25	151.80	118.50	81.80	87.40	98.95		
29	219.50	180.60	117.65	152.70	201.45	95.55	115.95	137.40	139.20	82.60	85.00	95.55		
30	215.70	180.60	132.00	152.70	212.85	83.40	91.40	143.70	112.55	81.00	94.70	94.70		
31	183.40		155.40	232.80			88.20		120.30	73.80	96.40			
Total	5530.10	6715.40	5123.65	4402.25	4575.20	8645.70	4471.20	3806.40	3111.10	3238.20	2399.55	2954.55	54973.30	CMSDAY
Mean	184.34	216.63	170.79	142.01	147.59	288.19	144.23	126.88	100.36	104.46	82.74	95.31	150.20	CMS
Max	219.50	248.95	221.40	190.05	232.80	578.50	247.05	151.80	151.80	163.50	94.70	104.90	578.50	CMS
Min	165.30	180.60	117.65	109.15	108.30	83.40	81.80	98.95	69.00	67.40	61.00	87.40	61.00	CMS
Runoff	477.80	580.21	442.68	380.35	395.30	746.99	386.31	328.87	268.80	279.78	207.32	255.27	4749.69	MCM
Momentary Peak		581.80	CMS. at 35.88 m. (MSL.)											at 18.00 Hours , on Sep 5 , 2019
Runoff Yield		5.91	Liters/Second/Square KM.											Momentary Peak Yield 22.83 Liters/Second/Square KM.



## WATER YEAR : 2019

## NAN RIVER BASIN

Nam Wa at Tha Li Bridge , Nan (N.75)

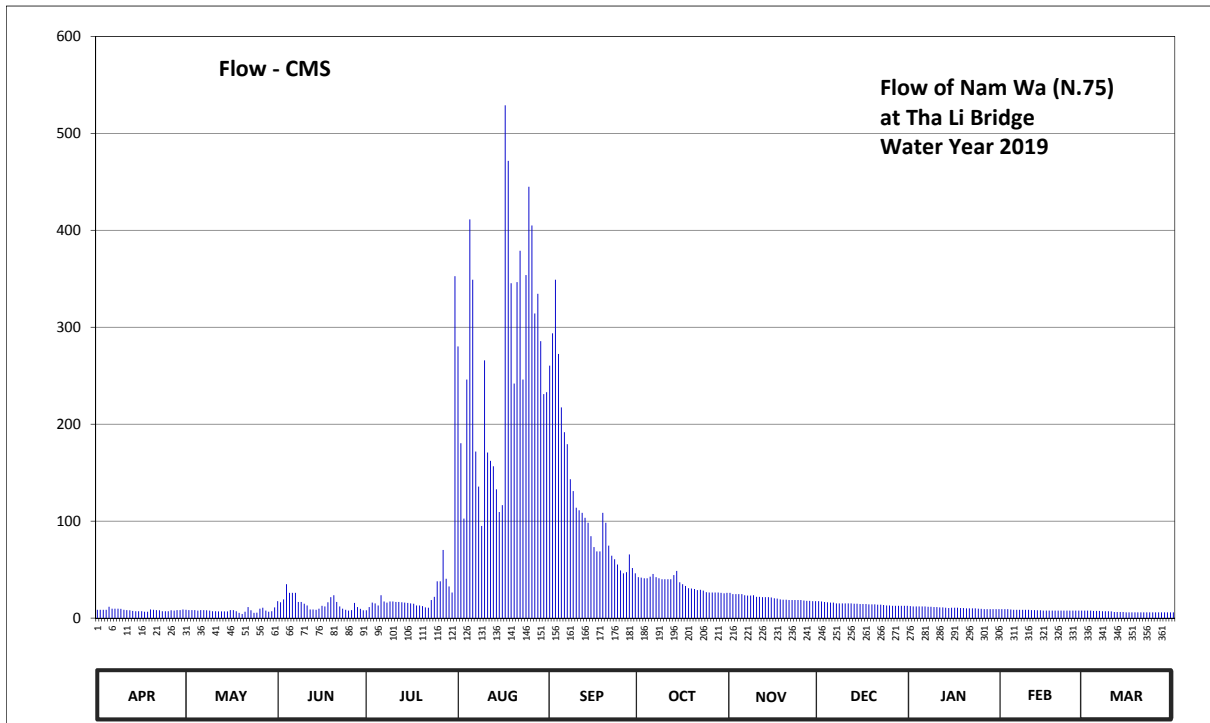
Lat 18 - 33 - 00 N Long 100 - 48 - 41 E

Location : on left bank at the bridge.

	<b>Ban</b>	<b>Tha Li Bridge</b>	<b>Amphoe</b>	<b>Wiang Sa</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainage Area</b>	2,170	sq.km.				
<b>Type of Gage</b>	Staff gage.					
<b>Zero Gage at Bottom</b>	+182.805 m. (MSL.)					
<b>Bench Mark</b>	B.M.- H.D.					
<b>Location BM</b>	On left bank at the approach of the bridge.				<b>Elevation</b>	+196.616 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2006 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2006 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.02	184.02	184.28	184.00	187.52	187.34	184.85	184.50	184.28	184.14	184.04	183.99	
2	184.02	184.01	184.25	184.11	186.53	187.64	184.84	184.47	184.27	184.13	184.04	183.99	
3	184.02	184.01	184.33	184.24	185.69	188.10	184.83	184.47	184.26	184.13	184.04	183.99	
4	184.02	184.01	184.71	184.22	187.21	187.45	184.83	184.47	184.25	184.13	184.03	183.98	
5	184.12	183.99	184.50	184.16	188.61	186.92	184.86	184.47	184.24	184.13	184.02	183.98	
6	184.06	184.01	184.50	184.44	188.10	186.65	184.91	184.44	184.24	184.13	184.02	183.98	
7	184.06	184.01	184.50	184.27	186.44	186.52	184.85	184.43	184.22	184.12	184.02	183.97	
8	184.06	184.00	184.26	184.24	186.06	186.14	184.83	184.43	184.22	184.12	184.02	183.97	
9	184.05	183.99	184.26	184.27	185.60	186.01	184.81	184.44	184.22	184.11	184.02	183.97	
10	184.02	183.97	184.21	184.27	187.39	185.82	184.81	184.40	184.22	184.11	184.02	183.96	
11	184.01	183.97	184.16	184.26	186.43	185.79	184.81	184.40	184.22	184.10	184.01	183.94	
12	184.00	183.96	184.03	184.26	186.34	185.76	184.81	184.39	184.22	184.10	184.01	183.94	
13	183.98	183.96	184.03	184.25	186.28	185.70	184.89	184.39	184.21	184.09	184.00	183.94	
14	183.97	183.96	184.02	184.24	186.03	185.64	184.96	184.42	184.21	184.08	184.00	183.94	
15	183.97	183.96	184.06	184.23	185.77	185.46	184.75	184.41	184.20	184.09	183.99	183.93	
16	183.97	184.01	184.15	184.22	185.85	185.31	184.71	184.40	184.20	184.09	183.99	183.93	
17	183.95	184.01	184.13	184.21	189.53	185.25	184.67	184.38	184.20	184.09	183.99	183.93	
18	183.95	183.97	184.25	184.16	189.09	185.25	184.62	184.36	184.19	184.08	183.99	183.93	
19	184.03	183.91	184.39	184.16	188.07	185.76	184.61	184.36	184.19	184.08	183.99	183.93	
20	184.02	183.87	184.44	184.14	187.17	185.64	184.60	184.36	184.19	184.07	183.99	183.93	
21	184.01	183.95	184.26	184.10	188.08	185.33	184.57	184.31	184.18	184.07	183.99	183.93	
22	184.00	184.11	184.13	184.09	188.35	185.19	184.58	184.31	184.18	184.07	183.99	183.93	
23	183.97	184.00	184.06	184.31	187.21	185.14	184.56	184.31	184.17	184.07	183.99	183.93	
24	183.97	183.91	184.02	184.40	188.14	185.06	184.52	184.31	184.16	184.06	183.99	183.93	
25	183.97	183.92	183.99	184.77	188.88	184.97	184.51	184.31	184.16	184.05	183.99	183.93	
26	184.00	184.06	184.01	184.77	188.56	184.92	184.51	184.30	184.15	184.04	183.99	183.93	
27	183.99	184.09	184.23	185.27	187.81	184.94	184.51	184.29	184.15	184.04	183.99	183.93	
28	184.01	183.99	184.11	184.82	187.98	185.21	184.51	184.29	184.15	184.04	183.99	183.93	
29	184.01	183.95	184.05	184.66	187.57	185.01	184.50	184.28	184.15	184.04	183.99	183.93	
30	184.03	183.97	184.00	184.51	187.06	184.92	184.49	184.28	184.15	184.04	183.99	183.93	
31		184.10		188.13	187.08		184.50		184.15	184.04	183.99	183.93	
Mean	184.01	183.99	184.21	184.46	187.30	185.83	184.70	184.38	184.20	184.09	184.00	183.95	
Max	184.12	184.11	184.71	188.13	189.53	188.10	184.96	184.50	184.28	184.14	184.04	183.99	189.53
Min	183.95	183.87	183.99	184.00	185.60	184.92	184.49	184.28	184.15	184.04	183.99	183.93	183.87
Annual Max Momentary Gage Height	190.48		m. (MSL.) ,				at 06.00 Hours , on Aug 17 , 2019						
Zero Gage at Bottom Elevation	182.81		m. (MSL.) ,			River Bed	181.34	m. (MSL.)					
Left Bank Elevation		196.61		m. (MSL.) ,									
Right Bank Elevation		196.58		m. (MSL.) ,		Drainage Are	2,170	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.60	8.60	17.46	8.00	280.20	260.40	42.25	26.00	17.46	12.40	9.20	7.71		
2	8.60	8.30	16.35	11.35	180.35	293.80	41.70	24.80	17.09	12.05	9.20	7.71		
3	8.60	8.30	19.34	15.98	102.65	349.00	41.15	24.80	16.72	12.05	9.20	7.71		
4	8.60	8.30	35.00	15.24	246.10	272.50	41.15	24.80	16.35	12.05	8.90	7.42		
5	11.70	7.71	26.00	13.10	411.25	217.40	42.80	24.80	15.98	12.05	8.60	7.42		
6	9.80	8.30	26.00	23.60	349.00	191.75	45.60	23.60	15.98	12.05	8.60	7.42		
7	9.80	8.30	26.00	17.09	171.80	179.40	42.25	23.20	15.24	11.70	8.60	7.13		
8	9.80	8.00	16.72	15.98	135.70	143.30	41.15	23.20	15.24	11.70	8.60	7.13		
9	9.50	7.71	16.72	17.09	95.00	130.95	40.05	23.60	15.24	11.35	8.60	7.13		
10	8.60	7.13	14.87	17.09	265.90	113.80	40.05	22.00	15.24	11.35	8.60	6.84		
11	8.30	7.13	13.10	16.72	170.85	111.15	40.05	22.00	15.24	11.00	8.30	6.26		
12	8.00	6.84	8.90	16.72	162.30	108.60	40.05	21.62	15.24	11.00	8.30	6.26		
13	7.42	6.84	8.90	16.35	156.60	103.50	44.45	21.62	14.87	10.70	8.00	6.26		
14	7.13	6.84	8.60	15.98	132.85	98.40	48.60	21.62	14.87	10.40	8.00	6.26		
15	7.13	6.84	9.80	15.61	109.45	84.50	37.00	21.24	14.50	10.70	7.71	5.97		
16	7.13	8.30	12.75	15.24	116.50	73.25	35.00	20.48	14.50	10.70	7.71	5.97		
17	6.55	8.30	12.05	14.87	528.90	68.75	33.15	20.10	14.50	10.70	7.71	5.97		
18	6.55	7.13	16.35	13.10	471.70	68.75	30.90	19.34	14.15	10.40	7.71	5.97		
19	8.90	5.39	21.62	13.10	345.40	108.60	30.45	18.96	14.15	10.40	7.71	5.97		
20	8.60	4.32	23.60	12.40	242.00	98.40	30.00	18.96	14.15	10.10	7.71	5.97		
21	8.30	6.55	16.72	11.00	346.60	74.75	28.80	18.58	13.80	10.10	7.71	5.97		
22	8.00	11.35	12.05	10.70	379.00	64.30	29.20	18.58	13.80	10.10	7.71	5.97		
23	7.13	8.00	9.80	18.58	246.10	60.80	28.40	18.58	13.45	10.10	7.71	5.97		
24	7.13	5.39	8.60	22.00	353.80	55.20	26.80	18.58	13.10	9.80	7.71	5.97		
25	7.13	5.68	7.71	38.00	445.00	49.20	26.40	18.58	13.10	9.50	7.71	5.97		
26	8.00	9.80	8.30	38.00	405.00	46.20	26.40	18.20	12.75	9.20	7.71	5.97		
27	7.71	10.70	15.61	70.25	314.20	47.40	26.40	17.83	12.75	9.20	7.71	5.97		
28	8.30	7.71	11.35	40.60	334.60	65.75	26.40	17.83	12.75	9.20	7.71	5.97		
29	8.30	6.55	9.50	32.70	285.70	51.70	26.00	17.46	12.75	9.20	7.71	5.97		
30	8.90	7.13	8.00	26.40	231.00	46.20	25.60	17.46	12.75	9.20	7.71	5.97		
31		11.00		352.60	233.00		26.00		12.75	9.20		5.97		
<b>Total</b>	248.21	238.44	457.77	965.44	8248.50	3637.70	1084.20	628.42	450.46	329.65	236.35	200.15	16725.29	CMSDAY
<b>Mean</b>	8.27	7.69	15.26	31.14	266.08	121.26	34.97	20.95	14.53	10.63	8.15	6.46	45.70	CMS
<b>Max</b>	11.70	11.35	35.00	352.60	528.90	349.00	48.60	26.00	17.46	12.40	9.20	7.71	528.90	CMS
<b>Min</b>	6.55	4.32	7.71	8.00	95.00	46.20	25.60	17.46	12.75	9.20	7.71	5.97	4.32	CMS
<b>Runoff</b>	21.45	20.60	39.55	83.41	712.67	314.30	93.67	54.30	38.92	28.48	20.42	17.29	1445.07	MCM
<b>Momentary Peak</b>	655.20 CMS. at 190.48 m. (MSL) at 06.00 Hours , on Aug 17 , 2019													
<b>Runoff Yield</b>	21.12 Liters/Second/Square KM.			Momentary Peak Yield				301.94 Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nam Khwae Noi at Ban Kaeng Bua Kham , Phitsanulok (N.81)

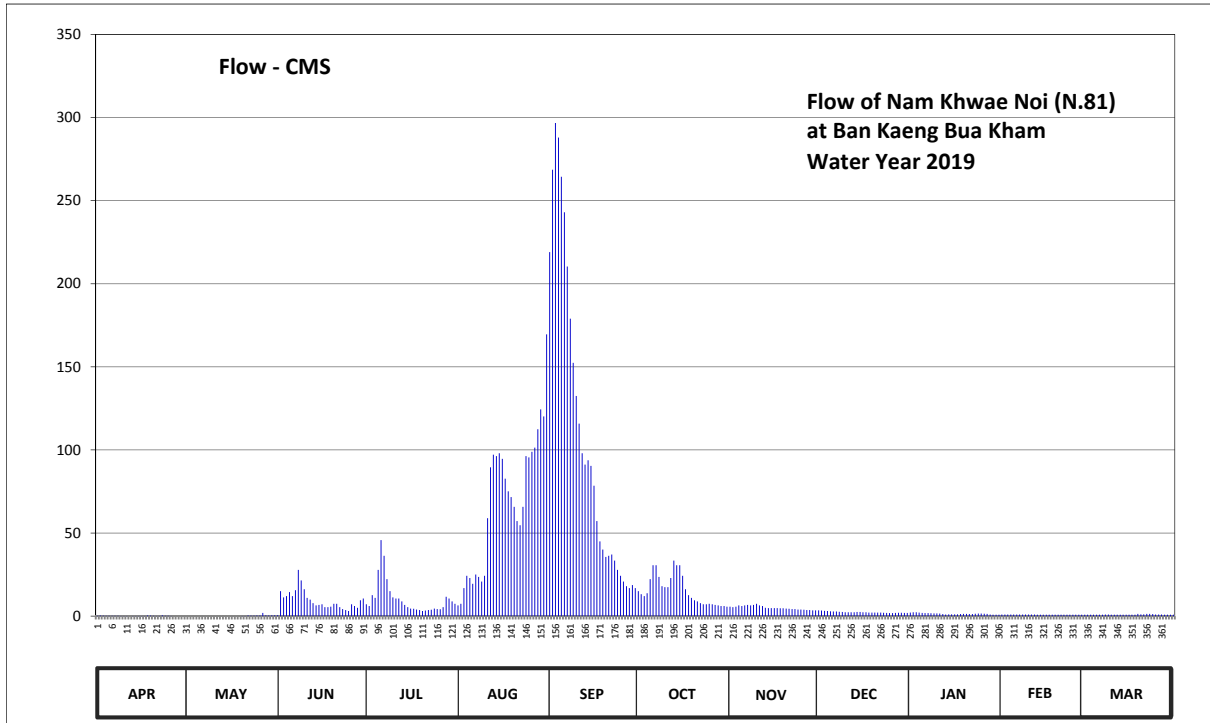
Lat 17 - 07 - 43 N Long 100 - 35 - 17 E

Location : on left bank at Ban Kaeng Bua Kham.

	<b>Ban</b> Kaeng Bua Kham	<b>Amphoe</b> Chat Trakan	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	3,120 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+160.260 m. (MSL.)		
<b>Bench Mark</b>	B.M.- H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +167.275 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2012 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2012 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2012 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

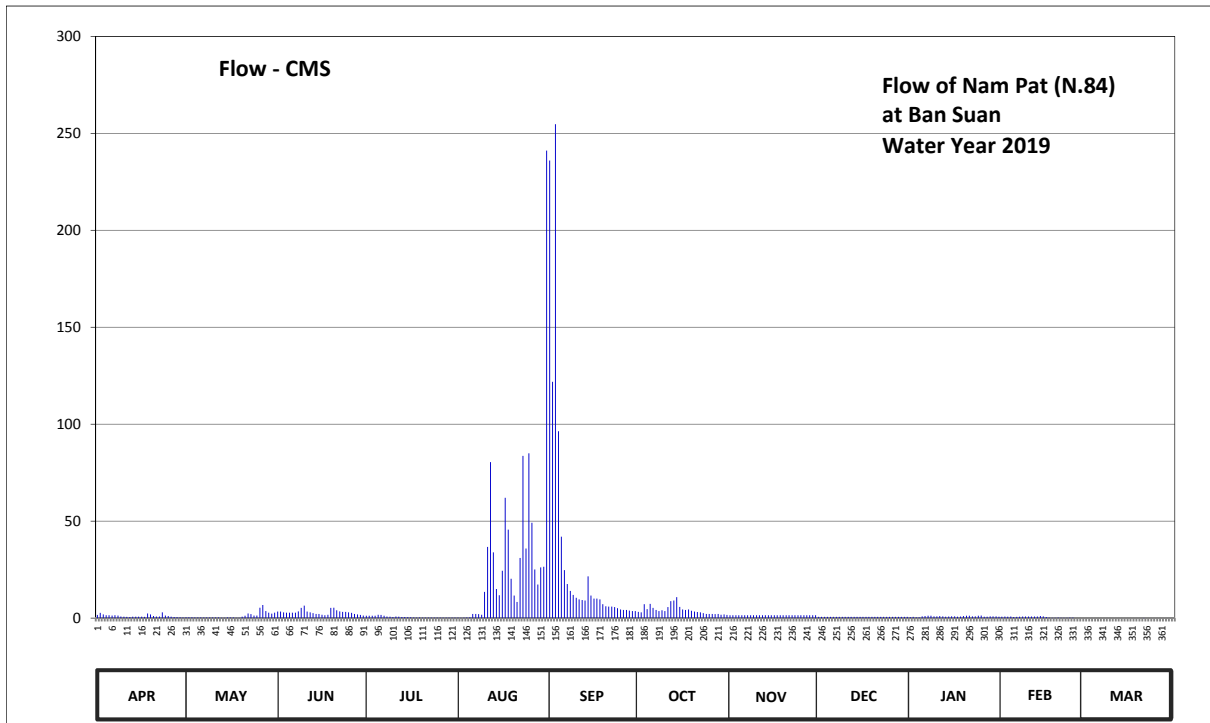
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.91	160.77	161.08	161.56	161.54	164.12	161.75	161.52	161.40	161.31	161.19	161.17	
2	161.00	160.77	161.75	161.53	161.57	164.61	161.72	161.51	161.39	161.32	161.19	161.17	
3	160.94	160.77	161.68	161.71	161.78	164.87	161.70	161.52	161.38	161.32	161.19	161.17	
4	160.91	160.79	161.70	161.67	161.89	164.79	161.73	161.54	161.37	161.31	161.19	161.17	
5	160.91	160.78	161.74	161.94	161.87	164.57	161.86	161.53	161.36	161.29	161.20	161.17	
6	160.90	160.78	161.70	162.18	161.82	164.36	161.98	161.54	161.35	161.28	161.20	161.17	
7	160.91	160.77	161.76	162.06	161.90	164.03	161.98	161.55	161.35	161.28	161.20	161.17	
8	160.90	160.77	161.94	161.86	161.88	163.70	161.88	161.54	161.34	161.27	161.19	161.18	
9	160.86	160.77	161.85	161.75	161.84	163.42	161.80	161.55	161.33	161.26	161.19	161.18	
10	160.84	160.78	161.77	161.68	161.89	163.20	161.79	161.57	161.32	161.26	161.19	161.17	
11	160.83	160.78	161.67	161.66	162.34	163.01	161.79	161.54	161.32	161.25	161.19	161.17	
12	160.82	160.77	161.64	161.66	162.70	162.80	161.87	161.53	161.32	161.22	161.18	161.17	
13	160.84	160.77	161.58	161.61	162.79	162.72	162.02	161.50	161.32	161.18	161.17	161.17	
14	160.84	160.78	161.54	161.55	162.78	162.75	161.98	161.49	161.33	161.21	161.17	161.17	
15	160.84	160.78	161.55	161.51	162.80	162.71	161.98	161.49	161.33	161.21	161.17	161.17	
16	160.84	160.77	161.56	161.47	162.76	162.57	161.89	161.49	161.32	161.21	161.17	161.17	
17	160.83	160.77	161.51	161.46	162.62	162.32	161.77	161.49	161.32	161.21	161.17	161.17	
18	160.97	160.77	161.51	161.43	162.53	162.17	161.71	161.48	161.31	161.22	161.17	161.17	
19	160.94	160.78	161.52	161.41	162.49	162.11	161.67	161.48	161.31	161.23	161.17	161.23	
20	160.89	160.84	161.57	161.37	162.42	162.05	161.63	161.47	161.31	161.23	161.17	161.21	
21	160.86	160.84	161.57	161.39	162.32	162.06	161.61	161.46	161.31	161.22	161.17	161.21	
22	160.85	160.97	161.51	161.41	162.29	162.07	161.58	161.45	161.31	161.22	161.17	161.23	
23	161.02	160.96	161.45	161.42	162.42	162.02	161.56	161.45	161.30	161.24	161.17	161.23	
24	160.91	160.92	161.41	161.47	162.78	161.94	161.56	161.43	161.29	161.25	161.17	161.22	
25	160.88	160.98	161.37	161.45	162.77	161.89	161.57	161.43	161.28	161.25	161.17	161.20	
26	160.85	160.99	161.56	161.44	162.81	161.84	161.56	161.42	161.28	161.24	161.17	161.19	
27	160.81	161.29	161.53	161.51	162.84	161.80	161.55	161.41	161.29	161.23	161.17	161.18	
28	160.79	161.03	161.50	161.69	162.97	161.78	161.54	161.41	161.30	161.20	161.17	161.17	
29	160.78	161.01	161.63	161.66	163.11	161.81	161.53	161.40	161.30	161.17	161.17	161.17	
30	160.77	161.06	161.66	161.61	163.06	161.78	161.53	161.40	161.29	161.17	161.17	161.17	
31		161.04		161.57	163.60		161.52		161.29	161.17		161.17	
Mean	160.87	160.86	161.59	161.60	162.43	162.86	161.73	161.49	161.32	161.24	161.18	161.18	
Max	161.02	161.29	161.94	162.18	163.60	164.87	162.02	161.57	161.40	161.32	161.20	161.23	164.87
Min	160.77	160.77	161.08	161.37	161.54	161.78	161.52	161.40	161.28	161.17	161.17	161.17	160.77
Annual Max Momentary Gage Height	164.93		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	160.26		m. (MSL.) ,			River Bed	160.46		m. (MSL.)				
Left Bank Elevation		167.45		m. (MSL.) ,									
Right Bank Elevation		167.39		m. (MSL.) ,		Drainage Are	3,120		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	0.00	0.56	7.10	6.40	219.00	15.00	5.70	3.50	2.15	0.96	0.88	
2	0.40	0.00	15.00	6.05	7.45	268.55	13.20	5.35	3.35	2.30	0.96	0.88	
3	0.28	0.00	11.30	12.60	16.80	296.70	12.00	5.70	3.20	2.30	0.96	0.88	
4	0.22	0.00	12.00	10.95	24.30	287.90	13.80	6.40	3.05	2.15	0.96	0.88	
5	0.22	0.00	14.40	27.80	22.90	264.35	22.20	6.05	2.90	1.90	1.00	0.88	
6	0.20	0.00	12.00	45.72	19.40	243.00	30.60	6.40	2.75	1.80	1.00	0.88	
7	0.22	0.00	15.60	36.32	25.00	210.35	30.60	6.75	2.75	1.80	1.00	0.88	
8	0.20	0.00	27.80	22.20	23.60	179.00	23.60	6.40	2.60	1.70	0.96	0.92	
9	0.12	0.00	21.50	15.00	20.80	152.40	18.00	6.75	2.45	1.60	0.96	0.92	
10	0.08	0.00	16.20	11.30	24.30	132.50	17.40	7.45	2.30	1.60	0.96	0.88	
11	0.06	0.00	10.95	10.60	58.90	115.85	17.40	6.40	2.30	1.50	0.96	0.88	
12	0.04	0.00	9.90	10.60	89.50	98.00	22.90	6.05	2.30	1.20	0.92	0.88	
13	0.08	0.00	7.80	8.85	97.15	91.20	33.44	5.00	2.30	0.92	0.88	0.88	
14	0.08	0.00	6.40	6.75	96.30	93.75	30.60	4.85	2.45	1.10	0.88	0.88	
15	0.08	0.00	6.75	5.35	98.00	90.35	30.60	4.85	2.45	1.10	0.88	0.88	
16	0.08	0.00	7.10	4.55	94.60	78.45	24.30	4.85	2.30	1.10	0.88	0.88	
17	0.06	0.00	5.35	4.40	82.70	57.20	16.20	4.85	2.30	1.10	0.88	0.88	
18	0.34	0.00	5.35	3.95	75.05	44.91	12.60	4.70	2.15	1.20	0.88	0.88	
19	0.28	0.00	5.70	3.65	71.65	40.02	10.95	4.70	2.15	1.30	0.88	1.30	
20	0.18	0.08	7.45	3.05	65.70	35.60	9.55	4.55	2.15	1.30	0.88	1.10	
21	0.12	0.08	7.45	3.35	57.20	36.32	8.85	4.40	2.15	1.20	0.88	1.10	
22	0.10	0.34	5.35	3.65	54.69	37.04	7.80	4.25	2.15	1.20	0.88	1.30	
23	0.44	0.32	4.25	3.80	65.70	33.44	7.10	4.25	2.00	1.40	0.88	1.30	
24	0.22	0.24	3.65	4.55	96.30	27.80	7.10	3.95	1.90	1.50	0.88	1.20	
25	0.16	0.36	3.05	4.25	95.45	24.30	7.45	3.95	1.80	1.50	0.88	1.00	
26	0.10	0.38	7.10	4.10	98.85	20.80	7.10	3.80	1.80	1.40	0.88	0.96	
27	0.02	1.90	6.05	5.35	101.40	18.00	6.75	3.65	1.90	1.30	0.88	0.92	
28	0.00	0.46	5.00	11.65	112.45	16.80	6.40	3.65	2.00	1.00	0.88	0.88	
29	0.00	0.42	9.55	10.60	124.40	18.70	6.05	3.50	2.00	0.88	0.88	0.88	
30	0.00	0.52	10.60	8.85	120.10	16.80	6.05	3.50	1.90	0.88		0.88	
31		0.48		7.45	169.50		5.70		1.90	0.88		0.88	
Total	4.60	5.58	281.16	324.39	2116.54	3249.08	481.29	152.65	73.20	44.26	26.56	29.62	6788.93 CMSDAY
Mean	0.15	0.18	9.37	10.46	68.28	108.30	15.53	5.09	2.36	1.43	0.92	0.96	18.55 CMS
Max	0.44	1.90	27.80	45.72	169.50	296.70	33.44	7.45	3.50	2.30	1.00	1.30	296.70 CMS
Min	0.00	0.00	0.56	3.05	6.40	16.80	5.70	3.50	1.80	0.88	0.88	0.88	0.00 CMS
Runoff	0.40	0.48	24.29	28.03	182.87	280.72	41.58	13.19	6.32	3.82	2.29	2.56	586.56 MCM
Momentary Peak	303.30	CMS. at 164.93 m. (MSL.) at 09.00 Hours , on Sep 3 , 2019											
Runoff Yield	5.96	Liters/Second/Square KM.		Momentary Peak Yield		97.21	Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.61	0.40	3.37	1.21	0.24	236.00	3.23	1.48	0.65	0.45	0.75	0.00	
2	2.69	0.40	3.37	1.21	0.18	121.85	2.96	1.48	0.65	0.65	0.80	0.00	
3	1.88	0.40	2.96	1.21	0.21	254.70	7.17	1.48	0.65	0.40	0.75	0.00	
4	1.48	0.30	2.83	1.21	0.30	96.40	4.58	1.48	0.65	0.40	0.80	0.00	
5	1.48	0.30	2.83	1.75	0.40	42.00	7.36	1.48	0.65	0.94	0.60	0.00	
6	1.34	0.30	2.83	1.61	2.15	24.75	5.26	1.48	0.65	1.07	0.65	0.00	
7	1.48	0.30	2.83	1.21	2.15	17.60	4.18	1.48	0.65	1.21	0.70	0.00	
8	1.34	0.30	3.50	0.80	2.02	14.00	3.64	1.48	0.65	1.21	0.80	0.00	
9	0.80	0.35	5.26	0.70	1.75	12.00	4.04	1.48	0.65	0.94	0.80	0.00	
10	0.70	0.30	6.39	0.60	13.50	10.45	3.64	1.48	0.65	0.94	0.80	0.00	
11	0.65	0.30	3.37	0.80	36.70	9.68	5.66	1.48	0.65	1.07	0.80	0.00	
12	0.60	0.30	2.96	0.70	80.45	9.29	8.71	1.48	0.65	0.94	0.80	0.00	
13	0.70	0.18	2.56	0.60	33.90	9.10	9.10	1.48	0.65	0.75	0.80	0.00	
14	0.70	0.18	2.15	0.55	15.00	21.50	10.84	1.48	0.65	0.80	1.07	0.00	
15	0.70	0.30	2.15	0.45	11.81	11.61	5.80	1.48	0.65	0.94	0.94	0.00	
16	0.70	0.30	1.75	0.40	24.40	10.07	4.45	1.48	0.65	0.94	0.60	0.00	
17	0.65	0.30	1.48	0.35	62.05	10.07	4.18	1.48	0.65	0.75	0.27	0.00	
18	2.42	0.18	1.75	0.24	45.60	9.68	4.45	1.48	0.65	0.80	0.18	0.00	
19	1.88	0.18	5.26	0.30	20.30	7.17	3.77	1.48	0.65	1.07	0.18	0.00	
20	1.07	0.70	5.39	0.27	11.61	6.07	3.37	1.48	0.65	1.21	0.21	0.00	
21	0.80	1.21	4.04	0.24	8.33	5.93	3.10	1.48	0.65	1.21	0.18	0.06	
22	0.80	2.42	3.50	0.24	31.05	5.93	2.96	1.48	0.65	0.94	0.18	0.00	
23	2.96	2.02	3.23	0.24	83.70	5.66	2.56	1.48	0.65	0.94	0.18	0.00	
24	1.34	1.34	3.23	0.27	35.90	5.12	2.15	1.48	0.65	1.21	0.27	0.00	
25	1.07	1.34	2.96	0.27	85.00	4.45	2.15	1.48	0.65	1.34	0.21	0.00	
26	0.70	5.39	2.69	0.27	49.20	4.18	2.15	1.48	0.65	0.75	0.00	0.00	
27	0.55	6.78	2.15	0.27	25.10	4.18	2.02	1.48	0.65	0.75	0.00	0.00	
28	0.45	3.64	1.88	0.21	17.30	3.91	2.15	1.48	0.65	0.94	0.00	0.00	
29	0.40	2.83	1.61	0.24	26.15	3.64	1.75	1.48	0.65	0.94	0.00	0.00	
30	0.35	2.29	1.34	0.21	26.50	3.64	1.88	1.48	0.65	0.94	0.00	0.00	
31		2.83		0.27	241.10		1.61		0.65	0.75		0.00	
<b>Total</b>	34.29	38.36	91.62	18.90	994.05	980.63	130.87	44.40	20.15	28.19	14.32	0.06	2395.84 CMSDAY
<b>Mean</b>	1.14	1.24	3.05	0.61	32.07	32.69	4.22	1.48	0.65	0.91	0.49	0.00	6.55 CMS
<b>Max</b>	2.96	6.78	6.39	1.75	241.10	254.70	10.84	1.48	0.65	1.34	1.07	0.06	254.70 CMS
<b>Min</b>	0.35	0.18	1.34	0.21	0.18	3.64	1.61	1.48	0.65	0.40	0.00	0.00	0.00 CMS
<b>Runoff</b>	2.96	3.31	7.92	1.63	85.89	84.73	11.31	3.84	1.74	2.44	1.24	0.01	207.00 MCM
<b>Momentary Peak</b>	384.40	CMS.	at 5.24 m. (MSL.)	at 09.00 Hours	on Aug 31, 2019								
<b>Runoff Yield</b>	3.52	Liters/Second/Square KM.			Momentary Peak Yield	206.33	Liters/Second/Square KM.						

## WATER YEAR : 2019

## NAN RIVER BASIN

## Nan River at Ban Saphan Khwae Yai Phatthana, Nakhon Sawan (N.85)

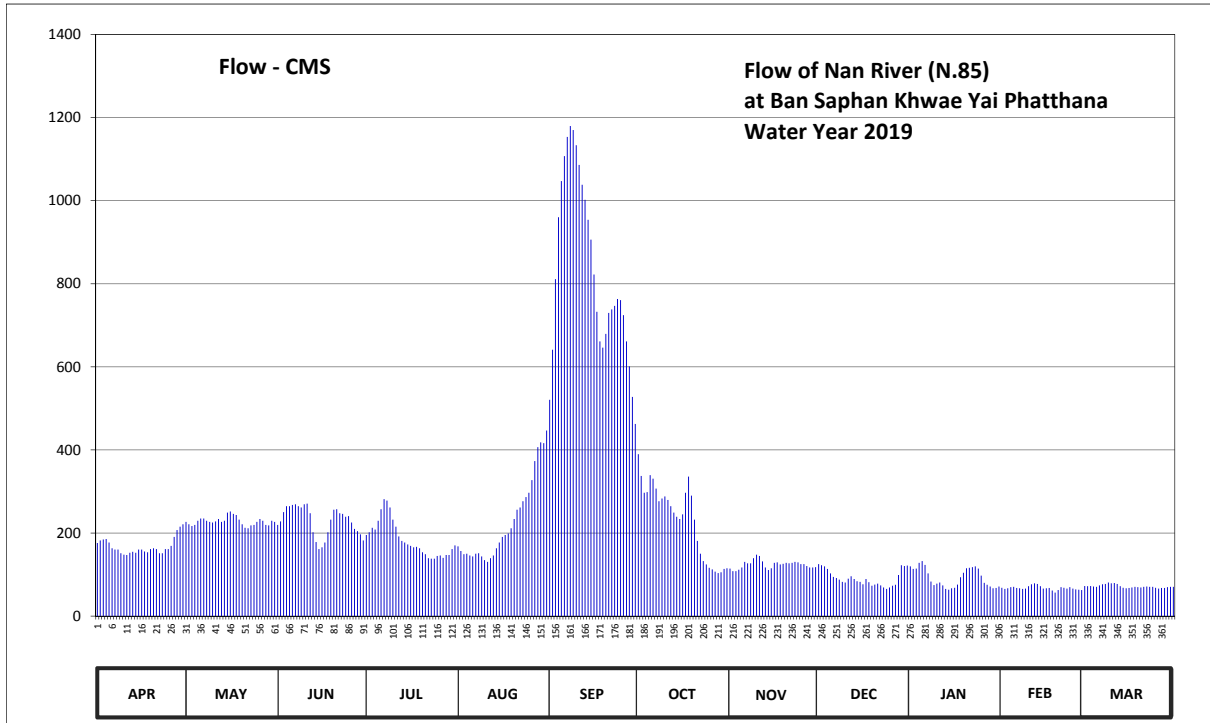
Lat 15 - 43 - 16 N Long 100 - 10 - 20 E

Location : on right bank at Khwae Yai Phatthana Bridge.

	<b>Ban</b>	-	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Nakhon Sawan
<b>Drainage Area</b>	58,663	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the gage observe's house				<b>Elevation</b>	+26.793 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2017 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2017 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2017 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.05	18.44	18.39	18.21	17.98	20.09	19.45	17.47	17.59	17.53	16.89	16.95	
2	18.10	18.40	18.45	18.26	17.88	20.58	19.15	17.40	17.56	17.46	16.85	16.94	
3	18.12	18.37	18.61	18.34	17.81	21.20	18.91	17.40	17.53	17.47	16.87	16.95	
4	18.13	18.39	18.71	18.31	17.82	21.71	18.92	17.44	17.46	17.62	16.91	16.93	
5	18.06	18.46	18.71	18.46	17.78	22.00	19.16	17.50	17.34	17.66	16.92	16.92	
6	17.94	18.50	18.73	18.66	17.76	22.20	19.11	17.64	17.24	17.57	16.88	16.97	
7	17.91	18.50	18.74	18.82	17.82	22.34	18.97	17.61	17.21	17.34	16.87	17.01	
8	17.91	18.46	18.71	18.80	17.83	22.42	18.79	17.61	17.16	17.10	16.85	17.02	
9	17.83	18.44	18.69	18.69	17.76	22.39	18.83	17.72	17.09	16.98	16.86	17.07	
10	17.80	18.43	18.74	18.48	17.68	22.28	18.86	17.80	17.07	17.03	16.94	17.04	
11	17.79	18.45	18.75	18.36	17.64	22.13	18.81	17.77	17.19	17.07	17.01	17.05	
12	17.84	18.49	18.59	18.18	17.72	21.97	18.71	17.65	17.26	16.97	17.04	17.02	
13	17.86	18.44	18.26	18.09	17.78	21.85	18.60	17.50	17.18	16.85	17.02	16.94	
14	17.84	18.46	18.07	18.06	17.94	21.69	18.53	17.43	17.11	16.82	16.94	16.89	
15	17.91	18.60	17.92	18.02	18.06	21.53	18.49	17.48	17.09	16.87	16.86	16.87	
16	17.91	18.62	17.96	17.99	18.17	21.24	18.57	17.62	17.01	16.89	16.87	16.88	
17	17.87	18.58	18.06	17.96	18.21	20.92	18.91	17.63	17.18	17.00	16.88	16.90	
18	17.85	18.56	18.26	17.97	18.24	20.66	19.14	17.58	17.08	17.23	16.79	16.92	
19	17.92	18.48	18.48	17.94	18.33	20.60	18.87	17.60	16.96	17.36	16.71	16.91	
20	17.94	18.40	18.65	17.85	18.49	20.73	18.48	17.62	17.00	17.48	16.81	16.90	
21	17.92	18.34	18.66	17.81	18.65	20.91	18.09	17.61	17.03	17.49	16.91	16.92	
22	17.83	18.33	18.59	17.72	18.69	20.94	17.82	17.62	16.97	17.51	16.89	16.93	
23	17.83	18.38	18.58	17.71	18.79	20.97	17.66	17.64	16.90	17.53	16.86	16.92	
24	17.92	18.39	18.53	17.71	18.85	21.03	17.58	17.63	16.85	17.47	16.91	16.92	
25	17.92	18.44	18.54	17.77	18.91	21.02	17.49	17.59	16.90	17.28	16.86	16.89	
26	17.99	18.49	18.43	17.78	19.09	20.89	17.45	17.59	16.96	17.06	16.83	16.86	
27	18.17	18.46	18.32	17.73	19.36	20.66	17.39	17.54	16.99	16.99	16.82	16.88	
28	18.30	18.39	18.28	17.79	19.54	20.42	17.35	17.50	17.30	16.93	16.81	16.88	
29	18.36	18.38	18.22	17.79	19.60	20.12	17.37	17.50	17.56	16.87	16.84	16.91	
30	18.40	18.46	18.10	17.92	19.59	19.83	17.46	17.51	17.54	16.88	16.88	16.92	
31		18.44		18.00	19.75		17.48		17.55	16.93		16.92	
Mean	17.97	18.45	18.46	18.10	18.37	21.24	18.40	17.57	17.19	17.20	16.88	16.94	
Max	18.40	18.62	18.75	18.82	19.75	22.42	19.45	17.80	17.59	17.66	17.04	17.07	22.42
Min	17.79	18.33	17.92	17.71	17.64	19.83	17.35	17.40	16.85	16.82	16.71	16.86	16.71
Annual Max Momentary Gage Height	22.44		m. (MSL.) ,			at 17.00 Hours ,	on Sep 8 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	8.23	m. (MSL.)						
Left Bank Elevation		26.79	m. (MSL.) ,										
Right Bank Elevation		26.70	m. (MSL.) ,		Drainage Are	58,663	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	176.00	226.60	219.60	195.30	167.80	520.70	389.50	114.30	125.10	119.70	68.30	72.50		
2	182.00	221.00	228.00	201.80	156.80	641.00	337.50	108.00	122.40	113.40	65.50	71.80		
3	184.40	216.80	250.40	212.60	149.10	811.00	296.70	108.00	119.70	114.30	66.90	72.50		
4	185.60	219.60	264.50	208.40	150.20	960.00	298.40	111.60	113.40	128.20	69.70	71.10		
5	177.20	229.40	264.50	229.40	145.80	1047.00	339.20	117.00	102.60	132.60	70.40	70.40		
6	163.40	235.00	267.50	257.40	143.60	1107.00	330.70	130.40	94.20	123.30	67.60	73.90		
7	160.10	235.00	269.00	281.40	150.20	1153.20	306.90	127.10	91.80	102.60	66.90	76.70		
8	160.10	229.40	264.50	278.00	151.30	1179.60	276.50	127.10	87.80	83.00	65.50	77.40		
9	151.30	226.60	261.60	261.60	143.60	1169.70	283.10	139.20	82.30	74.60	66.20	80.90		
10	148.00	225.20	269.00	232.20	134.80	1133.40	288.20	148.00	80.90	78.10	71.80	78.80		
11	146.90	228.00	270.50	215.40	130.40	1086.00	279.70	144.70	90.20	80.90	76.70	79.50		
12	152.40	233.60	247.60	191.60	139.20	1038.00	264.50	131.50	95.80	73.90	78.80	77.40		
13	154.60	226.60	201.80	180.80	145.80	1002.00	249.00	117.00	89.40	65.50	77.40	71.80		
14	152.40	229.40	178.40	177.20	163.40	954.00	239.20	110.70	83.80	63.40	71.80	68.30		
15	160.10	249.00	161.20	172.40	177.20	906.00	233.60	115.20	82.30	66.90	66.20	66.90		
16	160.10	251.80	165.60	168.90	190.40	822.20	244.80	128.20	76.70	68.30	66.90	67.60		
17	155.70	246.20	177.20	165.60	195.30	732.60	296.70	129.30	89.40	76.00	67.60	69.00		
18	153.50	243.40	201.80	166.70	199.20	661.00	335.80	124.20	81.60	93.40	61.40	70.40		
19	161.20	232.20	232.20	163.40	211.20	646.00	289.90	126.00	73.20	104.40	56.60	69.70		
20	163.40	221.00	256.00	153.50	233.60	679.40	232.20	128.20	76.00	115.20	62.70	69.00		
21	161.20	212.60	257.40	149.10	256.00	729.80	180.80	127.10	78.10	116.10	69.70	70.40		
22	151.30	211.20	247.60	139.20	261.60	738.20	150.20	128.20	73.90	117.90	68.30	71.10		
23	151.30	218.20	246.20	138.10	276.50	746.60	132.60	130.40	69.00	119.70	66.20	70.40		
24	161.20	219.60	239.20	138.10	286.50	763.40	124.20	129.30	65.50	114.30	69.70	70.40		
25	161.20	226.60	240.60	144.70	296.70	760.60	116.10	125.10	69.00	97.40	66.20	68.30		
26	168.90	233.60	225.20	145.80	327.30	724.20	112.50	125.10	73.20	80.20	64.10	66.20		
27	190.40	229.40	209.80	140.30	373.20	661.00	107.10	120.60	75.30	75.30	63.40	67.60		
28	207.00	219.60	204.40	146.90	406.60	601.00	103.50	117.00	99.00	71.10	62.70	67.60		
29	215.40	218.20	196.60	146.90	418.00	527.60	105.30	117.00	122.40	66.90	64.80	69.70		
30	221.00	229.40	182.00	161.20	416.10	462.30	113.40	117.90	120.60	67.60	70.40	70.40		
31		226.60		170.00	446.50		115.20		121.50	71.10	70.40	70.40		
Total	5037.30	7070.80	6899.90	5733.90	7043.90	24964.50	7173.00	3723.40	2826.10	2875.30	1960.00	2218.10	77526.20	CMSDAY
Mean	167.91	228.09	230.00	184.96	227.22	832.15	231.39	124.11	91.16	92.75	67.59	71.55	211.82	CMS
Max	221.00	251.80	270.50	281.40	446.50	1179.60	389.50	148.00	125.10	132.60	78.80	80.90	1179.60	CMS
Min	146.90	211.20	161.20	138.10	130.40	462.30	103.50	108.00	65.50	63.40	56.60	66.20	56.60	CMS
Runoff	435.22	610.92	596.15	495.41	608.59	2156.93	619.75	321.70	244.18	248.43	169.34	191.64	6698.26	MCM
Momentary Peak		1186.20	CMS. at 22.44 m. (MSL.)											at 17.00 Hours , on Sep 8 , 2019
Runoff Yield		3.62	Liters/Second/Square KM.											Momentary Peak Yield 20.22 Liters/Second/Square KM.



**WATER YEAR : 2019****CHAO PHRAYA RIVER BASIN****Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C.2)**

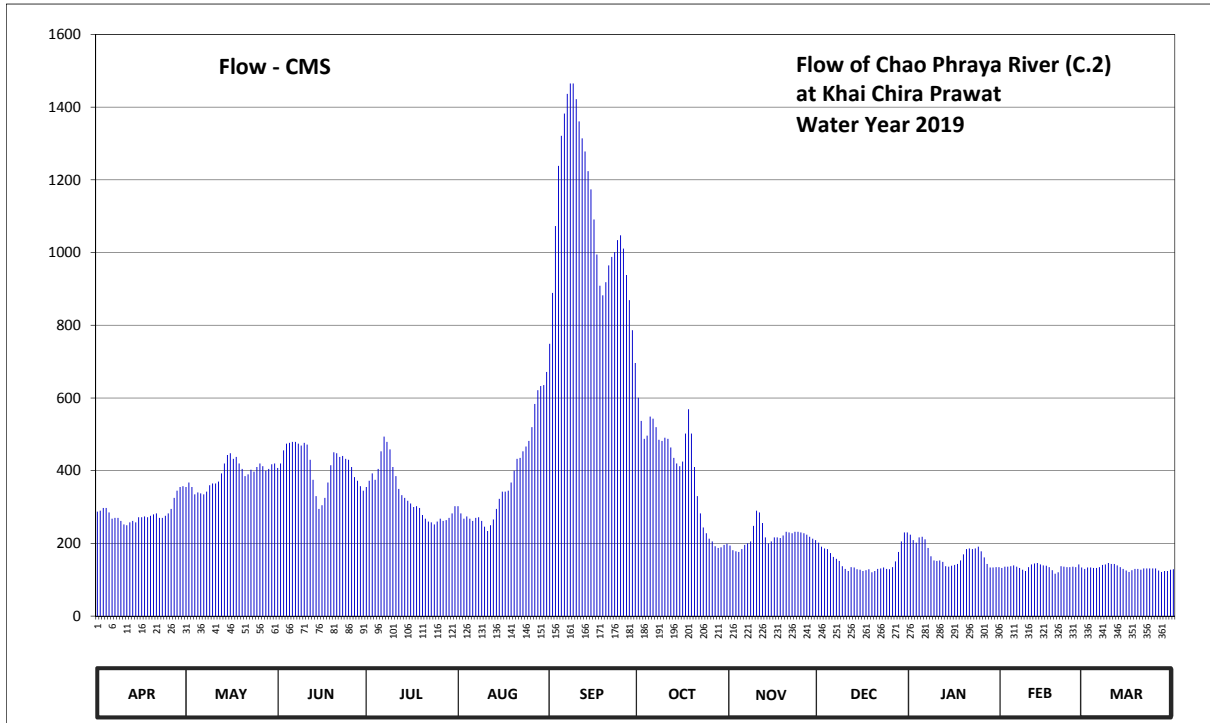
Lat 15 - 40 - 15 N Long 100 - 06 - 49 E

**Location : on left bank at Ban Phai Lom**

	<b>Ban</b> Phai Lom	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Sawan
<b>Drainage Area</b>	109,973 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 20.00 meters west of the gage site	<b>Elevation</b>	+25.628 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1914 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1956 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1956 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 36 discharge measurements made in 2019.		

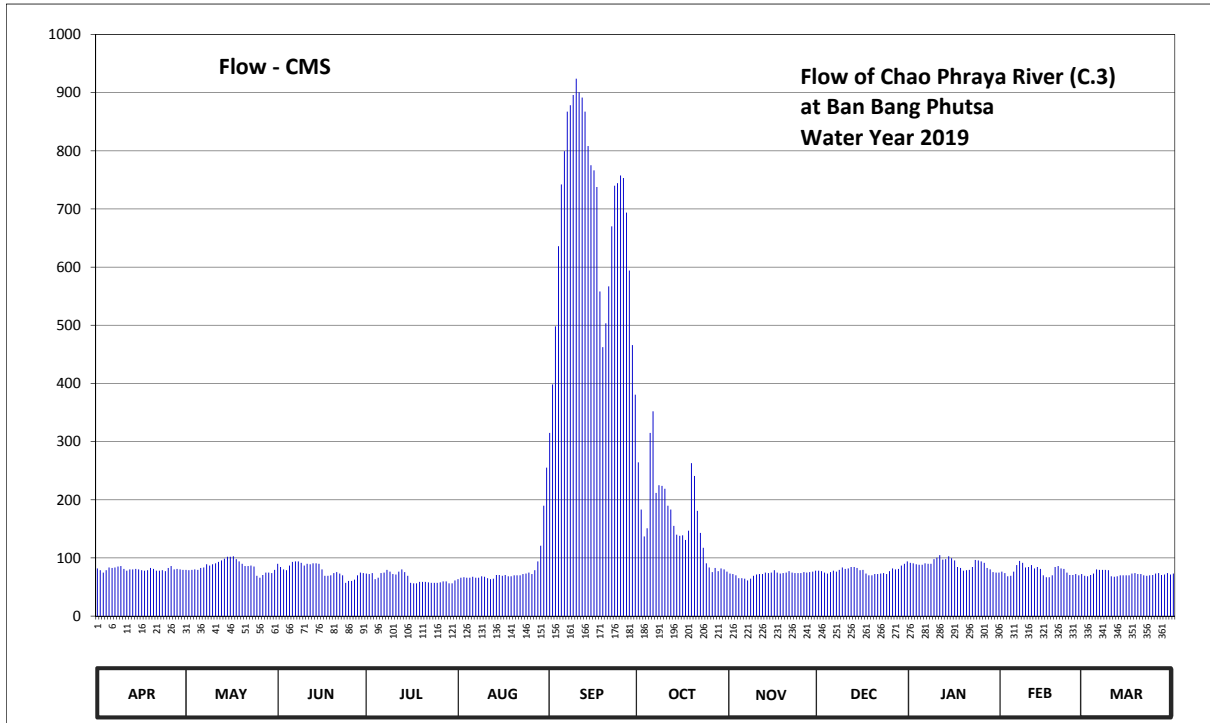
**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.83	18.10	18.31	18.10	17.89	19.50	19.01	17.35	17.40	17.52	16.92	16.90	
2	17.84	18.15	18.36	18.17	17.81	19.93	18.79	17.27	17.33	17.44	16.95	16.93	
3	17.87	18.10	18.50	18.25	17.74	20.48	18.62	17.25	17.30	17.40	16.95	16.93	
4	17.87	18.02	18.57	18.18	17.77	20.94	18.65	17.24	17.29	17.48	16.96	16.92	
5	17.82	18.04	18.58	18.30	17.74	21.17	18.83	17.29	17.22	17.49	16.98	16.92	
6	17.74	18.03	18.59	18.49	17.71	21.34	18.81	17.36	17.15	17.45	16.95	16.94	
7	17.75	18.02	18.59	18.64	17.75	21.49	18.73	17.39	17.11	17.31	16.92	16.99	
8	17.75	18.05	18.57	18.59	17.76	21.57	18.61	17.42	17.07	17.16	16.88	17.00	
9	17.71	18.12	18.55	18.51	17.71	21.57	18.60	17.64	16.96	17.08	16.85	17.03	
10	17.66	18.14	18.58	18.32	17.63	21.45	18.63	17.84	16.90	17.07	16.94	17.01	
11	17.65	18.14	18.56	18.22	17.57	21.28	18.62	17.82	16.85	17.08	17.00	17.01	
12	17.69	18.16	18.40	18.08	17.65	21.15	18.53	17.68	16.94	17.05	17.02	16.98	
13	17.71	18.25	18.18	18.01	17.73	21.05	18.42	17.48	16.93	16.96	17.03	16.94	
14	17.69	18.36	18.00	17.98	17.86	20.90	18.36	17.39	16.89	16.95	17.00	16.90	
15	17.76	18.45	17.86	17.95	17.97	20.76	18.33	17.42	16.88	16.97	16.98	16.86	
16	17.76	18.47	17.90	17.92	18.05	20.53	18.38	17.48	16.85	16.99	16.97	16.83	
17	17.77	18.41	17.98	17.88	18.05	20.25	18.67	17.48	16.87	17.01	16.94	16.87	
18	17.76	18.43	18.15	17.89	18.06	19.99	18.90	17.47	16.89	17.08	16.87	16.90	
19	17.78	18.36	18.34	17.87	18.15	19.91	18.67	17.51	16.82	17.20	16.79	16.90	
20	17.80	18.30	18.48	17.79	18.28	20.02	18.32	17.56	16.85	17.29	16.82	16.88	
21	17.81	18.22	18.47	17.74	18.41	20.16	18.00	17.55	16.90	17.30	16.96	16.91	
22	17.75	18.24	18.43	17.70	18.42	20.23	17.81	17.54	16.91	17.29	16.95	16.91	
23	17.75	18.29	18.44	17.69	18.49	20.27	17.62	17.56	16.93	17.30	16.94	16.91	
24	17.78	18.27	18.41	17.66	18.54	20.37	17.54	17.56	16.90	17.33	16.94	16.91	
25	17.81	18.32	18.40	17.70	18.60	20.41	17.46	17.55	16.89	17.25	16.95	16.91	
26	17.86	18.36	18.32	17.74	18.73	20.30	17.42	17.54	16.94	17.14	16.94	16.86	
27	17.98	18.33	18.21	17.71	18.95	20.08	17.34	17.52	17.06	17.01	17.00	16.83	
28	18.06	18.28	18.17	17.72	19.08	19.87	17.31	17.49	17.24	16.93	16.93	16.85	
29	18.10	18.30	18.11	17.75	19.12	19.62	17.32	17.46	17.42	16.93	16.93	16.85	
30	18.11	18.35	18.06	17.81	19.13	19.33	17.36	17.44	17.55	16.94	16.94	16.88	
31		18.36		17.89	19.25		17.38		17.55	16.94		16.89	
Mean	17.81	18.24	18.34	18.01	18.18	20.53	18.23	17.49	17.06	17.17	16.94	16.91	
Max	18.11	18.47	18.59	18.64	19.25	21.57	19.01	17.84	17.55	17.52	17.03	17.03	21.57
Min	17.65	18.02	17.86	17.66	17.57	19.33	17.31	17.24	16.82	16.93	16.79	16.83	16.79
Annual Max Momentary Gage Height	21.60		m. (MSL.) ,				at 02.00 Hours , on Sep 9 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 13.29	m. (MSL.)					
Left Bank Elevation		25.60		m. (MSL.) ,									
Right Bank Elevation		26.46		m. (MSL.) ,			Drainage Area	109,973	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	287.50	355.00	407.50	355.00	302.50	749.00	600.90	194.00	202.00	224.00	132.40	130.00		
2	290.00	367.50	420.00	372.50	282.50	888.90	537.10	181.20	190.80	209.20	136.00	133.60		
3	297.50	355.00	456.00	392.50	268.00	1072.80	487.80	178.00	186.00	202.00	136.00	133.60		
4	297.50	335.00	474.20	375.00	274.00	1238.40	496.50	176.40	184.40	216.40	137.20	132.40		
5	285.00	340.00	476.80	405.00	268.00	1321.20	548.70	184.40	173.20	218.20	139.60	132.40		
6	268.00	337.50	479.40	453.40	262.00	1382.40	542.90	195.60	163.00	211.00	136.00	134.80		
7	270.00	335.00	479.40	493.60	270.00	1436.40	519.70	200.40	157.40	187.60	132.40	140.80		
8	270.00	342.50	474.20	479.40	272.00	1465.20	484.90	205.60	151.80	164.40	127.60	142.00		
9	262.00	360.00	469.00	458.60	262.00	1465.20	482.00	248.00	137.20	153.20	124.00	146.20		
10	252.00	365.00	476.80	410.00	246.00	1422.00	490.70	290.00	130.00	151.80	134.80	143.40		
11	250.00	365.00	471.60	385.00	234.00	1360.80	487.80	285.00	124.00	153.20	142.00	143.40		
12	258.00	370.00	430.00	350.00	250.00	1314.00	463.80	256.00	134.80	149.00	144.80	139.60		
13	262.00	392.50	375.00	332.50	266.00	1278.00	435.20	216.40	133.60	137.20	146.20	134.80		
14	258.00	420.00	330.00	325.00	295.00	1224.00	420.00	200.40	128.80	136.00	142.00	130.00		
15	272.00	443.00	295.00	317.50	322.50	1173.60	412.50	205.60	127.60	138.40	139.60	125.20		
16	272.00	448.20	305.00	310.00	342.50	1090.80	425.00	216.40	124.00	140.80	138.40	121.60		
17	274.00	432.60	325.00	300.00	342.50	994.50	502.30	216.40	126.40	143.40	134.80	126.40		
18	272.00	437.80	367.50	302.50	345.00	908.70	569.00	214.60	128.80	153.20	126.40	130.00		
19	276.00	420.00	415.00	297.50	367.50	882.30	502.30	222.00	120.40	170.00	116.80	130.00		
20	280.00	405.00	450.80	278.00	400.00	918.60	410.00	232.00	124.00	184.40	120.40	127.60		
21	282.50	385.00	448.20	268.00	432.60	964.80	330.00	230.00	130.00	186.00	137.20	131.20		
22	270.00	390.00	437.80	260.00	435.20	987.90	282.50	228.00	131.20	184.40	136.00	131.20		
23	270.00	402.50	440.40	258.00	453.40	1001.10	244.00	232.00	133.60	186.00	134.80	131.20		
24	276.00	397.50	432.60	252.00	466.40	1034.10	228.00	232.00	130.00	190.80	134.80	131.20		
25	282.50	410.00	430.00	260.00	482.00	1047.60	212.80	230.00	128.80	178.00	136.00	131.20		
26	295.00	420.00	410.00	268.00	519.70	1011.00	205.60	228.00	134.80	161.60	134.80	125.20		
27	325.00	412.50	382.50	262.00	583.50	938.40	192.40	224.00	150.40	143.40	142.00	121.60		
28	345.00	400.00	372.50	264.00	621.20	869.10	187.60	218.20	176.40	133.60	133.60	124.00		
29	355.00	405.00	357.50	270.00	632.80	786.60	189.20	212.80	205.60	133.60	133.60	124.00		
30	357.50	417.50	345.00	282.50	635.70	696.30	195.60	209.20	230.00	134.80		127.60		
31		420.00		302.50	671.50		198.80		230.00	134.80		128.80		
Total	8512.00	12086.60	12434.70	10340.00	11806.00	32923.70	12285.60	6562.60	4729.00	5210.40	3910.20	4085.00	124885.80	CMSDAY
Mean	283.73	389.89	414.49	333.55	380.84	1097.46	396.31	218.75	152.55	168.08	134.83	131.77	341.22	CMS
Max	357.50	448.20	479.40	493.60	671.50	1465.20	600.90	290.00	230.00	224.00	146.20	146.20	1465.20	CMS
Min	250.00	335.00	295.00	252.00	234.00	696.30	187.60	176.40	120.40	133.60	116.80	121.60	116.80	CMS
Runoff	735.44	1044.28	1074.36	893.38	1020.04	2844.61	1061.48	567.01	408.59	450.18	337.84	352.94	10790.13	MCM
Momentary Peak		1476.00	CMS. at 21.60 m. (MSL.)											at 02.00 Hours , on Sep 9 , 2019
Runoff Yield		3.11	Liters/Second/Square KM.											Momentary Peak Yield 13.42 Liters/Second/Square KM.





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.00	79.60	90.00	73.20	63.60	315.00	264.30	73.20	78.00	91.60	76.40	69.20	
2	78.80	78.80	84.40	72.40	66.00	398.20	183.30	72.40	77.20	90.80	74.00	68.40	
3	74.80	79.60	80.40	74.00	66.80	498.20	137.00	70.00	74.80	89.20	68.40	70.80	
4	78.80	80.40	78.80	63.60	66.00	636.00	151.00	65.20	73.20	88.40	69.20	73.20	
5	83.60	79.60	86.80	66.00	66.00	742.00	315.00	65.20	75.60	88.40	76.40	80.40	
6	82.80	82.80	93.20	74.00	67.60	799.20	352.20	64.40	78.00	90.80	87.60	79.60	
7	83.60	83.60	94.00	74.80	66.00	867.40	211.90	61.20	76.40	90.00	94.80	79.60	
8	85.20	89.20	94.00	79.60	66.00	878.40	225.00	64.40	79.60	90.00	91.60	79.60	
9	86.00	86.80	91.60	76.40	68.40	896.00	223.80	69.20	83.60	98.00	83.60	78.80	
10	81.20	89.20	86.80	72.40	67.60	923.80	219.00	71.60	81.20	100.40	84.40	68.40	
11	78.00	90.80	90.00	71.60	65.20	900.60	189.90	72.40	82.00	104.70	87.60	67.60	
12	80.40	93.20	89.20	76.40	63.60	891.60	183.30	72.40	84.40	97.20	82.00	68.40	
13	80.40	95.60	90.80	80.40	64.40	867.40	155.00	74.80	84.40	98.00	84.40	70.00	
14	81.20	98.80	90.80	75.60	70.80	808.00	140.00	74.00	82.80	102.90	81.20	70.00	
15	80.40	102.00	90.00	69.20	70.80	775.00	138.00	74.80	78.80	99.60	70.00	70.00	
16	78.80	102.00	80.40	57.20	69.20	766.20	139.00	78.80	79.60	95.60	66.80	70.00	
17	78.00	102.90	69.20	56.40	70.80	737.60	131.00	74.80	73.20	84.40	66.80	73.20	
18	78.80	98.00	69.20	56.40	68.40	558.00	147.00	73.20	70.00	82.80	70.00	74.00	
19	82.80	94.00	70.00	58.80	68.40	462.50	263.00	74.00	70.00	78.00	84.40	72.40	
20	81.20	90.00	74.00	58.80	70.00	503.30	240.90	74.80	72.40	78.80	86.00	72.40	
21	78.00	86.00	75.60	58.80	70.00	567.00	181.10	77.20	72.40	79.60	82.00	70.00	
22	78.00	86.00	73.20	58.00	70.00	670.00	143.00	74.80	73.20	84.40	81.20	69.20	
23	78.80	86.80	70.00	57.20	72.40	739.80	117.30	74.00	74.00	96.40	74.80	70.00	
24	77.20	85.20	57.20	57.20	73.20	744.20	90.80	74.00	72.40	95.60	70.80	70.80	
25	82.80	69.20	60.40	57.20	74.80	757.40	83.60	74.00	77.20	94.00	70.80	73.20	
26	86.00	66.00	60.40	58.00	72.40	753.00	75.60	75.60	82.00	91.60	72.40	74.00	
27	80.40	70.80	62.80	59.60	78.80	693.60	82.80	74.80	80.40	82.80	70.00	70.80	
28	81.20	74.80	70.00	59.60	94.00	594.00	77.20	75.60	81.20	80.40	72.40	71.60	
29	80.40	74.80	74.80	56.40	121.00	465.90	82.00	76.40	86.80	75.60	73.20	74.00	
30	79.60	74.00	74.00	56.40	189.90	380.60	80.40	78.00	90.00	74.80		71.60	
31		79.60		61.20	255.20		76.40		94.00	74.80		73.20	
Total	2419.20	2650.10	2372.00	2026.80	2517.30	20589.90	5099.80	2175.20	2438.80	2769.60	2253.20	2244.40	49556.30 CMSDAY
Mean	80.64	85.49	79.07	65.38	81.20	686.33	164.51	72.51	78.67	89.34	77.70	72.40	135.40 CMS
Max	86.00	102.90	94.00	80.40	255.20	923.80	352.20	78.80	94.00	104.70	94.80	80.40	923.80 CMS
Min	74.80	66.00	57.20	56.40	63.60	315.00	75.60	61.20	70.00	74.80	66.80	67.60	56.40 CMS
Runoff	209.02	228.97	204.94	175.12	217.49	1778.97	440.62	187.94	210.71	239.29	194.68	193.92	4281.66 MCM
Momentary Peak		926.20 CMS.		at 7.33 m. (MSL.)		at 12.00 Hours ,		on Sep 10 ,					
Runoff Yield		1.14		Liters/Second/Square KM.		7.80		Liters/Second/Square KM.					

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

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

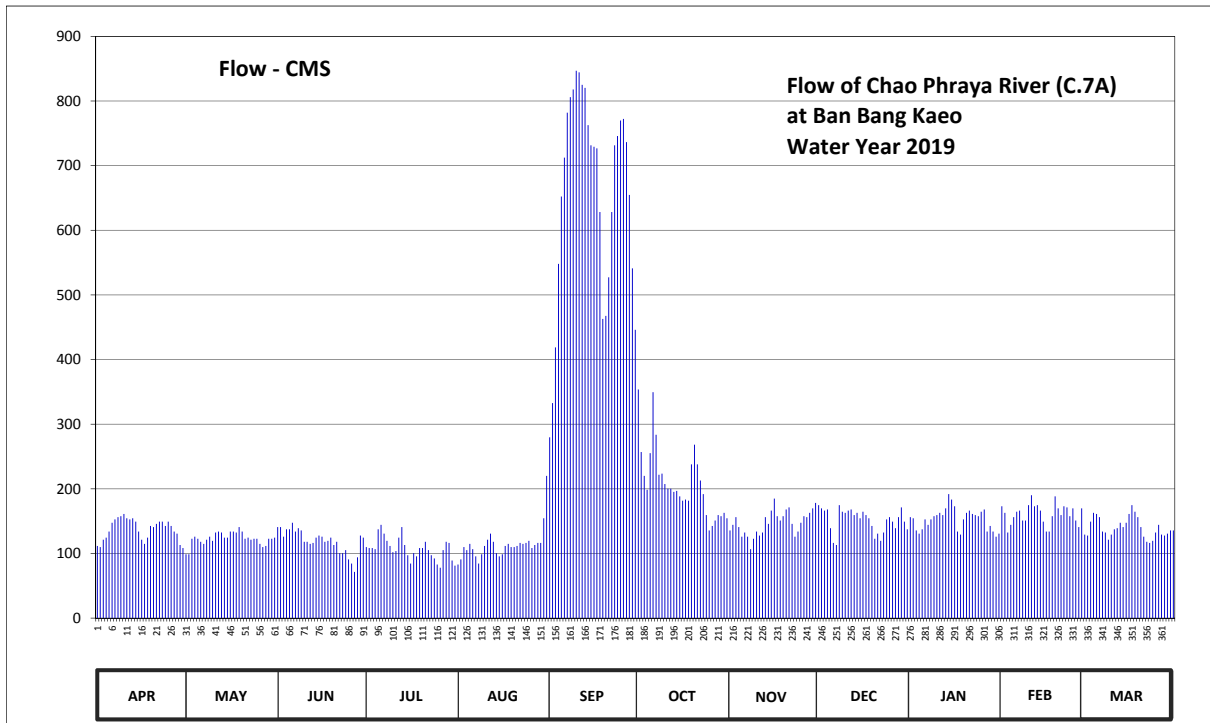
Lat 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaeo

	<b>Ban</b> Bang Keao	<b>Amphoe</b> Mueang	<b>Changwat</b> Ang Thong
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site	<b>Elevation</b>	+8.481 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.48	0.74	0.55	0.38	1.52	1.88	0.71	0.94	0.83	0.93	0.67	
2	0.55	0.48	0.74	0.54	0.43	1.78	1.40	0.76	0.91	0.82	0.87	0.66	
3	0.62	0.63	0.65	0.54	0.55	2.19	1.20	0.83	0.89	0.71	0.69	0.79	
4	0.64	0.65	0.72	0.53	0.52	2.77	1.08	0.74	0.90	0.68	0.76	0.87	
5	0.70	0.63	0.72	0.72	0.58	3.21	1.39	0.65	0.73	0.72	0.83	0.86	
6	0.78	0.60	0.78	0.76	0.53	3.46	1.86	0.69	0.59	0.81	0.88	0.83	
7	0.81	0.58	0.70	0.68	0.46	3.75	1.54	0.65	0.57	0.76	0.89	0.70	
8	0.83	0.62	0.73	0.61	0.39	3.85	1.21	0.53	0.94	0.81	0.80	0.69	
9	0.84	0.65	0.71	0.56	0.48	3.90	1.22	0.63	0.88	0.84	0.80	0.62	
10	0.86	0.61	0.60	0.50	0.56	4.02	1.13	0.70	0.87	0.85	0.94	0.67	
11	0.82	0.69	0.60	0.51	0.62	4.01	1.09	0.66	0.89	0.87	1.03	0.72	
12	0.81	0.70	0.58	0.64	0.68	3.93	1.09	0.69	0.90	0.85	0.93	0.73	
13	0.82	0.69	0.59	0.74	0.60	3.91	1.06	0.83	0.85	0.91	0.94	0.78	
14	0.79	0.64	0.64	0.57	0.49	3.67	1.07	0.77	0.87	1.04	0.89	0.74	
15	0.70	0.64	0.66	0.47	0.46	3.54	1.02	0.89	0.82	0.99	0.79	0.78	
16	0.62	0.70	0.65	0.39	0.48	3.53	0.98	1.00	0.88	0.93	0.70	0.86	
17	0.58	0.70	0.60	0.49	0.56	3.52	0.99	0.84	0.85	0.70	0.70	0.94	
18	0.64	0.69	0.61	0.46	0.58	3.11	0.98	0.80	0.82	0.67	0.84	0.88	
19	0.75	0.74	0.64	0.54	0.55	2.40	1.30	0.84	0.75	0.81	1.02	0.83	
20	0.74	0.70	0.57	0.54	0.55	2.42	1.46	0.90	0.63	0.87	0.91	0.74	
21	0.77	0.63	0.60	0.60	0.56	2.68	1.30	0.92	0.68	0.89	0.85	0.65	
22	0.79	0.64	0.49	0.52	0.59	3.11	1.16	0.77	0.61	0.86	0.93	0.60	
23	0.79	0.62	0.49	0.47	0.58	3.54	1.04	0.65	0.69	0.85	0.92	0.59	
24	0.75	0.63	0.52	0.44	0.59	3.60	0.85	0.70	0.81	0.84	0.84	0.61	
25	0.79	0.63	0.43	0.38	0.61	3.70	0.71	0.78	0.83	0.88	0.91	0.69	
26	0.75	0.58	0.39	0.35	0.54	3.71	0.75	0.84	0.79	0.90	0.80	0.76	
27	0.70	0.55	0.31	0.52	0.57	3.56	0.80	0.83	0.73	0.70	0.74	0.67	
28	0.68	0.56	0.45	0.60	0.59	3.22	0.85	0.87	0.83	0.75	0.91	0.66	
29	0.57	0.63	0.66	0.59	0.59	2.74	0.84	0.91	0.92	0.70	0.87	0.68	
30	0.54	0.63	0.64	0.42	0.82	2.32	0.87	0.96	0.79	0.65	0.69	0.71	
31		0.64		0.37	1.20		0.82		0.72	0.68		0.71	
Mean	0.72	0.63	0.61	0.54	0.57	3.22	1.13	0.78	0.80	0.81	0.86	0.73	
Max	0.86	0.74	0.78	0.76	1.20	4.02	1.88	1.00	0.94	1.04	1.03	0.94	4.02
Min	0.54	0.48	0.31	0.35	0.38	1.52	0.71	0.53	0.57	0.65	0.69	0.59	0.31
Annual Max Momentary Gage Height	4.09												at 02.00 Hours , on Sep 11 , 2019
Zero Gage at Bottom Elevation	0.00												River Bed -6.58 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, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	111.60	98.80	140.80	110.00	82.80	279.80	353.80	135.70	174.80	156.10	173.10	129.20		
2	110.00	98.80	140.80	108.40	90.80	332.80	257.00	144.20	169.70	154.40	162.90	127.60		
3	121.20	122.80	126.00	108.40	110.00	418.90	220.00	156.10	166.30	135.70	132.40	149.30		
4	124.40	126.00	137.40	106.80	105.20	548.10	198.60	140.80	168.00	130.80	144.20	162.90		
5	134.00	122.80	137.40	137.40	114.80	652.40	255.10	126.00	139.10	137.40	156.10	161.20		
6	147.60	118.00	147.60	144.20	106.80	712.40	349.60	132.40	116.40	152.70	164.60	156.10		
7	152.70	114.80	134.00	130.80	95.60	782.00	283.60	126.00	113.20	144.20	166.30	134.00		
8	156.10	121.20	139.10	119.60	84.40	806.00	221.80	106.80	174.80	152.70	151.00	132.40		
9	157.80	126.00	135.70	111.60	98.80	818.00	223.60	122.80	164.60	157.80	151.00	121.20		
10	161.20	119.60	118.00	102.00	111.60	846.80	207.40	134.00	162.90	159.50	174.80	129.20		
11	154.40	132.40	118.00	103.60	121.20	844.40	200.30	127.60	166.30	162.90	190.10	137.40		
12	152.70	134.00	114.80	124.40	130.80	825.20	200.30	132.40	168.00	159.50	173.10	139.10		
13	154.40	132.40	116.40	140.80	118.00	820.40	195.20	156.10	159.50	169.70	174.80	147.60		
14	149.30	124.40	124.40	113.20	100.40	762.80	196.90	145.90	162.90	191.80	166.30	140.80		
15	134.00	124.40	127.60	97.20	95.60	731.60	188.40	166.30	154.40	183.30	149.30	147.60		
16	121.20	134.00	126.00	84.40	98.80	729.20	181.60	185.00	164.60	173.10	134.00	161.20		
17	114.80	134.00	118.00	100.40	111.60	726.80	183.30	157.80	159.50	134.00	134.00	174.80		
18	124.40	132.40	119.60	95.60	114.80	628.40	181.60	151.00	154.40	129.20	157.80	164.60		
19	142.50	140.80	124.40	108.40	110.00	463.00	238.00	157.80	142.50	152.70	188.40	156.10		
20	140.80	134.00	113.20	108.40	110.00	467.60	268.40	168.00	122.80	162.90	169.70	140.80		
21	145.90	122.80	118.00	118.00	111.60	527.40	238.00	171.40	130.80	166.30	159.50	126.00		
22	149.30	124.40	100.40	105.20	116.40	628.40	212.80	145.90	119.60	161.20	173.10	118.00		
23	149.30	121.20	100.40	97.20	114.80	731.60	191.80	126.00	132.40	159.50	171.40	116.40		
24	142.50	122.80	105.20	92.40	116.40	746.00	159.50	134.00	152.70	157.80	157.80	119.60		
25	149.30	122.80	90.80	82.80	119.60	770.00	135.70	147.60	156.10	164.60	169.70	132.40		
26	142.50	114.80	84.40	78.00	108.40	772.40	142.50	157.80	149.30	168.00	151.00	144.20		
27	134.00	110.00	71.60	105.20	113.20	736.40	151.00	156.10	139.10	134.00	140.80	129.20		
28	130.80	111.60	94.00	118.00	116.40	654.80	159.50	162.90	156.10	142.50	169.70	127.60		
29	113.20	122.80	127.60	116.40	116.40	541.20	157.80	169.70	171.40	134.00	162.90	130.80		
30	108.40	122.80	124.40	89.20	154.40	446.20	162.90	178.20	149.30	126.00		135.70		
31		124.40		81.20	220.00		154.40		137.40	130.80		135.70		
<b>Total</b>	<b>4130.30</b>	<b>3812.00</b>	<b>3576.00</b>	<b>3339.20</b>	<b>3519.60</b>	<b>19751.00</b>	<b>6470.40</b>	<b>4422.30</b>	<b>4698.90</b>	<b>4745.10</b>	<b>4669.80</b>	<b>4328.70</b>	<b>67463.30</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>137.68</b>	<b>122.97</b>	<b>119.20</b>	<b>107.72</b>	<b>113.54</b>	<b>658.37</b>	<b>208.72</b>	<b>147.41</b>	<b>151.58</b>	<b>153.07</b>	<b>161.03</b>	<b>139.64</b>	<b>184.33</b>	<b>CMS</b>
<b>Max</b>	<b>161.20</b>	<b>140.80</b>	<b>147.60</b>	<b>144.20</b>	<b>220.00</b>	<b>846.80</b>	<b>353.80</b>	<b>185.00</b>	<b>174.80</b>	<b>191.80</b>	<b>190.10</b>	<b>174.80</b>	<b>846.80</b>	<b>CMS</b>
<b>Min</b>	<b>108.40</b>	<b>98.80</b>	<b>71.60</b>	<b>78.00</b>	<b>82.80</b>	<b>279.80</b>	<b>135.70</b>	<b>106.80</b>	<b>113.20</b>	<b>126.00</b>	<b>132.40</b>	<b>116.40</b>	<b>71.60</b>	<b>CMS</b>
<b>Runoff</b>	<b>356.86</b>	<b>329.36</b>	<b>308.97</b>	<b>288.51</b>	<b>304.09</b>	<b>1706.49</b>	<b>559.04</b>	<b>382.09</b>	<b>405.98</b>	<b>409.98</b>	<b>403.47</b>	<b>374</b>	<b>5828.83</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>863.60 CMS. at 4.09 m. (MSL.) at 02.00 Hours , on Sep 11 , 2019</b>													
<b>Runoff Yield</b>	<b>***** Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>***** Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

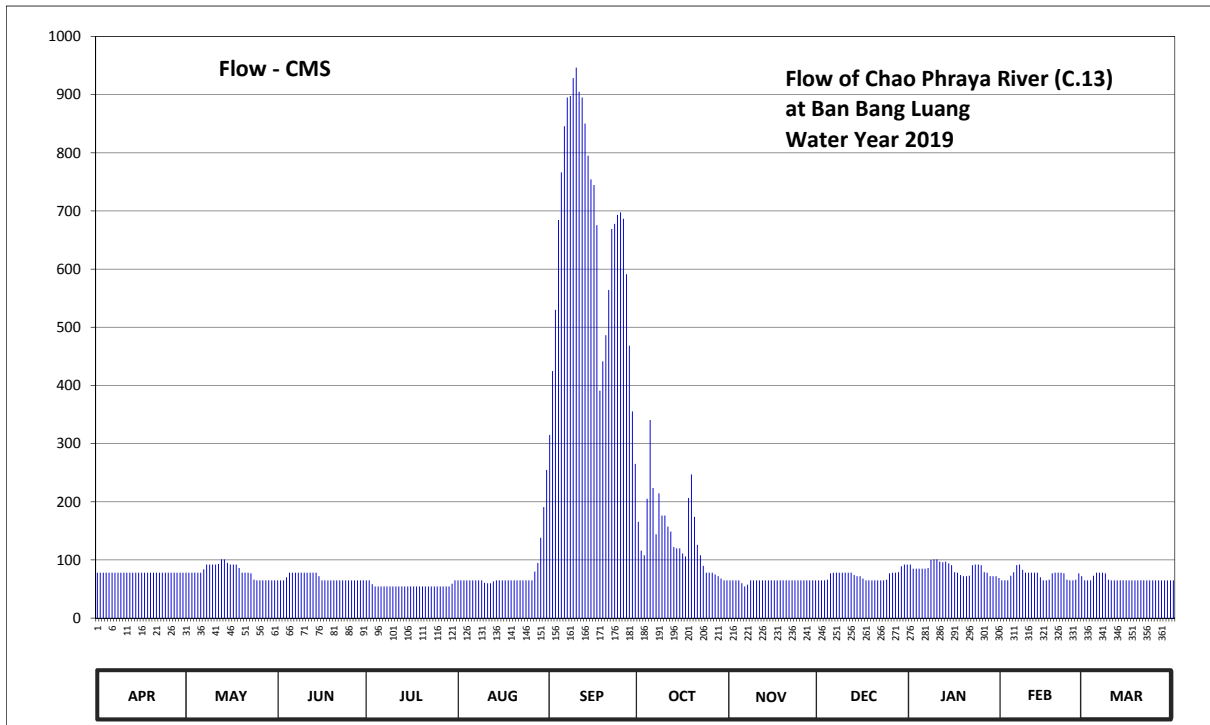
Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

	<b>Ban</b>	<b>Bang Luang</b>	<b>Amphoe</b>	<b>Sanphaya</b>	<b>Changwat</b>	<b>Chai Nat</b>
<b>Drainage Area</b>	117,187 sq.km.					
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	B.M.2 - on right bank about 400 meters from the B.M.1				<b>Elevation</b>	+18.355 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1947 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 55 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.64	5.64	5.51	5.51	5.51	7.62	6.48	5.51	5.51	5.78	5.51	5.51	
2	5.64	5.64	5.51	5.51	5.51	8.33	6.02	5.51	5.51	5.71	5.51	5.51	
3	5.64	5.64	5.51	5.43	5.51	8.91	5.94	5.51	5.51	5.71	5.51	5.51	
4	5.64	5.64	5.56	5.38	5.51	9.67	6.81	5.51	5.52	5.71	5.59	5.59	
5	5.64	5.64	5.64	5.38	5.51	10.03	7.79	5.45	5.63	5.71	5.65	5.64	
6	5.64	5.64	5.64	5.38	5.51	10.36	6.95	5.38	5.64	5.71	5.77	5.64	
7	5.64	5.70	5.64	5.38	5.51	10.56	6.30	5.42	5.64	5.72	5.78	5.64	
8	5.64	5.78	5.64	5.38	5.51	10.57	6.88	5.51	5.64	5.86	5.69	5.63	
9	5.64	5.78	5.64	5.38	5.51	10.69	6.57	5.51	5.64	5.87	5.64	5.52	
10	5.64	5.78	5.64	5.38	5.46	10.76	6.57	5.51	5.64	5.87	5.64	5.51	
11	5.64	5.78	5.64	5.38	5.45	10.60	6.41	5.51	5.64	5.83	5.64	5.51	
12	5.64	5.79	5.64	5.38	5.45	10.56	6.34	5.51	5.64	5.82	5.64	5.51	
13	5.64	5.87	5.64	5.38	5.49	10.38	6.08	5.51	5.60	5.83	5.64	5.51	
14	5.64	5.87	5.64	5.38	5.51	10.15	6.06	5.51	5.58	5.80	5.56	5.51	
15	5.64	5.81	5.58	5.38	5.51	9.98	6.06	5.51	5.58	5.77	5.51	5.51	
16	5.64	5.78	5.51	5.38	5.51	9.94	5.97	5.51	5.54	5.65	5.51	5.51	
17	5.64	5.78	5.51	5.38	5.51	9.63	5.92	5.51	5.51	5.64	5.52	5.51	
18	5.64	5.78	5.51	5.38	5.51	8.12	6.82	5.51	5.51	5.60	5.63	5.51	
19	5.64	5.72	5.51	5.38	5.51	8.43	7.13	5.51	5.51	5.58	5.64	5.51	
20	5.64	5.64	5.51	5.38	5.51	8.68	6.55	5.51	5.51	5.58	5.64	5.51	
21	5.64	5.64	5.51	5.38	5.51	9.09	6.12	5.51	5.51	5.59	5.64	5.51	
22	5.64	5.64	5.51	5.38	5.51	9.60	5.94	5.51	5.51	5.77	5.63	5.51	
23	5.64	5.63	5.51	5.38	5.51	9.64	5.76	5.51	5.51	5.78	5.52	5.51	
24	5.64	5.52	5.51	5.38	5.51	9.71	5.64	5.51	5.52	5.78	5.51	5.51	
25	5.64	5.51	5.51	5.38	5.51	9.73	5.64	5.51	5.63	5.77	5.51	5.51	
26	5.64	5.51	5.51	5.38	5.51	9.68	5.64	5.51	5.64	5.65	5.52	5.51	
27	5.64	5.51	5.51	5.38	5.66	9.23	5.61	5.51	5.64	5.64	5.63	5.51	
28	5.64	5.51	5.51	5.38	5.81	8.58	5.58	5.51	5.65	5.58	5.58	5.51	
29	5.64	5.51	5.51	5.38	6.24	7.89	5.54	5.51	5.75	5.58	5.58	5.51	
30	5.64	5.51	5.51	5.44	6.69	7.27	5.51	5.51	5.78	5.58	5.58	5.51	
31		5.51		5.51	7.19		5.51		5.78	5.55		5.51	
Mean	5.64	5.67	5.56	5.40	5.63	9.48	6.20	5.50	5.59	5.71	5.60	5.53	
Max	5.64	5.87	5.64	5.51	7.19	10.76	7.79	5.51	5.78	5.87	5.78	5.64	10.76
Min	5.64	5.51	5.51	5.38	5.45	7.27	5.51	5.38	5.51	5.55	5.51	5.51	5.38
Annual Max Momentary Gage Height	10.78												at 12.00 Hours , on Sep 9 , 2019
Zero Gage at Bottom Elevation	0.00						1.48						m. (MSL.)
Left Bank Elevation		17.52											m. (MSL.)
Right Bank Elevation		18.36											m. (MSL.)
Drainage Area						117,187							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	78.00	78.00	65.00	65.00	65.00	315.00	165.60	65.00	65.00	92.00	65.00	65.00		
2	78.00	78.00	65.00	65.00	65.00	424.80	116.00	65.00	65.00	85.00	65.00	65.00		
3	78.00	78.00	65.00	58.40	65.00	529.90	108.00	65.00	65.00	85.00	65.00	65.00		
4	78.00	78.00	70.00	54.40	65.00	684.40	205.30	65.00	66.00	85.00	73.00	73.00		
5	78.00	78.00	78.00	54.40	65.00	766.20	340.50	60.00	77.00	85.00	79.00	78.00		
6	78.00	78.00	78.00	54.40	65.00	845.40	223.50	54.40	78.00	85.00	91.00	78.00		
7	78.00	84.00	78.00	54.40	65.00	895.00	144.00	57.60	78.00	86.00	92.00	78.00		
8	78.00	92.00	78.00	54.40	65.00	897.50	214.40	65.00	78.00	100.00	83.00	77.00		
9	78.00	92.00	78.00	54.40	65.00	928.40	176.40	65.00	78.00	101.00	78.00	66.00		
10	78.00	92.00	78.00	54.40	60.80	946.60	176.40	65.00	78.00	101.00	78.00	65.00		
11	78.00	92.00	78.00	54.40	60.00	905.00	157.20	65.00	78.00	97.00	78.00	65.00		
12	78.00	93.00	78.00	54.40	60.00	895.00	148.80	65.00	78.00	96.00	78.00	65.00		
13	78.00	101.00	78.00	54.40	63.20	850.20	122.00	65.00	74.00	97.00	78.00	65.00		
14	78.00	101.00	78.00	54.40	65.00	795.00	120.00	65.00	72.00	94.00	70.00	65.00		
15	78.00	95.00	72.00	54.40	65.00	754.20	120.00	65.00	72.00	91.00	65.00	65.00		
16	78.00	92.00	65.00	54.40	65.00	744.60	111.00	65.00	68.00	79.00	65.00	65.00		
17	78.00	92.00	65.00	54.40	65.00	675.60	106.00	65.00	65.00	78.00	66.00	65.00		
18	78.00	92.00	65.00	54.40	65.00	391.20	206.60	65.00	65.00	74.00	77.00	65.00		
19	78.00	86.00	65.00	54.40	65.00	441.40	246.90	65.00	65.00	72.00	78.00	65.00		
20	78.00	78.00	65.00	54.40	65.00	486.40	174.00	65.00	65.00	72.00	78.00	65.00		
21	78.00	78.00	65.00	54.40	65.00	564.10	126.00	65.00	65.00	73.00	78.00	65.00		
22	78.00	78.00	65.00	54.40	65.00	669.00	108.00	65.00	65.00	91.00	77.00	65.00		
23	78.00	77.00	65.00	54.40	65.00	677.80	90.00	65.00	65.00	92.00	66.00	65.00		
24	78.00	66.00	65.00	54.40	65.00	693.20	78.00	65.00	66.00	92.00	65.00	65.00		
25	78.00	65.00	65.00	54.40	65.00	697.60	78.00	65.00	77.00	91.00	65.00	65.00		
26	78.00	65.00	65.00	54.40	65.00	686.60	78.00	65.00	78.00	79.00	66.00	65.00		
27	78.00	65.00	65.00	54.40	80.00	591.00	75.00	65.00	78.00	78.00	77.00	65.00		
28	78.00	65.00	65.00	54.40	95.00	468.40	72.00	65.00	79.00	72.00	72.00	65.00		
29	78.00	65.00	65.00	54.40	138.00	355.50	68.00	65.00	89.00	72.00	72.00	65.00		
30	78.00	65.00	65.00	59.20	190.80	265.10	65.00	65.00	92.00	72.00		65.00		
31		65.00		65.00	254.70		65.00		92.00	69.00		65.00		
<b>Total</b>	<b>2340.00</b>	<b>2504.00</b>	<b>2092.00</b>	<b>1727.00</b>	<b>2432.50</b>	<b>19840.10</b>	<b>4285.60</b>	<b>1927.00</b>	<b>2276.00</b>	<b>2636.00</b>	<b>2140.00</b>	<b>2075.00</b>	<b>46275.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>78.00</b>	<b>80.77</b>	<b>69.73</b>	<b>55.71</b>	<b>78.47</b>	<b>661.34</b>	<b>138.25</b>	<b>64.23</b>	<b>73.42</b>	<b>85.03</b>	<b>73.79</b>	<b>66.94</b>	<b>126.43</b>	<b>CMS</b>
<b>Max</b>	<b>78.00</b>	<b>101.00</b>	<b>78.00</b>	<b>65.00</b>	<b>254.70</b>	<b>946.60</b>	<b>340.50</b>	<b>65.00</b>	<b>92.00</b>	<b>101.00</b>	<b>92.00</b>	<b>78.00</b>	<b>946.60</b>	<b>CMS</b>
<b>Min</b>	<b>78.00</b>	<b>65.00</b>	<b>65.00</b>	<b>54.40</b>	<b>60.00</b>	<b>265.10</b>	<b>65.00</b>	<b>54.40</b>	<b>65.00</b>	<b>69.00</b>	<b>65.00</b>	<b>65.00</b>	<b>54.40</b>	<b>CMS</b>
<b>Runoff</b>	<b>202.18</b>	<b>216.35</b>	<b>180.75</b>	<b>149.21</b>	<b>210.17</b>	<b>1714.18</b>	<b>370.28</b>	<b>166.49</b>	<b>196.65</b>	<b>227.75</b>	<b>184.90</b>	<b>179.28</b>	<b>3998.18</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>951.80</b>	<b>CMS.</b>	<b>at 10.78 m. (MSL.) at 12.00 Hours , on Sep 9 , 2019</b>										
<b>Runoff Yield</b>		<b>1.08</b>	<b>Liters/Second/Square KM.</b>			<b>8.12</b>	<b>Liters/Second/Square KM.</b>							



## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Pom, Phra Nakhon Si Ayutthaya (C.35)

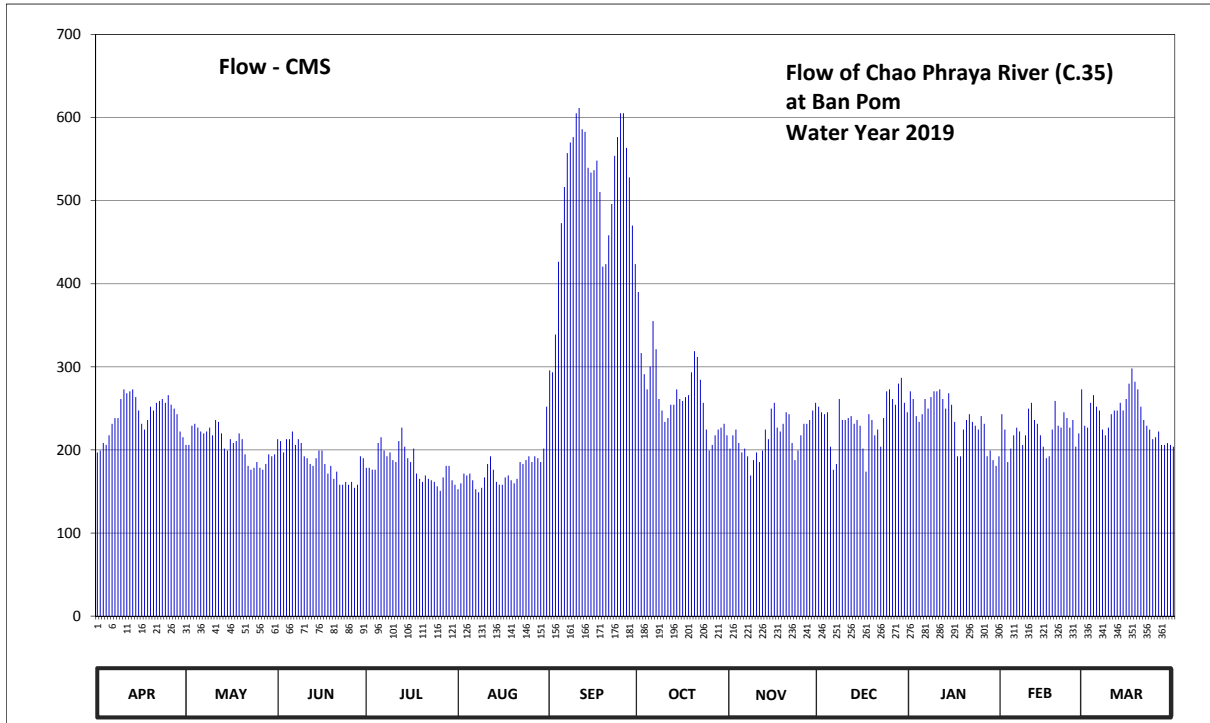
Lat 14 - 22 - 02 N Long 100 - 31 - 58 E

Location : on right bank at Ban Pom

<b>Ban Pom</b>	Phra Nakhon Si Ayutthaya	<b>Amphoe</b>	Phra Nakhon Si Ayutthaya	<b>Changwat</b>	Phra Nakhon Si Ayutthaya
<b>Drainage Area</b>	Flood Plain				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On right bank near the gage site.			<b>Elevation</b> +7.125 m. (MSL.)	
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1997 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1997 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1998 to date				
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.57	0.60	0.45	0.32	0.96	1.33	0.55	0.77	0.85	0.73	0.67	
2	0.54	0.57	0.59	0.45	0.36	0.95	1.05	0.62	0.74	0.81	0.65	0.66	
3	0.58	0.67	0.53	0.44	0.42	1.14	0.94	0.65	0.73	0.72	0.48	0.79	
4	0.57	0.68	0.60	0.44	0.41	1.46	0.86	0.58	0.74	0.69	0.55	0.83	
5	0.62	0.66	0.60	0.58	0.42	1.62	0.98	0.53	0.56	0.73	0.62	0.77	
6	0.68	0.64	0.64	0.61	0.38	1.77	1.20	0.55	0.44	0.81	0.66	0.75	
7	0.71	0.63	0.57	0.54	0.32	1.91	1.07	0.51	0.47	0.76	0.64	0.65	
8	0.71	0.64	0.60	0.51	0.30	1.95	0.81	0.41	0.81	0.82	0.57	0.62	
9	0.81	0.66	0.58	0.53	0.33	1.97	0.75	0.49	0.70	0.85	0.62	0.66	
10	0.86	0.62	0.51	0.49	0.40	2.06	0.69	0.53	0.70	0.85	0.76	0.73	
11	0.84	0.70	0.50	0.48	0.47	2.08	0.71	0.48	0.71	0.86	0.79	0.75	
12	0.85	0.69	0.47	0.59	0.51	2.00	0.78	0.54	0.72	0.81	0.70	0.75	
13	0.86	0.63	0.46	0.66	0.44	1.99	0.78	0.65	0.68	0.76	0.68	0.79	
14	0.82	0.55	0.50	0.56	0.37	1.85	0.86	0.60	0.70	0.84	0.62	0.75	
15	0.75	0.54	0.54	0.50	0.35	1.83	0.81	0.76	0.67	0.78	0.56	0.81	
16	0.68	0.60	0.54	0.48	0.35	1.84	0.80	0.79	0.55	0.69	0.50	0.89	
17	0.65	0.58	0.47	0.55	0.40	1.88	0.82	0.66	0.43	0.51	0.51	0.97	
18	0.70	0.59	0.42	0.42	0.41	1.75	0.83	0.64	0.73	0.51	0.65	0.90	
19	0.77	0.63	0.46	0.39	0.38	1.44	0.95	0.68	0.70	0.65	0.80	0.86	
20	0.75	0.60	0.39	0.37	0.36	1.45	1.06	0.74	0.62	0.70	0.67	0.77	
21	0.79	0.52	0.43	0.41	0.39	1.57	1.03	0.73	0.65	0.73	0.66	0.70	
22	0.80	0.46	0.35	0.39	0.48	1.70	0.91	0.58	0.56	0.69	0.74	0.67	
23	0.81	0.44	0.35	0.38	0.47	1.90	0.79	0.49	0.71	0.67	0.71	0.65	
24	0.79	0.45	0.37	0.37	0.49	1.97	0.65	0.54	0.85	0.65	0.66	0.60	
25	0.83	0.48	0.35	0.34	0.51	2.06	0.54	0.62	0.86	0.72	0.70	0.61	
26	0.78	0.45	0.37	0.31	0.48	2.06	0.57	0.68	0.81	0.68	0.56	0.64	
27	0.76	0.44	0.33	0.40	0.51	1.93	0.62	0.68	0.78	0.51	0.63	0.57	
28	0.73	0.47	0.35	0.46	0.50	1.81	0.65	0.70	0.89	0.54	0.86	0.57	
29	0.64	0.52	0.51	0.46	0.48	1.61	0.66	0.75	0.92	0.49	0.77	0.58	
30	0.61	0.51	0.50	0.38	0.55	1.45	0.68	0.79	0.79	0.46	0.56	0.57	
31		0.52		0.35	0.77		0.62		0.74	0.51		0.56	
Mean	0.73	0.57	0.48	0.46	0.43	1.73	0.83	0.62	0.70	0.70	0.66	0.71	
Max	0.86	0.70	0.64	0.66	0.77	2.08	1.33	0.79	0.92	0.86	0.86	0.97	2.08
Min	0.53	0.44	0.33	0.31	0.30	0.95	0.54	0.41	0.43	0.46	0.48	0.56	0.30
Annual Max Momentary Gage Height	2.32		m. (MSL.) ,		at 23.00 Hours , on Sep 10 , 2019								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed -8.76 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, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	196.90	206.10	213.00	178.50	152.60	295.80	390.10	201.50	252.10	270.50	242.90	229.10		
2	199.20	206.10	210.70	178.50	159.80	293.50	316.50	217.60	245.20	261.30	224.50	226.80		
3	208.40	229.10	196.90	176.20	171.60	338.80	291.20	224.50	242.90	240.60	185.40	256.70		
4	206.10	231.40	213.00	176.20	169.30	426.40	272.80	208.40	245.20	233.70	201.50	265.90		
5	217.60	226.80	213.00	208.40	171.60	472.80	300.40	196.90	203.80	242.90	217.60	252.10		
6	231.40	222.20	222.20	215.30	163.40	516.30	355.00	201.50	176.20	261.30	226.80	247.50		
7	238.30	219.90	206.10	199.20	152.60	557.20	321.10	192.30	183.10	249.80	222.20	224.50		
8	238.30	222.20	213.00	192.30	149.00	570.00	261.30	169.30	261.30	263.60	206.10	217.60		
9	261.30	226.80	208.40	196.90	154.40	576.40	247.50	187.70	236.00	270.50	217.60	226.80		
10	272.80	217.60	192.30	187.70	167.00	605.20	233.70	196.90	236.00	270.50	249.80	242.90		
11	268.20	236.00	190.00	185.40	183.10	611.60	238.30	185.40	238.30	272.80	256.70	247.50		
12	270.50	233.70	183.10	210.70	192.30	586.00	254.40	199.20	240.60	261.30	236.00	247.50		
13	272.80	219.90	180.80	226.80	176.20	582.80	254.40	224.50	231.40	249.80	231.40	256.70		
14	263.60	201.50	190.00	203.80	161.60	539.50	272.80	213.00	236.00	268.20	217.60	247.50		
15	247.50	199.20	199.20	190.00	158.00	533.70	261.30	249.80	229.10	254.40	203.80	261.30		
16	231.40	213.00	199.20	185.40	158.00	536.60	259.00	256.70	201.50	233.70	190.00	279.70		
17	224.50	208.40	183.10	201.50	167.00	548.20	263.60	226.80	173.90	192.30	192.30	298.10		
18	236.00	210.70	171.60	171.60	169.30	510.50	265.90	222.20	242.90	192.30	224.50	282.00		
19	252.10	219.90	180.80	165.20	163.40	420.60	293.50	231.40	236.00	224.50	259.00	272.80		
20	247.50	213.00	165.20	161.60	159.80	423.50	318.80	245.20	217.60	236.00	229.10	252.10		
21	256.70	194.60	173.90	169.30	165.20	458.30	311.90	242.90	224.50	242.90	226.80	236.00		
22	259.00	180.80	158.00	165.20	185.40	496.00	284.30	208.40	203.80	233.70	245.20	229.10		
23	261.30	176.20	158.00	163.40	183.10	554.00	256.70	187.70	238.30	238.30	229.10	224.50		
24	256.70	178.50	161.60	161.60	187.70	576.40	224.50	199.20	270.50	224.50	226.80	213.00		
25	265.90	185.40	158.00	156.20	192.30	605.20	199.20	217.60	272.80	240.60	236.00	215.30		
26	254.40	178.50	161.60	150.80	185.40	605.20	206.10	231.40	261.30	231.40	203.80	222.20		
27	249.80	176.20	154.40	167.00	192.30	563.60	217.60	231.40	254.40	192.30	219.90	206.10		
28	242.90	183.10	158.00	180.80	190.00	527.90	224.50	236.00	279.70	199.20	272.80	206.10		
29	222.20	194.60	192.30	180.80	185.40	469.90	226.80	247.50	286.60	187.70	252.10	208.40		
30	215.30	192.30	190.00	163.40	201.50	423.50	231.40	256.70	256.70	180.80	206.10	206.10		
31	194.60		158.00	252.10			217.60		245.20	192.30	203.80			
<b>Total</b>	<b>7268.60</b>	<b>6398.30</b>	<b>5597.40</b>	<b>5627.70</b>	<b>5420.40</b>	<b>15225.40</b>	<b>8272.20</b>	<b>6509.60</b>	<b>7322.90</b>	<b>7304.50</b>	<b>6556.50</b>	<b>7405.70</b>	<b>88909.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>242.29</b>	<b>206.40</b>	<b>186.58</b>	<b>181.54</b>	<b>174.85</b>	<b>507.51</b>	<b>266.85</b>	<b>216.99</b>	<b>236.22</b>	<b>235.63</b>	<b>226.09</b>	<b>238.89</b>	<b>242.92</b>	<b>CMS</b>
<b>Max</b>	<b>272.80</b>	<b>236.00</b>	<b>222.20</b>	<b>226.80</b>	<b>252.10</b>	<b>611.60</b>	<b>390.10</b>	<b>256.70</b>	<b>286.60</b>	<b>272.80</b>	<b>272.80</b>	<b>298.10</b>	<b>611.60</b>	<b>CMS</b>
<b>Min</b>	<b>196.90</b>	<b>176.20</b>	<b>154.40</b>	<b>150.80</b>	<b>149.00</b>	<b>293.50</b>	<b>199.20</b>	<b>169.30</b>	<b>173.90</b>	<b>180.80</b>	<b>185.40</b>	<b>203.80</b>	<b>149.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>628.01</b>	<b>552.81</b>	<b>483.62</b>	<b>486.23</b>	<b>468.32</b>	<b>1315.47</b>	<b>714.72</b>	<b>562.43</b>	<b>632.70</b>	<b>631.11</b>	<b>566.48</b>	<b>639.85</b>	<b>7681.75</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>688.40 CMS. at 2.32 m. (MSL.) at 23.00 Hours , on Sep 10 , 2019</b>													
<b>Runoff Yield</b>	<b>***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.</b>													

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Khlong Bang Luang at Ban Bang Luang Dod, Phra Nakhon Si Ayutthaya (C.36)

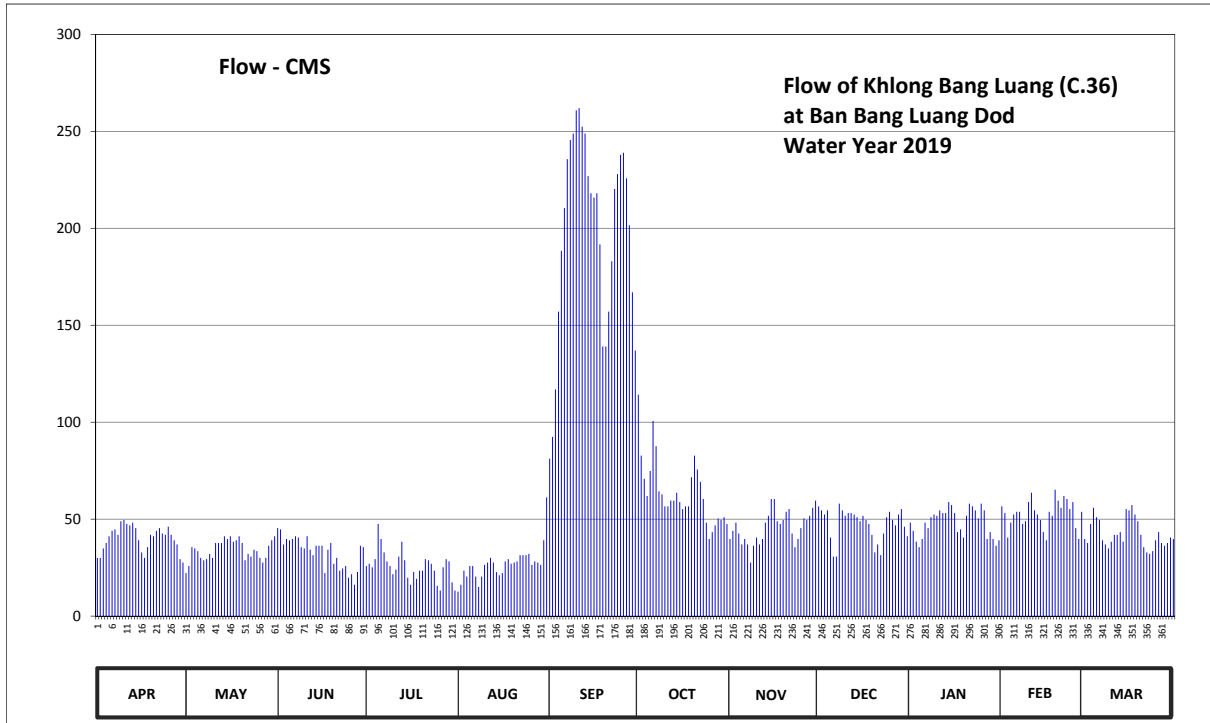
Lat 14 - 24 - 50 N Long 100 - 26 - 37 E

Location : on right bank at the bridge.

	<b>Ban</b> Bang Luang Dod	<b>Amphoe</b> Bang Ban	<b>Changwat</b> Phra Nakhon Si Ayutthaya
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage	<b>Elevation</b>	+7.500 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	-0.03	0.32	0.03	-0.19	0.79	1.18	0.24	0.48	0.36	0.48	0.24	
2	0.10	0.03	0.31	0.05	-0.13	0.93	0.81	0.30	0.45	0.30	0.43	0.21	
3	0.17	0.18	0.20	0.02	-0.01	1.21	0.66	0.36	0.42	0.22	0.25	0.35	
4	0.21	0.17	0.24	0.09	-0.06	1.63	0.55	0.28	0.45	0.18	0.36	0.47	
5	0.26	0.15	0.23	0.35	0.03	1.94	0.71	0.20	0.25	0.24	0.42	0.40	
6	0.30	0.10	0.24	0.24	0.03	2.14	1.03	0.24	0.11	0.36	0.44	0.38	
7	0.31	0.08	0.26	0.14	-0.06	2.37	0.87	0.20	0.11	0.32	0.44	0.23	
8	0.27	0.09	0.25	0.07	-0.15	2.46	0.58	0.06	0.50	0.40	0.35	0.20	
9	0.37	0.13	0.18	0.03	-0.06	2.49	0.56	0.19	0.45	0.42	0.37	0.17	
10	0.38	0.10	0.17	-0.04	0.04	2.59	0.48	0.25	0.41	0.41	0.51	0.22	
11	0.35	0.21	0.26	0.00	0.06	2.60	0.48	0.20	0.43	0.45	0.57	0.27	
12	0.34	0.21	0.16	0.11	0.10	2.52	0.52	0.24	0.43	0.43	0.45	0.27	
13	0.36	0.21	0.12	0.22	0.06	2.49	0.52	0.36	0.42	0.43	0.42	0.29	
14	0.32	0.26	0.19	0.08	-0.02	2.29	0.57	0.41	0.40	0.51	0.38	0.22	
15	0.23	0.24	0.19	-0.07	-0.05	2.21	0.51	0.53	0.37	0.49	0.29	0.46	
16	0.14	0.26	0.19	-0.13	-0.03	2.19	0.46	0.53	0.41	0.43	0.23	0.45	
17	0.10	0.22	-0.03	-0.02	0.07	2.21	0.48	0.37	0.38	0.29	0.44	0.49	
18	0.18	0.23	0.16	-0.08	0.09	1.97	0.48	0.35	0.35	0.31	0.41	0.42	
19	0.27	0.26	0.21	-0.01	0.05	1.45	0.67	0.38	0.27	0.25	0.59	0.37	
20	0.26	0.21	0.05	-0.01	0.06	1.45	0.81	0.44	0.14	0.41	0.52	0.27	
21	0.30	0.08	0.10	0.09	0.07	1.63	0.72	0.46	0.20	0.50	0.47	0.18	
22	0.32	0.13	-0.01	0.08	0.12	1.89	0.64	0.28	0.12	0.48	0.55	0.14	
23	0.28	0.11	0.01	0.05	0.12	2.23	0.53	0.18	0.28	0.45	0.53	0.13	
24	0.27	0.16	0.03	-0.01	0.12	2.30	0.36	0.24	0.40	0.39	0.46	0.15	
25	0.33	0.15	-0.07	-0.14	0.13	2.39	0.24	0.32	0.44	0.50	0.51	0.23	
26	0.27	0.10	-0.04	-0.18	0.04	2.40	0.29	0.39	0.38	0.45	0.32	0.29	
27	0.23	0.06	-0.13	0.02	0.07	2.28	0.34	0.38	0.34	0.24	0.24	0.21	
28	0.20	0.10	-0.02	0.09	0.06	2.06	0.39	0.41	0.42	0.29	0.44	0.19	
29	0.09	0.19	0.19	0.07	0.04	1.73	0.38	0.47	0.46	0.24	0.37	0.21	
30	0.06	0.23	0.18	-0.11	0.23	1.43	0.40	0.52	0.33	0.19	0.23	0.25	
31		0.26		-0.18	0.54		0.35		0.26	0.23		0.24	
Mean	0.25	0.16	0.14	0.03	0.04	2.01	0.57	0.33	0.35	0.36	0.42	0.28	
Max	0.38	0.26	0.32	0.35	0.54	2.60	1.18	0.53	0.50	0.51	0.59	0.49	2.60
Min	0.06	-0.03	-0.13	-0.18	-0.19	0.79	0.24	0.06	0.11	0.18	0.23	0.13	-0.19
Annual Max Momentary Gage Height	2.69	m. (MSL.) ,		at 02.00 Hours , on Sep 11 , 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed -5.79 m. (MSL.)									
Left Bank Elevation	7.06	m. (MSL.) ,											
Right Bank Elevation	7.46	m. (MSL.) ,		Drainage Area Square Kilometers									



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.00	22.20	45.40	25.80	12.60	81.20	114.20	39.80	56.60	48.20	56.60	39.80	
2	30.00	25.80	44.70	27.00	16.20	92.40	82.80	44.00	54.50	44.00	53.10	37.70	
3	34.90	35.60	37.00	25.20	23.40	116.90	70.80	48.20	52.40	38.40	40.50	47.50	
4	37.70	34.90	39.80	29.40	20.40	157.00	62.00	42.60	54.50	35.60	48.20	55.90	
5	41.20	33.50	39.10	47.50	25.80	188.40	74.80	37.00	40.50	39.80	52.40	51.00	
6	44.00	30.00	39.80	39.80	25.80	210.40	100.70	39.80	30.70	48.20	53.80	49.60	
7	44.70	28.80	41.20	32.80	20.40	235.70	87.60	37.00	30.70	45.40	53.80	39.10	
8	41.90	29.40	40.50	28.20	15.00	245.60	64.40	27.60	58.00	51.00	47.50	37.00	
9	48.90	32.10	35.60	25.80	20.40	248.90	62.80	36.30	54.50	52.40	48.90	34.90	
10	49.60	30.00	34.90	21.60	26.40	260.80	56.60	40.50	51.70	51.70	58.80	38.40	
11	47.50	37.70	41.20	24.00	27.60	262.00	56.60	37.00	53.10	54.50	63.60	41.90	
12	46.80	37.70	34.20	30.70	30.00	252.40	59.60	39.80	53.10	53.10	54.50	41.90	
13	48.20	37.70	31.40	38.40	27.60	248.90	59.60	48.20	52.40	53.10	52.40	43.30	
14	45.40	41.20	36.30	28.80	22.80	226.90	63.60	51.70	51.00	58.80	49.60	38.40	
15	39.10	39.80	36.30	19.80	21.00	218.10	58.80	60.40	48.90	57.30	43.30	55.20	
16	32.80	41.20	36.30	16.20	22.20	215.90	55.20	60.40	51.70	53.10	39.10	54.50	
17	30.00	38.40	22.20	22.80	28.20	218.10	56.60	48.90	49.60	43.30	53.80	57.30	
18	35.60	39.10	34.20	19.20	29.40	191.70	56.60	47.50	47.50	44.70	51.70	52.40	
19	41.90	41.20	37.70	23.40	27.00	139.00	71.60	49.60	41.90	40.50	65.20	48.90	
20	41.20	37.70	27.00	23.40	27.60	139.00	82.80	53.80	32.80	51.70	59.60	41.90	
21	44.00	28.80	30.00	29.40	28.20	157.00	75.60	55.20	37.00	58.00	55.90	35.60	
22	45.40	32.10	23.40	28.80	31.40	183.00	69.20	42.60	31.40	56.60	62.00	32.80	
23	42.60	30.70	24.60	27.00	31.40	220.30	60.40	35.60	42.60	54.50	60.40	32.10	
24	41.90	34.20	25.80	23.40	31.40	228.00	48.20	39.80	51.00	50.30	55.20	33.50	
25	46.10	33.50	19.80	15.60	32.10	237.90	39.80	45.40	53.80	58.00	58.80	39.10	
26	41.90	30.00	21.60	13.20	26.40	239.00	43.30	50.30	49.60	54.50	45.40	43.30	
27	39.10	27.60	16.20	25.20	28.20	225.80	46.80	49.60	46.80	39.80	39.80	37.70	
28	37.00	30.00	22.80	29.40	27.60	201.60	50.30	51.70	52.40	43.30	53.80	36.30	
29	29.40	36.30	36.30	28.20	26.40	167.00	49.60	55.90	55.20	39.80	48.90	37.70	
30	27.60	39.10	35.60	17.40	39.10	137.00	51.00	59.60	46.10	36.30		40.50	
31		41.20		13.20	61.20		47.50		41.20	39.10		39.80	
Total	1206.40	1057.50	990.90	800.60	833.20	5945.90	1979.40	1375.80	1473.20	1495.00	1526.60	1315.00	19999.50 CMSDAY
Mean	40.21	34.11	33.03	25.83	26.88	198.20	63.85	45.86	47.52	48.23	52.64	42.42	54.64 CMS
Max	49.60	41.20	45.40	47.50	61.20	262.00	114.20	60.40	58.00	58.80	65.20	57.30	262.00 CMS
Min	27.60	22.20	16.20	13.20	12.60	81.20	39.80	27.60	30.70	35.60	39.10	32.10	12.60 CMS
Runoff	104.23	91.37	85.61	69.17	71.99	513.73	171.02	118.87	127.28	129.17	131.90	113.62	1727.96 MCM
Momentary Peak		272.80											CMS. at 2.69 m. (MSL.) at 02.00 Hours , on Sep 11 , 2019
Runoff Yield		*****											Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Khlong Bang Ban at Ban Bang Ban, Phra Nakhon Si Ayutthaya (C.37)

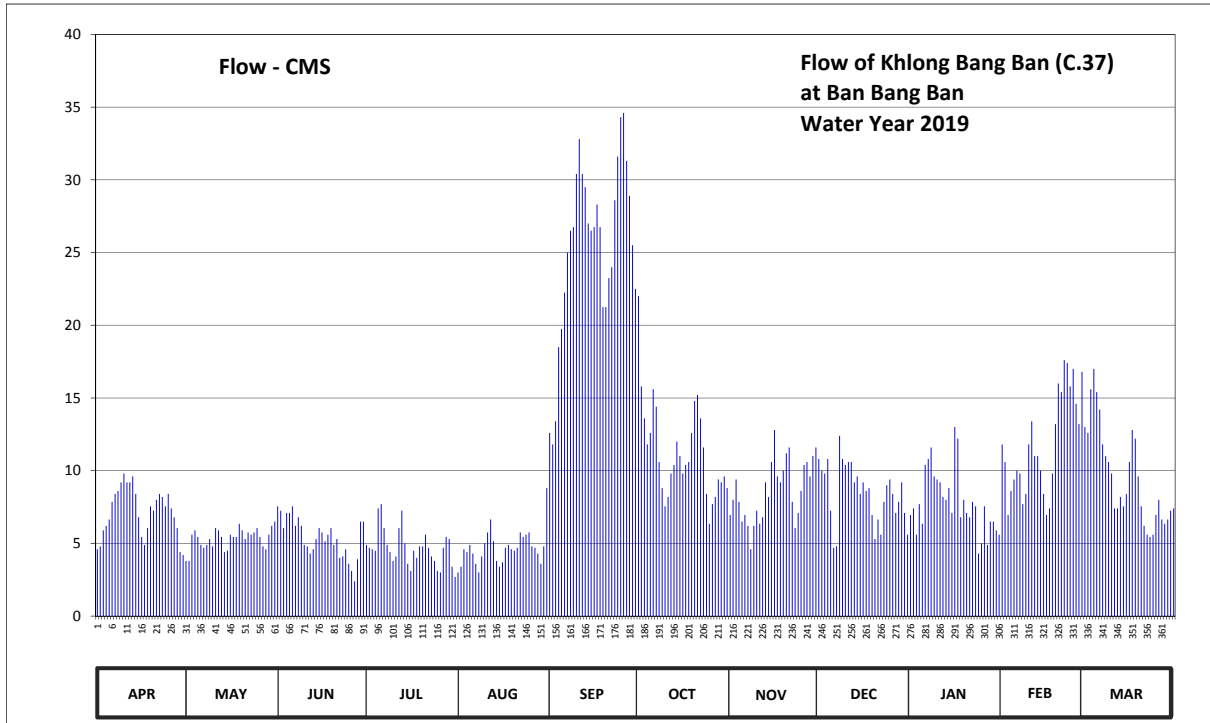
Lat 14 - 21 - 28 N Long 100 - 29 - 03 E

Location : on left bank at the bridge.

<b>Ban</b>	Bang Ban	<b>Amphoe</b>	Bang Ban	<b>Changwat</b>	Phra Nakhon Si Ayutthaya
<b>Drainage Area</b>	Flood Plain				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank near the top staff gage			<b>Elevation</b>	+7.703 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1982 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1983 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1983 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

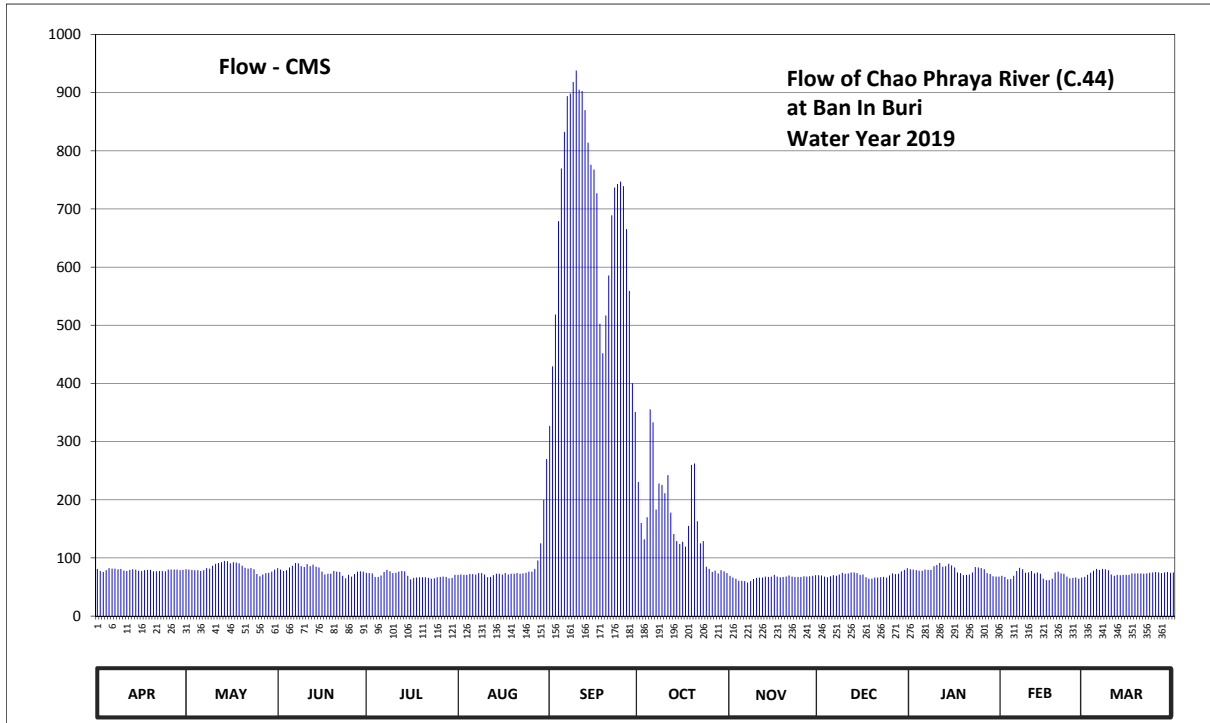
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	-0.02	0.27	0.09	-0.10	0.53	0.96	0.23	0.44	0.23	0.49	0.55	
2	0.08	-0.02	0.25	0.07	-0.06	0.49	0.69	0.30	0.40	0.26	0.43	0.53	
3	0.16	0.14	0.17	0.06	0.06	0.57	0.58	0.37	0.39	0.14	0.23	0.68	
4	0.18	0.16	0.24	0.05	0.04	0.82	0.49	0.29	0.44	0.28	0.33	0.75	
5	0.21	0.13	0.24	0.26	0.09	0.87	0.53	0.20	0.25	0.19	0.37	0.67	
6	0.29	0.09	0.27	0.28	0.03	0.97	0.68	0.23	0.07	0.42	0.40	0.61	
7	0.32	0.07	0.18	0.17	-0.04	1.08	0.62	0.18	0.08	0.44	0.39	0.49	
8	0.33	0.09	0.22	0.09	-0.10	1.14	0.43	0.06	0.52	0.48	0.28	0.45	
9	0.36	0.12	0.18	0.04	0.01	1.15	0.34	0.18	0.44	0.38	0.32	0.43	
10	0.39	0.08	0.09	-0.02	0.10	1.28	0.27	0.25	0.42	0.37	0.49	0.39	
11	0.36	0.17	0.08	0.01	0.15	1.36	0.31	0.19	0.43	0.36	0.57	0.26	
12	0.36	0.16	0.03	0.17	0.21	1.28	0.39	0.22	0.43	0.31	0.45	0.26	
13	0.38	0.13	0.06	0.25	0.11	1.25	0.42	0.36	0.36	0.30	0.45	0.31	
14	0.32	0.04	0.12	0.10	-0.02	1.16	0.50	0.31	0.38	0.34	0.40	0.27	
15	0.22	0.05	0.17	-0.04	-0.06	1.14	0.45	0.43	0.32	0.24	0.32	0.32	
16	0.13	0.14	0.15	-0.09	-0.03	1.15	0.39	0.54	0.36	0.55	0.23	0.43	
17	0.09	0.13	0.11	0.05	0.07	1.21	0.42	0.38	0.33	0.51	0.26	0.54	
18	0.17	0.13	0.14	0.00	0.09	1.15	0.43	0.36	0.34	0.22	0.39	0.51	
19	0.27	0.19	0.17	0.08	0.06	0.93	0.53	0.40	0.23	0.30	0.56	0.38	
20	0.25	0.16	0.09	0.08	0.05	0.93	0.64	0.46	0.12	0.24	0.70	0.27	
21	0.30	0.12	0.12	0.14	0.07	1.01	0.66	0.48	0.21	0.22	0.67	0.18	
22	0.32	0.15	0.00	0.07	0.15	1.04	0.58	0.29	0.14	0.29	0.78	0.14	
23	0.31	0.14	0.01	0.01	0.13	1.22	0.48	0.17	0.29	0.27	0.77	0.13	
24	0.27	0.15	0.06	-0.02	0.14	1.32	0.32	0.24	0.35	0.03	0.69	0.14	
25	0.32	0.17	-0.04	-0.09	0.15	1.41	0.19	0.33	0.37	0.10	0.75	0.23	
26	0.26	0.13	-0.09	-0.10	0.08	1.42	0.28	0.42	0.32	0.27	0.63	0.30	
27	0.22	0.08	-0.16	0.07	0.07	1.31	0.31	0.43	0.24	0.09	0.56	0.21	
28	0.17	0.06	-0.01	0.13	0.03	1.23	0.37	0.38	0.29	0.20	0.74	0.19	
29	0.04	0.14	0.20	0.12	-0.04	1.10	0.36	0.45	0.36	0.20	0.69	0.21	
30	0.02	0.18	0.20	-0.06	0.08	0.98	0.38	0.48	0.24	0.16	0.25	0.25	
31		0.20		-0.13	0.34		0.34		0.14	0.14		0.26	
Mean	0.24	0.12	0.12	0.06	0.06	1.08	0.46	0.32	0.31	0.28	0.49	0.37	
Max	0.39	0.20	0.27	0.28	0.34	1.42	0.96	0.54	0.52	0.55	0.78	0.75	1.42
Min	0.02	-0.02	-0.16	-0.13	-0.10	0.49	0.19	0.06	0.07	0.03	0.23	0.13	-0.16
Annual Max Momentary Gage Height	1.64	m. (MSL.) , at 23.00 Hours , on Sep 25 , 2019											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed -3.11 m. (MSL.)											
Left Bank Elevation	6.79	m. (MSL.) ,											
Right Bank Elevation	6.77	m. (MSL.) ,											
Drainage Area	Square Kilometers												



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.60	3.80	7.55	4.90	3.00	12.60	22.00	6.95	10.80	6.95	11.80	13.00	
2	4.80	3.80	7.25	4.70	3.40	11.80	15.80	8.00	10.00	7.40	10.60	12.60	
3	5.90	5.60	6.05	4.60	4.60	13.40	13.60	9.40	9.80	5.60	6.95	15.60	
4	6.20	5.90	7.10	4.50	4.40	18.50	11.80	7.85	10.80	7.70	8.60	17.00	
5	6.65	5.45	7.10	7.40	4.90	19.75	12.60	6.50	7.25	6.35	9.40	15.40	
6	7.85	4.90	7.55	7.70	4.30	22.25	15.60	6.95	4.70	10.40	10.00	14.20	
7	8.40	4.70	6.20	6.05	3.60	25.00	14.40	6.20	4.80	10.80	9.80	11.80	
8	8.60	4.90	6.80	4.90	3.00	26.50	10.60	4.60	12.40	11.60	7.70	11.00	
9	9.20	5.30	6.20	4.40	4.10	26.75	8.80	6.20	10.80	9.60	8.40	10.60	
10	9.80	4.80	4.90	3.80	5.00	30.40	7.55	7.25	10.40	9.40	11.80	9.80	
11	9.20	6.05	4.80	4.10	5.75	32.80	8.20	6.35	10.60	9.20	13.40	7.40	
12	9.20	5.90	4.30	6.05	6.65	30.40	9.80	6.80	10.60	8.20	11.00	7.40	
13	9.60	5.45	4.60	7.25	5.15	29.50	10.40	9.20	9.20	8.00	11.00	8.20	
14	8.40	4.40	5.30	5.00	3.80	27.00	12.00	8.20	9.60	8.80	10.00	7.55	
15	6.80	4.50	6.05	3.60	3.40	26.50	11.00	10.60	8.40	7.10	8.40	8.40	
16	5.45	5.60	5.75	3.10	3.70	26.75	9.80	12.80	9.20	13.00	6.95	10.60	
17	4.90	5.45	5.15	4.50	4.70	28.30	10.40	9.60	8.60	12.20	7.40	12.80	
18	6.05	5.45	5.60	4.00	4.90	26.75	10.60	9.20	8.80	6.80	9.80	12.20	
19	7.55	6.35	6.05	4.80	4.60	21.25	12.60	10.00	6.95	8.00	13.20	9.60	
20	7.25	5.90	4.90	4.80	4.50	21.25	14.80	11.20	5.30	7.10	16.00	7.55	
21	8.00	5.30	5.30	5.60	4.70	23.25	15.20	11.60	6.65	6.80	15.40	6.20	
22	8.40	5.75	4.00	4.70	5.75	24.00	13.60	7.85	5.60	7.85	17.60	5.60	
23	8.20	5.60	4.10	4.10	5.45	28.60	11.60	6.05	7.85	7.55	17.40	5.45	
24	7.55	5.75	4.60	3.80	5.60	31.60	8.40	7.10	9.00	4.30	15.80	5.60	
25	8.40	6.05	3.60	3.10	5.75	34.30	6.35	8.60	9.40	5.00	17.00	6.95	
26	7.40	5.45	3.10	3.00	4.80	34.60	7.70	10.40	8.40	7.55	14.60	8.00	
27	6.80	4.80	2.40	4.70	4.70	31.30	8.20	10.60	7.10	4.90	13.20	6.65	
28	6.05	4.60	3.90	5.45	4.30	28.90	9.40	9.60	7.85	6.50	16.80	6.35	
29	4.40	5.60	6.50	5.30	3.60	25.50	9.20	11.00	9.20	6.50	15.80	6.65	
30	4.20	6.20	6.50	3.40	4.80	22.50	9.60	11.60	7.10	5.90		7.25	
31		6.50		2.70	8.80		8.80		5.60	5.60		7.40	
Total	215.80	165.80	163.20	146.00	145.70	762.00	350.40	258.25	262.75	242.65	345.80	294.80	3353.15 CMSDAY
Mean	7.19	5.35	5.44	4.71	4.70	25.40	11.30	8.61	8.48	7.83	11.92	9.51	9.16 CMS
Max	9.80	6.50	7.55	7.70	8.80	34.60	22.00	12.80	12.40	13.00	17.60	17.00	34.60 CMS
Min	4.20	3.80	2.40	2.70	3.00	11.80	6.35	4.60	4.70	4.30	6.95	5.45	2.40 CMS
Runoff	18.65	14.33	14.10	12.61	12.59	65.84	30.27	22.31	22.70	20.96	29.88	25.47	289.71 MCM
Momentary Peak	41.20	CMS.	at 1.64 m. (MSL.)	at 23.00 Hours	, on Sep 25 , 2019								
Runoff Yield	*****	Liters/Second/Square KM.		Momentary Peak Yield	*****	Liters/Second/Square KM.							





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.20	80.60	82.40	74.60	71.00	327.00	230.40	69.20	70.40	80.60	69.20	67.40	
2	77.60	80.00	80.00	74.00	71.60	429.40	160.00	66.20	69.80	80.00	67.40	71.00	
3	75.80	79.40	77.60	73.40	71.00	518.60	132.00	64.40	68.00	78.80	63.20	74.60	
4	78.80	78.80	78.80	67.40	71.00	679.00	170.00	60.80	66.80	78.20	63.80	78.20	
5	82.40	78.80	83.70	67.40	72.20	769.70	355.50	60.80	68.60	78.20	69.20	81.20	
6	81.80	77.60	86.50	69.80	72.20	832.70	333.00	60.20	70.40	80.00	77.60	79.40	
7	81.80	78.80	91.40	75.80	71.60	894.00	183.10	57.80	69.20	79.40	83.00	81.20	
8	80.60	82.40	90.70	79.40	74.00	898.40	228.00	60.20	71.60	79.40	80.60	80.60	
9	81.20	81.80	85.80	77.00	74.00	918.20	225.60	63.80	74.60	85.80	74.60	78.80	
10	78.20	86.50	84.40	74.00	71.60	938.00	211.20	65.60	72.80	87.90	75.20	71.60	
11	77.60	90.00	89.30	74.60	66.80	905.00	242.40	66.20	73.40	91.40	77.60	69.20	
12	79.40	91.40	85.80	76.40	67.40	902.80	178.00	66.20	75.20	85.10	73.40	71.00	
13	80.60	92.80	88.60	77.60	70.40	869.80	141.00	68.00	75.20	85.80	75.20	70.40	
14	80.00	94.90	85.10	77.00	72.80	813.80	129.00	67.40	74.00	90.00	72.80	71.00	
15	78.20	94.20	83.70	69.20	72.80	776.00	124.00	68.00	71.00	87.20	64.40	71.00	
16	77.60	90.70	76.40	63.20	71.60	767.60	128.00	71.00	71.60	83.70	62.00	71.00	
17	78.80	92.80	71.60	65.60	74.00	727.00	119.30	68.00	66.80	75.20	62.00	73.40	
18	79.40	92.10	72.80	66.20	71.60	502.60	155.00	66.80	64.40	74.00	64.40	73.40	
19	79.40	90.70	72.80	66.80	72.80	451.80	259.80	67.40	64.40	70.40	75.20	73.40	
20	77.00	86.50	77.60	66.80	72.80	516.80	262.40	68.00	66.20	71.00	76.40	73.40	
21	77.00	83.00	76.40	66.80	74.00	585.70	163.00	69.80	66.20	71.60	73.40	72.80	
22	77.60	81.80	75.80	65.60	72.80	689.00	125.00	68.00	66.80	75.20	72.80	73.40	
23	77.60	82.40	69.20	64.40	73.40	737.00	129.00	67.40	67.40	84.40	68.00	74.60	
24	77.00	80.60	65.00	65.00	74.60	743.00	85.10	67.40	66.20	83.70	65.00	75.20	
25	80.00	72.20	71.00	66.80	76.40	747.00	81.20	67.40	69.80	82.40	65.60	75.80	
26	80.00	68.60	68.00	67.40	76.40	739.00	75.80	68.60	73.40	80.60	66.20	75.20	
27	80.00	71.60	72.20	68.00	81.20	665.50	78.20	68.00	72.20	74.00	64.40	74.00	
28	80.00	74.00	76.40	67.40	95.60	559.10	73.40	68.60	72.80	72.20	66.20	75.20	
29	78.80	74.60	77.00	65.00	125.00	400.50	78.80	69.20	77.00	68.60	66.80	75.80	
30	79.40	76.40	76.40	65.60	199.60	351.00	77.00	70.40	79.40	68.00		74.60	
31		80.00		71.00	270.20		74.00		82.40	68.00		75.20	
Total	2374.80	2566.00	2372.40	2169.20	2652.40	20655.00	5008.20	1990.80	2198.00	2450.80	2035.60	2303.00	48776.20 CMSDAY
Mean	79.16	82.77	79.08	69.97	85.56	688.50	161.55	66.36	70.90	79.06	70.19	74.29	133.27 CMS
Max	82.40	94.90	91.40	79.40	270.20	938.00	355.50	71.00	82.40	91.40	83.00	81.20	938.00 CMS
Min	75.80	68.60	65.00	63.20	66.80	327.00	73.40	57.80	64.40	68.00	62.00	67.40	57.80 CMS
Runoff	205.18	221.70	204.98	187.42	229.17	1784.59	432.71	172.01	189.91	211.75	175.88	198.98	4214.26 MCM
Momentary Peak		944.60 CMS.		CMS. at 9.28 m. (MSL.)									at 11.00 Hours , on Sep 10 , 2019
Runoff Yield		1.13		Liters/Second/Square KM.			7.97						Liters/Second/Square KM.



## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Bang Nam Chieo, Sing Buri (C.45)

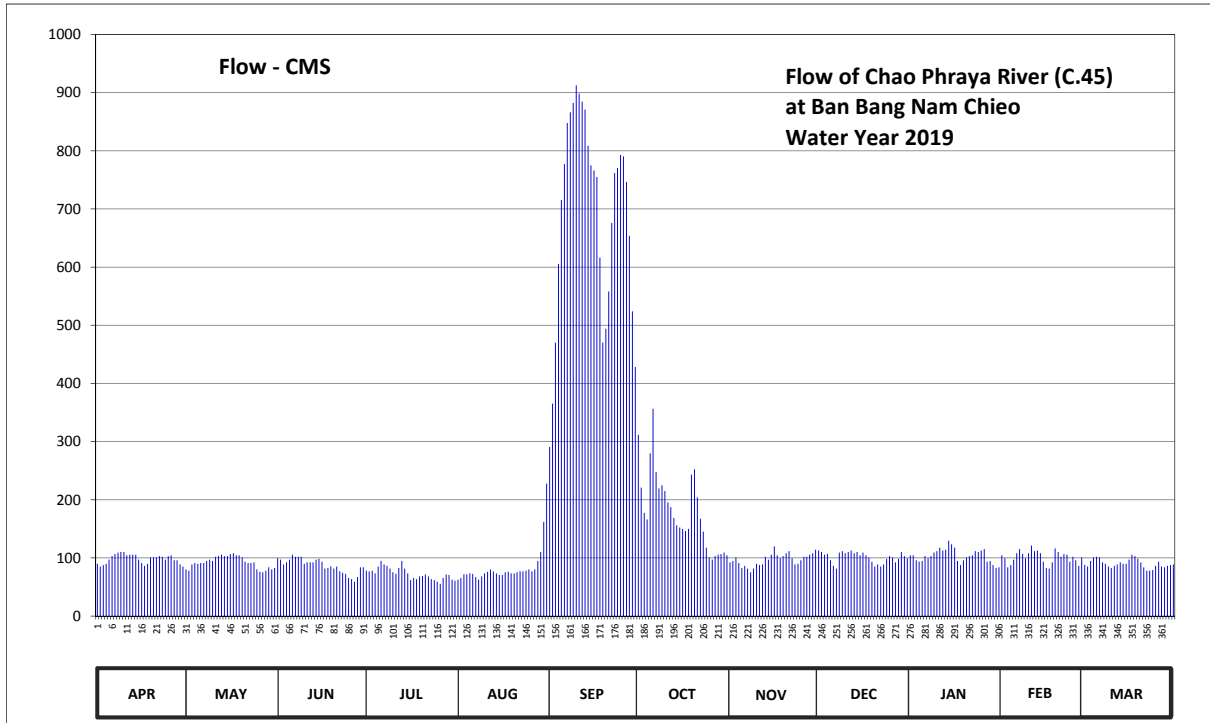
Lat 14 - 48 - 31 N Long 100 - 27 - 09 E

Location : on left bank at Ban Bang Nam Chieo

	<b>Ban</b> Bang Nam Chieo	<b>Amphoe</b> Prom Buri	<b>Changwat</b> Sing Buri
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site		<b>Elevation</b> +10.460 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2012 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2012 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2012 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.62	0.78	0.60	0.43	2.18	2.31	0.72	0.89	0.82	0.82	0.68	
2	0.66	0.60	0.76	0.59	0.46	2.64	1.72	0.74	0.87	0.82	0.78	0.66	
3	0.68	0.69	0.69	0.60	0.53	3.20	1.41	0.79	0.83	0.75	0.65	0.74	
4	0.70	0.71	0.72	0.55	0.53	3.87	1.33	0.71	0.84	0.73	0.68	0.79	
5	0.76	0.70	0.76	0.66	0.55	4.37	2.11	0.64	0.75	0.74	0.76	0.80	
6	0.81	0.71	0.83	0.74	0.54	4.65	2.59	0.67	0.67	0.81	0.85	0.79	
7	0.84	0.71	0.80	0.69	0.48	4.96	1.91	0.63	0.63	0.78	0.91	0.72	
8	0.86	0.74	0.80	0.67	0.43	5.04	1.71	0.57	0.86	0.81	0.84	0.70	
9	0.87	0.76	0.80	0.63	0.49	5.11	1.75	0.63	0.88	0.86	0.78	0.66	
10	0.87	0.74	0.70	0.57	0.55	5.24	1.68	0.70	0.85	0.88	0.85	0.64	
11	0.82	0.80	0.72	0.54	0.58	5.18	1.54	0.68	0.87	0.93	0.96	0.67	
12	0.83	0.81	0.72	0.64	0.62	5.12	1.48	0.69	0.89	0.89	0.88	0.69	
13	0.83	0.83	0.72	0.74	0.59	5.06	1.35	0.80	0.85	0.90	0.89	0.72	
14	0.83	0.81	0.76	0.63	0.55	4.79	1.25	0.76	0.87	1.03	0.85	0.70	
15	0.76	0.81	0.77	0.55	0.52	4.64	1.22	0.83	0.82	0.98	0.73	0.70	
16	0.71	0.84	0.73	0.42	0.52	4.60	1.20	0.95	0.86	0.93	0.64	0.76	
17	0.67	0.85	0.63	0.46	0.57	4.55	1.17	0.82	0.82	0.74	0.63	0.83	
18	0.70	0.82	0.64	0.44	0.58	3.92	1.20	0.78	0.79	0.68	0.72	0.81	
19	0.79	0.82	0.66	0.49	0.55	3.20	1.88	0.81	0.73	0.75	0.92	0.77	
20	0.79	0.79	0.63	0.50	0.55	3.32	1.94	0.85	0.66	0.79	0.87	0.72	
21	0.79	0.73	0.66	0.53	0.57	3.64	1.60	0.88	0.69	0.81	0.80	0.65	
22	0.81	0.71	0.59	0.49	0.59	4.19	1.34	0.78	0.66	0.82	0.84	0.60	
23	0.80	0.71	0.56	0.44	0.59	4.58	1.16	0.69	0.69	0.88	0.83	0.60	
24	0.76	0.72	0.54	0.42	0.60	4.62	0.93	0.70	0.77	0.87	0.73	0.61	
25	0.81	0.62	0.46	0.39	0.62	4.72	0.79	0.75	0.81	0.89	0.80	0.67	
26	0.82	0.58	0.44	0.35	0.59	4.71	0.76	0.80	0.79	0.91	0.75	0.73	
27	0.75	0.57	0.39	0.46	0.62	4.51	0.81	0.80	0.72	0.73	0.67	0.66	
28	0.75	0.60	0.48	0.53	0.74	4.09	0.83	0.83	0.77	0.74	0.79	0.65	
29	0.69	0.65	0.65	0.52	0.87	3.47	0.84	0.85	0.87	0.68	0.80	0.67	
30	0.66	0.62	0.65	0.43	1.30	2.99	0.86	0.90	0.81	0.64	0.64	0.68	
31		0.64		0.41	1.77		0.82		0.78	0.65		0.69	
Mean	0.77	0.72	0.67	0.54	0.63	4.24	1.40	0.76	0.79	0.81	0.79	0.70	
Max	0.87	0.85	0.83	0.74	1.77	5.24	2.59	0.95	0.89	1.03	0.96	0.83	5.24
Min	0.66	0.57	0.39	0.35	0.43	2.18	0.76	0.57	0.63	0.64	0.63	0.60	0.35
Annual Max Momentary Gage Height	5.26												at 08.00 Hours , on Sep 10 , 2019
Zero Gage at Bottom Elevation	0.00						-2.46						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, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	90.00	80.40	99.60	78.00	62.70	290.80	311.60	92.40	112.80	104.40	104.40	87.60		
2	85.20	78.00	97.20	77.10	65.40	365.20	220.80	94.80	110.40	104.40	99.60	85.20		
3	87.60	88.80	88.80	78.00	71.70	470.00	177.40	100.80	105.60	96.00	84.00	94.80		
4	90.00	91.20	92.40	73.50	71.70	605.40	166.20	91.20	106.80	93.60	87.60	100.80		
5	97.20	90.00	97.20	85.20	73.50	715.40	279.60	82.80	96.00	94.80	97.20	102.00		
6	103.20	91.20	105.60	94.80	72.60	777.00	356.40	86.40	86.40	103.20	108.00	100.80		
7	106.80	91.20	102.00	88.80	67.20	847.80	247.60	81.60	81.60	99.60	115.20	92.40		
8	109.20	94.80	102.00	86.40	62.70	866.20	219.40	75.30	109.20	103.20	106.80	90.00		
9	110.40	97.20	102.00	81.60	68.10	882.30	225.00	81.60	111.60	109.20	99.60	85.20		
10	110.40	94.80	90.00	75.30	73.50	912.60	215.20	90.00	108.00	111.60	108.00	82.80		
11	104.40	102.00	92.40	72.60	76.20	898.40	195.60	87.60	110.40	117.60	121.20	86.40		
12	105.60	103.20	92.40	82.80	80.40	884.60	187.20	88.80	112.80	112.80	111.60	88.80		
13	105.60	105.60	92.40	94.80	77.10	870.80	169.00	102.00	108.00	114.00	112.80	92.40		
14	105.60	103.20	97.20	81.60	73.50	808.70	156.00	97.20	110.40	129.60	108.00	90.00		
15	97.20	103.20	98.40	73.50	70.80	774.80	152.40	105.60	104.40	123.60	93.60	90.00		
16	91.20	106.80	93.60	61.80	70.80	766.00	150.00	120.00	109.20	117.60	82.80	97.20		
17	86.40	108.00	81.60	65.40	75.30	755.00	146.40	104.40	104.40	94.80	81.60	105.60		
18	90.00	104.40	82.80	63.60	76.20	616.40	150.00	99.60	100.80	87.60	92.40	103.20		
19	100.80	104.40	85.20	68.10	73.50	470.00	243.20	103.20	93.60	96.00	116.40	98.40		
20	100.80	100.80	81.60	69.00	73.50	494.00	252.40	108.00	85.20	100.80	110.40	92.40		
21	100.80	93.60	85.20	71.70	75.30	558.00	204.00	111.60	88.80	103.20	102.00	84.00		
22	103.20	91.20	77.10	68.10	77.10	675.80	167.60	99.60	85.20	104.40	106.80	78.00		
23	102.00	91.20	74.40	63.60	77.10	761.60	145.20	88.80	88.80	111.60	105.60	78.00		
24	97.20	92.40	72.60	61.80	78.00	770.40	117.60	90.00	98.40	110.40	93.60	79.20		
25	103.20	80.40	65.40	59.10	80.40	792.60	100.80	96.00	103.20	112.80	102.00	86.40		
26	104.40	76.20	63.60	55.50	77.10	790.30	97.20	102.00	100.80	115.20	96.00	93.60		
27	96.00	75.30	59.10	65.40	80.40	746.20	103.20	102.00	92.40	93.60	86.40	85.20		
28	96.00	78.00	67.20	71.70	94.80	653.80	105.60	105.60	98.40	94.80	100.80	84.00		
29	88.80	84.00	84.00	70.80	110.40	524.00	106.80	108.00	110.40	87.60	102.00	86.40		
30	85.20	80.40	84.00	62.70	162.00	428.20	109.20	114.00	103.20	82.80		87.60		
31		82.80		60.90	227.80		104.40		99.60	84.00		88.80		
<b>Total</b>	2954.40	2864.70	2607.00	2263.20	2576.80	20772.30	5583.00	2910.90	3136.80	3214.80	2936.40	2797.20	54617.50	CMSDAY
<b>Mean</b>	98.48	92.41	86.90	73.01	83.12	692.41	180.10	97.03	101.19	103.70	101.26	90.23	149.23	CMS
<b>Max</b>	110.40	108.00	105.60	94.80	227.80	912.60	356.40	120.00	112.80	129.60	121.20	105.60	912.60	CMS
<b>Min</b>	85.20	75.30	59.10	55.50	62.70	290.80	97.20	75.30	81.60	82.80	81.60	78.00	55.50	CMS
<b>Runoff</b>	255.26	247.51	225.24	195.54	222.64	1794.73	482.37	251.50	271.02	277.76	253.70	241.68	4718.95	MCM
<b>Momentary Peak</b>	917.40	CMS.	at 5.26 m. (MSL.)	at 08.00 Hours	on Sep 10, 2019									
<b>Runoff Yield</b>	*****	Liters/Second/Square KM.			Momentary Peak Yield	*****	Liters/Second/Square KM.							

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Chaiyo, Ang Thong (C.46)

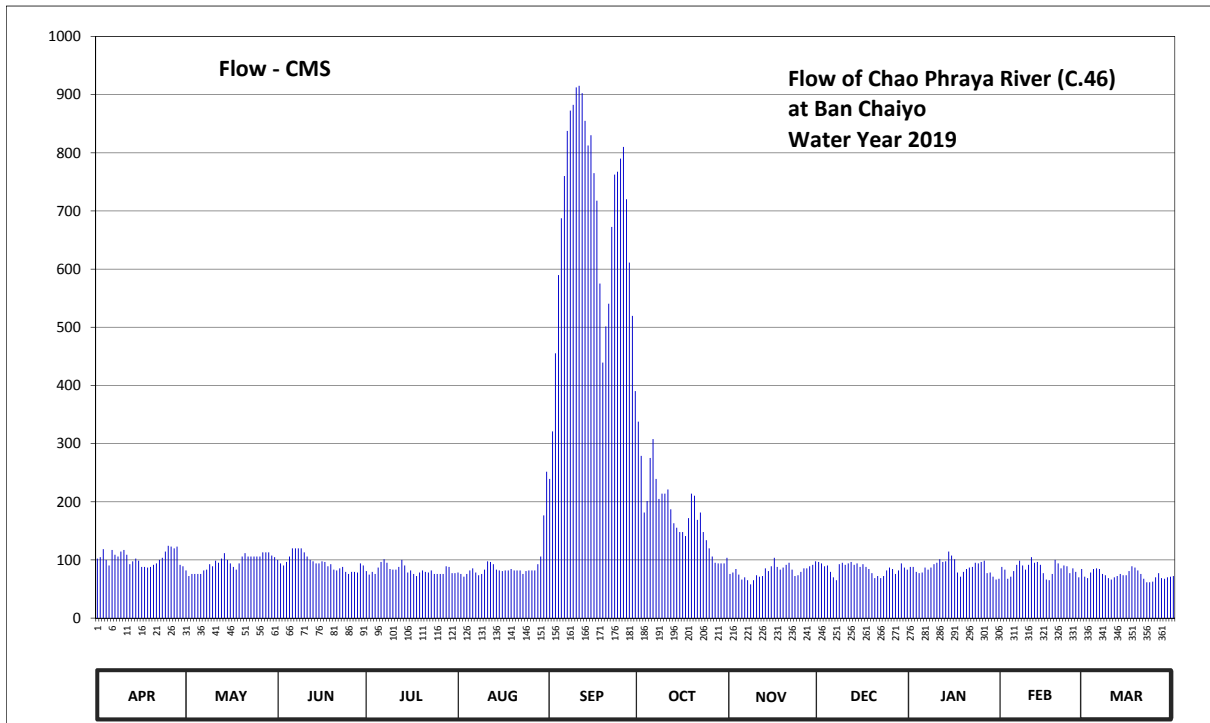
Lat 14 - 42 - 59 N Long 100 - 26 - 22 E

Location : on right bank at Ban Chaiyo

	<b>Ban Chaiyo</b>	<b>Amphoe Chaiyo</b>	<b>Changwat Ang Thong</b>
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site		<b>Elevation</b> +10.660 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2012 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2012 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2012 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.77	0.60	0.75	0.59	0.57	1.64	2.17	0.55	0.72	0.65	0.65	0.51	
2	0.79	0.52	0.70	0.54	0.55	2.09	1.86	0.57	0.70	0.65	0.61	0.49	
3	0.89	0.55	0.67	0.58	0.51	2.71	1.32	0.62	0.66	0.58	0.48	0.57	
4	0.75	0.55	0.72	0.55	0.55	3.29	1.43	0.54	0.67	0.56	0.51	0.62	
5	0.67	0.55	0.80	0.64	0.60	3.69	1.84	0.47	0.58	0.57	0.59	0.63	
6	0.88	0.55	0.90	0.72	0.63	3.98	2.02	0.50	0.50	0.64	0.68	0.62	
7	0.82	0.60	0.90	0.76	0.57	4.29	1.64	0.46	0.46	0.61	0.74	0.55	
8	0.80	0.61	0.90	0.71	0.53	4.43	1.45	0.40	0.69	0.64	0.67	0.53	
9	0.86	0.69	0.90	0.62	0.55	4.47	1.50	0.46	0.71	0.69	0.61	0.49	
10	0.88	0.66	0.85	0.61	0.61	4.59	1.50	0.53	0.68	0.71	0.68	0.47	
11	0.82	0.74	0.80	0.61	0.73	4.60	1.54	0.51	0.70	0.76	0.79	0.50	
12	0.69	0.71	0.75	0.65	0.72	4.55	1.35	0.52	0.72	0.72	0.71	0.52	
13	0.73	0.77	0.73	0.75	0.69	4.36	1.20	0.63	0.68	0.73	0.72	0.55	
14	0.77	0.84	0.70	0.67	0.61	4.19	1.15	0.59	0.70	0.86	0.68	0.53	
15	0.74	0.75	0.70	0.57	0.60	4.26	1.10	0.66	0.65	0.81	0.56	0.53	
16	0.65	0.70	0.73	0.60	0.59	4.00	1.10	0.78	0.69	0.76	0.47	0.59	
17	0.65	0.65	0.72	0.55	0.60	3.81	1.05	0.65	0.65	0.57	0.46	0.66	
18	0.64	0.61	0.66	0.52	0.60	3.23	1.26	0.61	0.62	0.51	0.55	0.64	
19	0.65	0.70	0.69	0.57	0.62	2.64	1.50	0.64	0.56	0.58	0.75	0.60	
20	0.68	0.80	0.61	0.60	0.60	2.91	1.48	0.68	0.49	0.62	0.70	0.55	
21	0.70	0.84	0.60	0.58	0.60	3.08	1.24	0.71	0.52	0.64	0.63	0.48	
22	0.75	0.80	0.63	0.57	0.60	3.63	1.32	0.61	0.49	0.65	0.67	0.43	
23	0.78	0.80	0.65	0.60	0.55	3.99	1.10	0.52	0.52	0.71	0.66	0.43	
24	0.86	0.80	0.58	0.55	0.59	4.01	1.00	0.53	0.60	0.70	0.56	0.44	
25	0.93	0.80	0.55	0.55	0.60	4.10	0.90	0.58	0.64	0.72	0.63	0.50	
26	0.92	0.80	0.58	0.55	0.60	4.18	0.80	0.63	0.62	0.74	0.58	0.56	
27	0.90	0.85	0.58	0.55	0.60	3.82	0.71	0.63	0.55	0.56	0.50	0.49	
28	0.92	0.85	0.57	0.66	0.69	3.38	0.70	0.66	0.60	0.57	0.62	0.48	
29	0.68	0.85	0.70	0.65	0.80	2.99	0.70	0.68	0.70	0.51	0.63	0.50	
30	0.66	0.81	0.67	0.56	1.29	2.42	0.70	0.73	0.64	0.47	0.47	0.51	
31		0.79		0.56	1.71		0.78		0.61	0.48		0.52	
Mean	0.77	0.71	0.71	0.61	0.67	3.64	1.27	0.59	0.62	0.64	0.62	0.53	
Max	0.93	0.85	0.90	0.76	1.71	4.60	2.17	0.78	0.72	0.86	0.79	0.66	4.60
Min	0.64	0.52	0.55	0.52	0.51	1.64	0.70	0.40	0.46	0.47	0.46	0.43	0.40
Annual Max Momentary Gage Height	4.60		m. (MSL.) ,			at 06.00 Hours , on Sep 10 , 2019							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed -3.95	m. (MSL.)						
Left Bank Elevation	10.66		m. (MSL.) ,										
Right Bank Elevation	10.37		m. (MSL.) ,			Drainage Area	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	102.40	82.00	100.00	80.80	78.40	239.20	337.70	76.00	96.40	88.00	88.00	71.20		
2	104.80	72.40	94.00	74.80	76.00	321.10	278.80	78.40	94.00	88.00	83.20	68.80		
3	118.60	76.00	90.40	79.60	71.20	455.30	181.60	84.40	89.20	79.60	67.60	78.40		
4	100.00	76.00	96.40	76.00	76.00	589.60	201.40	74.80	90.40	77.20	71.20	84.40		
5	90.40	76.00	106.00	86.80	82.00	687.50	275.20	66.40	79.60	78.40	80.80	85.60		
6	117.20	76.00	120.00	96.40	85.60	760.00	307.80	70.00	70.00	86.80	91.60	84.40		
7	108.80	82.00	120.00	101.20	78.40	837.50	239.20	65.20	65.20	83.20	98.80	76.00		
8	106.00	83.20	120.00	95.20	73.60	872.50	205.00	58.00	92.80	86.80	90.40	73.60		
9	114.40	92.80	120.00	84.40	76.00	882.50	214.00	65.20	95.20	92.80	83.20	68.80		
10	117.20	89.20	113.00	83.20	83.20	912.50	214.00	73.60	91.60	95.20	91.60	66.40		
11	108.80	98.80	106.00	83.20	97.60	915.00	221.20	71.20	94.00	101.20	104.80	70.00		
12	92.80	95.20	100.00	88.00	96.40	902.50	187.00	72.40	96.40	96.40	95.20	72.40		
13	97.60	102.40	97.60	100.00	92.80	855.00	163.00	85.60	91.60	97.60	96.40	76.00		
14	102.40	111.60	94.00	90.40	83.20	812.50	155.50	80.80	94.00	114.40	91.60	73.60		
15	98.80	100.00	94.00	78.40	82.00	830.00	148.00	89.20	88.00	107.40	77.20	73.60		
16	88.00	94.00	97.60	82.00	80.80	765.00	148.00	103.60	92.80	101.20	66.40	80.80		
17	88.00	88.00	96.40	76.00	82.00	717.50	141.00	88.00	88.00	78.40	65.20	89.20		
18	86.80	83.20	89.20	72.40	82.00	575.20	172.00	83.20	84.40	71.20	76.00	86.80		
19	88.00	94.00	92.80	78.40	84.40	439.20	214.00	86.80	77.20	79.60	100.00	82.00		
20	91.60	106.00	83.20	82.00	82.00	501.30	210.40	91.60	68.80	84.40	94.00	76.00		
21	94.00	111.60	82.00	79.60	82.00	540.40	169.00	95.20	72.40	86.80	85.60	67.60		
22	100.00	106.00	85.60	78.40	82.00	672.50	181.60	83.20	68.80	88.00	90.40	61.60		
23	103.60	106.00	88.00	82.00	76.00	762.50	148.00	72.40	72.40	95.20	89.20	61.60		
24	114.40	106.00	79.60	76.00	80.80	767.50	134.00	73.60	82.00	94.00	77.20	62.80		
25	124.20	106.00	76.00	76.00	82.00	790.00	120.00	79.60	86.80	96.40	85.60	70.00		
26	122.80	106.00	79.60	76.00	82.00	810.00	106.00	85.60	84.40	98.80	79.60	77.20		
27	120.00	113.00	79.60	76.00	82.00	720.00	95.20	85.60	76.00	77.20	70.00	68.80		
28	122.80	113.00	78.40	89.20	92.80	611.20	94.00	89.20	82.00	78.40	84.40	67.60		
29	91.60	113.00	94.00	88.00	106.00	519.70	94.00	91.60	94.00	71.20	85.60	70.00		
30	89.20	107.40	90.40	77.20	176.50	390.20	94.00	97.60	86.80	66.40		71.20		
31		104.80		77.20	251.80		103.60		83.20	67.60		72.40		
Total	3105.20	2971.60	2863.80	2564.80	2837.50	20454.90	5554.20	2418.00	2628.40	2707.80	2460.80	2288.80	52855.80	CMSDAY
Mean	103.51	95.86	95.46	82.74	91.53	681.83	179.17	80.60	84.79	87.35	84.86	73.83	144.41	CMS
Max	124.20	113.00	120.00	101.20	251.80	915.00	337.70	103.60	96.40	114.40	104.80	89.20	915.00	CMS
Min	86.80	72.40	76.00	72.40	71.20	239.20	94.00	58.00	65.20	66.40	65.20	61.60	58.00	CMS
Runoff	268.29	256.75	247.43	221.60	245.16	1767.30	479.88	208.92	227.09	233.95	212.61	197.75	4566.74	MCM
Momentary Peak	915.00 CMS. at 4.60 m. (MSL.) at 06.00 Hours , on Sep 10 , 2019													
Runoff Yield	***** Liters/Second/Square KM.			Momentary Peak Yield				***** Liters/Second/Square KM.						

## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Ban Pa Mok, Ang Thong (C.47)

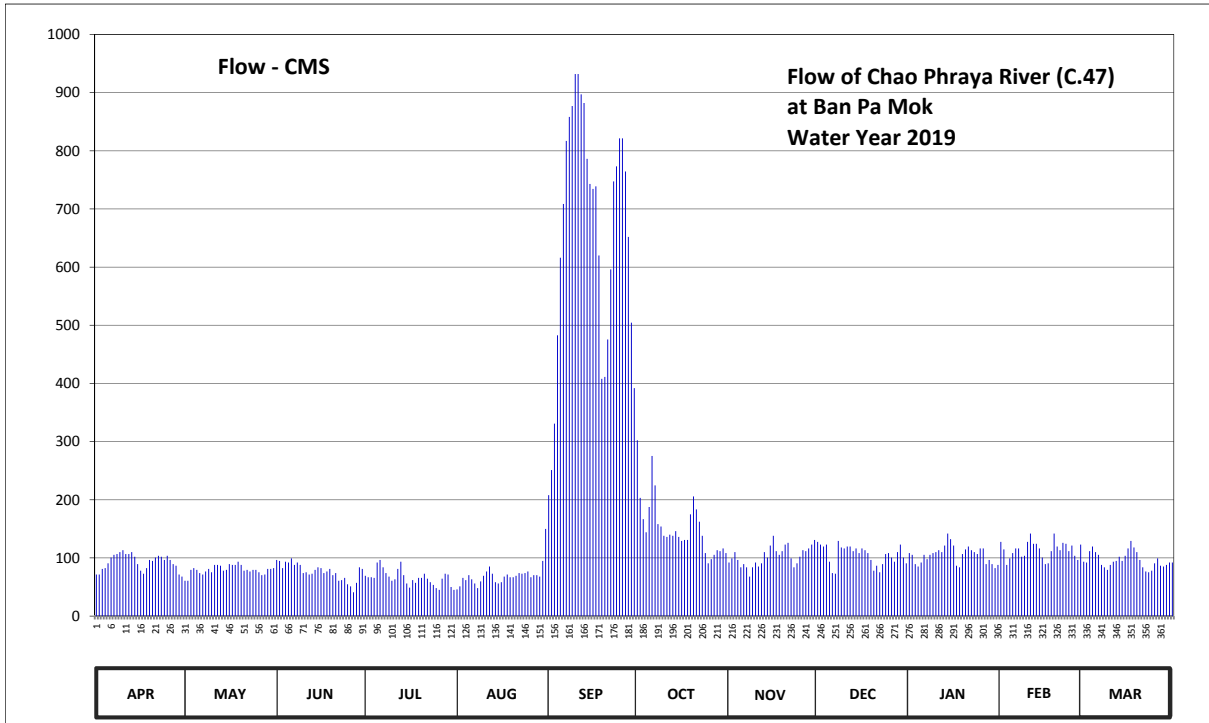
Lat 14 - 30 - 54 N Long 100 - 27 - 59 E

Location : on right bank at Ban Pa Mok

	Ban Pa Mok	Amphoe Pa Mok	Changwat Ang Thong
<b>Drainage Area</b>	Flood Plain		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site	<b>Elevation</b>	+10.850 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2012 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2012 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2012 to date		
<b>Stability of Channel Regimes</b>	Fairly stable		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	0.79	1.06	0.86	0.66	1.65	2.04	1.03	1.26	1.14	1.26	1.04	
2	0.88	0.79	1.05	0.84	0.71	1.83	1.63	1.08	1.23	1.12	1.18	1.03	
3	0.95	0.94	0.96	0.84	0.83	2.15	1.46	1.15	1.21	1.01	1.00	1.16	
4	0.96	0.96	1.04	0.83	0.80	2.63	1.35	1.06	1.23	0.98	1.08	1.21	
5	1.02	0.94	1.03	1.03	0.87	2.99	1.56	0.97	1.04	1.03	1.14	1.15	
6	1.09	0.90	1.08	1.06	0.81	3.22	1.93	1.01	0.90	1.12	1.19	1.12	
7	1.12	0.88	1.00	0.97	0.75	3.47	1.72	0.97	0.89	1.07	1.19	1.00	
8	1.13	0.92	1.03	0.90	0.68	3.56	1.42	0.85	1.27	1.12	1.10	0.97	
9	1.15	0.95	1.00	0.85	0.78	3.60	1.40	0.97	1.20	1.14	1.11	0.94	
10	1.17	0.91	0.90	0.79	0.86	3.71	1.32	1.03	1.19	1.15	1.26	1.00	
11	1.13	1.00	0.91	0.81	0.92	3.71	1.31	0.98	1.21	1.17	1.34	1.04	
12	1.13	1.00	0.88	0.95	0.98	3.64	1.33	1.02	1.21	1.15	1.24	1.05	
13	1.15	0.99	0.89	1.04	0.89	3.61	1.32	1.15	1.16	1.22	1.24	1.10	
14	1.10	0.93	0.94	0.87	0.77	3.40	1.36	1.09	1.19	1.34	1.19	1.05	
15	1.01	0.94	0.97	0.75	0.75	3.30	1.31	1.22	1.14	1.29	1.09	1.11	
16	0.93	1.01	0.96	0.69	0.77	3.28	1.27	1.32	1.19	1.22	1.01	1.19	
17	0.89	1.00	0.90	0.80	0.85	3.29	1.28	1.16	1.17	0.99	1.02	1.27	
18	0.96	1.00	0.92	0.76	0.88	3.00	1.28	1.12	1.14	0.97	1.16	1.20	
19	1.06	1.04	0.95	0.83	0.84	2.40	1.50	1.16	1.06	1.13	1.34	1.15	
20	1.05	1.00	0.87	0.83	0.84	2.41	1.64	1.23	0.93	1.18	1.21	1.06	
21	1.09	0.93	0.90	0.89	0.86	2.61	1.54	1.25	0.99	1.21	1.17	0.97	
22	1.11	0.94	0.79	0.82	0.90	2.94	1.44	1.08	0.91	1.17	1.25	0.92	
23	1.10	0.92	0.80	0.77	0.89	3.31	1.32	0.97	1.01	1.15	1.24	0.91	
24	1.06	0.94	0.83	0.73	0.90	3.37	1.14	1.02	1.13	1.13	1.16	0.93	
25	1.11	0.94	0.74	0.68	0.92	3.48	1.02	1.10	1.14	1.19	1.22	1.02	
26	1.06	0.91	0.71	0.65	0.84	3.48	1.07	1.17	1.09	1.19	1.11	1.08	
27	1.01	0.87	0.61	0.82	0.87	3.35	1.12	1.16	1.04	1.01	1.06	0.99	
28	0.99	0.88	0.76	0.89	0.87	3.08	1.17	1.19	1.15	1.06	1.23	0.98	
29	0.88	0.95	0.97	0.88	0.85	2.69	1.16	1.23	1.23	1.01	1.17	1.00	
30	0.85	0.95	0.95	0.70	1.05	2.35	1.19	1.28	1.09	0.96		1.03	
31		0.96		0.65	1.38		1.14		1.02	1.00		1.03	
Mean	1.03	0.94	0.91	0.83	0.86	3.05	1.38	1.10	1.12	1.12	1.17	1.05	
Max	1.17	1.04	1.08	1.06	1.38	3.71	2.04	1.32	1.27	1.34	1.34	1.27	3.71
Min	0.85	0.79	0.61	0.65	0.66	1.65	1.02	0.85	0.89	0.96	1.00	0.91	0.61
Annual Max Momentary Gage Height	3.79		m. (MSL.) ,				at 02.00 Hours , on Sep 11 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -11.11 m. (MSL.)						
Left Bank Elevation	10.04		m. (MSL.) ,										
Right Bank Elevation	10.85		m. (MSL.) ,				Drainage Area						Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	71.60	60.80	96.40	69.20	46.00	208.00	302.40	92.20	127.60	108.40	127.60	93.60		
2	71.60	60.80	95.00	66.80	51.20	251.20	203.20	99.20	122.80	105.20	114.80	92.20		
3	81.00	79.60	82.40	66.80	65.60	331.00	166.60	110.00	119.60	89.40	88.00	111.60		
4	82.40	82.40	93.60	65.60	62.00	482.80	144.00	96.40	122.80	85.20	99.20	119.60		
5	90.80	79.60	92.20	92.20	70.40	616.00	187.60	83.80	93.60	92.20	108.40	110.00		
6	100.60	74.00	99.20	96.40	63.20	708.60	275.20	89.40	74.00	105.20	116.40	105.20		
7	105.20	71.60	88.00	83.80	56.00	816.80	224.80	83.80	72.80	97.80	116.40	88.00		
8	106.80	76.80	92.20	74.00	48.00	858.20	158.20	68.00	129.20	105.20	102.00	83.80		
9	110.00	81.00	88.00	68.00	59.60	877.00	154.00	83.80	118.00	108.40	103.60	79.60		
10	113.20	75.40	74.00	60.80	69.20	932.00	138.00	92.20	116.40	110.00	127.60	88.00		
11	106.80	88.00	75.40	63.20	76.80	932.00	136.00	85.20	119.60	113.20	142.00	93.60		
12	106.80	88.00	71.60	81.00	85.20	897.00	140.00	90.80	119.60	110.00	124.40	95.00		
13	110.00	86.60	72.80	93.60	72.80	882.00	138.00	110.00	111.60	121.20	124.40	102.00		
14	102.00	78.20	79.60	70.40	58.40	786.00	146.00	100.60	116.40	142.00	116.40	95.00		
15	89.40	79.60	83.80	56.00	56.00	743.00	136.00	121.20	108.40	132.40	100.60	103.60		
16	78.20	89.40	82.40	49.00	58.40	734.40	129.20	138.00	116.40	121.20	89.40	116.40		
17	72.80	88.00	74.00	62.00	68.00	738.70	130.80	111.60	113.20	86.60	90.80	129.20		
18	82.40	88.00	76.80	57.20	71.60	620.00	130.80	105.20	108.40	83.80	111.60	118.00		
19	96.40	93.60	81.00	65.60	66.80	408.00	175.00	111.60	96.40	106.80	142.00	110.00		
20	95.00	88.00	70.40	65.60	66.80	411.20	205.60	122.80	78.20	114.80	119.60	96.40		
21	100.60	78.20	74.00	72.80	69.20	475.60	183.40	126.00	86.60	119.60	113.20	83.80		
22	103.60	79.60	60.80	64.40	74.00	596.00	162.40	99.20	75.40	113.20	126.00	76.80		
23	102.00	76.80	62.00	58.40	72.80	747.30	138.00	83.80	89.40	110.00	124.40	75.40		
24	96.40	79.60	65.60	53.60	74.00	773.10	108.40	90.80	106.80	106.80	111.60	78.20		
25	103.60	79.60	54.80	48.00	76.80	821.20	90.80	102.00	108.40	116.40	121.20	90.80		
26	96.40	75.40	51.20	45.00	66.80	821.20	97.80	113.20	100.60	116.40	103.60	99.20		
27	89.40	70.40	41.00	64.40	70.40	764.50	105.20	111.60	93.60	89.40	96.40	86.60		
28	86.60	71.60	57.20	72.80	70.40	652.00	113.20	116.40	110.00	96.40	122.80	85.20		
29	71.60	81.00	83.80	71.60	68.00	504.40	111.60	122.80	122.80	89.40	113.20	88.00		
30	68.00	81.00	81.00	50.00	95.00	392.00	116.40	130.80	100.60	82.40		92.20		
31		82.40		45.00	150.00		108.40		90.80	88.00		92.20		
Total	2791.20	2465.00	2300.20	2053.20	2159.40	19781.20	4757.00	3092.40	3270.00	3267.00	3297.60	2979.20	52213.40	CMSDAY
Mean	93.04	79.52	76.67	66.23	69.66	659.37	153.45	103.08	105.48	105.39	113.71	96.10	142.66	CMS
Max	113.20	93.60	99.20	96.40	150.00	932.00	302.40	138.00	129.20	142.00	142.00	129.20	932.00	CMS
Min	68.00	60.80	41.00	45.00	46.00	208.00	90.80	68.00	72.80	82.40	88.00	75.40	41.00	CMS
Runoff	241.16	212.98	198.74	177.40	186.57	1709.10	411.00	267.18	282.53	282.27	284.91	257.40	4511.24	MCM
Momentary Peak		972.00	CMS.	at 3.79 m. (MSL.)	at 02.00 Hours ,	on Sep 11 ,	2019							
Runoff Yield		*****	Liters/Second/Square KM.		Momentary Peak Yield	*****	Liters/Second/Square KM.							

**WATER YEAR : 2019****CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Tha Nam Ooy, Nakhon Sawan (C.56)**

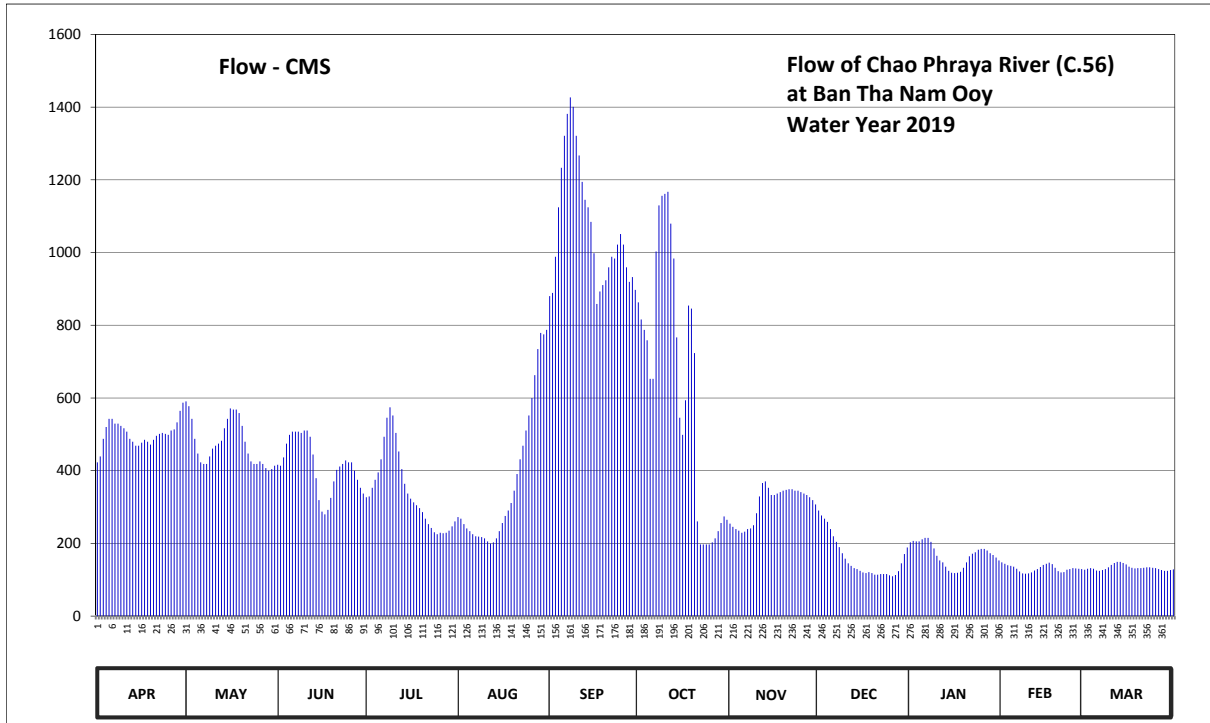
Lat 15 - 25 - 13 N Long 100 - 08 - 08 E

Location : on left bank at Ban Tha Nam Ooy

	<b>Ban</b>	<b>Tha Nam Ooy</b>	<b>Amphoe</b>	<b>Phayuha Khiti</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	Flood Plain					
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the bridge				<b>Elevation</b>	+21.898 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings					
<b>Period of Available Gage Records</b>	2008 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2008 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2008 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow					
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.40	15.97	15.37	14.96	14.65	16.74	16.70	14.53	14.77	14.15	13.67	13.46	
2	15.46	15.93	15.36	14.97	14.62	16.76	16.59	14.47	14.68	14.18	13.63	13.49	
3	15.64	15.82	15.45	15.09	14.52	16.98	16.52	14.43	14.62	14.17	13.59	13.51	
4	15.75	15.64	15.59	15.19	14.44	17.26	16.45	14.40	14.56	14.17	13.57	13.49	
5	15.82	15.49	15.68	15.28	14.39	17.46	16.16	14.36	14.43	14.22	13.55	13.44	
6	15.82	15.40	15.71	15.43	14.33	17.61	16.16	14.38	14.29	14.25	13.49	13.43	
7	15.78	15.38	15.71	15.66	14.29	17.71	17.01	14.43	14.16	14.25	13.41	13.45	
8	15.78	15.38	15.71	15.83	14.28	17.78	17.27	14.44	14.04	14.16	13.35	13.48	
9	15.76	15.46	15.70	15.92	14.27	17.74	17.32	14.50	13.90	14.01	13.34	13.53	
10	15.74	15.54	15.72	15.85	14.24	17.61	17.33	14.72	13.77	13.84	13.35	13.60	
11	15.71	15.57	15.72	15.70	14.17	17.52	17.34	14.97	13.64	13.72	13.38	13.65	
12	15.64	15.59	15.66	15.51	14.12	17.39	17.17	15.15	13.57	13.67	13.44	13.68	
13	15.61	15.62	15.48	15.32	14.15	17.30	16.97	15.17	13.51	13.55	13.48	13.68	
14	15.57	15.74	15.21	15.14	14.24	17.26	16.47	15.09	13.48	13.43	13.54	13.65	
15	15.57	15.82	14.92	15.01	14.39	17.18	15.83	14.99	13.43	13.37	13.60	13.61	
16	15.60	15.91	14.75	14.94	14.54	17.00	15.68	14.99	13.38	13.36	13.63	13.55	
17	15.63	15.90	14.70	14.89	14.67	16.69	15.98	15.01	13.36	13.37	13.66	13.52	
18	15.61	15.90	14.78	14.85	14.77	16.77	16.68	15.03	13.39	13.40	13.62	13.50	
19	15.58	15.87	14.95	14.81	14.88	16.81	16.66	15.05	13.36	13.52	13.52	13.51	
20	15.63	15.76	15.17	14.74	15.05	16.84	16.36	15.06	13.31	13.67	13.42	13.51	
21	15.67	15.61	15.31	14.62	15.26	16.92	14.57	15.07	13.31	13.83	13.38	13.52	
22	15.69	15.49	15.35	14.52	15.43	16.98	14.10	15.07	13.33	13.89	13.39	13.53	
23	15.70	15.41	15.38	14.45	15.57	16.97	14.10	15.05	13.33	13.92	13.46	13.53	
24	15.69	15.38	15.42	14.37	15.72	17.05	14.10	15.05	13.33	13.98	13.48	13.52	
25	15.68	15.38	15.40	14.33	15.85	17.11	14.10	15.03	13.29	14.00	13.51	13.51	
26	15.72	15.41	15.40	14.36	16.00	17.05	14.15	15.01	13.26	14.00	13.50	13.48	
27	15.73	15.38	15.30	14.35	16.19	16.92	14.24	14.99	13.30	13.96	13.49	13.45	
28	15.79	15.33	15.19	14.36	16.39	16.83	14.39	14.96	13.42	13.90	13.48	13.43	
29	15.89	15.30	15.09	14.40	16.50	16.86	14.54	14.92	13.64	13.86	13.47	13.43	
30	15.96	15.32	15.01	14.48	16.49	16.78	14.66	14.86	13.88	13.80		13.45	
31		15.36		14.57	16.52		14.60		14.03	13.72		13.47	
Mean	15.69	15.58	15.34	14.96	15.00	17.13	15.81	14.84	13.73	13.85	13.50	13.52	
Max	15.96	15.97	15.72	15.92	16.52	17.78	17.34	15.17	14.77	14.25	13.67	13.68	17.78
Min	15.40	15.30	14.70	14.33	14.12	16.69	14.10	14.36	13.26	13.36	13.34	13.43	13.26
Annual Max Momentary Gage Height	17.79		m. (MSL.) ,				at 11.00 Hours ,						
							on Sep 8 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.90	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, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	423.00	590.40	416.10	327.00	272.50	880.20	863.00	254.50	290.50	203.00	148.00	127.40		
2	439.20	577.60	413.80	329.00	268.00	888.80	815.90	245.50	277.00	206.60	144.00	130.10		
3	487.80	542.40	436.50	353.00	253.00	988.40	787.20	239.50	268.00	205.40	140.00	132.00		
4	520.00	487.80	474.30	374.80	241.00	1124.60	758.50	235.00	259.00	205.40	138.00	130.10		
5	542.40	447.30	498.60	395.40	233.60	1233.00	652.80	229.40	239.50	211.40	136.00	125.60		
6	542.40	423.00	507.20	431.10	225.20	1321.00	652.80	232.20	219.80	215.00	130.10	124.70		
7	529.60	418.40	507.20	493.20	219.80	1381.50	1002.80	239.50	204.20	215.00	122.90	126.50		
8	529.60	418.40	507.20	545.60	218.60	1427.00	1129.70	241.00	189.80	204.20	117.50	129.20		
9	523.20	439.20	504.00	574.40	217.40	1401.00	1156.00	250.00	173.00	186.20	116.60	134.00		
10	516.80	460.80	510.40	552.00	213.80	1321.00	1161.50	283.00	158.00	165.80	117.50	141.00		
11	507.20	468.90	510.40	504.00	205.40	1267.00	1167.00	329.00	145.00	153.00	120.20	146.00		
12	487.80	474.30	493.20	452.70	199.40	1194.50	1079.60	366.00	138.00	148.00	125.60	149.00		
13	479.70	482.40	444.60	404.60	203.00	1145.00	983.60	370.40	132.00	136.00	129.20	149.00		
14	468.90	516.80	379.30	363.80	213.80	1124.60	766.70	353.00	129.20	124.70	135.00	146.00		
15	468.90	542.40	319.00	337.00	233.60	1084.40	545.60	333.00	124.70	119.30	141.00	142.00		
16	477.00	571.20	287.50	323.00	256.00	998.00	498.60	333.00	120.20	118.40	144.00	136.00		
17	485.10	568.00	280.00	313.00	275.50	858.70	593.60	337.00	118.40	119.30	147.00	133.00		
18	479.70	568.00	292.00	305.00	290.50	893.10	854.40	341.00	121.10	122.00	143.00	131.00		
19	471.60	558.40	325.00	297.00	311.00	910.40	845.80	345.00	118.40	133.00	133.00	132.00		
20	485.10	523.20	370.40	286.00	345.00	923.60	723.60	347.00	113.90	148.00	123.80	132.00		
21	495.90	479.70	402.30	268.00	390.80	959.60	260.50	349.00	113.90	164.60	120.20	133.00		
22	501.30	447.30	411.50	253.00	431.10	988.40	197.00	349.00	115.70	171.80	121.10	134.00		
23	504.00	425.70	418.40	242.50	468.90	983.60	197.00	345.00	115.70	175.40	127.40	134.00		
24	501.30	418.40	428.40	230.80	510.40	1022.00	197.00	345.00	115.70	182.60	129.20	133.00		
25	498.60	418.40	423.00	225.20	552.00	1050.80	197.00	341.00	112.10	185.00	132.00	132.00		
26	510.40	425.70	423.00	229.40	600.00	1022.00	203.00	337.00	109.40	185.00	131.00	129.20		
27	513.60	418.40	400.00	228.00	662.70	959.60	213.80	333.00	113.00	180.20	130.10	126.50		
28	532.80	406.90	374.80	229.40	734.40	919.20	233.60	327.00	123.80	173.00	129.20	124.70		
29	564.80	400.00	353.00	235.00	779.00	932.40	256.00	319.00	145.00	168.20	128.30	124.70		
30	587.20	404.60	337.00	247.00	774.90	897.40	274.00	307.00	170.60	161.00	126.50	126.50		
31	413.80			260.50	787.20		265.00		188.60	153.00		128.30		
<b>Total</b>	<b>15074.90</b>	<b>14737.80</b>	<b>12448.10</b>	<b>10610.40</b>	<b>11587.50</b>	<b>32100.80</b>	<b>19532.60</b>	<b>9256.00</b>	<b>4963.20</b>	<b>5239.50</b>	<b>3800.90</b>	<b>4122.50</b>	<b>143474.20</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>502.50</b>	<b>475.41</b>	<b>414.94</b>	<b>342.27</b>	<b>373.79</b>	<b>1070.03</b>	<b>630.08</b>	<b>308.53</b>	<b>160.10</b>	<b>169.02</b>	<b>131.07</b>	<b>132.98</b>	<b>392.01</b>	<b>CMS</b>
<b>Max</b>	<b>587.20</b>	<b>590.40</b>	<b>510.40</b>	<b>574.40</b>	<b>787.20</b>	<b>1427.00</b>	<b>1167.00</b>	<b>370.40</b>	<b>290.50</b>	<b>215.00</b>	<b>148.00</b>	<b>149.00</b>	<b>1427.00</b>	<b>CMS</b>
<b>Min</b>	<b>423.00</b>	<b>400.00</b>	<b>280.00</b>	<b>225.20</b>	<b>199.40</b>	<b>858.70</b>	<b>197.00</b>	<b>229.40</b>	<b>109.40</b>	<b>118.40</b>	<b>116.60</b>	<b>124.70</b>	<b>109.40</b>	<b>CMS</b>
<b>Runoff</b>	<b>1302.47</b>	<b>1273.35</b>	<b>1075.52</b>	<b>916.74</b>	<b>1001.16</b>	<b>2773.51</b>	<b>1687.62</b>	<b>799.72</b>	<b>428.82</b>	<b>452.69</b>	<b>328.40</b>	<b>356.18</b>	<b>12396.17</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>1433.50</b>	<b>CMS.</b>	<b>at 17.79 m. (MSL.)</b>	<b>at 11.00 Hours</b>	<b>on Sep 8, 2019</b>									
<b>Runoff Yield</b>	<b>*****</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>*****</b>	<b>Liters/Second/Square KM.</b>							



## WATER YEAR : 2019

## CHAO PHRAYA RIVER BASIN

## Chao Phraya River at Amphoe Sapphaya ,Chainat (C.66)

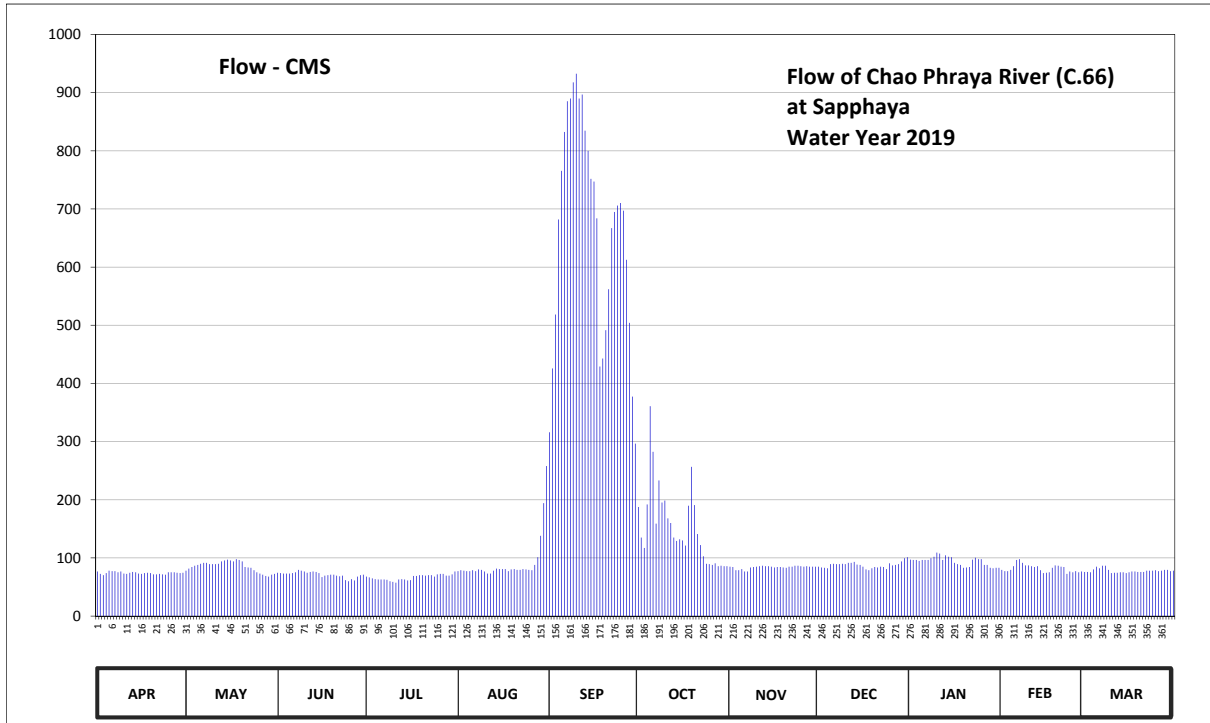
Lat 15 - 06 - 32 N Long 100 - 16 - 04 E

Location : on right bank at Amphoe Sapphaya.

	Ban -	Amphoe Sapphaya	Changwat	Chai Nat
<b>Drainage Area</b>	Flood Plain			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On right bank at the bridge		<b>Elevation</b>	+15.164 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2017 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2017 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	2017 to date			
<b>Stability of Channel Regimes</b>	Fairly stable.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.71	4.73	4.68	4.58	4.72	6.94	5.96	4.83	4.83	4.99	4.75	4.70	
2	4.65	4.78	4.67	4.56	4.74	7.64	5.44	4.82	4.81	4.98	4.72	4.70	
3	4.62	4.82	4.66	4.53	4.73	8.17	5.24	4.74	4.80	4.98	4.72	4.69	
4	4.67	4.85	4.66	4.51	4.72	8.98	6.00	4.74	4.79	4.96	4.75	4.76	
5	4.73	4.87	4.66	4.50	4.72	9.35	7.24	4.77	4.89	4.98	4.84	4.83	
6	4.72	4.90	4.67	4.50	4.74	9.64	6.71	4.71	4.90	4.98	4.98	4.79	
7	4.72	4.92	4.69	4.50	4.72	9.87	5.68	4.71	4.89	4.98	5.00	4.85	
8	4.69	4.92	4.75	4.49	4.76	9.89	6.34	4.81	4.89	5.02	4.92	4.85	
9	4.71	4.89	4.73	4.45	4.75	10.01	6.03	4.82	4.90	5.05	4.86	4.75	
10	4.66	4.89	4.71	4.43	4.71	10.07	6.06	4.83	4.89	5.14	4.86	4.67	
11	4.65	4.89	4.68	4.41	4.66	9.89	5.77	4.84	4.92	5.12	4.84	4.68	
12	4.68	4.90	4.70	4.50	4.66	9.92	5.69	4.85	4.92	4.98	4.82	4.68	
13	4.70	4.95	4.71	4.51	4.73	9.65	5.44	4.84	4.94	5.08	4.84	4.69	
14	4.69	4.97	4.70	4.50	4.78	9.50	5.38	4.84	4.88	5.05	4.74	4.69	
15	4.66	4.99	4.67	4.47	4.77	9.29	5.41	4.83	4.87	5.04	4.67	4.67	
16	4.65	4.97	4.57	4.48	4.77	9.27	5.39	4.81	4.83	4.92	4.68	4.69	
17	4.67	4.95	4.61	4.60	4.77	8.99	5.29	4.82	4.76	4.89	4.69	4.71	
18	4.68	5.00	4.62	4.60	4.72	7.66	5.98	4.82	4.74	4.87	4.80	4.71	
19	4.67	4.98	4.63	4.62	4.76	7.74	6.52	4.81	4.79	4.80	4.86	4.70	
20	4.64	4.95	4.63	4.62	4.77	8.02	5.99	4.80	4.82	4.81	4.85	4.70	
21	4.64	4.82	4.61	4.61	4.75	8.40	5.50	4.83	4.81	4.82	4.83	4.70	
22	4.65	4.81	4.59	4.62	4.75	8.91	5.30	4.83	4.83	4.99	4.82	4.73	
23	4.64	4.80	4.61	4.62	4.77	9.04	5.06	4.85	4.82	5.03	4.65	4.73	
24	4.63	4.74	4.48	4.58	4.76	9.09	4.90	4.85	4.77	5.00	4.71	4.73	
25	4.69	4.69	4.45	4.64	4.75	9.11	4.89	4.84	4.91	5.00	4.69	4.74	
26	4.69	4.66	4.51	4.65	4.74	9.05	4.87	4.83	4.86	4.87	4.72	4.72	
27	4.69	4.63	4.47	4.65	4.87	8.65	4.91	4.84	4.87	4.87	4.69	4.73	
28	4.68	4.60	4.58	4.61	5.04	8.09	4.84	4.83	4.89	4.80	4.71	4.75	
29	4.67	4.58	4.62	4.61	5.47	7.35	4.85	4.83	4.95	4.79	4.69	4.75	
30	4.68	4.63	4.63	4.64	6.02	6.81	4.84	4.83	5.02	4.80	4.72	4.72	
31		4.65		4.71	6.53		4.84		5.04	4.80	4.73		
Mean	4.67	4.83	4.63	4.56	4.88	8.83	5.56	4.81	4.87	4.95	4.78	4.73	
Max	4.73	5.00	4.75	4.71	6.53	10.07	7.24	4.85	5.04	5.14	5.00	4.85	10.07
Min	4.62	4.58	4.45	4.41	4.66	6.81	4.84	4.71	4.74	4.79	4.65	4.67	4.41
Annual Max Momentary Gage Height	10.16		m. (MSL.) ,				at 17.00 Hours , on Sep 9 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.44	m. (MSL.)					
Left Bank Elevation		15.42		m. (MSL.) ,									
Right Bank Elevation		15.70		m. (MSL.) ,		Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	76.70	78.10	74.60	67.80	77.40	316.00	187.60	85.10	85.10	97.20	79.50	76.00		
2	72.50	81.60	73.90	66.60	78.80	425.80	135.00	84.40	83.70	96.40	77.40	76.00		
3	70.40	84.40	73.20	64.80	78.10	518.60	117.20	78.80	83.00	96.40	77.40	75.30		
4	73.90	86.50	73.20	63.60	77.40	681.80	192.00	78.80	82.30	94.80	79.50	80.20		
5	78.10	87.90	73.20	63.00	77.40	765.50	361.00	80.90	89.30	96.40	85.80	85.10		
6	77.40	90.00	73.90	63.00	78.80	832.20	282.40	76.70	90.00	96.40	96.40	82.30		
7	77.40	91.60	75.30	63.00	77.40	885.10	159.00	76.70	89.30	96.40	98.00	86.50		
8	75.30	91.60	79.50	62.40	80.20	889.70	233.20	83.70	89.30	99.60	91.60	86.50		
9	76.70	89.30	78.10	60.00	79.50	917.50	195.30	84.40	90.00	102.00	87.20	79.50		
10	73.20	89.30	76.70	58.80	76.70	932.50	198.60	85.10	89.30	109.20	87.20	73.90		
11	72.50	89.30	74.60	57.60	73.20	889.70	168.00	85.80	91.60	107.60	85.80	74.60		
12	74.60	90.00	76.00	63.00	73.20	896.60	160.00	86.50	91.60	96.40	84.40	74.60		
13	76.00	94.00	76.70	63.60	78.10	834.50	135.00	85.80	93.20	104.40	85.80	75.30		
14	75.30	95.60	76.00	63.00	81.60	800.00	129.20	85.80	88.60	102.00	78.80	75.30		
15	73.20	97.20	73.90	61.20	80.90	751.70	132.00	85.10	87.90	101.20	73.90	73.90		
16	72.50	95.60	67.20	61.80	80.90	747.10	130.10	83.70	85.10	91.60	74.60	75.30		
17	73.90	94.00	69.70	69.00	80.90	683.90	121.20	84.40	80.20	89.30	75.30	76.70		
18	74.60	98.00	70.40	69.00	77.40	429.20	189.80	84.40	78.80	87.90	83.00	76.70		
19	73.90	96.40	71.10	70.40	80.20	442.80	256.60	83.70	82.30	83.00	87.20	76.00		
20	71.80	94.00	71.10	70.40	80.90	491.60	190.90	83.00	84.40	83.70	86.50	76.00		
21	71.80	84.40	69.70	69.70	79.50	562.00	141.00	85.10	83.70	84.40	85.10	76.00		
22	72.50	83.70	68.40	70.40	79.50	667.10	122.00	85.10	85.10	97.20	84.40	78.10		
23	71.80	83.00	69.70	70.40	80.90	694.80	102.80	86.50	84.40	100.40	72.50	78.10		
24	71.10	78.80	61.80	67.80	80.20	705.80	90.00	86.50	80.90	98.00	76.70	78.10		
25	75.30	75.30	60.00	71.80	79.50	710.30	89.30	85.80	90.80	98.00	75.30	78.80		
26	75.30	73.20	63.60	72.50	78.80	697.00	87.90	85.10	87.20	87.90	77.40	77.40		
27	75.30	71.10	61.20	72.50	87.90	612.50	90.80	85.80	87.90	87.90	75.30	78.10		
28	74.60	69.00	67.80	69.70	101.20	504.20	85.80	85.10	89.30	83.00	76.70	79.50		
29	73.90	67.80	70.40	69.70	138.00	377.50	86.50	85.10	94.00	82.30	75.30	79.50		
30	74.60	71.10	71.10	71.80	194.20	296.50	85.80	85.10	99.60	83.00		77.40		
31		72.50		76.70	257.90		85.80		101.20	83.00		78.10		
Total	2226.10	2644.30	2142.00	2065.00	2826.60	19959.50	4741.80	2518.00	2719.10	2917.00	2374.00	2414.80	49548.20	CMSDAY
Mean	74.20	85.30	71.40	66.61	91.18	665.32	152.96	83.93	87.71	94.10	81.86	77.90	135.38	CMS
Max	78.10	98.00	79.50	76.70	257.90	932.50	361.00	86.50	101.20	109.20	98.00	86.50	932.50	CMS
Min	70.40	67.80	60.00	57.60	73.20	296.50	85.80	76.70	78.80	82.30	72.50	73.90	57.60	CMS
Runoff	192.34	228.47	185.07	178.42	244.22	1724.50	409.69	217.56	234.93	252.03	205.11	208.64	4280.96	MCM
Momentary Peak		955.00	CMS.	at 10.16 m. (MSL.)	at 17.00 Hours	on Sep 9, 2019								
Runoff Yield		*****	Liters/Second/Square KM.		Momentary Peak Yield	*****	Liters/Second/Square KM.							

## WATER YEAR : 2019

## SAKAE KRANG RIVER BASIN

## Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

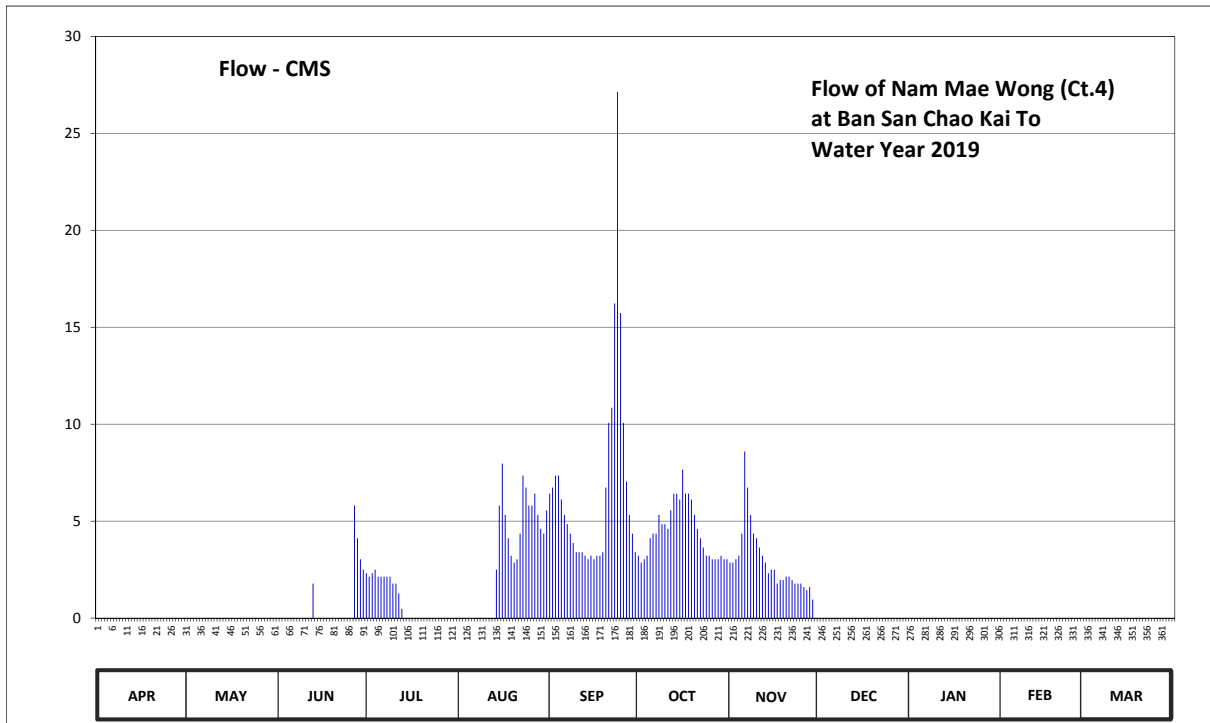
Lat 15 - 46 - 58 N Long 99 - 40 - 57 E

Location : on left bank at Ban San Chao Kai To.

	<b>Ban</b>	<b>San Chao Kai To</b>	<b>Amphoe</b>	<b>Lat Yao</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	1,386	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)				
<b>Bench Mark</b>	B.M.- Highways Dept.					
<b>Location BM</b>	On left bank at the bridge				<b>Elevation</b>	+72.250 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1987 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1987 to date					
<b>Stability of Channel Regimes</b>	Fairly stable					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 3 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.58	66.58	66.62	68.14	66.82	68.32	68.19	68.17	67.60	66.34	66.34	66.34	
2	66.58	66.58	66.58	68.13	66.77	68.33	68.17	68.17	67.18	66.34	66.34	66.34	
3	66.58	66.58	66.58	68.14	66.62	68.35	68.18	68.18	66.88	66.34	66.34	66.34	
4	66.58	66.58	66.58	68.15	66.58	68.35	68.19	68.19	66.73	66.34	66.34	66.34	
5	66.58	66.58	66.58	68.13	66.58	68.31	68.23	68.24	66.69	66.34	66.34	66.34	
6	66.58	66.58	66.58	68.13	66.58	68.28	68.24	68.39	66.68	66.34	66.34	66.34	
7	66.58	66.58	66.58	68.13	66.54	68.26	68.24	68.33	66.64	66.34	66.34	66.34	
8	66.58	66.58	66.58	68.13	66.49	68.24	68.28	68.28	66.65	66.34	66.34	66.34	
9	66.58	66.58	66.58	68.13	66.43	68.22	68.26	68.24	66.65	66.34	66.34	66.34	
10	66.58	66.58	66.63	68.11	66.43	68.20	68.26	68.23	66.65	66.34	66.34	66.34	
11	66.58	66.58	67.10	68.11	66.50	68.20	68.25	68.21	66.70	66.34	66.34	66.34	
12	66.58	66.58	67.85	68.08	66.77	68.20	68.29	68.19	66.63	66.34	66.34	66.34	
13	66.58	66.58	68.11	68.03	67.37	68.19	68.32	68.17	66.62	66.34	66.34	66.34	
14	66.58	66.58	67.86	67.97	68.15	68.18	68.32	68.14	66.58	66.34	66.34	66.34	
15	66.58	66.58	67.53	67.89	68.30	68.19	68.31	68.15	66.59	66.34	66.34	66.34	
16	66.58	66.58	67.35	67.79	68.37	68.18	68.36	68.15	66.54	66.34	66.34	66.34	
17	66.58	66.58	67.17	67.71	68.28	68.19	68.32	68.11	66.47	66.34	66.34	66.34	
18	66.58	66.58	66.81	67.64	68.23	68.19	68.32	68.12	66.35	66.34	66.34	66.34	
19	66.58	66.58	66.59	67.58	68.19	68.20	68.31	68.12	66.39	66.34	66.34	66.34	
20	66.58	66.58	66.60	67.53	68.17	68.33	68.28	68.13	66.40	66.34	66.34	66.34	
21	66.58	66.58	66.58	67.46	68.18	68.43	68.25	68.13	66.40	66.34	66.34	66.34	
22	66.58	66.58	66.58	67.39	68.24	68.45	68.23	68.12	66.45	66.34	66.34	66.34	
23	66.58	66.58	66.58	67.32	68.35	68.57	68.21	68.11	66.47	66.34	66.34	66.34	
24	66.58	66.58	66.58	67.26	68.33	68.75	68.19	68.11	66.46	66.34	66.34	66.34	
25	66.58	66.58	66.56	67.19	68.30	68.56	68.19	68.11	66.42	66.34	66.34	66.34	
26	66.58	66.58	67.21	67.10	68.30	68.43	68.18	68.10	66.40	66.34	66.34	66.34	
27	66.58	66.58	68.30	67.01	68.32	68.34	68.18	68.09	66.37	66.34	66.34	66.34	
28	66.58	66.58	68.23	66.90	68.28	68.28	68.18	68.10	66.34	66.34	66.34	66.34	
29	66.58	66.58	68.18	66.83	68.25	68.24	68.19	68.06	66.34	66.34	66.34	66.34	
30	66.58	66.58	68.15	66.83	68.24	68.20	68.18	67.92	66.34	66.34	66.34	66.34	
31		66.58		66.83	68.29		68.18		66.34	66.34		66.34	
Mean	66.58	66.58	67.06	67.67	67.59	68.31	68.24	68.16	66.58	66.34	66.34	66.34	
Max	66.58	66.58	68.30	68.15	68.37	68.75	68.36	68.39	67.60	66.34	66.34	66.34	68.75
Min	66.58	66.58	66.56	66.83	66.43	68.18	68.17	67.92	66.34	66.34	66.34	66.34	66.34
Annual Max Momentary Gage Height	68.70		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	65.65	m. (MSL.)					
Left Bank Elevation		72.18	m. (MSL.) ,										
Right Bank Elevation		71.96	m. (MSL.) ,			Drainage Are	1,386	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	2.32	0.00	6.42	3.22	2.86	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	2.14	0.00	6.73	2.86	2.86	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	2.32	0.00	7.35	3.04	3.04	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	2.50	0.00	7.35	3.22	3.22	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.14	0.00	6.11	4.12	4.36	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	2.14	0.00	5.32	4.36	8.59	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	2.14	0.00	4.84	4.36	6.73	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	2.14	0.00	4.36	5.32	5.32	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	2.14	0.00	3.88	4.84	4.36	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.78	0.00	3.40	4.84	4.12	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.78	0.00	3.40	4.60	3.64	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.28	0.00	3.40	5.56	3.22	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.78	0.48	0.00	3.22	6.42	2.86	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	2.50	3.04	6.42	2.32	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	5.80	3.22	6.11	2.50	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	7.97	3.04	7.66	2.50	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	5.32	3.22	6.42	1.78	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	4.12	3.22	6.42	1.96	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	3.22	3.40	6.11	1.96	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	2.86	6.73	5.32	2.14	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	3.04	10.07	4.60	2.14	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	4.36	10.85	4.12	1.96	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	7.35	16.23	3.64	1.78	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	6.73	27.15	3.22	1.78	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	5.80	15.74	3.22	1.78	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	5.80	10.07	3.04	1.60	0.00	0.00	0.00	0.00	
27	0.00	0.00	5.80	0.00	6.42	7.04	3.04	1.44	0.00	0.00	0.00	0.00	
28	0.00	0.00	4.12	0.00	5.32	5.32	3.04	1.60	0.00	0.00	0.00	0.00	
29	0.00	0.00	3.04	0.00	4.60	4.36	3.22	0.96	0.00	0.00	0.00	0.00	
30	0.00	0.00	2.50	0.00	4.36	3.40	3.04	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	5.56	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	17.24	25.30	91.13	201.88	138.44	85.38	0.00	0.00	0.00	0.00	559.37 CMSDAY
<b>Mean</b>	0.00	0.00	0.57	0.82	2.94	6.73	4.47	2.85	0.00	0.00	0.00	0.00	1.53 CMS
<b>Max</b>	0.00	0.00	5.80	2.50	7.97	27.15	7.66	8.59	0.00	0.00	0.00	0.00	27.15 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	3.04	2.86	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	1.49	2.19	7.87	17.44	11.96	7.38	0.00	0.00	0.00	0.00	48.33 MCM
<b>Momentary Peak</b>	23.60	CMS.	at 68.70 m. (MSL.)	at 07.00 Hours	, on Sep 24, 2019								
<b>Runoff Yield</b>	1.11	Liters/Second/Square KM.			Momentary Peak Yield	17.03	Liters/Second/Square KM.						

## WATER YEAR : 2019

## SAKAE KRANG RIVER BASIN

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

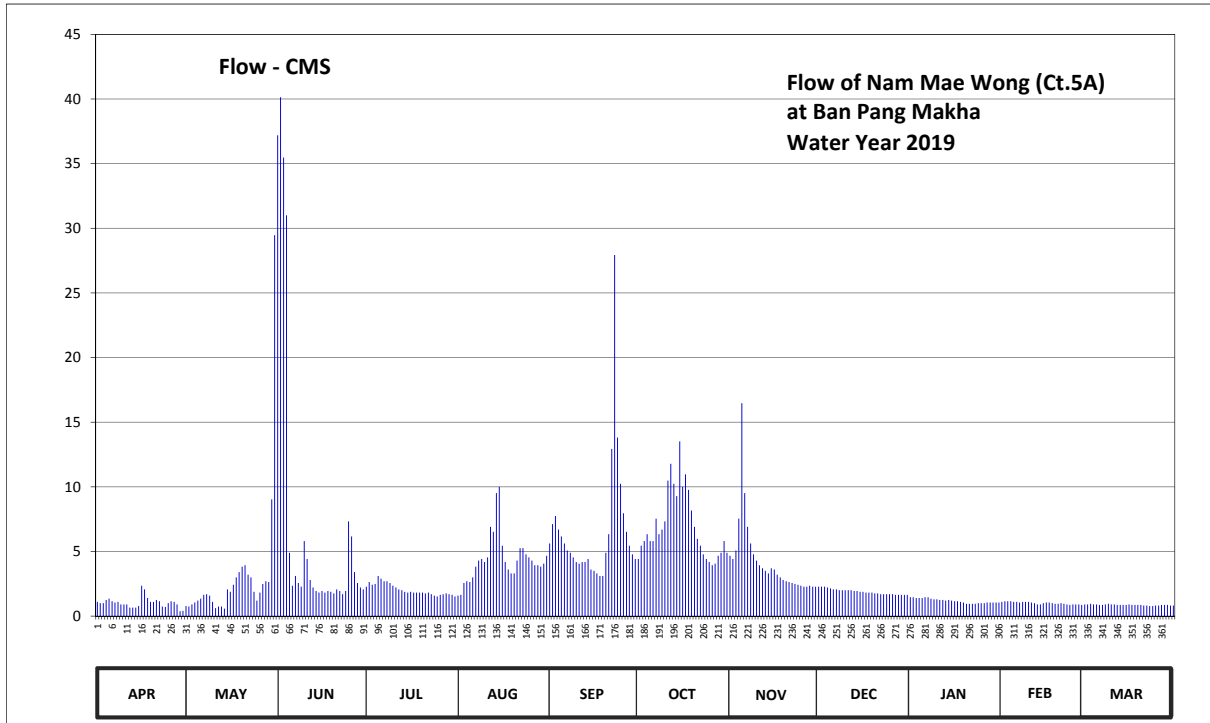
Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

	<b>Ban</b>	Pang Makha	<b>Amphoe</b>	Khanu Worakabsaburi	<b>Changwat</b>	Kamphaeng Phet
<b>Drainage Area</b>	977	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	In front of the station office				<b>Elevation</b>	+108.090 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1969 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1969 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1969 to date					
<b>Stability of Channel Regimes</b>	Fairly stable					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow effected by the local weir above gage site estimated by recession equation. Stage-discharge relation defined by 9 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.34	103.27	104.71	103.54	103.43	103.84	103.76	103.78	103.54	103.41	103.34	103.30	
2	103.32	103.26	104.76	103.59	103.44	103.92	103.83	103.76	103.54	103.41	103.35	103.30	
3	103.32	103.30	104.68	103.56	103.58	103.95	103.85	103.81	103.54	103.40	103.35	103.31	
4	103.37	103.33	104.60	103.57	103.60	103.90	103.88	103.94	103.53	103.40	103.35	103.30	
5	103.39	103.36	103.80	103.64	103.59	103.87	103.85	104.27	103.52	103.40	103.34	103.30	
6	103.35	103.39	103.55	103.62	103.63	103.84	103.85	104.03	103.51	103.41	103.34	103.29	
7	103.33	103.44	103.64	103.60	103.71	103.81	103.94	103.91	103.51	103.41	103.33	103.29	
8	103.34	103.45	103.58	103.60	103.75	103.80	103.88	103.84	103.50	103.39	103.34	103.30	
9	103.30	103.43	103.54	103.58	103.76	103.77	103.90	103.79	103.50	103.38	103.34	103.31	
10	103.30	103.34	103.85	103.55	103.74	103.74	103.93	103.75	103.50	103.38	103.34	103.30	
11	103.30	103.23	103.76	103.53	103.77	103.73	104.07	103.72	103.50	103.37	103.33	103.30	
12	103.24	103.26	103.61	103.51	103.91	103.74	104.12	103.70	103.50	103.37	103.32	103.29	
13	103.24	103.26	103.53	103.50	103.89	103.74	104.06	103.68	103.49	103.36	103.30	103.29	
14	103.24	103.22	103.49	103.48	104.03	103.76	104.02	103.66	103.49	103.37	103.30	103.29	
15	103.27	103.51	103.47	103.47	104.05	103.69	104.18	103.70	103.48	103.36	103.32	103.29	
16	103.55	103.48	103.49	103.48	103.83	103.68	104.05	103.69	103.48	103.35	103.33	103.30	
17	103.51	103.56	103.47	103.47	103.74	103.66	104.09	103.65	103.47	103.35	103.33	103.29	
18	103.40	103.63	103.49	103.47	103.69	103.64	104.04	103.63	103.47	103.34	103.32	103.29	
19	103.34	103.67	103.48	103.47	103.66	103.64	103.97	103.61	103.47	103.33	103.31	103.29	
20	103.34	103.71	103.46	103.47	103.66	103.80	103.91	103.60	103.46	103.31	103.31	103.29	
21	103.37	103.72	103.51	103.46	103.75	103.88	103.86	103.59	103.46	103.31	103.32	103.28	
22	103.35	103.65	103.49	103.47	103.82	104.16	103.83	103.58	103.45	103.31	103.31	103.28	
23	103.26	103.63	103.45	103.45	103.82	104.54	103.79	103.57	103.45	103.31	103.30	103.27	
24	103.25	103.48	103.49	103.43	103.79	104.19	103.76	103.56	103.45	103.32	103.29	103.27	
25	103.32	103.36	103.93	103.42	103.77	104.06	103.74	103.55	103.45	103.32	103.30	103.28	
26	103.35	103.47	103.87	103.44	103.75	103.96	103.72	103.54	103.45	103.32	103.30	103.28	
27	103.34	103.57	103.67	103.45	103.72	103.89	103.73	103.54	103.44	103.33	103.30	103.29	
28	103.30	103.60	103.58	103.46	103.72	103.83	103.78	103.55	103.44	103.33	103.29	103.29	
29	103.16	103.59	103.53	103.45	103.71	103.79	103.80	103.54	103.44	103.33	103.29	103.29	
30	103.17	104.01	103.51	103.44	103.73	103.76	103.85	103.54	103.44	103.33		103.28	
31		104.57		103.42	103.78		103.80		103.44	103.33		103.28	
Mean	103.32	103.51	103.73	103.50	103.74	103.85	103.90	103.70	103.48	103.36	103.32	103.29	
Max	103.55	104.57	104.76	103.64	104.05	104.54	104.18	104.27	103.54	103.41	103.35	103.31	104.76
Min	103.16	103.22	103.45	103.42	103.43	103.64	103.72	103.54	103.44	103.31	103.29	103.27	103.16
Annual Max Momentary Gage Height	104.77		m. (MSL.) ,				at 10.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	102.64	m. (MSL.)					
Left Bank Elevation		110.71		m. (MSL.) ,									
Right Bank Elevation		110.72		m. (MSL.) ,		Drainage Are	977	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	0.78	37.19	2.28	1.58	5.62	4.42	4.66	2.28	1.46	1.10	0.90	
2	1.00	0.74	40.14	2.63	1.64	7.12	5.44	4.42	2.28	1.46	1.15	0.90	
3	1.00	0.90	35.48	2.42	2.56	7.75	5.80	5.08	2.28	1.40	1.15	0.95	
4	1.25	1.05	31.00	2.49	2.70	6.70	6.34	7.54	2.21	1.40	1.15	0.90	
5	1.35	1.20	4.90	3.10	2.63	6.16	5.80	16.48	2.14	1.40	1.10	0.90	
6	1.15	1.35	2.35	2.90	3.00	5.62	5.80	9.52	2.07	1.46	1.10	0.86	
7	1.05	1.64	3.10	2.70	3.82	5.08	7.54	6.91	2.07	1.46	1.05	0.86	
8	1.10	1.70	2.56	2.70	4.30	4.90	6.34	5.62	2.00	1.35	1.10	0.90	
9	0.90	1.58	2.28	2.56	4.42	4.54	6.70	4.78	2.00	1.30	1.10	0.95	
10	0.90	1.10	5.80	2.35	4.18	4.18	7.33	4.30	2.00	1.30	1.10	0.90	
11	0.90	0.62	4.42	2.21	4.54	4.06	10.48	3.94	2.00	1.25	1.05	0.90	
12	0.66	0.74	2.80	2.07	6.91	4.18	11.78	3.70	2.00	1.25	1.00	0.86	
13	0.66	0.74	2.21	2.00	6.52	4.18	10.24	3.50	1.94	1.20	0.90	0.86	
14	0.66	0.58	1.94	1.88	9.52	4.42	9.28	3.30	1.94	1.25	0.90	0.86	
15	0.78	2.07	1.82	1.82	10.00	3.60	13.52	3.70	1.88	1.20	1.00	0.86	
16	2.35	1.88	1.94	1.88	5.44	3.50	10.00	3.60	1.88	1.15	1.05	0.90	
17	2.07	2.42	1.82	1.82	4.18	3.30	10.96	3.20	1.82	1.15	1.05	0.86	
18	1.40	3.00	1.94	1.82	3.60	3.10	9.76	3.00	1.82	1.10	1.00	0.86	
19	1.10	3.40	1.88	1.82	3.30	3.10	8.17	2.80	1.82	1.05	0.95	0.86	
20	1.10	3.82	1.76	1.82	3.30	4.90	6.91	2.70	1.76	0.95	0.95	0.86	
21	1.25	3.94	2.07	1.76	4.30	6.34	5.98	2.63	1.76	0.95	1.00	0.82	
22	1.15	3.20	1.94	1.82	5.26	12.94	5.44	2.56	1.70	0.95	0.95	0.82	
23	0.74	3.00	1.70	1.70	5.26	27.94	4.78	2.49	1.70	0.95	0.90	0.78	
24	0.70	1.88	1.94	1.58	4.78	13.81	4.42	2.42	1.70	1.00	0.86	0.78	
25	1.00	1.20	7.33	1.52	4.54	10.24	4.18	2.35	1.70	1.00	0.90	0.82	
26	1.15	1.82	6.16	1.64	4.30	7.96	3.94	2.28	1.70	1.00	0.90	0.82	
27	1.10	2.49	3.40	1.70	3.94	6.52	4.06	2.28	1.64	1.05	0.90	0.86	
28	0.90	2.70	2.56	1.76	3.94	5.44	4.66	2.35	1.64	1.05	0.86	0.86	
29	0.38	2.63	2.21	1.70	3.82	4.78	4.90	2.28	1.64	1.05	0.86	0.86	
30	0.41	9.04	2.07	1.64	4.06	4.42	5.80	2.28	1.64	1.05		0.82	
31		29.47		1.52	4.66		4.90		1.64	1.05		0.82	
<b>Total</b>	31.26	92.68	218.71	63.61	137.00	196.40	215.67	126.67	58.65	36.64	29.08	26.76	1233.13 CMSDAY
<b>Mean</b>	1.04	2.99	7.29	2.05	4.42	6.55	6.96	4.22	1.89	1.18	1.00	0.86	3.37 CMS
<b>Max</b>	2.35	29.47	40.14	3.10	10.00	27.94	13.52	16.48	2.28	1.46	1.15	0.95	40.14 CMS
<b>Min</b>	0.38	0.58	1.70	1.52	1.58	3.10	3.94	2.28	1.64	0.95	0.86	0.78	0.38 CMS
<b>Runoff</b>	2.70	8.01	18.90	5.50	11.84	16.97	18.63	10.94	5.07	3.17	2.51	2.31	106.54 MCM
<b>Momentary Peak</b>	40.73 CMS. at 104.77 m. (MSL.) at 10.00 Hours , on Jun 2, 2019												
<b>Runoff Yield</b>	3.46 Liters/Second/Square KM.			Momentary Peak Yield			41.70 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PASAK RIVER BASIN

## Pasak River at Ban Tan Dieo , Phetchabun (S.3)

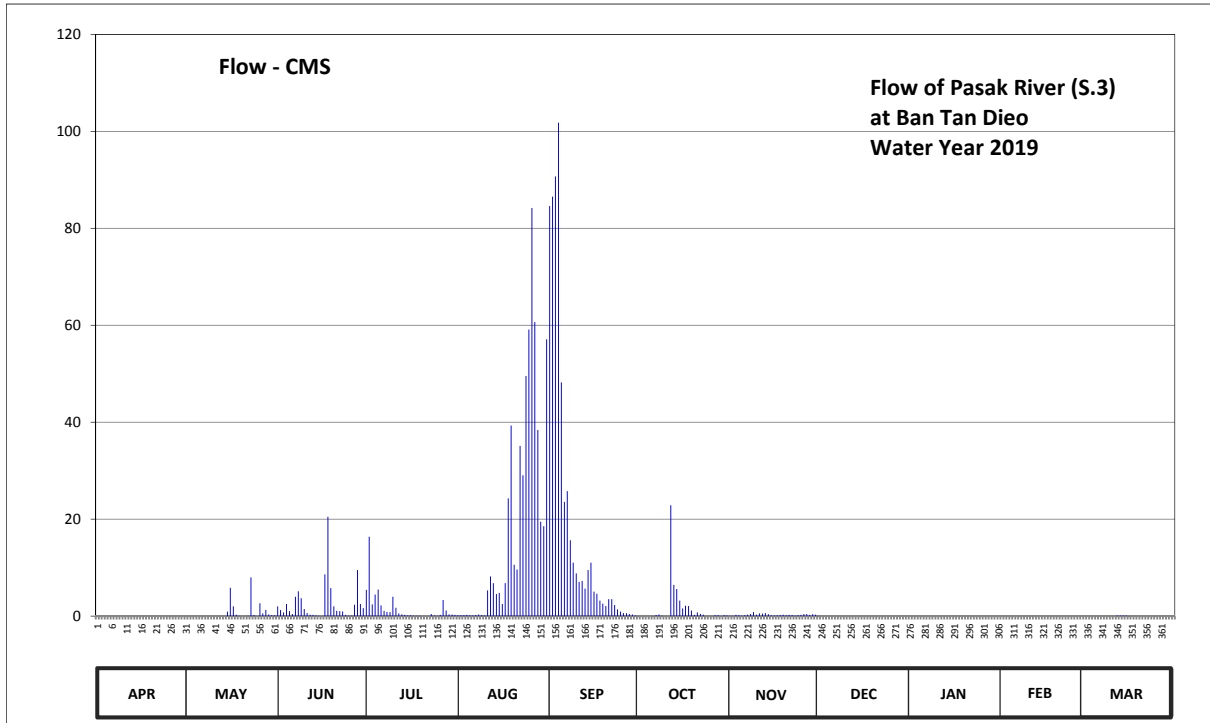
Lat 16 - 46 - 51 N Long 101 - 14 - 57 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

	Ban Tan Dieo	Amphoe Lom Sak	Changwat Phetchabun
<b>Drainage Area</b>	1,037 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+136.630 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the staff gage.	<b>Elevation</b>	+142.630 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1950 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 7 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.53	139.53	140.53	140.75	139.93	144.95	139.82	139.85	139.85	139.72	139.74	139.65	
2	139.53	139.53	140.18	141.78	139.92	145.00	139.80	139.84	139.79	139.72	139.75	139.65	
3	139.53	139.53	140.14	140.36	139.94	145.10	139.80	139.96	139.76	139.72	139.75	139.65	
4	139.53	139.53	140.52	140.64	139.96	145.34	139.79	139.93	139.75	139.75	139.74	139.65	
5	139.53	139.53	140.18	140.76	139.92	143.71	139.79	139.86	139.74	139.76	139.74	139.70	
6	139.53	139.53	140.03	140.33	139.89	142.32	139.82	139.92	139.73	139.76	139.73	139.76	
7	139.53	139.53	140.60	140.16	139.94	142.47	139.94	139.98	139.72	139.76	139.72	139.74	
8	139.53	139.53	140.63	140.12	139.99	141.72	139.99	140.02	139.72	139.76	139.71	139.71	
9	139.53	139.53	140.53	140.11	139.92	141.32	139.85	140.11	139.72	139.75	139.71	139.71	
10	139.63	139.53	140.24	140.58	139.88	141.11	139.79	139.98	139.73	139.75	139.70	139.68	
11	139.64	139.53	140.09	140.26	140.74	140.93	139.80	140.05	139.73	139.74	139.70	139.78	
12	139.63	139.58	139.99	140.05	141.05	140.95	142.27	140.04	139.73	139.75	139.69	139.88	
13	139.63	139.63	139.97	140.00	140.90	140.78	140.86	140.07	139.73	139.74	139.69	139.89	
14	139.63	139.67	139.91	139.95	140.65	141.18	140.77	140.01	139.72	139.73	139.69	139.89	
15	139.63	140.13	139.86	139.90	140.68	141.32	140.47	139.90	139.72	139.72	139.68	139.88	
16	139.63	140.80	139.83	139.90	140.37	140.71	140.24	139.88	139.72	139.72	139.68	139.81	
17	139.63	140.30	141.12	139.87	140.90	140.66	140.32	139.91	139.71	139.71	139.67	139.77	
18	139.63	139.98	142.28	139.83	142.37	140.47	140.31	139.94	139.71	139.71	139.67	139.74	
19	139.63	139.83	140.79	139.83	143.27	140.38	140.17	139.97	139.70	139.71	139.67	139.75	
20	139.63	139.75	140.30	139.78	141.28	140.31	139.95	139.93	139.70	139.71	139.67	139.74	
21	139.73	139.66	140.15	139.78	141.19	140.51	140.10	139.95	139.70	139.71	139.66	139.77	
22	139.63	139.85	140.12	139.77	143.04	140.51	140.03	139.94	139.69	139.73	139.66	139.75	
23	139.58	141.03	140.14	140.02	142.68	140.34	139.98	139.87	139.68	139.74	139.66	139.73	
24	139.58	139.94	139.98	139.89	143.77	140.21	139.82	139.93	139.68	139.73	139.66	139.72	
25	139.53	139.74	139.91	139.84	144.18	140.13	139.79	139.95	139.68	139.74	139.66	139.71	
26	139.53	140.39	139.88	139.96	144.94	140.07	139.79	140.02	139.68	139.74	139.65	139.70	
27	139.53	140.05	140.15	140.49	144.24	140.06	139.93	140.02	139.68	139.73	139.65	139.69	
28	139.53	140.20	141.30	140.17	143.22	140.02	139.93	139.96	139.68	139.73	139.65	139.68	
29	139.53	139.99	140.41	140.00	142.02	139.99	139.82	140.01	139.70	139.74	139.65	139.68	
30	139.53	139.92	140.27	139.99	141.95	139.89	139.92	139.97	139.70	139.74	139.65	139.67	
31		139.91		139.95	144.10		139.89		139.71	139.75		139.67	
Mean	139.58	139.84	140.33	140.16	141.51	141.42	140.08	139.96	139.72	139.73	139.69	139.74	
Max	139.73	141.03	142.28	141.78	144.94	145.34	142.27	140.11	139.85	139.76	139.75	139.89	145.34
Min	139.53	139.53	139.83	139.77	139.88	139.89	139.79	139.84	139.68	139.71	139.65	139.65	139.53
Annual Max Momentary Gage Height	145.51		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation	136.63		m. (MSL.) ,				River Bed 139.32		m. (MSL.)				
Left Bank Elevation		146.38		m. (MSL.) ,									
Right Bank Elevation		146.21		m. (MSL.) ,		Drainage Are	1,037		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.00	5.40	0.21	84.60	0.03	0.08	0.08	0.00	0.00	0.00	
2	0.00	0.00	1.25	16.36	0.19	86.55	0.00	0.06	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.75	2.42	0.23	90.70	0.00	0.27	0.00	0.00	0.00	0.00	
4	0.00	0.00	2.49	4.47	0.27	101.78	0.00	0.21	0.00	0.00	0.00	0.00	
5	0.00	0.00	1.03	5.49	0.19	48.22	0.00	0.09	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.43	2.21	0.14	23.58	0.03	0.19	0.00	0.00	0.00	0.00	
7	0.00	0.00	4.00	1.08	0.23	25.79	0.23	0.31	0.00	0.00	0.00	0.00	
8	0.00	0.00	5.13	0.86	0.33	15.64	0.33	0.43	0.00	0.00	0.00	0.00	
9	0.00	0.00	3.70	0.81	0.19	11.02	0.08	0.81	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.44	4.00	0.12	8.80	0.00	0.31	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.63	1.72	5.31	7.07	0.00	0.55	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.31	0.55	8.20	7.25	22.88	0.51	0.00	0.00	0.00	0.12	
13	0.00	0.00	0.25	0.35	6.80	5.67	6.42	0.63	0.00	0.00	0.00	0.14	
14	0.00	0.00	0.12	0.25	4.55	9.50	5.58	0.39	0.00	0.00	0.00	0.14	
15	0.00	0.92	0.06	0.15	4.79	11.02	3.19	0.15	0.00	0.00	0.00	0.12	
16	0.00	5.85	0.02	0.15	2.49	5.04	1.58	0.12	0.00	0.00	0.00	0.02	
17	0.00	2.00	8.60	0.11	6.80	4.63	2.14	0.17	0.00	0.00	0.00	0.00	
18	0.00	0.31	20.50	0.05	24.28	3.19	2.07	0.23	0.00	0.00	0.00	0.00	
19	0.00	0.05	5.76	0.05	39.30	2.56	1.14	0.29	0.00	0.00	0.00	0.00	
20	0.00	0.00	2.00	0.00	10.58	2.07	0.25	0.21	0.00	0.00	0.00	0.00	
21	0.00	0.00	1.08	0.00	9.60	3.48	0.75	0.25	0.00	0.00	0.00	0.00	
22	0.00	0.08	1.03	0.00	35.12	3.48	0.47	0.23	0.00	0.00	0.00	0.00	
23	0.00	8.00	0.97	0.43	29.04	2.28	0.31	0.11	0.00	0.00	0.00	0.00	
24	0.00	0.23	0.25	0.14	49.54	1.37	0.03	0.21	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.11	0.06	59.10	0.92	0.00	0.25	0.00	0.00	0.00	0.00	
26	0.00	2.63	0.09	0.27	84.21	0.63	0.00	0.43	0.00	0.00	0.00	0.00	
27	0.00	0.55	2.35	3.33	60.68	0.59	0.21	0.43	0.00	0.00	0.00	0.00	
28	0.00	1.30	9.50	1.14	38.37	0.43	0.21	0.27	0.00	0.00	0.00	0.00	
29	0.00	0.33	2.49	0.35	19.46	0.33	0.03	0.39	0.00	0.00	0.00	0.00	
30	0.00	0.19	1.65	0.33	18.55	0.14	0.19	0.29	0.00	0.00	0.00	0.00	
31	0.00	0.17	0.00	0.25	57.10	0.00	0.14	0.00	0.00	0.00	0.00	0.00	
Total	0.00	22.61	79.99	52.78	575.97	568.33	48.29	8.87	0.08	0.00	0.00	0.54	1357.46 CMSDAY
Mean	0.00	0.73	2.67	1.70	18.58	18.94	1.56	0.30	0.00	0.00	0.00	0.02	3.71 CMS
Max	0.00	8.00	20.50	16.36	84.21	101.78	22.88	0.81	0.08	0.00	0.00	0.14	101.78 CMS
Min	0.00	0.00	0.02	0.00	0.12	0.14	0.00	0.06	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	1.95	6.91	4.56	49.76	49.10	4.17	0.77	0.01	0.00	0.00	0.05	117.28 MCM
Momentary Peak	110.10	CMS. at 145.51 m. (MSL.) at 07.00 Hours , on Sep 4 , 2019											
Runoff Yield	3.59	Liters/Second/Square KM. Momentary Peak Yield 106.17 Liters/Second/Square KM.											



## WATER YEAR : 2019

## PASAK RIVER BASIN

## Pasak River at Mueang , Phetchabun (S.4B)

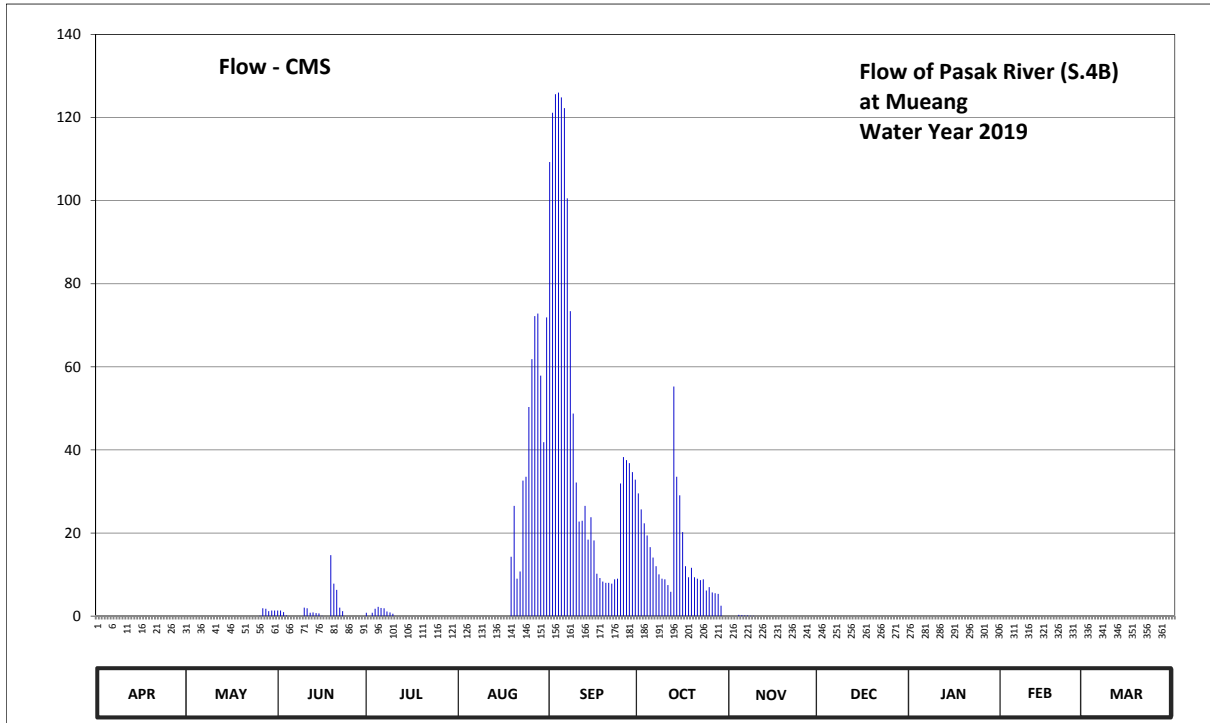
Lat 16 - 25 - 16 N Long 101 - 10 - 08 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	<b>Ban</b> Nai Mueang	<b>Amphoe</b> Mueang	<b>Changwat</b> Phetchabun
<b>Drainage Area</b>	3,459 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+106.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank in front of town - hall Changwat Phetchabun.	<b>Elevation</b>	+116.728 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 7 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.20	110.23	110.57	110.50	109.81	114.90	112.16	110.25	110.10	109.74	109.38	109.33	
2	110.20	110.23	110.57	110.33	109.86	115.22	111.98	110.21	110.06	109.74	109.38	109.33	
3	110.20	110.23	110.52	110.50	109.87	115.34	111.82	110.17	110.02	109.73	109.37	109.33	
4	110.22	110.22	110.42	110.62	109.86	115.35	111.68	110.44	109.98	109.73	109.37	109.32	
5	110.23	110.22	110.02	110.67	109.90	115.32	111.54	110.43	109.97	109.73	109.37	109.34	
6	110.23	110.22	109.91	110.64	109.89	115.25	111.41	110.42	109.97	109.73	109.36	109.28	
7	110.18	110.22	110.38	110.63	109.91	114.66	111.30	110.42	109.97	109.71	109.41	109.18	
8	110.15	110.21	110.37	110.54	109.90	113.84	111.19	110.41	109.96	109.69	109.45	109.07	
9	110.13	110.21	110.36	110.51	109.91	112.96	111.13	110.41	109.96	109.67	109.45	108.98	
10	110.13	110.21	110.65	110.47	109.91	112.28	111.12	110.40	109.96	109.65	109.45	108.91	
11	110.12	110.21	110.63	110.39	109.90	111.84	111.04	110.40	109.95	109.63	109.45	108.88	
12	110.21	110.20	110.50	110.31	109.93	111.85	110.94	110.33	109.95	109.61	109.44	108.82	
13	110.20	110.20	110.51	110.25	109.93	112.02	113.21	110.32	109.92	109.57	109.44	108.78	
14	110.19	110.27	110.49	110.30	109.97	111.63	112.34	110.31	109.89	109.49	109.44	108.80	
15	110.19	110.27	110.48	110.28	109.97	111.89	112.14	110.25	109.88	109.49	109.44	108.80	
16	110.18	110.30	110.41	110.26	110.03	111.62	111.72	110.25	109.88	109.48	109.44	108.80	
17	110.17	110.32	110.38	110.23	110.05	111.20	111.30	110.25	109.88	109.47	109.44	108.80	
18	110.17	110.33	110.38	110.22	110.05	111.14	111.15	110.24	109.87	109.47	109.44	108.80	
19	110.16	110.33	111.44	110.21	111.42	111.09	111.28	110.23	109.84	109.47	109.42	108.86	
20	110.16	110.35	111.06	110.21	112.02	111.07	111.15	110.23	109.79	109.46	109.40	108.86	
21	110.16	110.36	110.97	110.21	111.13	111.07	111.13	110.21	109.78	109.46	109.40	108.88	
22	110.15	110.36	110.65	110.10	111.23	111.06	111.11	110.20	109.77	109.46	109.40	108.88	
23	110.20	110.32	110.55	109.78	112.30	111.12	111.12	110.19	109.77	109.46	109.38	108.88	
24	110.22	110.30	110.36	109.69	112.34	111.13	110.96	110.19	109.76	109.44	109.36	108.92	
25	110.24	110.30	110.28	109.59	113.02	112.27	111.01	110.18	109.76	109.44	109.36	108.96	
26	110.24	110.41	110.24	109.74	113.45	112.54	110.93	110.18	109.76	109.44	109.36	108.96	
27	110.24	110.63	110.22	109.82	113.80	112.51	110.92	110.17	109.75	109.43	109.35	108.96	
28	110.23	110.62	110.21	109.82	113.82	112.48	110.91	110.16	109.75	109.41	109.35	108.95	
29	110.23	110.55	110.21	109.80	113.31	112.39	110.70	110.15	109.75	109.41	109.35	108.95	
30	110.23	110.57	110.29	109.77	112.69	112.31	110.40	110.15	109.74	109.39	109.35	108.95	
31		110.57		109.79	113.79		110.28		109.74	109.38		108.95	
Mean	110.19	110.32	110.47	110.20	111.06	112.65	111.32	110.27	109.88	109.55	109.40	108.98	
Max	110.24	110.63	111.44	110.67	113.82	115.35	113.21	110.44	110.10	109.74	109.45	109.34	115.35
Min	110.12	110.20	109.91	109.59	109.81	111.06	110.28	110.15	109.74	109.38	109.35	108.78	108.78
Annual Max Momentary Gage Height	115.36		m. (MSL.) ,			at 06.00 Hours ,	on Sep 4 , 2019						
Zero Gage at Bottom Elevation	106.50		m. (MSL.) ,			River Bed	109.41	m. (MSL.)					
Left Bank Elevation	116.73		m. (MSL.) ,										
Right Bank Elevation	117.05		m. (MSL.) ,			Drainage Are	3,459	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.36	0.80	0.00	109.30	29.52	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	1.36	0.00	0.00	121.14	25.68	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.96	0.80	0.00	125.62	22.32	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.16	1.78	0.00	126.00	19.40	0.32	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.23	0.00	124.86	16.60	0.24	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.96	0.00	122.25	14.09	0.16	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.87	0.00	100.56	12.00	0.16	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.12	0.00	73.40	10.03	0.08	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.88	0.00	48.76	9.01	0.08	0.00	0.00	0.00	0.00	
10	0.00	0.00	2.05	0.56	0.00	32.16	8.84	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.87	0.00	0.00	22.74	7.48	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.80	0.00	0.00	22.95	5.84	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.88	0.00	0.00	26.52	55.26	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.72	0.00	0.00	18.40	33.52	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.64	0.00	0.00	23.79	29.08	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.08	0.00	0.00	18.20	20.22	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	10.20	12.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	9.18	9.35	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	14.66	0.00	14.28	8.33	11.64	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	7.82	0.00	26.52	7.99	9.35	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	6.32	0.00	9.01	7.99	9.01	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	2.05	0.00	10.74	7.82	8.67	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	1.20	0.00	32.60	8.84	8.84	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	33.52	9.01	6.16	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	50.32	31.94	6.97	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.08	0.00	0.00	61.85	38.26	5.68	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.87	0.00	0.00	72.20	37.54	5.52	0.00	0.00	0.00	0.00	0.00	
28	0.00	1.78	0.00	0.00	72.80	36.82	5.36	0.00	0.00	0.00	0.00	0.00	
29	0.00	1.20	0.00	0.00	57.88	34.67	2.50	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.36	0.00	0.00	41.86	32.83	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	1.36	0.00	0.00	71.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	7.65	42.93	12.00	555.48	1398.07	419.94	1.04	0.00	0.00	0.00	0.00	2437.11 CMSDAY
Mean	0.00	0.25	1.43	0.39	17.92	46.60	13.55	0.03	0.00	0.00	0.00	0.00	6.66 CMS
Max	0.00	1.87	14.66	2.23	72.80	126.00	55.26	0.32	0.00	0.00	0.00	0.00	126.00 CMS
Min	0.00	0.00	0.00	0.00	0.00	7.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.66	3.71	1.04	47.99	120.79	36.28	0.09	0.00	0.00	0.00	0.00	210.57 MCM
Momentary Peak	126.38	CMS.	at 115.36 m. (MSL.)	at 06.00 Hours	, on Sep 4, 2019								
Runoff Yield	1.93	Liters/Second/Square KM.			Momentary Peak Yield	36.54	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PASAK RIVER BASIN

## Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

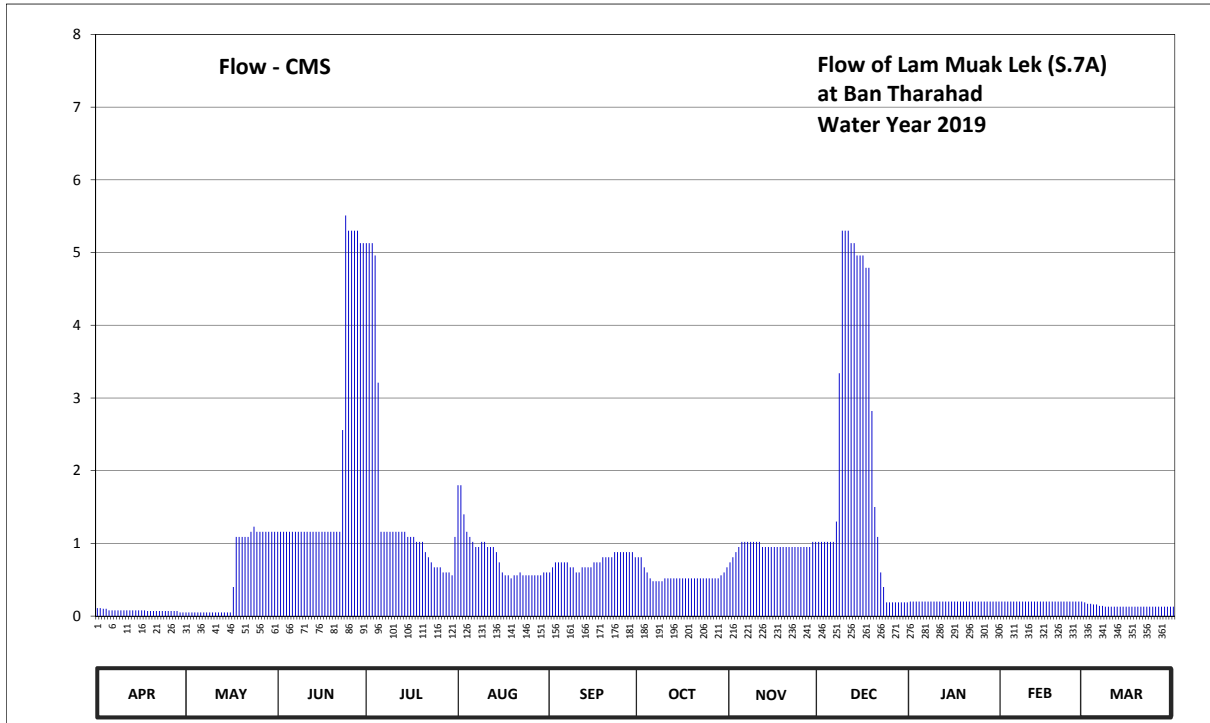
Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

Location : on right bank at Ban Tharahad.

	<b>Ban Tharahad</b>	<b>Amphoe Wang Muang</b>	<b>Changwat Saraburi</b>
<b>Drainage Area</b>	580 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the bridge.		<b>Elevation</b> +52.984 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.14	42.10	42.38	42.69	42.45	42.30	42.33	42.32	42.36	42.20	42.20	42.19	
2	42.14	42.10	42.38	42.69	42.45	42.31	42.33	42.33	42.36	42.20	42.20	42.18	
3	42.13	42.10	42.38	42.69	42.41	42.32	42.31	42.34	42.36	42.20	42.20	42.18	
4	42.13	42.10	42.38	42.68	42.38	42.32	42.30	42.35	42.36	42.20	42.20	42.17	
5	42.12	42.10	42.38	42.57	42.37	42.32	42.28	42.36	42.36	42.20	42.20	42.17	
6	42.12	42.10	42.38	42.38	42.36	42.32	42.27	42.36	42.36	42.20	42.20	42.16	
7	42.12	42.10	42.38	42.38	42.35	42.32	42.27	42.36	42.40	42.20	42.20	42.16	
8	42.12	42.10	42.38	42.38	42.35	42.31	42.27	42.36	42.58	42.20	42.20	42.15	
9	42.12	42.10	42.38	42.38	42.36	42.31	42.27	42.36	42.70	42.20	42.20	42.15	
10	42.12	42.10	42.38	42.38	42.36	42.30	42.28	42.36	42.70	42.20	42.20	42.15	
11	42.12	42.10	42.38	42.38	42.35	42.30	42.28	42.36	42.70	42.20	42.20	42.15	
12	42.12	42.10	42.38	42.38	42.35	42.31	42.28	42.35	42.69	42.20	42.20	42.15	
13	42.12	42.10	42.38	42.38	42.35	42.31	42.28	42.35	42.69	42.20	42.20	42.15	
14	42.12	42.10	42.38	42.38	42.34	42.31	42.28	42.35	42.68	42.20	42.20	42.15	
15	42.12	42.09	42.38	42.37	42.32	42.31	42.28	42.35	42.68	42.20	42.20	42.15	
16	42.12	42.09	42.38	42.37	42.30	42.32	42.28	42.35	42.68	42.20	42.20	42.15	
17	42.12	42.25	42.38	42.37	42.29	42.32	42.28	42.35	42.67	42.20	42.20	42.15	
18	42.11	42.37	42.38	42.36	42.29	42.32	42.28	42.35	42.67	42.20	42.20	42.15	
19	42.11	42.37	42.38	42.36	42.28	42.33	42.28	42.35	42.54	42.20	42.20	42.15	
20	42.11	42.37	42.38	42.36	42.29	42.33	42.28	42.35	42.42	42.20	42.20	42.15	
21	42.11	42.37	42.38	42.34	42.29	42.33	42.28	42.35	42.37	42.20	42.20	42.15	
22	42.11	42.37	42.38	42.33	42.30	42.33	42.28	42.35	42.30	42.20	42.20	42.15	
23	42.11	42.38	42.52	42.32	42.29	42.34	42.28	42.35	42.25	42.20	42.20	42.15	
24	42.11	42.39	42.71	42.31	42.29	42.34	42.28	42.35	42.19	42.20	42.20	42.15	
25	42.11	42.38	42.70	42.31	42.29	42.34	42.28	42.35	42.19	42.20	42.20	42.15	
26	42.11	42.38	42.70	42.31	42.29	42.34	42.28	42.35	42.19	42.20	42.20	42.15	
27	42.11	42.38	42.70	42.30	42.29	42.34	42.28	42.35	42.19	42.20	42.20	42.15	
28	42.11	42.38	42.70	42.30	42.29	42.34	42.28	42.35	42.19	42.20	42.20	42.15	
29	42.10	42.38	42.69	42.30	42.29	42.34	42.29	42.36	42.19	42.20	42.20	42.15	
30	42.10	42.38	42.69	42.29	42.30	42.33	42.30	42.36	42.19	42.20	42.20	42.15	
31		42.38		42.37	42.30		42.31		42.19	42.20		42.15	
Mean	42.12	42.23	42.46	42.40	42.33	42.32	42.29	42.35	42.43	42.20	42.20	42.16	
Max	42.14	42.39	42.71	42.69	42.45	42.34	42.33	42.36	42.70	42.20	42.20	42.19	42.71
Min	42.10	42.09	42.38	42.29	42.28	42.30	42.27	42.32	42.19	42.20	42.20	42.15	42.09
Annual Max Momentary Gage Height	42.76		m. (MSL.) ,				at 21.00 Hours , on Jul 2 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	41.72	m. (MSL.)					
Left Bank Elevation		52.80		m. (MSL.) ,									
Right Bank Elevation		52.94		m. (MSL.) ,		Drainage Are	580	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.11	0.05	1.16	5.13	1.80	0.60	0.81	0.74	1.02	0.20	0.20	0.19	
2	0.11	0.05	1.16	5.13	1.80	0.67	0.81	0.81	1.02	0.20	0.20	0.17	
3	0.10	0.05	1.16	5.13	1.40	0.74	0.67	0.88	1.02	0.20	0.20	0.17	
4	0.10	0.05	1.16	4.96	1.16	0.74	0.60	0.95	1.02	0.20	0.20	0.16	
5	0.08	0.05	1.16	3.21	1.09	0.74	0.52	1.02	1.02	0.20	0.20	0.16	
6	0.08	0.05	1.16	1.16	1.02	0.74	0.48	1.02	1.02	0.20	0.20	0.14	
7	0.08	0.05	1.16	1.16	0.95	0.74	0.48	1.02	1.30	0.20	0.20	0.14	
8	0.08	0.05	1.16	1.16	0.95	0.67	0.48	1.02	3.34	0.20	0.20	0.13	
9	0.08	0.05	1.16	1.16	1.02	0.67	0.48	1.02	5.30	0.20	0.20	0.13	
10	0.08	0.05	1.16	1.16	1.02	0.60	0.52	1.02	5.30	0.20	0.20	0.13	
11	0.08	0.05	1.16	1.16	0.95	0.60	0.52	1.02	5.30	0.20	0.20	0.13	
12	0.08	0.05	1.16	1.16	0.95	0.67	0.52	0.95	5.13	0.20	0.20	0.13	
13	0.08	0.05	1.16	1.16	0.95	0.67	0.52	0.95	5.13	0.20	0.20	0.13	
14	0.08	0.05	1.16	1.16	0.88	0.67	0.52	0.95	4.96	0.20	0.20	0.13	
15	0.08	0.05	1.16	1.09	0.74	0.67	0.52	0.95	4.96	0.20	0.20	0.13	
16	0.08	0.05	1.16	1.09	0.60	0.74	0.52	0.95	4.96	0.20	0.20	0.13	
17	0.08	0.40	1.16	1.09	0.56	0.74	0.52	0.95	4.79	0.20	0.20	0.13	
18	0.07	1.09	1.16	1.02	0.56	0.74	0.52	0.95	4.79	0.20	0.20	0.13	
19	0.07	1.09	1.16	1.02	0.52	0.81	0.52	0.95	2.82	0.20	0.20	0.13	
20	0.07	1.09	1.16	1.02	0.56	0.81	0.52	0.95	1.50	0.20	0.20	0.13	
21	0.07	1.09	1.16	0.88	0.56	0.81	0.52	0.95	1.09	0.20	0.20	0.13	
22	0.07	1.09	1.16	0.81	0.60	0.81	0.52	0.95	0.60	0.20	0.20	0.13	
23	0.07	1.16	2.56	0.74	0.56	0.88	0.52	0.95	0.40	0.20	0.20	0.13	
24	0.07	1.23	5.51	0.67	0.56	0.88	0.52	0.95	0.19	0.20	0.20	0.13	
25	0.07	1.16	5.30	0.67	0.56	0.88	0.52	0.95	0.19	0.20	0.20	0.13	
26	0.07	1.16	5.30	0.67	0.56	0.88	0.52	0.95	0.19	0.20	0.20	0.13	
27	0.07	1.16	5.30	0.60	0.56	0.88	0.52	0.95	0.19	0.20	0.20	0.13	
28	0.07	1.16	5.30	0.60	0.56	0.88	0.52	0.95	0.19	0.20	0.20	0.13	
29	0.05	1.16	5.13	0.60	0.56	0.88	0.56	1.02	0.19	0.20	0.20	0.13	
30	0.05	1.16	5.13	0.56	0.60	0.81	0.60	1.02	0.19	0.20		0.13	
31		1.16		1.09	0.60		0.67		0.19	0.20		0.13	
Total	2.33	17.16	65.05	48.22	25.76	22.62	17.04	28.71	69.31	6.20	5.80	4.25	312.45 CMSDAY
Mean	0.08	0.55	2.17	1.56	0.83	0.75	0.55	0.96	2.24	0.20	0.20	0.14	0.85 CMS
Max	0.11	1.23	5.51	5.13	1.80	0.88	0.81	1.02	5.30	0.20	0.20	0.19	5.51 CMS
Min	0.05	0.05	1.16	0.56	0.52	0.60	0.48	0.74	0.19	0.20	0.20	0.13	0.05 CMS
Runoff	0.20	1.48	5.62	4.17	2.23	1.95	1.47	2.48	5.99	0.54	0.50	0.37	27.00 MCM
Momentary Peak	6.56	CMS. at 42.76 m. (MSL.) at 21.00 Hours , on Jul 2, 2019											
Runoff Yield	1.48	Liters/Second/Square KM.		Momentary Peak Yield		11.31	Liters/Second/Square KM.						

**WATER YEAR : 2019****PASAK RIVER BASIN**

Pasak River at Ban Pa , Saraburi (S.9)

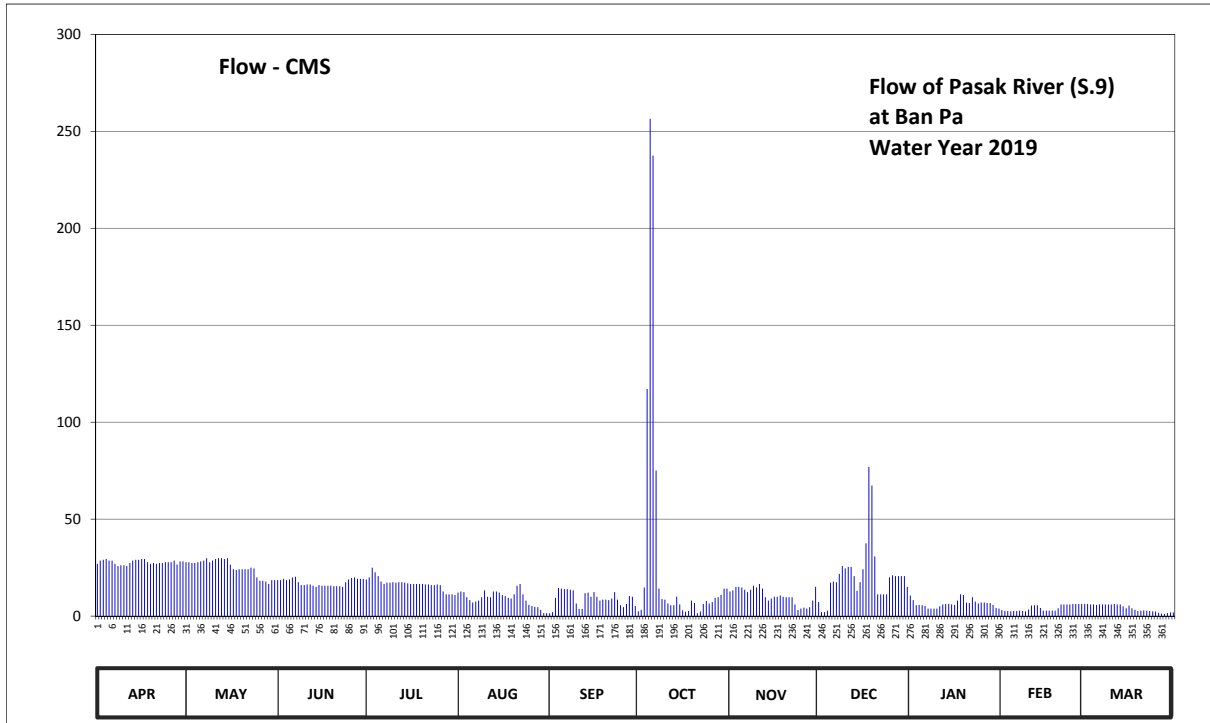
Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

	<b>Ban Pa</b>	<b>Amphoe</b> Kaeng Khoi	<b>Changwat</b> Saraburi
<b>Drainage Area</b>	14,233 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank under tamarind tree along the measuring line.	<b>Elevation</b>	+23.099 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1973 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1973 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1973 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 10 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.05	9.07	8.83	8.84	8.62	8.13	8.20	8.64	8.45	8.57	8.24	8.41	
2	9.09	9.07	8.83	8.87	8.64	8.17	8.25	8.66	8.17	8.49	8.21	8.41	
3	9.10	9.06	8.85	9.00	8.63	8.53	8.71	8.72	8.17	8.38	8.21	8.40	
4	9.11	9.06	8.83	8.94	8.54	8.70	10.54	8.72	8.22	8.39	8.20	8.40	
5	9.09	9.07	8.84	8.89	8.49	8.69	12.06	8.71	8.79	8.38	8.21	8.39	
6	9.09	9.08	8.87	8.81	8.44	8.68	11.87	8.67	8.81	8.36	8.21	8.40	
7	9.05	9.09	8.88	8.77	8.46	8.68	9.96	8.63	8.80	8.29	8.22	8.40	
8	9.02	9.12	8.80	8.79	8.48	8.67	8.69	8.67	8.92	8.29	8.21	8.40	
9	9.03	9.07	8.75	8.79	8.54	8.66	8.51	8.74	9.02	8.29	8.20	8.40	
10	9.03	9.09	8.75	8.80	8.66	8.42	8.50	8.71	8.99	8.29	8.26	8.40	
11	9.02	9.11	8.76	8.79	8.55	8.28	8.42	8.77	9.01	8.35	8.37	8.41	
12	9.06	9.12	8.76	8.80	8.54	8.28	8.38	8.69	9.01	8.40	8.38	8.40	
13	9.09	9.12	8.74	8.80	8.64	8.61	8.38	8.54	8.89	8.41	8.38	8.40	
14	9.10	9.11	8.72	8.79	8.64	8.62	8.55	8.48	8.65	8.41	8.31	8.35	
15	9.10	9.12	8.75	8.78	8.62	8.55	8.40	8.52	8.80	8.40	8.22	8.30	
16	9.11	9.04	8.74	8.77	8.58	8.63	8.23	8.55	8.98	8.39	8.22	8.37	
17	9.11	8.98	8.74	8.77	8.56	8.55	8.18	8.55	9.28	8.48	8.22	8.30	
18	9.07	8.97	8.74	8.77	8.53	8.48	8.21	8.57	9.99	8.59	8.22	8.25	
19	9.05	8.98	8.74	8.77	8.52	8.50	8.48	8.55	9.83	8.58	8.22	8.21	
20	9.06	8.98	8.73	8.77	8.59	8.50	8.43	8.54	9.14	8.44	8.30	8.22	
21	9.05	8.98	8.73	8.76	8.74	8.49	8.13	8.54	8.59	8.43	8.40	8.23	
22	9.06	8.98	8.73	8.76	8.77	8.52	8.19	8.54	8.59	8.54	8.40	8.22	
23	9.06	9.00	8.72	8.75	8.59	8.63	8.41	8.40	8.59	8.46	8.40	8.21	
24	9.07	8.99	8.80	8.75	8.48	8.50	8.47	8.24	8.59	8.42	8.40	8.20	
25	9.07	8.87	8.84	8.76	8.39	8.38	8.42	8.29	8.87	8.44	8.41	8.19	
26	9.07	8.82	8.86	8.75	8.36	8.33	8.45	8.32	8.90	8.44	8.41	8.15	
27	9.09	8.82	8.87	8.64	8.34	8.41	8.53	8.29	8.89	8.43	8.41	8.12	
28	9.04	8.81	8.85	8.59	8.33	8.56	8.54	8.33	8.89	8.43	8.41	8.11	
29	9.08	8.77	8.85	8.59	8.25	8.55	8.58	8.48	8.89	8.39	8.41	8.14	
30	9.08	8.83	8.85	8.59	8.14	8.36	8.69	8.72	8.89	8.31	8.41	8.16	
31		8.83		8.58	8.14		8.69		8.72	8.29		8.16	
Mean	9.07	9.00	8.79	8.77	8.51	8.50	8.78	8.56	8.85	8.41	8.30	8.29	
Max	9.11	9.12	8.88	9.00	8.77	8.70	12.06	8.77	9.99	8.59	8.41	8.41	12.06
Min	9.02	8.77	8.72	8.58	8.14	8.13	8.13	8.24	8.17	8.29	8.20	8.11	8.11
Annual Max Momentary Gage Height	12.30		m. (MSL.) ,				at 20.00 Hours , on Oct 2 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.27	m. (MSL.)					
Left Bank Elevation		23.10	m. (MSL.) ,										
Right Bank Elevation		22.57	m. (MSL.) ,			Drainage Are	14,233	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	27.00	27.80	18.55	18.90	12.10	1.45	2.50	12.70	7.25	10.60	3.10	6.25		
2	28.60	27.80	18.55	19.95	12.70	2.05	3.25	13.30	2.05	8.25	2.65	6.25		
3	29.00	27.40	19.25	25.00	12.40	9.40	14.80	15.10	2.05	5.60	2.65	6.00		
4	29.45	27.40	18.55	22.60	9.70	14.50	117.20	15.10	2.80	5.80	2.50	6.00		
5	28.60	27.80	18.90	20.65	8.25	14.20	256.50	14.80	17.20	5.60	2.65	5.80		
6	28.60	28.20	19.95	17.85	7.00	13.90	237.50	13.60	17.85	5.20	2.65	6.00		
7	27.00	28.60	20.30	16.60	7.50	13.90	75.10	12.40	17.50	3.85	2.80	6.00		
8	25.80	29.90	17.50	17.20	8.00	13.60	14.20	13.60	21.80	3.85	2.65	6.00		
9	26.20	27.80	16.00	17.20	9.70	13.30	8.80	15.70	25.80	3.85	2.50	6.00		
10	26.20	28.60	16.00	17.50	13.30	6.50	8.50	14.80	24.60	3.85	3.40	6.00		
11	25.80	29.45	16.30	17.20	10.00	3.70	6.50	16.60	25.40	5.00	5.40	6.25		
12	27.40	29.90	16.30	17.50	9.70	3.70	5.60	14.20	25.40	6.00	5.60	6.00		
13	28.60	29.90	15.70	17.50	12.70	11.80	5.60	9.70	20.65	6.25	5.60	6.00		
14	29.00	29.45	15.10	17.20	12.70	12.10	10.00	8.00	13.00	6.25	4.20	5.00		
15	29.00	29.90	16.00	16.90	12.10	10.00	6.00	9.10	17.50	6.00	2.80	4.00		
16	29.45	26.60	15.70	16.60	10.90	12.40	2.95	10.00	24.20	5.80	2.80	5.40		
17	29.45	24.20	15.70	16.60	10.30	10.00	2.20	10.00	37.50	8.00	2.80	4.00		
18	27.80	23.80	15.70	16.60	9.40	8.00	2.65	10.60	76.90	11.20	2.80	3.25		
19	27.00	24.20	15.70	16.60	9.10	8.50	8.00	10.00	67.30	10.90	2.80	2.65		
20	27.40	24.20	15.40	16.60	11.20	8.50	6.75	9.70	30.80	7.00	4.00	2.80		
21	27.00	24.20	15.40	16.30	15.70	8.25	1.45	9.70	11.20	6.75	6.00	2.95		
22	27.40	24.20	15.40	16.30	16.60	9.10	2.35	9.70	11.20	9.70	6.00	2.80		
23	27.40	25.00	15.10	16.00	11.20	12.40	6.25	6.00	11.20	7.50	6.00	2.65		
24	27.80	24.60	17.50	16.00	8.00	8.50	7.75	3.10	11.20	6.50	6.00	2.50		
25	27.80	19.95	18.90	16.30	5.80	5.60	6.50	3.85	19.95	7.00	6.25	2.35		
26	27.80	18.20	19.60	16.00	5.20	4.60	7.25	4.40	21.00	7.00	6.25	1.75		
27	28.60	18.20	19.95	12.70	4.80	6.25	9.40	3.85	20.65	6.75	6.25	1.30		
28	26.60	17.85	19.25	11.20	4.60	10.30	9.70	4.60	20.65	6.75	6.25	1.15		
29	28.20	16.60	19.25	11.20	3.25	10.00	10.90	8.00	20.65	5.80	6.25	1.60		
30	28.20	18.55	19.25	11.20	1.60	5.20	14.20	15.10	20.65	4.20		1.90		
31		18.55		10.90	1.60		14.20		15.10	3.85		1.90		
<b>Total</b>	834.15	778.80	520.75	516.85	287.10	271.70	884.55	317.30	661.00	200.65	121.60	128.50	5522.95	CMSDAY
<b>Mean</b>	27.80	25.12	17.36	16.67	9.26	9.06	28.53	10.58	21.32	6.47	4.19	4.15	15.09	CMS
<b>Max</b>	29.45	29.90	20.30	25.00	16.60	14.50	256.50	16.60	76.90	11.20	6.25	6.25	256.50	CMS
<b>Min</b>	25.80	16.60	15.10	10.90	1.60	1.45	1.45	3.10	2.05	3.85	2.50	1.15	1.15	CMS
<b>Runoff</b>	72.07	67.29	44.99	44.66	24.81	23.47	76.43	27.41	57.11	17.34	10.51	11.10	477.18	MCM
<b>Momentary Peak</b>		280.50	CMS.	at 12.30 m. (MSL.)	at 20.00 Hours		on Oct 2, 2019							
<b>Runoff Yield</b>		1.06	Liters/Second/Square KM.		Momentary Peak Yield	19.71	Liters/Second/Square KM.							

## WATER YEAR : 2019

## PASAK RIVER BASIN

Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)

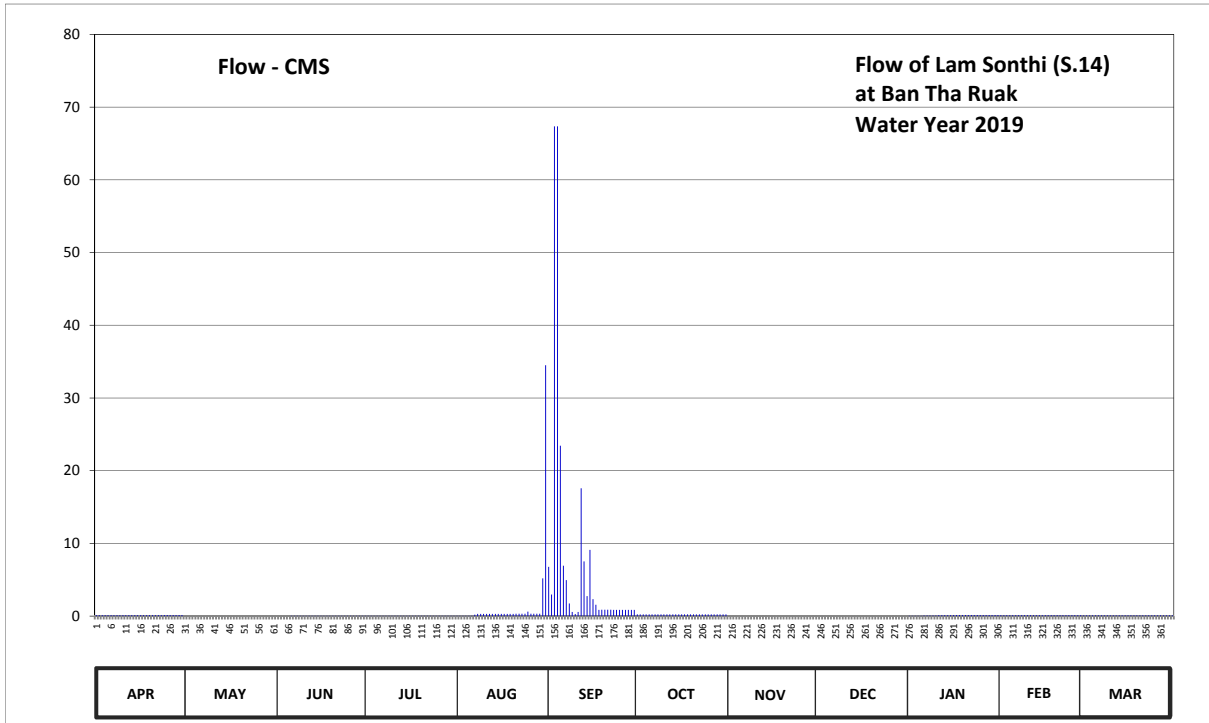
Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Tha Ruak</b>	<b>Amphoe</b>	<b>Chai Badan</b>	<b>Changwat</b>	<b>Lop Buri</b>
<b>Drainage Area</b>	1,263	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank at the abutment of the bridge.				<b>Elevation</b>	+63.824 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2005 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2005 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2005 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.26	54.05	53.28	54.22	54.22	56.14	54.32	54.20	54.20	54.22	54.27	54.25	
2	54.26	53.73	53.27	54.22	54.22	55.39	54.32	54.20	54.20	54.22	54.27	54.25	
3	54.26	53.44	53.27	54.22	54.22	60.08	54.32	54.20	54.20	54.22	54.27	54.25	
4	54.26	53.35	53.27	54.22	54.22	60.08	54.32	54.20	54.20	54.22	54.27	54.25	
5	54.26	53.34	53.75	54.22	54.22	57.66	54.32	54.20	54.20	54.22	54.27	54.25	
6	54.26	53.34	54.22	54.22	54.22	56.16	54.32	54.20	54.20	54.24	54.27	54.25	
7	54.26	53.34	54.22	54.22	54.30	55.83	54.32	54.20	54.20	54.24	54.27	54.25	
8	54.26	53.34	54.22	54.22	54.35	54.98	54.32	54.20	54.20	54.24	54.27	54.25	
9	54.26	53.34	54.22	54.22	54.35	54.48	54.32	54.20	54.20	54.24	54.27	54.25	
10	54.26	53.33	54.22	54.22	54.35	54.34	54.32	54.20	54.20	54.24	54.27	54.25	
11	54.26	53.33	54.22	54.22	54.35	54.48	54.32	54.20	54.20	54.26	54.27	54.25	
12	54.26	53.33	54.22	54.22	54.35	57.19	54.32	54.20	54.20	54.26	54.27	54.25	
13	54.27	53.33	54.22	54.22	54.35	56.24	54.32	54.20	54.20	54.26	54.27	54.25	
14	54.27	53.33	54.22	54.22	54.35	55.32	54.32	54.20	54.20	54.26	54.27	54.25	
15	54.27	53.33	54.22	54.22	54.35	56.43	54.32	54.20	54.20	54.26	54.27	54.25	
16	54.27	53.33	54.22	54.22	54.35	55.18	54.32	54.20	54.20	54.28	54.27	54.25	
17	54.27	53.33	54.22	54.22	54.35	54.92	54.32	54.20	54.20	54.28	54.27	54.25	
18	54.27	53.33	54.22	54.22	54.35	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
19	54.27	53.32	54.22	54.22	54.35	54.64	54.32	54.20	54.20	54.28	54.27	54.25	
20	54.27	53.32	54.22	54.22	54.35	54.64	54.32	54.20	54.20	54.28	54.27	54.25	
21	54.27	53.32	54.22	54.22	54.36	54.64	54.32	54.20	54.20	54.28	54.27	54.25	
22	54.27	53.32	54.22	54.22	54.36	54.64	54.32	54.20	54.20	54.28	54.27	54.25	
23	54.27	53.32	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
24	54.28	53.32	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
25	54.28	53.32	54.22	54.22	54.51	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
26	54.28	53.30	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
27	54.28	53.29	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
28	54.28	53.29	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
29	54.28	53.29	54.22	54.22	54.36	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
30	54.28	53.29	54.22	54.22	55.88	54.63	54.32	54.20	54.20	54.28	54.27	54.25	
31		53.29		54.22	58.40		54.32		54.20	54.28		54.25	
Mean	54.27	53.36	54.08	54.22	54.51	55.50	54.32	54.20	54.20	54.26	54.27	54.25	
Max	54.28	54.05	54.22	54.22	58.40	60.08	54.32	54.20	54.20	54.28	54.27	54.25	60.08
Min	54.26	53.29	53.27	54.22	54.22	54.34	54.32	54.20	54.20	54.22	54.27	54.25	53.27
Annual Max Momentary Gage Height	61.21		m. (MSL.) ,			at 20.00 Hours , on Sep 3 , 2019							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	53.33	m. (MSL.)					
Left Bank Elevation		63.82		m. (MSL.) ,									
Right Bank Elevation		63.84		m. (MSL.) ,		Drainage Are	1,263	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.00	0.00	0.04	0.04	6.78	0.24	0.00	0.00	0.04	0.14	0.10	
2	0.12	0.00	0.00	0.04	0.04	2.97	0.24	0.00	0.00	0.04	0.14	0.10	
3	0.12	0.00	0.00	0.04	0.04	67.36	0.24	0.00	0.00	0.04	0.14	0.10	
4	0.12	0.00	0.00	0.04	0.04	67.36	0.24	0.00	0.00	0.04	0.14	0.10	
5	0.12	0.00	0.00	0.04	0.04	23.44	0.24	0.00	0.00	0.04	0.14	0.10	
6	0.12	0.00	0.04	0.04	0.04	6.92	0.24	0.00	0.00	0.08	0.14	0.10	
7	0.12	0.00	0.04	0.04	0.20	4.95	0.24	0.00	0.00	0.08	0.14	0.10	
8	0.12	0.00	0.04	0.04	0.30	1.74	0.24	0.00	0.00	0.08	0.14	0.10	
9	0.12	0.00	0.04	0.04	0.30	0.56	0.24	0.00	0.00	0.08	0.14	0.10	
10	0.12	0.00	0.04	0.04	0.30	0.28	0.24	0.00	0.00	0.08	0.14	0.10	
11	0.12	0.00	0.04	0.04	0.30	0.56	0.24	0.00	0.00	0.12	0.14	0.10	
12	0.12	0.00	0.04	0.04	0.30	17.58	0.24	0.00	0.00	0.12	0.14	0.10	
13	0.14	0.00	0.04	0.04	0.30	7.52	0.24	0.00	0.00	0.12	0.14	0.10	
14	0.14	0.00	0.04	0.04	0.30	2.76	0.24	0.00	0.00	0.12	0.14	0.10	
15	0.14	0.00	0.04	0.04	0.30	9.10	0.24	0.00	0.00	0.12	0.14	0.10	
16	0.14	0.00	0.04	0.04	0.30	2.34	0.24	0.00	0.00	0.16	0.14	0.10	
17	0.14	0.00	0.04	0.04	0.30	1.56	0.24	0.00	0.00	0.16	0.14	0.10	
18	0.14	0.00	0.04	0.04	0.30	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
19	0.14	0.00	0.04	0.04	0.30	0.88	0.24	0.00	0.00	0.16	0.14	0.10	
20	0.14	0.00	0.04	0.04	0.30	0.88	0.24	0.00	0.00	0.16	0.14	0.10	
21	0.14	0.00	0.04	0.04	0.32	0.88	0.24	0.00	0.00	0.16	0.14	0.10	
22	0.14	0.00	0.04	0.04	0.32	0.88	0.24	0.00	0.00	0.16	0.14	0.10	
23	0.14	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
24	0.16	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
25	0.16	0.00	0.04	0.04	0.62	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
26	0.16	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
27	0.16	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
28	0.16	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
29	0.16	0.00	0.04	0.04	0.32	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
30	0.16	0.00	0.04	0.04	5.20	0.86	0.24	0.00	0.00	0.16	0.14	0.10	
31		0.00		0.04	34.50		0.24		0.00	0.16		0.10	
Total	4.10	0.00	1.00	1.24	47.22	235.04	7.44	0.00	0.00	3.76	4.06	3.10	306.96 CMSDAY
Mean	0.14	0.00	0.03	0.04	1.52	7.83	0.24	0.00	0.00	0.12	0.14	0.10	0.84 CMS
Max	0.16	0.00	0.04	0.04	34.50	67.36	0.24	0.00	0.00	0.16	0.14	0.10	67.36 CMS
Min	0.12	0.00	0.00	0.04	0.04	0.28	0.24	0.00	0.00	0.04	0.14	0.10	0.00 CMS
Runoff	0.35	0.00	0.09	0.11	4.08	20.31	0.64	0.00	0.00	0.32	0.35	0.27	26.52 MCM
Momentary Peak	93.66	CMS.	at 61.21 m. (MSL.)	at 20.00 Hours	on Sep 3, 2019								
Runoff Yield	0.67	Liters/Second/Square KM.		Momentary Peak Yield	74.15	Liters/Second/Square KM.							



## WATER YEAR : 2019

## PASAK RIVER BASIN

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

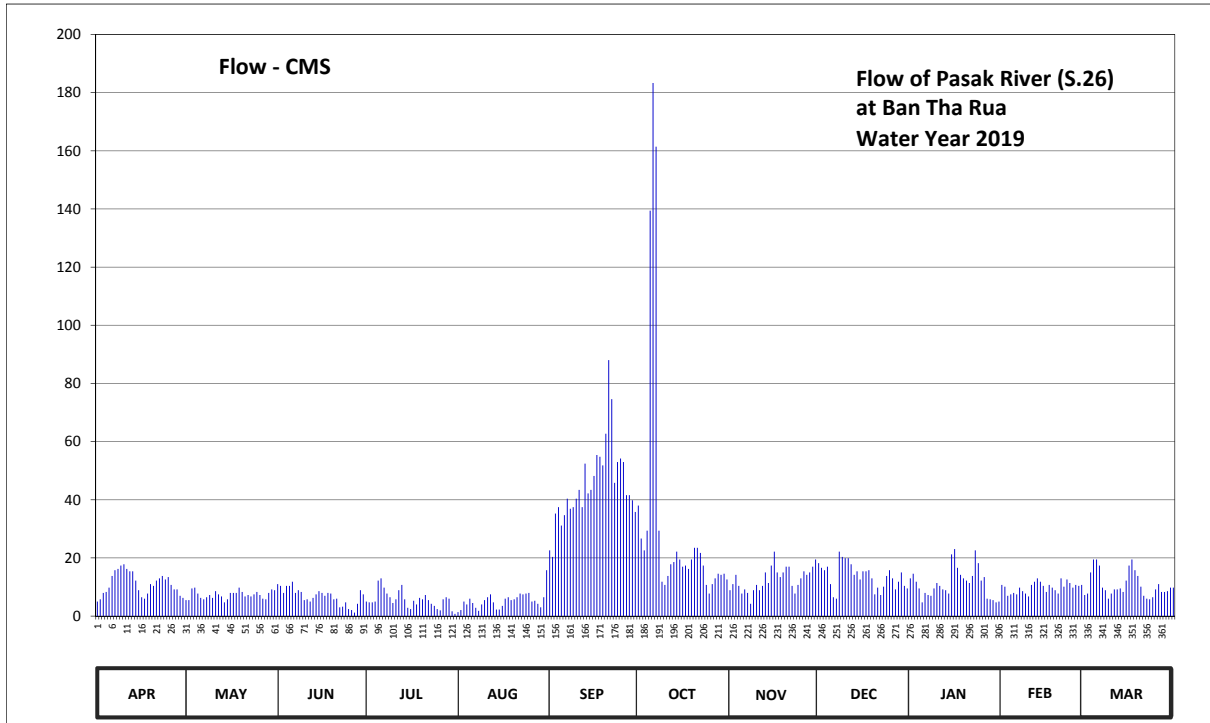
Lat 14 - 33 - 22 N Long 100 - 43 - 38 E

Location : on right bank at Ban Tha Rua

	<b>Ban Tha Rua</b>	<b>Amphoe Tha Rua</b>	<b>Changwat Phra Nakhon Si Ayutthaya</b>
<b>Drainage Area</b>	15,425 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the automatic gage buiding	<b>Elevation</b>	+7.647 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 , 2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1998, 2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Pasak Cholasit Dam. Stage-discharge relation defined by 3 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.30	0.50	0.28	0.09	0.78	1.10	0.43	0.68	0.55	0.49	0.37	
2	0.31	0.30	0.48	0.27	0.14	0.73	0.87	0.50	0.64	0.59	0.47	0.39	
3	0.40	0.45	0.40	0.27	0.28	1.05	0.78	0.58	0.62	0.52	0.36	0.60	
4	0.41	0.46	0.48	0.28	0.24	1.09	0.93	0.48	0.65	0.45	0.38	0.71	
5	0.46	0.39	0.48	0.53	0.32	0.97	2.46	0.39	0.50	0.27	0.40	0.71	
6	0.57	0.33	0.52	0.55	0.26	1.04	2.90	0.44	0.34	0.40	0.38	0.66	
7	0.62	0.31	0.40	0.46	0.19	1.14	2.69	0.40	0.32	0.37	0.46	0.46	
8	0.63	0.34	0.43	0.39	0.12	1.08	0.93	0.25	0.77	0.36	0.42	0.43	
9	0.66	0.37	0.41	0.34	0.24	1.09	0.52	0.43	0.73	0.45	0.39	0.32	
10	0.67	0.33	0.30	0.26	0.30	1.14	0.49	0.49	0.72	0.51	0.35	0.39	
11	0.63	0.42	0.31	0.31	0.34	1.19	0.57	0.43	0.72	0.48	0.49	0.44	
12	0.61	0.38	0.28	0.43	0.38	1.09	0.67	0.48	0.67	0.44	0.52	0.44	
13	0.61	0.35	0.33	0.49	0.27	1.34	0.69	0.60	0.58	0.43	0.55	0.45	
14	0.53	0.27	0.38	0.31	0.15	1.17	0.77	0.51	0.61	0.39	0.52	0.41	
15	0.43	0.31	0.42	0.19	0.15	1.19	0.71	0.66	0.54	0.75	0.48	0.53	
16	0.34	0.40	0.40	0.16	0.22	1.27	0.65	0.77	0.61	0.79	0.41	0.66	
17	0.32	0.40	0.36	0.29	0.32	1.39	0.66	0.60	0.61	0.64	0.49	0.71	
18	0.39	0.40	0.40	0.24	0.34	1.38	0.63	0.56	0.62	0.58	0.46	0.62	
19	0.50	0.46	0.39	0.33	0.30	1.33	0.71	0.60	0.55	0.55	0.43	0.57	
20	0.48	0.41	0.31	0.31	0.31	1.51	0.80	0.65	0.38	0.53	0.39	0.47	
21	0.53	0.35	0.32	0.37	0.34	1.85	0.80	0.65	0.46	0.51	0.55	0.36	
22	0.55	0.37	0.20	0.30	0.39	1.68	0.76	0.48	0.37	0.57	0.47	0.32	
23	0.57	0.35	0.21	0.25	0.38	1.23	0.66	0.39	0.47	0.78	0.54	0.31	
24	0.54	0.38	0.27	0.22	0.39	1.35	0.49	0.49	0.57	0.68	0.51	0.34	
25	0.56	0.41	0.16	0.16	0.40	1.37	0.39	0.55	0.62	0.53	0.46	0.44	
26	0.49	0.37	0.14	0.13	0.28	1.35	0.50	0.61	0.55	0.56	0.49	0.50	
27	0.44	0.32	0.08	0.31	0.29	1.16	0.55	0.58	0.44	0.32	0.48	0.41	
28	0.44	0.31	0.25	0.34	0.25	1.16	0.59	0.60	0.52	0.31	0.49	0.41	
29	0.36	0.40	0.43	0.32	0.20	1.13	0.58	0.65	0.60	0.30	0.45	0.42	
30	0.33	0.44	0.38	0.11	0.34	1.06	0.59	0.71	0.48	0.27	0.31	0.46	
31		0.43		0.05	0.62		0.54		0.45	0.28		0.46	
Mean	0.49	0.37	0.35	0.30	0.29	1.21	0.87	0.53	0.56	0.49	0.46	0.48	
Max	0.67	0.46	0.52	0.55	0.62	1.85	2.90	0.77	0.77	0.79	0.55	0.71	2.90
Min	0.28	0.27	0.08	0.05	0.09	0.73	0.39	0.25	0.32	0.27	0.35	0.31	0.05
Annual Max Momentary Gage Height	3.12												at 05.00 Hours , on Oct 6 , 2019
Zero Gage at Bottom Elevation	0.00						-4.60						m. (MSL.)
Left Bank Elevation		10.13											m. (MSL.)
Right Bank Elevation		9.64											m. (MSL.)
Drainage Area						15,425							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.00	5.50	11.00	5.00	1.35	22.60	38.00	8.90	18.20	13.00	10.70	7.25		
2	5.75	5.50	10.40	4.75	2.10	20.35	26.65	11.00	16.60	14.60	10.10	7.75		
3	8.00	9.50	8.00	4.75	5.00	35.25	22.60	14.20	15.80	11.80	7.00	15.00		
4	8.30	9.80	10.40	5.00	4.00	37.45	29.35	10.40	17.00	9.50	7.50	19.45		
5	9.80	7.75	10.40	12.20	6.00	31.15	139.40	7.75	11.00	4.75	8.00	19.45		
6	13.80	6.25	11.80	13.00	4.50	34.70	183.29	9.20	6.50	8.00	7.50	17.40		
7	15.80	5.75	8.00	9.80	2.85	40.40	161.39	8.00	6.00	7.25	9.80	9.80		
8	16.20	6.50	8.90	7.75	1.80	36.90	29.35	4.25	22.15	7.00	8.60	8.90		
9	17.40	7.25	8.30	6.50	4.00	37.45	11.80	8.90	20.35	9.50	7.75	6.00		
10	17.80	6.25	5.50	4.50	5.50	40.40	10.70	10.70	19.90	11.40	6.75	7.75		
11	16.20	8.60	5.75	5.75	6.50	43.40	13.80	8.90	19.90	10.40	10.70	9.20		
12	15.40	7.50	5.00	8.90	7.50	37.45	17.80	10.40	17.80	9.20	11.80	9.20		
13	15.40	6.75	6.25	10.70	4.75	52.40	18.60	15.00	14.20	8.90	13.00	9.50		
14	12.20	4.75	7.50	5.75	2.25	42.20	22.15	11.40	15.40	7.75	11.80	8.30		
15	8.90	5.75	8.60	2.85	2.25	43.40	19.45	17.40	12.60	21.25	10.40	12.20		
16	6.50	8.00	8.00	2.40	3.50	48.20	17.00	22.15	15.40	23.05	8.30	17.40		
17	6.00	8.00	7.00	5.25	6.00	55.40	17.40	15.00	15.40	16.60	10.70	19.45		
18	7.75	8.00	8.00	4.00	6.50	54.80	16.20	13.40	15.80	14.20	9.80	15.80		
19	11.00	9.80	7.75	6.25	5.50	51.80	19.45	15.00	13.00	13.00	8.90	13.80		
20	10.40	8.30	5.75	5.75	5.75	62.70	23.50	17.00	7.50	12.20	7.75	10.10		
21	12.20	6.75	6.00	7.25	6.50	88.00	23.50	17.00	9.80	11.40	13.00	7.00		
22	13.00	7.25	3.00	5.50	7.75	74.60	21.70	10.40	7.25	13.80	10.10	6.00		
23	13.80	6.75	3.25	4.25	7.50	45.80	17.40	7.75	10.10	22.60	12.60	5.75		
24	12.60	7.50	4.75	3.50	7.75	53.00	10.70	10.70	13.80	18.20	11.40	6.50		
25	13.40	8.30	2.40	2.40	8.00	54.20	7.75	13.00	15.80	12.20	9.80	9.20		
26	10.70	7.25	2.10	1.95	5.00	53.00	11.00	15.40	13.00	13.40	10.70	11.00		
27	9.20	6.00	1.20	5.75	5.25	41.60	13.00	14.20	9.20	6.00	10.40	8.30		
28	9.20	5.75	4.25	6.50	4.25	41.60	14.60	15.00	11.80	5.75	10.70	8.30		
29	7.00	8.00	8.90	6.00	3.00	39.80	14.20	17.00	15.00	5.50	9.50	8.60		
30	6.25	9.20	7.50	1.65	6.50	35.80	14.60	19.45	10.40	4.75		9.80		
31		8.90		0.75	15.80		12.60		9.50	5.00		9.80		
<b>Total</b>	<b>334.95</b>	<b>227.15</b>	<b>205.65</b>	<b>176.35</b>	<b>164.90</b>	<b>1355.80</b>	<b>998.93</b>	<b>378.85</b>	<b>426.15</b>	<b>351.95</b>	<b>285.05</b>	<b>333.95</b>	<b>5239.68</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>11.16</b>	<b>7.33</b>	<b>6.86</b>	<b>5.69</b>	<b>5.32</b>	<b>45.19</b>	<b>32.22</b>	<b>12.63</b>	<b>13.75</b>	<b>11.35</b>	<b>9.83</b>	<b>10.77</b>	<b>14.32</b>	<b>CMS</b>
<b>Max</b>	<b>17.80</b>	<b>9.80</b>	<b>11.80</b>	<b>13.00</b>	<b>15.80</b>	<b>88.00</b>	<b>183.29</b>	<b>22.15</b>	<b>22.15</b>	<b>23.05</b>	<b>13.00</b>	<b>19.45</b>	<b>183.29</b>	<b>CMS</b>
<b>Min</b>	<b>5.00</b>	<b>4.75</b>	<b>1.20</b>	<b>0.75</b>	<b>1.35</b>	<b>20.35</b>	<b>7.75</b>	<b>4.25</b>	<b>6.00</b>	<b>4.75</b>	<b>6.75</b>	<b>5.75</b>	<b>0.75</b>	<b>CMS</b>
<b>Runoff</b>	<b>28.94</b>	<b>19.63</b>	<b>17.77</b>	<b>15.24</b>	<b>14.25</b>	<b>117.14</b>	<b>86.31</b>	<b>32.73</b>	<b>36.82</b>	<b>30.41</b>	<b>24.63</b>	<b>28.85</b>	<b>452.71</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>206.23</b>	<b>CMS.</b>	<b>at 3.12 m. (MSL.)</b>	<b>at 05.00 Hours ,</b>	<b>on Oct 6 , 2019</b>									
<b>Runoff Yield</b>	<b>0.93</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>13.37</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PASAK RIVER BASIN

## Pasak River at Ban Nong Bua , Lop Buri (S.28)

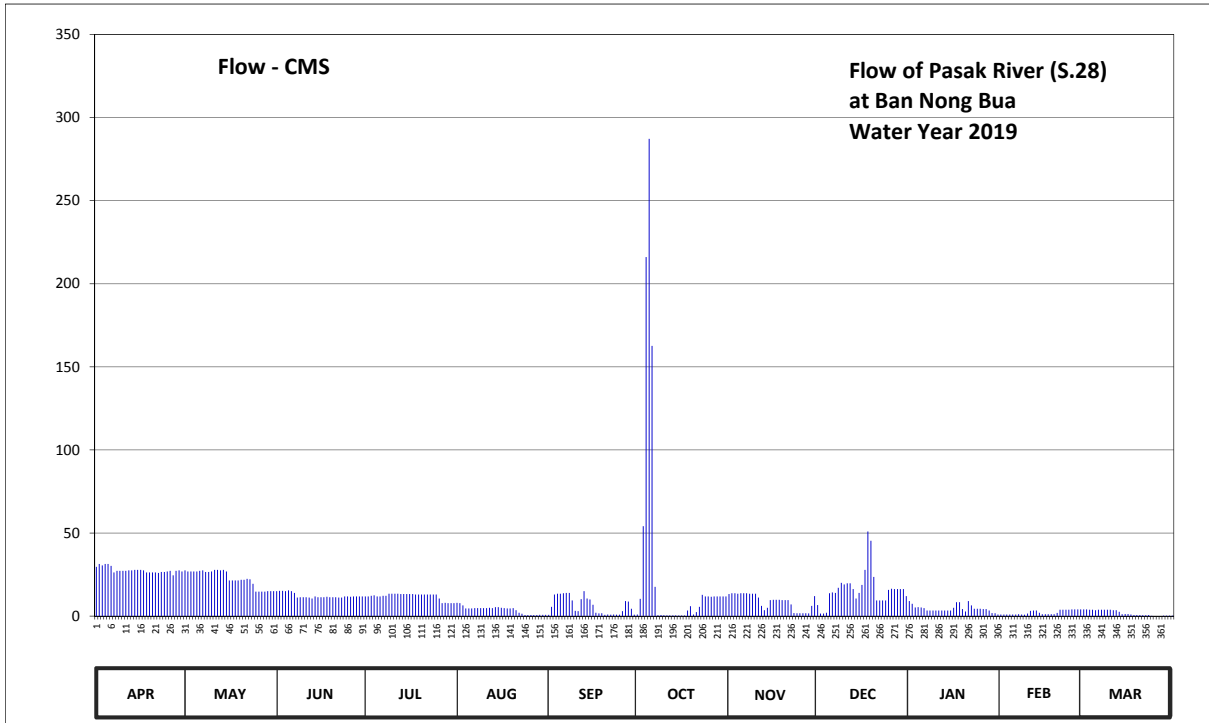
Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe</b> Phatthana Nikhom	<b>Changwat</b> Lop Buri
<b>Drainage Area</b>	8,778 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the automatic gage buiding	<b>Elevation</b>	+32.571 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1998 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by Pasak Cholasit Dam. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.72	17.65	17.22	17.09	16.90	16.48	16.50	17.15	16.83	16.95	16.50	16.70	
2	17.78	17.63	17.23	17.09	16.89	16.78	17.02	17.17	16.55	16.87	16.50	16.70	
3	17.75	17.63	17.23	17.11	16.82	17.14	18.46	17.17	16.55	16.76	16.50	16.69	
4	17.78	17.63	17.22	17.12	16.73	17.16	21.65	17.16	16.60	16.77	16.50	16.69	
5	17.78	17.63	17.24	17.09	16.73	17.16	22.76	17.17	17.17	16.76	16.50	16.68	
6	17.74	17.64	17.22	17.09	16.73	17.17	20.76	17.17	17.19	16.74	16.50	16.69	
7	17.61	17.65	17.18	17.11	16.74	17.18	17.32	17.17	17.18	16.67	16.51	16.69	
8	17.64	17.62	17.06	17.11	16.74	17.18	16.46	17.16	17.30	16.67	16.50	16.69	
9	17.64	17.62	17.07	17.16	16.74	16.97	16.47	17.16	17.40	16.67	16.49	16.69	
10	17.64	17.63	17.07	17.16	16.74	16.66	16.46	17.16	17.37	16.67	16.55	16.69	
11	17.64	17.66	17.07	17.16	16.74	16.65	16.45	17.06	17.39	16.67	16.66	16.68	
12	17.65	17.66	17.06	17.16	16.75	17.01	16.45	16.81	17.39	16.67	16.67	16.68	
13	17.65	17.65	17.03	17.15	16.74	17.22	16.45	16.68	17.27	16.67	16.67	16.63	
14	17.66	17.66	17.09	17.15	16.77	17.03	16.45	16.75	17.03	16.67	16.60	16.51	
15	17.66	17.63	17.07	17.15	16.77	17.00	16.44	16.98	17.18	16.67	16.51	16.52	
16	17.66	17.45	17.07	17.15	16.75	16.84	16.44	16.99	17.36	16.75	16.51	16.52	
17	17.65	17.45	17.07	17.15	16.74	16.60	16.44	16.99	17.66	16.92	16.51	16.50	
18	17.61	17.45	17.08	17.14	16.73	16.56	16.67	16.99	18.37	16.92	16.51	16.47	
19	17.61	17.45	17.07	17.14	16.73	16.57	16.80	16.98	18.21	16.71	16.51	16.47	
20	17.61	17.46	17.07	17.14	16.74	16.48	16.50	16.98	17.52	16.64	16.59	16.47	
21	17.61	17.46	17.07	17.14	16.68	16.50	16.62	16.98	16.97	16.95	16.69	16.46	
22	17.60	17.48	17.06	17.14	16.60	16.49	16.78	16.85	16.97	16.82	16.69	16.46	
23	17.62	17.47	17.06	17.14	16.54	16.50	17.13	16.58	16.97	16.72	16.69	16.47	
24	17.62	17.38	17.09	17.14	16.47	16.49	17.09	16.57	16.97	16.72	16.69	16.42	
25	17.63	17.21	17.09	17.14	16.47	16.49	17.09	16.57	17.25	16.72	16.70	16.37	
26	17.64	17.21	17.08	17.03	16.47	16.65	17.08	16.57	17.28	16.71	16.70	16.37	
27	17.55	17.21	17.09	16.89	16.47	16.95	17.09	16.57	17.27	16.71	16.70	16.40	
28	17.64	17.21	17.09	16.90	16.47	16.94	17.09	16.56	17.27	16.67	16.70	16.43	
29	17.65	17.22	17.09	16.89	16.48	16.72	17.09	16.81	17.27	16.58	16.70	16.43	
30	17.63	17.22	17.09	16.89	16.48	16.49	17.09	17.10	17.27	16.57	16.70	16.43	
31		17.22		16.89	16.48		17.09		17.10	16.50		16.43	
Mean	17.66	17.49	17.11	17.09	16.67	16.80	17.30	16.93	17.23	16.73	16.59	16.55	
Max	17.78	17.66	17.24	17.16	16.90	17.22	22.76	17.17	18.37	16.95	16.70	16.70	22.76
Min	17.55	17.21	17.03	16.89	16.47	16.48	16.44	16.56	16.55	16.50	16.49	16.37	16.37
Annual Max Momentary Gage Height	23.08		m. (MSL.) ,				at 10.00 Hours , on Oct 5 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	15.17	m. (MSL.)					
Left Bank Elevation		32.02		m. (MSL.) ,									
Right Bank Elevation		31.81		m. (MSL.) ,		Drainage Are	8,778	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.60	27.50	15.00	11.80	8.00	0.80	1.00	13.25	6.60	9.00	1.00	4.00	
2	31.40	26.90	15.25	11.80	7.80	5.60	10.40	13.75	1.50	7.40	1.00	4.00	
3	30.50	26.90	15.25	12.25	6.40	13.00	54.10	13.75	1.50	5.20	1.00	3.80	
4	31.40	26.90	15.00	12.50	4.60	13.50	216.00	13.50	2.00	5.40	1.00	3.80	
5	31.40	26.90	15.50	11.80	4.60	13.50	287.20	13.75	13.75	5.20	1.00	3.60	
6	30.20	27.20	15.00	11.80	4.60	13.75	162.60	13.75	14.25	4.80	1.00	3.80	
7	26.30	27.50	14.00	12.25	4.80	14.00	17.60	13.75	14.00	3.40	1.10	3.80	
8	27.20	26.60	11.20	12.25	4.80	14.00	0.60	13.50	17.00	3.40	1.00	3.80	
9	27.20	26.60	11.40	13.50	4.80	9.40	0.70	13.50	20.00	3.40	0.90	3.80	
10	27.20	26.90	11.40	13.50	4.80	3.20	0.60	13.50	19.10	3.40	1.50	3.80	
11	27.20	27.80	11.40	13.50	4.80	3.00	0.50	11.20	19.70	3.40	3.20	3.60	
12	27.50	27.80	11.20	13.50	5.00	10.20	0.50	6.20	19.70	3.40	3.40	3.60	
13	27.50	27.50	10.60	13.25	4.80	15.00	0.50	3.60	16.25	3.40	3.40	2.60	
14	27.80	27.80	11.80	13.25	5.40	10.60	0.50	5.00	10.60	3.40	2.00	1.10	
15	27.80	26.90	11.40	13.25	5.40	10.00	0.40	9.60	14.00	3.40	1.10	1.20	
16	27.80	21.50	11.40	13.25	5.00	6.80	0.40	9.80	18.80	5.00	1.10	1.20	
17	27.50	21.50	11.40	13.25	4.80	2.00	0.40	9.80	27.80	8.40	1.10	1.00	
18	26.30	21.50	11.60	13.00	4.60	1.60	3.40	9.80	50.95	8.40	1.10	0.70	
19	26.30	21.50	11.40	13.00	4.60	1.70	6.00	9.60	45.35	4.20	1.10	0.70	
20	26.30	21.80	11.40	13.00	4.80	0.80	1.00	9.60	23.60	2.80	1.90	0.70	
21	26.30	21.80	11.40	13.00	3.60	1.00	2.40	9.60	9.40	9.00	3.80	0.60	
22	26.00	22.40	11.20	13.00	2.00	0.90	5.60	7.00	9.40	6.40	3.80	0.60	
23	26.60	22.10	11.20	13.00	1.40	1.00	12.75	1.80	9.40	4.40	3.80	0.70	
24	26.60	19.40	11.80	13.00	0.70	0.90	11.80	1.70	9.40	4.40	3.80	0.20	
25	26.90	14.75	11.80	13.00	0.70	0.90	11.80	1.70	15.75	4.40	4.00	0.00	
26	27.20	14.75	11.60	10.60	0.70	3.00	11.60	1.70	16.50	4.20	4.00	0.00	
27	24.50	14.75	11.80	7.80	0.70	9.00	11.80	1.70	16.25	4.20	4.00	0.00	
28	27.20	14.75	11.80	8.00	0.70	8.80	11.80	1.60	16.25	3.40	4.00	0.30	
29	27.50	15.00	11.80	7.80	0.80	4.40	11.80	6.20	16.25	1.80	4.00	0.30	
30	26.90	15.00	11.80	7.80	0.80	0.90	11.80	12.00	16.25	1.70		0.30	
31		15.00		7.80	0.80		11.80		12.00	1.00		0.30	
<b>Total</b>	<b>830.10</b>	<b>705.20</b>	<b>368.80</b>	<b>370.50</b>	<b>117.30</b>	<b>193.25</b>	<b>879.35</b>	<b>265.20</b>	<b>503.30</b>	<b>141.30</b>	<b>65.10</b>	<b>57.90</b>	<b>4497.30</b> CMSDAY
<b>Mean</b>	<b>27.67</b>	<b>22.75</b>	<b>12.29</b>	<b>11.95</b>	<b>3.78</b>	<b>6.44</b>	<b>28.37</b>	<b>8.84</b>	<b>16.24</b>	<b>4.56</b>	<b>2.24</b>	<b>1.87</b>	<b>12.29</b> CMS
<b>Max</b>	<b>31.40</b>	<b>27.80</b>	<b>15.50</b>	<b>13.50</b>	<b>8.00</b>	<b>15.00</b>	<b>287.20</b>	<b>13.75</b>	<b>50.95</b>	<b>9.00</b>	<b>4.00</b>	<b>4.00</b>	<b>287.20</b> CMS
<b>Min</b>	<b>24.50</b>	<b>14.75</b>	<b>10.60</b>	<b>7.80</b>	<b>0.70</b>	<b>0.70</b>	<b>0.40</b>	<b>1.60</b>	<b>1.50</b>	<b>1.00</b>	<b>0.90</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>71.72</b>	<b>60.93</b>	<b>31.86</b>	<b>32.01</b>	<b>10.13</b>	<b>16.70</b>	<b>75.98</b>	<b>22.91</b>	<b>43.49</b>	<b>12.21</b>	<b>5.62</b>	<b>5.00</b>	<b>388.57</b> MCM
<b>Momentary Peak</b>		<b>309.60</b> CMS.		<b>CMS. at 23.08 m. (MSL.)</b>									<b>at 10.00 Hours , on Oct 5 , 2019</b>
<b>Runoff Yield</b>		<b>1.40</b>		<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>		<b>35.27</b>				<b>Liters/Second/Square KM.</b>

## WATER YEAR : 2019

## PASAK RIVER BASIN

## Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

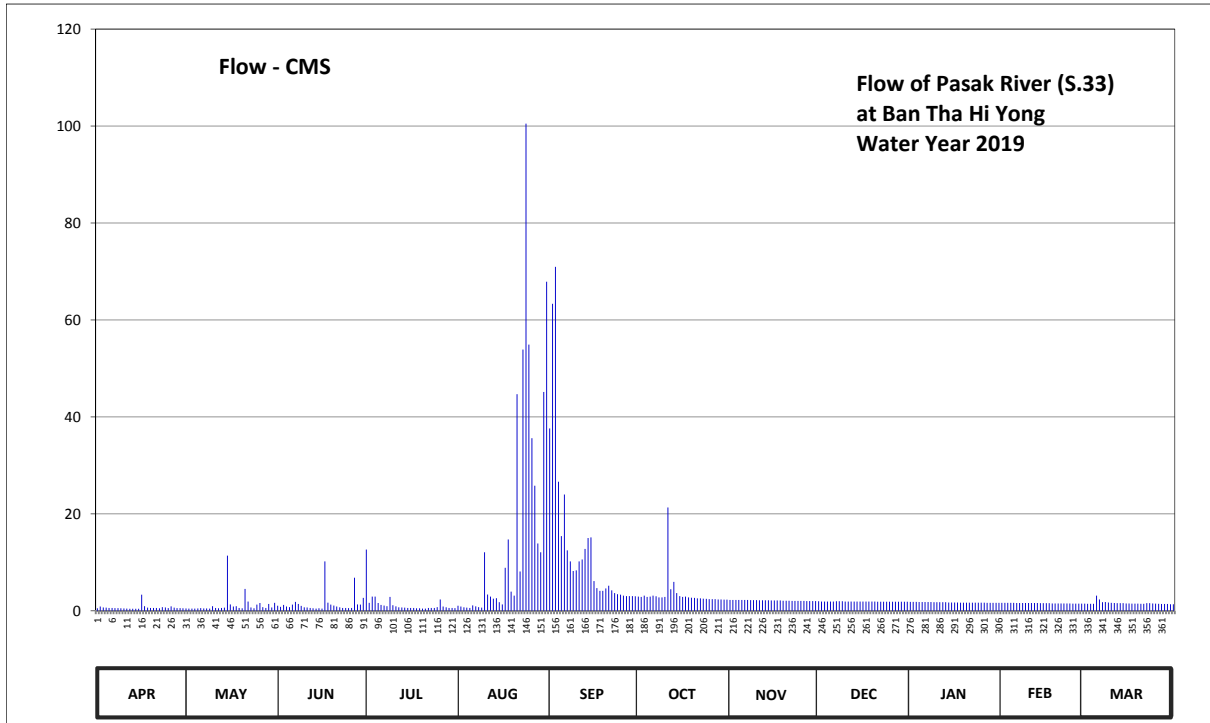
Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

	<b>Ban</b>	<b>Tha Hai Yong</b>	<b>Amphoe</b>	<b>Lom Kao</b>	<b>Changwat</b>	<b>Phetchabun</b>
<b>Drainage Area</b>	521	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+190.090 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+198.009 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1999 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1999 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1999 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.17	191.16	191.31	192.78	191.31	194.17	191.74	191.61	191.54	191.51	191.46	191.42	
2	191.27	191.15	191.25	191.46	191.27	195.18	191.73	191.61	191.53	191.51	191.46	191.41	
3	191.22	191.15	191.35	191.74	191.23	195.42	191.78	191.61	191.53	191.51	191.46	191.41	
4	191.21	191.15	191.27	191.74	191.21	193.64	191.73	191.61	191.53	191.50	191.46	191.41	
5	191.19	191.16	191.24	191.45	191.20	192.98	191.74	191.61	191.53	191.50	191.46	191.78	
6	191.19	191.18	191.37	191.35	191.33	193.50	191.78	191.61	191.53	191.50	191.45	191.63	
7	191.18	191.16	191.51	191.32	191.28	192.77	191.75	191.61	191.54	191.50	191.45	191.49	
8	191.18	191.16	191.40	191.29	191.24	192.60	191.71	191.60	191.54	191.50	191.45	191.50	
9	191.17	191.15	191.30	191.73	191.21	192.42	191.71	191.60	191.54	191.49	191.45	191.48	
10	191.16	191.29	191.23	191.34	192.74	192.43	191.73	191.60	191.53	191.49	191.45	191.46	
11	191.15	191.20	191.22	191.28	191.82	192.60	193.35	191.59	191.53	191.49	191.45	191.45	
12	191.14	191.17	191.19	191.23	191.74	192.63	191.98	191.59	191.53	191.49	191.45	191.44	
13	191.14	191.19	191.17	191.22	191.66	192.79	192.17	191.59	191.53	191.49	191.45	191.44	
14	191.14	191.21	191.15	191.21	191.68	192.95	191.87	191.59	191.53	191.48	191.44	191.44	
15	191.14	192.69	191.17	191.19	191.49	192.96	191.76	191.58	191.53	191.48	191.44	191.43	
16	191.81	191.38	191.15	191.19	191.38	192.19	191.73	191.58	191.53	191.48	191.44	191.43	
17	191.29	191.07	192.60	191.19	192.48	192.01	191.74	191.58	191.53	191.48	191.44	191.42	
18	191.21	191.29	191.47	191.17	192.93	191.94	191.71	191.58	191.53	191.47	191.43	191.42	
19	191.20	191.19	191.37	191.17	191.92	191.94	191.70	191.57	191.53	191.47	191.43	191.42	
20	191.20	191.17	191.32	191.15	191.78	192.00	191.69	191.57	191.53	191.47	191.43	191.41	
21	191.19	191.19	191.27	191.15	194.47	192.07	191.67	191.57	191.52	191.47	191.43	191.41	
22	191.17	191.53	191.23	191.19	192.41	191.95	191.67	191.56	191.52	191.47	191.43	191.44	
23	191.24	191.22	191.19	191.20	194.83	191.87	191.66	191.56	191.52	191.47	191.43	191.44	
24	191.22	191.17	191.19	191.19	196.05	191.83	191.65	191.56	191.52	191.47	191.43	191.44	
25	191.18	191.37	191.18	191.24	194.87	191.81	191.64	191.56	191.52	191.47	191.42	191.44	
26	191.28	191.45	191.20	191.63	194.08	191.78	191.64	191.56	191.52	191.47	191.42	191.41	
27	191.21	191.24	192.27	191.27	193.60	191.76	191.64	191.55	191.52	191.46	191.42	191.41	
28	191.18	191.19	191.38	191.23	192.87	191.76	191.63	191.55	191.52	191.46	191.42	191.40	
29	191.18	191.40	191.37	191.19	192.74	191.76	191.63	191.55	191.52	191.46	191.42	191.40	
30	191.17	191.22	191.69	191.20	194.49	191.75	191.62	191.55	191.52	191.46	191.42	191.39	
31		191.46		191.18	195.33		191.62		191.52	191.46		191.39	
Mean	191.21	191.28	191.37	191.35	192.54	192.58	191.78	191.58	191.53	191.48	191.44	191.45	
Max	191.81	192.69	192.60	192.78	196.05	195.42	193.35	191.61	191.54	191.51	191.46	191.78	196.05
Min	191.14	191.07	191.15	191.15	191.20	191.75	191.62	191.55	191.52	191.46	191.42	191.39	191.07
Annual Max Momentary Gage Height	197.48		m. (MSL.) ,				at 07.00 Hours ,						
Zero Gage at Bottom Elevation	190.09		m. (MSL.) ,			River Bed	190.93		m. (MSL.)				
Left Bank Elevation		198.82		m. (MSL.) ,									
Right Bank Elevation		198.76		m. (MSL.) ,		Drainage Are	521		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.51	0.48	1.04	12.62	1.04	37.61	2.92	2.25	1.96	1.84	1.64	1.48	
2	0.88	0.45	0.80	1.64	0.88	63.34	2.87	2.25	1.92	1.84	1.64	1.44	
3	0.68	0.45	1.20	2.92	0.72	70.96	3.14	2.25	1.92	1.84	1.64	1.44	
4	0.64	0.45	0.88	2.92	0.64	26.62	2.87	2.25	1.92	1.80	1.64	1.44	
5	0.57	0.48	0.76	1.60	0.60	15.42	2.92	2.25	1.92	1.80	1.64	3.14	
6	0.57	0.54	1.28	1.20	1.12	24.00	3.14	2.25	1.92	1.80	1.60	2.35	
7	0.54	0.48	1.84	1.08	0.92	12.48	2.98	2.25	1.96	1.80	1.60	1.76	
8	0.54	0.48	1.40	0.96	0.76	10.20	2.76	2.20	1.96	1.80	1.60	1.80	
9	0.51	0.45	1.00	2.87	0.64	8.22	2.76	2.20	1.96	1.76	1.60	1.72	
10	0.48	0.96	0.72	1.16	12.06	8.33	2.87	2.20	1.92	1.76	1.60	1.64	
11	0.45	0.60	0.68	0.92	3.36	10.20	21.30	2.16	1.92	1.76	1.60	1.60	
12	0.42	0.51	0.57	0.72	2.92	10.59	4.44	2.16	1.92	1.76	1.60	1.56	
13	0.42	0.57	0.51	0.68	2.50	12.76	5.96	2.16	1.92	1.76	1.60	1.56	
14	0.42	0.64	0.45	0.64	2.60	15.00	3.64	2.16	1.92	1.72	1.56	1.56	
15	0.42	11.37	0.51	0.57	1.76	15.14	3.03	2.12	1.92	1.72	1.56	1.52	
16	3.31	1.32	0.45	0.57	1.32	6.12	2.87	2.12	1.92	1.72	1.56	1.52	
17	0.96	0.88	10.20	0.57	8.88	4.68	2.92	2.12	1.92	1.72	1.56	1.48	
18	0.64	0.96	1.68	0.51	14.72	4.12	2.76	2.12	1.92	1.68	1.52	1.48	
19	0.60	0.57	1.28	0.51	3.96	4.12	2.70	2.08	1.92	1.68	1.52	1.48	
20	0.60	0.51	1.08	0.45	3.14	4.60	2.65	2.08	1.92	1.68	1.52	1.44	
21	0.57	4.52	0.88	0.45	44.68	5.16	2.55	2.08	1.88	1.68	1.52	1.44	
22	0.51	1.92	0.72	0.57	8.11	4.20	2.55	2.04	1.88	1.68	1.52	1.56	
23	0.76	0.68	0.57	0.60	53.88	3.64	2.50	2.04	1.88	1.68	1.52	1.56	
24	0.68	0.51	0.57	0.57	100.50	3.42	2.45	2.04	1.88	1.68	1.52	1.52	
25	0.54	1.28	0.54	0.76	54.92	3.31	2.40	2.04	1.88	1.68	1.48	1.48	
26	0.92	1.60	0.60	2.35	35.59	3.14	2.40	2.04	1.88	1.68	1.48	1.44	
27	0.64	0.76	6.83	0.88	25.80	3.03	2.40	2.00	1.88	1.64	1.48	1.40	
28	0.54	0.57	1.32	0.72	13.88	3.03	2.35	2.00	1.88	1.64	1.48	1.40	
29	0.54	1.40	1.28	0.57	12.06	3.03	2.35	2.00	1.88	1.64	1.48	1.40	
30	0.51	0.68	2.65	0.60	45.16	2.98	2.30	2.00	1.88	1.64	1.48	1.36	
31		1.64		0.54	67.89		2.30		1.88	1.64		1.36	
<b>Total</b>	20.37	38.71	44.29	43.72	527.01	399.45	108.05	63.91	59.24	53.52	45.28	49.33	1452.88 CMSDAY
<b>Mean</b>	0.68	1.25	1.48	1.41	17.00	13.31	3.49	2.13	1.91	1.73	1.56	1.59	3.97 CMS
<b>Max</b>	3.31	11.37	10.20	12.62	100.50	70.96	21.30	2.25	1.96	1.84	1.64	3.14	100.50 CMS
<b>Min</b>	0.42	0.45	0.45	0.45	0.60	2.98	2.30	2.00	1.88	1.64	1.48	1.36	0.42 CMS
<b>Runoff</b>	1.76	3.34	3.83	3.78	45.53	34.51	9.34	5.52	5.12	4.62	3.91	4.26	125.53 MCM
<b>Momentary Peak</b>	274.38 CMS. at 197.48 m. (MSL.) at 07.00 Hours , on Aug 24 , 2019												
<b>Runoff Yield</b>	7.64 Liters/Second/Square KM.			Momentary Peak Yield			526.64 Liters/Second/Square KM.						

## WATER YEAR : 2019

## PASAK RIVER BASIN

## Pasak River at Ban Non Thong , Phetchabun (S.36)

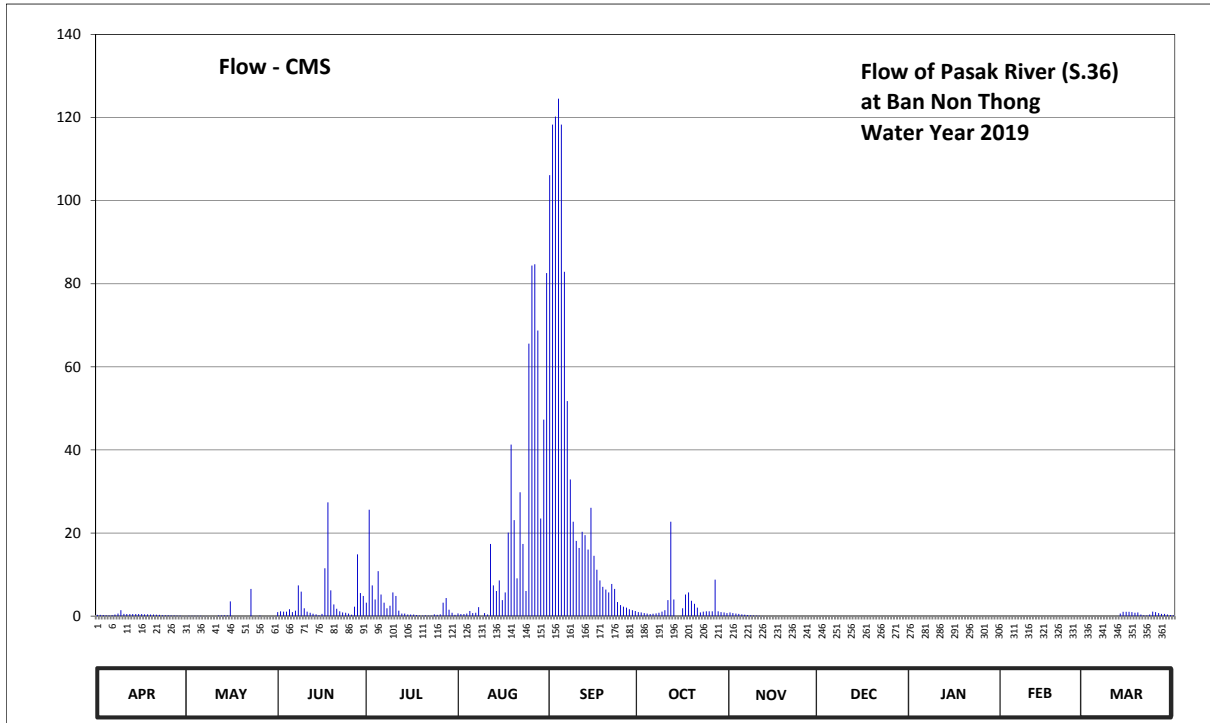
Lat 16 - 43 - 42 N Long 101 - 14 - 32 E

Location : on right bank at Ban Non Thong.

	<b>Ban Non Thong</b>	<b>Amphoe Lom Sak</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	1,775 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+130.950 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +143.140 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +139.470 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 9 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.83	134.72	134.95	135.15	134.91	139.27	134.95	134.94	134.34	134.03	133.95	133.95	
2	134.83	134.73	134.98	136.36	134.87	139.65	134.94	134.92	134.33	134.02	133.95	133.95	
3	134.82	134.73	134.97	135.40	134.87	139.71	134.92	134.90	134.32	134.01	133.95	133.95	
4	134.80	134.73	134.97	135.20	134.90	139.84	134.90	134.88	134.31	134.00	133.95	133.95	
5	134.78	134.73	135.03	135.60	134.99	139.65	134.87	134.86	134.30	133.99	133.95	133.95	
6	134.81	134.73	134.95	135.27	134.92	138.52	134.89	134.84	134.29	133.98	133.95	133.95	
7	134.85	134.72	135.00	135.15	134.93	137.45	134.91	134.82	134.28	133.97	133.95	133.95	
8	134.90	134.71	135.40	135.05	135.07	136.69	134.93	134.80	134.27	133.96	133.95	133.95	
9	135.01	134.70	135.31	135.10	134.13	136.22	134.97	134.78	134.26	133.95	133.95	133.95	
10	134.88	134.69	135.05	135.30	134.92	135.99	135.01	134.76	134.25	133.95	133.95	133.95	
11	134.87	134.68	134.97	135.25	134.85	135.90	135.19	134.74	134.24	133.95	133.95	133.95	
12	134.87	134.78	134.93	135.00	135.95	136.10	136.22	134.72	134.23	133.95	133.95	133.95	
13	134.87	134.78	134.89	134.90	135.40	136.06	135.20	134.70	134.22	133.95	133.95	134.90	
14	134.87	134.79	134.86	134.90	135.32	135.88	134.67	134.68	134.21	133.95	133.95	134.96	
15	134.87	134.78	134.79	134.85	135.47	136.38	134.52	134.66	134.20	133.95	133.95	134.96	
16	134.87	135.17	134.88	134.85	135.19	135.80	135.05	134.64	134.19	133.95	133.95	134.96	
17	134.86	134.61	135.64	134.85	135.30	135.62	135.27	134.62	134.18	133.95	133.95	134.95	
18	134.86	134.34	136.44	134.82	136.09	135.47	135.30	134.60	134.17	133.95	133.95	134.93	
19	134.85	134.15	135.33	134.78	137.04	135.38	135.18	134.58	134.16	133.95	133.95	134.94	
20	134.85	134.07	135.12	134.76	136.24	135.34	135.13	134.56	134.15	133.95	133.95	134.85	
21	134.84	133.98	135.04	134.80	135.50	135.30	135.06	134.54	134.14	133.95	133.95	134.80	
22	134.83	134.17	134.98	134.75	136.55	135.42	134.94	134.52	134.13	133.95	133.95	134.78	
23	134.81	135.35	134.94	134.75	135.95	135.35	134.97	134.50	134.12	133.95	133.95	134.85	
24	134.80	134.27	134.93	134.86	135.32	135.16	134.98	134.48	134.11	133.95	133.95	134.97	
25	134.79	134.06	134.90	134.83	137.94	135.11	134.98	134.46	134.10	133.95	133.95	134.95	
26	134.78	134.76	134.84	134.86	138.57	135.08	134.98	134.44	134.09	133.95	133.95	134.92	
27	134.77	134.37	135.08	135.15	138.58	135.06	135.48	134.42	134.08	133.95	133.95	134.88	
28	134.76	134.51	135.82	135.22	138.05	135.03	134.98	134.40	134.07	133.95	133.95	134.88	
29	134.75	134.29	135.29	135.02	136.26	135.01	134.95	134.38	134.06	133.95	133.95	134.85	
30	134.72	134.27	135.25	134.93	137.28	134.99	134.94	134.36	134.05	133.95	133.95	134.82	
31		134.17		134.83	138.51		134.92		134.04	133.95		134.80	
Mean	134.83	134.57	135.12	135.05	135.93	136.41	135.04	134.65	134.19	133.96	133.95	134.53	
Max	135.01	135.35	136.44	136.36	138.58	139.84	136.22	134.94	134.34	134.03	133.95	134.97	139.84
Min	134.72	133.98	134.79	134.75	134.13	134.99	134.52	134.36	134.04	133.95	133.95	133.95	133.95
Annual Max Momentary Gage Height	139.88		m. (MSL.) ,			at 18.00 Hours ,	on Sep 4 , 2019						
Zero Gage at Bottom Elevation	130.95		m. (MSL.) ,			River Bed	134.32	m. (MSL.)					
Left Bank Elevation		139.46		m. (MSL.) ,									
Right Bank Elevation		141.15		m. (MSL.) ,		Drainage Are	1,775	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.04	0.95	3.25	0.67	106.14	0.95	0.88	0.00	0.00	0.00	0.00	
2	0.32	0.06	1.16	25.62	0.48	118.30	0.88	0.74	0.00	0.00	0.00	0.00	
3	0.28	0.06	1.09	7.40	0.48	120.23	0.74	0.60	0.00	0.00	0.00	0.00	
4	0.20	0.06	1.09	4.00	0.60	124.54	0.60	0.52	0.00	0.00	0.00	0.00	
5	0.16	0.06	1.66	10.80	1.23	118.30	0.48	0.44	0.00	0.00	0.00	0.00	
6	0.24	0.06	0.95	5.19	0.74	82.86	0.56	0.36	0.00	0.00	0.00	0.00	
7	0.40	0.04	1.30	3.25	0.81	51.75	0.67	0.28	0.00	0.00	0.00	0.00	
8	0.60	0.02	7.40	1.90	2.14	32.88	0.81	0.20	0.00	0.00	0.00	0.00	
9	1.42	0.00	5.87	2.50	0.00	22.70	1.09	0.16	0.00	0.00	0.00	0.00	
10	0.52	0.00	1.90	5.70	0.74	18.11	1.42	0.12	0.00	0.00	0.00	0.00	
11	0.48	0.00	1.09	4.85	0.40	16.40	3.85	0.08	0.00	0.00	0.00	0.00	
12	0.48	0.16	0.81	1.30	17.35	20.30	22.70	0.04	0.00	0.00	0.00	0.00	
13	0.48	0.16	0.56	0.60	7.40	19.50	4.00	0.00	0.00	0.00	0.00	0.60	
14	0.48	0.18	0.44	0.60	6.04	16.02	0.00	0.00	0.00	0.00	0.00	1.02	
15	0.48	0.16	0.18	0.40	8.59	26.06	0.00	0.00	0.00	0.00	0.00	1.02	
16	0.48	3.55	0.52	0.40	3.85	14.50	1.90	0.00	0.00	0.00	0.00	1.02	
17	0.44	0.00	11.52	0.40	5.70	11.16	5.19	0.00	0.00	0.00	0.00	0.95	
18	0.44	0.00	27.38	0.28	20.10	8.59	5.70	0.00	0.00	0.00	0.00	0.81	
19	0.40	0.00	6.21	0.16	41.26	7.06	3.70	0.00	0.00	0.00	0.00	0.88	
20	0.40	0.00	2.80	0.12	23.10	6.38	2.95	0.00	0.00	0.00	0.00	0.40	
21	0.36	0.00	1.78	0.20	9.10	5.70	2.02	0.00	0.00	0.00	0.00	0.20	
22	0.32	0.00	1.16	0.10	29.80	7.74	0.88	0.00	0.00	0.00	0.00	0.16	
23	0.24	6.55	0.88	0.10	17.35	6.55	1.09	0.00	0.00	0.00	0.00	0.40	
24	0.20	0.00	0.81	0.44	6.04	3.40	1.16	0.00	0.00	0.00	0.00	1.09	
25	0.18	0.00	0.60	0.32	65.56	2.65	1.16	0.00	0.00	0.00	0.00	0.95	
26	0.16	0.12	0.36	0.44	84.39	2.26	1.16	0.00	0.00	0.00	0.00	0.74	
27	0.14	0.00	2.26	3.25	84.69	2.02	8.76	0.00	0.00	0.00	0.00	0.52	
28	0.12	0.00	14.88	4.34	68.75	1.66	1.16	0.00	0.00	0.00	0.00	0.52	
29	0.10	0.00	5.53	1.54	23.50	1.42	0.95	0.00	0.00	0.00	0.00	0.40	
30	0.04	0.00	4.85	0.81	47.28	1.23	0.88	0.00	0.00	0.00	0.00	0.28	
31		0.00		0.32	82.56		0.74		0.00	0.00		0.20	
Total	10.88	11.28	107.99	90.58	660.70	976.41	78.15	4.42	0.00	0.00	0.00	12.16	1952.57 CMSDAY
Mean	0.36	0.36	3.60	2.92	21.31	32.55	2.52	0.15	0.00	0.00	0.00	0.39	5.33 CMS
Max	1.42	6.55	27.38	25.62	84.69	124.54	22.70	0.88	0.00	0.00	0.00	1.09	124.54 CMS
Min	0.04	0.00	0.18	0.10	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.94	0.97	9.33	7.83	57.08	84.36	6.75	0.38	0.00	0.00	0.00	1.05	168.70 MCM
Momentary Peak		125.88	CMS.	at 139.88 m. (MSL.)	at 18.00 Hours	, on Sep 4, 2019							
Runoff Yield		3.01	Liters/Second/Square KM.		Momentary Peak Yield	70.92	Liters/Second/Square KM.						



## WATER YEAR : 2019

## PASAK RIVER BASIN

Pasak River at Ban Bo Rang , Phetchabun (S.42)

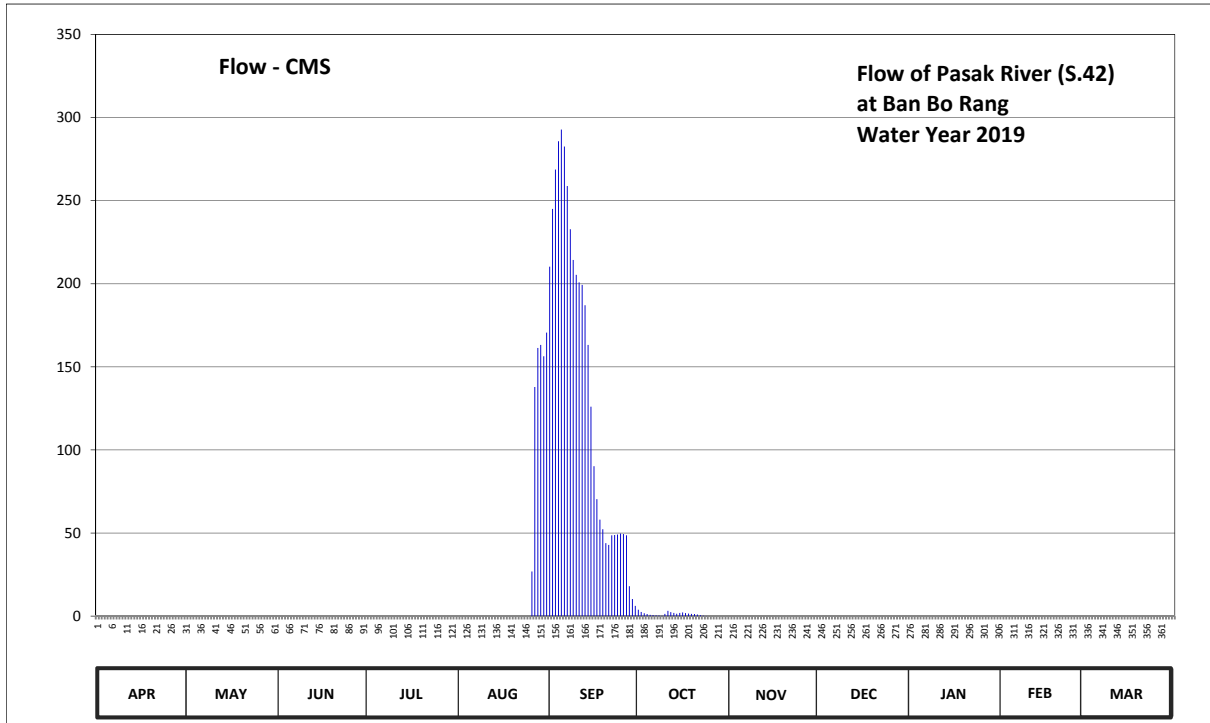
Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

Location : on left bank at the bridge.

	<b>Ban Bo Rang</b>	<b>Amphoe Wichian Buri</b>	<b>Changwat Phetchabun</b>
<b>Drainage Area</b>	7,233 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+51.796 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+63.900 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 2 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.80	52.80	53.58	53.47	53.44	61.25	55.25	54.63	53.10	52.67	52.42	52.80	
2	53.80	52.80	53.58	53.46	53.44	61.94	55.16	54.62	53.14	52.67	52.41	52.82	
3	53.80	52.80	53.58	53.45	53.44	62.40	55.09	54.61	53.16	52.66	52.43	52.85	
4	53.80	52.80	53.57	53.43	53.44	62.72	55.05	54.59	53.20	52.66	52.37	52.86	
5	53.80	52.79	53.62	53.41	53.44	62.85	55.01	54.56	53.22	52.66	52.48	52.89	
6	53.80	52.79	53.72	53.44	53.44	62.66	54.99	54.49	53.10	52.66	52.42	52.93	
7	53.80	52.79	53.73	53.47	53.42	62.21	54.96	54.45	52.93	52.65	52.47	52.94	
8	53.80	52.79	53.72	53.52	53.38	61.70	54.93	54.42	52.74	52.65	52.45	52.94	
9	53.80	52.79	53.75	53.53	53.34	61.33	54.90	54.39	52.68	52.64	52.52	52.98	
10	53.80	52.79	53.76	53.50	53.33	61.15	55.06	54.36	52.68	52.64	52.52	52.99	
11	53.80	52.80	53.76	53.50	53.33	61.06	55.21	54.34	52.68	52.63	52.53	53.00	
12	53.79	52.80	53.73	53.52	53.33	61.03	55.15	54.31	52.68	52.63	52.52	53.00	
13	53.79	52.80	53.71	53.52	53.34	60.78	55.11	54.28	52.68	52.63	52.52	53.00	
14	53.79	52.80	53.72	53.52	53.34	60.27	55.07	54.25	52.68	52.62	52.52	53.01	
15	53.79	52.80	53.72	53.52	53.34	59.42	55.11	54.24	52.68	52.62	52.53	53.02	
16	53.79	52.80	53.72	53.51	53.34	58.48	55.13	54.23	52.68	52.61	52.59	53.05	
17	53.79	52.83	53.69	53.50	53.35	57.88	55.10	54.21	52.68	52.61	52.62	53.06	
18	53.78	52.88	53.68	53.50	53.35	57.48	55.08	54.19	52.67	52.61	52.67	53.07	
19	53.77	52.91	53.67	53.49	53.34	57.28	55.06	54.19	52.67	52.60	52.73	53.08	
20	53.77	53.00	53.66	53.49	53.35	56.98	55.05	54.14	52.68	52.59	52.76	53.10	
21	53.77	53.18	53.62	53.48	53.35	56.94	55.02	54.10	52.74	52.58	52.78	53.11	
22	53.76	53.20	53.60	53.46	53.35	57.15	54.98	54.06	52.77	52.56	52.78	53.12	
23	53.75	53.45	53.58	53.39	53.35	57.16	54.91	54.02	52.67	52.54	52.67	53.13	
24	53.74	53.58	53.57	53.32	53.35	57.17	54.84	53.97	52.68	52.52	52.67	53.14	
25	53.75	53.60	53.58	53.30	53.45	57.19	54.82	53.91	52.67	52.50	52.66	53.15	
26	53.75	53.60	53.57	53.29	56.32	57.18	54.77	53.74	52.67	52.50	52.68	53.16	
27	53.74	53.59	53.55	53.34	59.70	57.15	54.75	53.49	52.67	52.49	52.72	53.18	
28	53.73	53.57	53.52	53.36	60.23	55.95	54.73	53.30	52.67	52.43	52.74	53.17	
29	53.72	53.57	53.50	53.39	60.27	55.59	54.70	53.03	52.67	52.42	52.77	53.18	
30	53.71	53.56	53.48	53.40	60.12	55.38	54.65	53.05	52.67	52.42	52.77	53.19	
31		53.56		53.43	60.43		54.64		52.67	52.42		53.19	
Mean	53.78	53.06	53.64	53.45	54.56	59.26	54.98	54.14	52.78	52.58	52.58	53.04	
Max	53.80	53.60	53.76	53.53	60.43	62.85	55.25	54.63	53.22	52.67	52.78	53.19	62.85
Min	53.71	52.79	53.48	53.29	53.33	55.38	54.64	53.03	52.67	52.42	52.37	52.80	52.37
Annual Max Momentary Gage Height	62.86		m. (MSL.) ,				at 09.00 Hours ,						on Sep 5 , 2019
Zero Gage at Bottom Elevation		51.80	m. (MSL.) ,			River Bed	54.60	m. (MSL.)					
Left Bank Elevation		64.16	m. (MSL.) ,										
Right Bank Elevation		65.33	m. (MSL.) ,			Drainage Are	7,233	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

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	210.30	3.88	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	245.04	2.52	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	268.70	1.69	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	285.78	1.25	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	292.80	0.81	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	282.54	0.65	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	258.82	0.50	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	232.80	0.35	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	214.30	0.20	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	205.30	1.36	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	200.80	3.18	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	199.30	2.40	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	187.04	1.92	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	163.22	1.47	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	126.04	1.92	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	90.20	2.16	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	70.41	1.80	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	58.09	1.58	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	52.23	1.36	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	43.92	1.25	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	42.86	0.92	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	48.58	0.60	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	48.85	0.25	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	49.13	0.08	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	49.68	0.04	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	26.83	49.40	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	137.90	48.58	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	161.38	18.03	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	163.22	10.30	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	156.32	6.15	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	170.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	0.00	816.23	4059.19	34.14	0.00	0.00	0.00	0.00	0.00	4909.56 CMSDAY
Mean	0.00	0.00	0.00	0.00	26.33	135.31	1.10	0.00	0.00	0.00	0.00	0.00	13.41 CMS
Max	0.00	0.00	0.00	0.00	170.58	292.80	3.88	0.00	0.00	0.00	0.00	0.00	292.80 CMS
Min	0.00	0.00	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	0.00	70.52	350.71	2.95	0.00	0.00	0.00	0.00	0.00	424.19 MCM
Momentary Peak	293.34	CMS. at 62.86 m. (MSL.) at 09.00 Hours , on Sep 5 , 2019											
Runoff Yield	1.86	Liters/Second/Square KM. Momentary Peak Yield 40.56 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PASAK RIVER BASIN

Pasak River at Ban Phun Sap , Lop Buri (S.43)

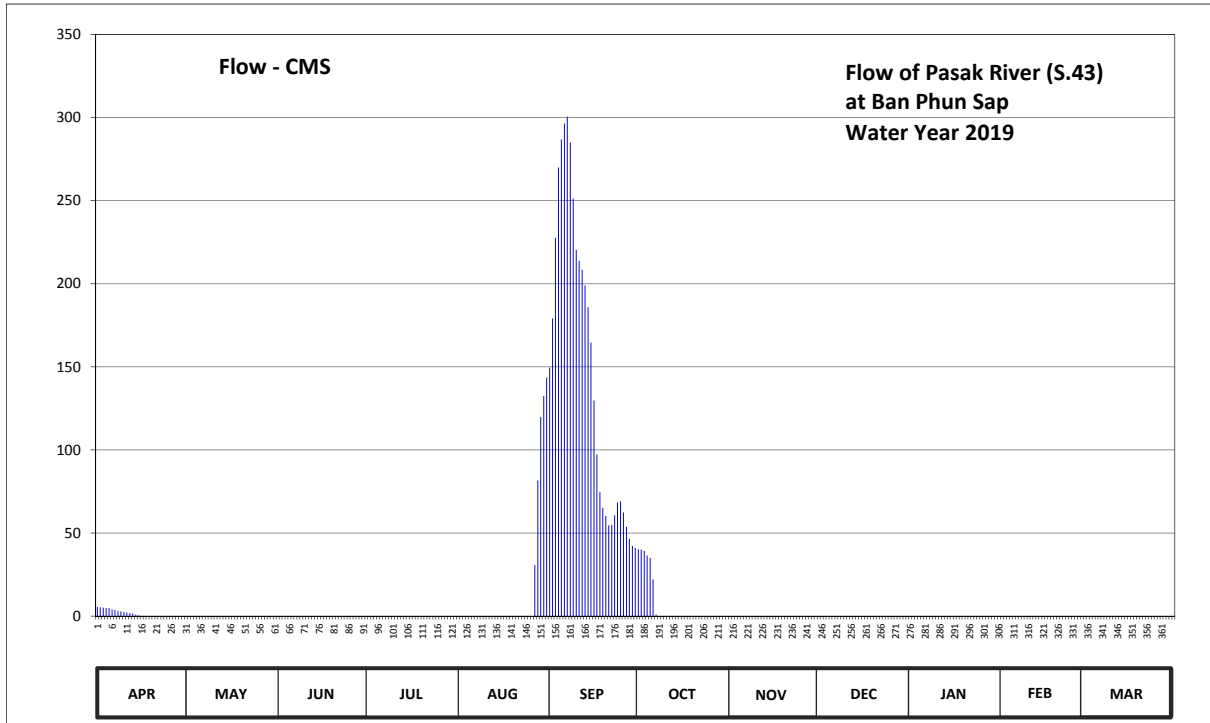
Lat 15 - 19 - 39 N Long 101 - 12 - 45 E

Location : on right bank at the bridge.

	Ban Phun Sap	Amphoe Chai Badan	Changwat Lop Buri
<b>Drainage Area</b>	9,477 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the Staff gage.	<b>Elevation</b>	+51.908 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.47	37.58	37.06	37.07	37.06	43.06	40.17	36.74	36.74	36.74	36.74	36.74	
2	38.45	37.53	37.06	37.06	37.06	43.64	40.16	36.74	36.74	36.74	36.74	36.74	
3	38.44	37.41	37.06	37.06	37.06	44.52	40.13	36.74	36.74	36.74	36.74	36.74	
4	38.43	37.45	37.06	37.06	37.06	45.29	40.02	36.74	36.74	36.74	36.74	36.74	
5	38.42	37.41	37.06	37.06	37.06	45.58	39.96	36.74	36.74	36.74	36.74	36.74	
6	38.37	37.38	37.06	37.06	37.06	45.74	39.42	36.74	36.74	36.74	36.74	36.74	
7	38.35	37.32	37.06	37.06	37.06	45.81	38.10	36.74	36.74	36.74	36.74	36.74	
8	38.31	37.27	37.06	37.06	37.06	45.55	36.77	36.74	36.74	36.74	36.74	36.74	
9	38.28	37.22	37.06	37.06	37.06	44.95	36.76	36.74	36.74	36.74	36.74	36.74	
10	38.24	37.17	37.06	37.06	37.06	44.39	36.74	36.74	36.74	36.74	36.74	36.74	
11	38.21	37.12	37.06	37.06	37.06	44.27	36.74	36.74	36.74	36.74	36.74	36.74	
12	38.18	37.09	37.06	37.06	37.06	44.17	36.74	36.74	36.74	36.74	36.74	36.74	
13	38.15	37.08	37.06	37.06	37.06	44.00	36.74	36.74	36.74	36.74	36.74	36.74	
14	38.10	37.06	37.06	37.06	37.06	43.76	36.74	36.74	36.74	36.74	36.74	36.74	
15	38.05	37.06	37.06	37.06	37.06	43.36	36.74	36.74	36.74	36.74	36.74	36.74	
16	38.01	37.06	37.06	37.06	37.06	42.64	36.74	36.74	36.74	36.74	36.74	36.74	
17	37.97	37.06	37.06	37.06	37.06	41.88	36.74	36.74	36.74	36.74	36.74	36.74	
18	37.92	37.06	37.06	37.06	37.06	41.29	36.74	36.74	36.74	36.74	36.74	36.74	
19	37.91	37.06	37.06	37.06	37.06	41.02	36.74	36.74	36.74	36.74	36.74	36.74	
20	37.86	37.06	37.07	37.06	37.06	40.86	36.74	36.74	36.74	36.74	36.74	36.74	
21	37.82	37.06	37.07	37.06	37.06	40.67	36.74	36.74	36.74	36.74	36.74	36.74	
22	37.79	37.06	37.07	37.06	37.06	40.68	36.74	36.74	36.74	36.74	36.74	36.74	
23	37.73	37.06	37.07	37.06	37.06	40.87	36.74	36.74	36.74	36.74	36.74	36.74	
24	37.71	37.06	37.07	37.06	37.06	41.11	36.74	36.74	36.74	36.74	36.74	36.74	
25	37.67	37.06	37.07	37.06	37.06	41.13	36.74	36.74	36.74	36.74	36.74	36.74	
26	37.66	37.06	37.07	37.06	37.06	40.93	36.74	36.74	36.74	36.74	36.74	36.74	
27	37.65	37.06	37.07	37.06	39.79	40.64	36.74	36.74	36.74	36.74	36.74	36.74	
28	37.62	37.06	37.07	37.06	41.49	40.40	36.74	36.74	36.74	36.74	36.74	36.74	
29	37.57	37.06	37.07	37.06	42.42	40.25	36.74	36.74	36.74	36.74	36.74	36.74	
30	37.54	37.06	37.07	37.06	42.70	40.20	36.74	36.74	36.74	36.74	36.74	36.74	
31		37.06		37.06	42.94		36.74		36.74	36.74		36.74	
Mean	38.03	37.16	37.06	37.06	37.84	42.76	37.41	36.74	36.74	36.74	36.74	36.74	
Max	38.47	37.58	37.07	37.07	42.94	45.81	40.17	36.74	36.74	36.74	36.74	36.74	45.81
Min	37.54	37.06	37.06	37.06	37.06	40.20	36.74	36.74	36.74	36.74	36.74	36.74	
Annual Max Momentary Gage Height	45.83		m. (MSL.) ,				at 08.00 Hours , on Sep 7, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	37.26	m. (MSL.)					
Left Bank Elevation		51.91		m. (MSL.) ,									
Right Bank Elevation		51.95		m. (MSL.) ,		Drainage Are	9,477	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.55	0.00	0.00	0.00	0.00	149.50	40.25	0.00	0.00	0.00	0.00	0.00	
2	5.25	0.00	0.00	0.00	0.00	179.20	40.00	0.00	0.00	0.00	0.00	0.00	
3	5.10	0.00	0.00	0.00	0.00	227.60	39.25	0.00	0.00	0.00	0.00	0.00	
4	4.95	0.00	0.00	0.00	0.00	269.95	36.50	0.00	0.00	0.00	0.00	0.00	
5	4.80	0.00	0.00	0.00	0.00	286.80	35.00	0.00	0.00	0.00	0.00	0.00	
6	4.05	0.00	0.00	0.00	0.00	296.40	21.90	0.00	0.00	0.00	0.00	0.00	
7	3.75	0.00	0.00	0.00	0.00	300.60	1.00	0.00	0.00	0.00	0.00	0.00	
8	3.15	0.00	0.00	0.00	0.00	285.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	2.80	0.00	0.00	0.00	0.00	251.25	0.00	0.00	0.00	0.00	0.00	0.00	
10	2.40	0.00	0.00	0.00	0.00	220.45	0.00	0.00	0.00	0.00	0.00	0.00	
11	2.10	0.00	0.00	0.00	0.00	213.85	0.00	0.00	0.00	0.00	0.00	0.00	
12	1.80	0.00	0.00	0.00	0.00	208.35	0.00	0.00	0.00	0.00	0.00	0.00	
13	1.50	0.00	0.00	0.00	0.00	199.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	1.00	0.00	0.00	0.00	0.00	185.80	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.50	0.00	0.00	0.00	0.00	164.50	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.10	0.00	0.00	0.00	0.00	129.80	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	97.20	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	74.65	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	65.20	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	60.30	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	54.60	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	54.90	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	60.60	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	68.35	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	69.05	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	62.40	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	30.75	53.70	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	81.65	46.50	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	119.90	42.25	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	132.50	41.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	143.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	48.80	0.00	0.00	0.00	508.30	4418.75	213.90	0.00	0.00	0.00	0.00	0.00	5189.75 CMSDAY
<b>Mean</b>	1.63	0.00	0.00	0.00	16.40	147.29	6.90	0.00	0.00	0.00	0.00	0.00	14.18 CMS
<b>Max</b>	5.55	0.00	0.00	0.00	143.50	300.60	40.25	0.00	0.00	0.00	0.00	0.00	300.60 CMS
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	4.22	0.00	0.00	0.00	43.92	381.78	18.48	0.00	0.00	0.00	0.00	0.00	448.39 MCM
<b>Momentary Peak</b>	301.80	CMS. at 45.83 m. (MSL.) at 08.00 Hours , on Sep 7 , 2019											
<b>Runoff Yield</b>	1.50	Liters/Second/Square KM. Momentary Peak Yield 31.85 Liters/Second/Square KM.											

## WATER YEAR : 2019

## THA CHIN BASIN

## Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

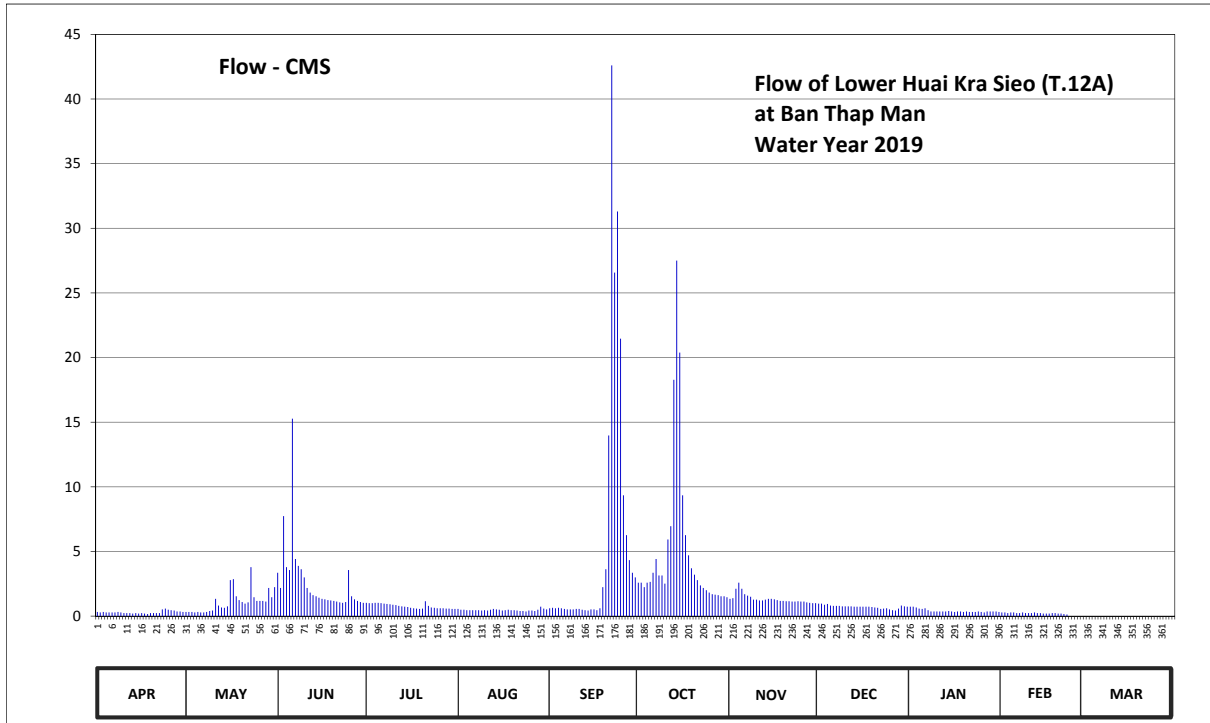
Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

<b>Ban</b>	Thap Man	<b>Amphoe</b>	Dan Chang	<b>Changwat</b>	Suphan Buri
<b>Drainage Area</b>	686	sq.km.			
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank near the bridge			<b>Elevation</b>	+103.545 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings				
<b>Period of Available Gage Records</b>	2006 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	2006 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	2006 to date				
<b>Stability of Channel Regimes</b>	Fairly stable.				
<b>Overbank Flow Conditions</b>	No overbank flow				
<b>General Description</b>	Records good. Stage-discharge relation defined by 4 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.58	97.58	98.25	97.81	97.65	97.67	98.14	97.91	97.79	97.71	97.57	97.47	
2	97.57	97.58	98.08	97.80	97.63	97.68	98.14	97.92	97.79	97.71	97.57	97.46	
3	97.58	97.58	98.68	97.80	97.63	97.67	98.09	98.07	97.76	97.69	97.56	97.47	
4	97.57	97.57	98.31	97.81	97.62	97.68	98.14	98.14	97.78	97.66	97.57	97.46	
5	97.57	97.58	98.28	97.81	97.62	97.67	98.15	98.07	97.74	97.65	97.57	97.46	
6	97.57	97.57	99.13	97.80	97.62	97.65	98.25	98.00	97.73	97.67	97.56	97.46	
7	97.57	97.57	98.38	97.79	97.62	97.64	98.38	97.97	97.73	97.62	97.56	97.46	
8	97.58	97.58	98.32	97.78	97.62	97.64	98.22	97.95	97.73	97.59	97.57	97.45	
9	97.57	97.60	98.29	97.77	97.61	97.64	98.22	97.89	97.72	97.59	97.56	97.45	
10	97.56	97.61	98.20	97.76	97.62	97.65	98.13	97.89	97.72	97.59	97.56	97.44	
11	97.56	97.91	98.08	97.75	97.61	97.65	98.53	97.87	97.72	97.59	97.56	97.44	
12	97.56	97.74	98.02	97.73	97.63	97.63	98.62	97.87	97.72	97.59	97.57	97.45	
13	97.55	97.69	97.98	97.72	97.65	97.62	99.28	97.89	97.71	97.59	97.56	97.47	
14	97.56	97.68	97.96	97.71	97.64	97.61	99.70	97.91	97.71	97.60	97.56	97.48	
15	97.55	97.72	97.93	97.70	97.63	97.64	99.38	97.91	97.71	97.59	97.55	97.47	
16	97.56	98.17	97.91	97.68	97.61	97.64	98.79	97.90	97.71	97.58	97.55	97.47	
17	97.55	98.18	97.90	97.67	97.62	97.62	98.56	97.88	97.71	97.59	97.55	97.46	
18	97.54	97.96	97.88	97.66	97.63	97.67	98.41	97.86	97.71	97.59	97.56	97.45	
19	97.56	97.88	97.87	97.65	97.62	98.09	98.30	97.86	97.70	97.58	97.56	97.45	
20	97.56	97.83	97.86	97.66	97.62	98.29	98.23	97.85	97.69	97.59	97.55	97.46	
21	97.56	97.79	97.84	97.85	97.61	99.06	98.17	97.85	97.68	97.58	97.55	97.47	
22	97.56	97.82	97.82	97.73	97.60	100.26	98.11	97.84	97.65	97.58	97.54	97.47	
23	97.64	98.31	97.81	97.69	97.60	99.66	98.08	97.84	97.66	97.58	97.53	97.46	
24	97.66	97.94	97.83	97.68	97.59	99.85	98.05	97.85	97.67	97.59	97.49	97.46	
25	97.63	97.86	98.28	97.67	97.61	99.43	98.02	97.84	97.64	97.58	97.48	97.46	
26	97.62	97.86	97.96	97.67	97.61	98.79	98.00	97.84	97.62	97.57	97.47	97.45	
27	97.61	97.86	97.90	97.67	97.60	98.56	97.99	97.82	97.61	97.59	97.48	97.46	
28	97.59	97.84	97.86	97.66	97.63	98.37	97.98	97.81	97.66	97.59	97.48	97.46	
29	97.59	98.08	97.83	97.66	97.71	98.25	97.96	97.80	97.74	97.59	97.48	97.44	
30	97.58	97.94	97.81	97.65	97.66	98.20	97.96	97.80	97.72	97.59	97.57	97.44	
31		98.09		97.65	97.64		97.94		97.71	97.58		97.44	
Mean	97.58	97.81	98.08	97.72	97.62	98.15	98.32	97.90	97.71	97.61	97.54	97.46	
Max	97.66	98.31	99.13	97.85	97.71	100.26	99.70	98.14	97.79	97.71	97.57	97.48	100.26
Min	97.54	97.57	97.81	97.65	97.59	97.61	97.94	97.80	97.61	97.57	97.47	97.44	97.44
Annual Max Momentary Gage Height	100.49		m. (MSL.) ,				at 21.00 Hours ,						on Sep 22 , 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	97.47	m. (MSL.)				
Left Bank Elevation		103.24		m. (MSL.) ,									
Right Bank Elevation		103.26		m. (MSL.) ,			Drainage Are	686	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	0.32	0.32	3.35	1.03	0.55	0.61	2.58	1.34	0.97	0.73	0.28	0.00				
2	0.28	0.32	2.18	1.00	0.49	0.64	2.58	1.38	0.97	0.73	0.28	0.00				
3	0.32	0.32	7.74	1.00	0.49	0.61	2.24	2.12	0.88	0.67	0.24	0.00				
4	0.28	0.28	3.79	1.03	0.46	0.64	2.58	2.58	0.94	0.58	0.28	0.00				
5	0.28	0.32	3.56	1.03	0.46	0.61	2.65	2.12	0.82	0.55	0.28	0.00				
6	0.28	0.28	15.27	1.00	0.46	0.55	3.35	1.70	0.79	0.61	0.24	0.00				
7	0.28	0.28	4.42	0.97	0.46	0.52	4.42	1.58	0.79	0.46	0.24	0.00				
8	0.32	0.32	3.88	0.94	0.46	0.52	3.14	1.50	0.79	0.36	0.28	0.00				
9	0.28	0.40	3.63	0.91	0.43	0.52	3.14	1.27	0.76	0.36	0.24	0.00				
10	0.24	0.43	3.00	0.88	0.46	0.55	2.51	1.27	0.76	0.36	0.24	0.00				
11	0.24	1.34	2.18	0.85	0.43	0.55	5.93	1.21	0.76	0.36	0.24	0.00				
12	0.24	0.82	1.82	0.79	0.49	0.49	6.96	1.21	0.76	0.36	0.28	0.00				
13	0.20	0.67	1.62	0.76	0.55	0.46	18.28	1.27	0.73	0.36	0.24	0.00				
14	0.24	0.64	1.54	0.73	0.52	0.43	27.50	1.34	0.73	0.40	0.24	0.00				
15	0.20	0.76	1.42	0.70	0.49	0.52	20.38	1.34	0.73	0.36	0.20	0.00				
16	0.24	2.79	1.34	0.64	0.43	0.52	9.35	1.30	0.73	0.32	0.20	0.00				
17	0.20	2.86	1.30	0.61	0.46	0.46	6.26	1.24	0.73	0.36	0.20	0.00				
18	0.16	1.54	1.24	0.58	0.49	0.61	4.70	1.18	0.73	0.36	0.24	0.00				
19	0.24	1.24	1.21	0.55	0.46	2.24	3.70	1.18	0.70	0.32	0.24	0.00				
20	0.24	1.09	1.18	0.58	0.46	3.63	3.21	1.15	0.67	0.36	0.20	0.00				
21	0.24	0.97	1.12	1.15	0.43	13.98	2.79	1.15	0.64	0.32	0.20	0.00				
22	0.24	1.06	1.06	0.79	0.40	42.60	2.37	1.12	0.55	0.32	0.16	0.00				
23	0.52	3.79	1.03	0.67	0.40	26.58	2.18	1.12	0.58	0.32	0.12	0.00				
24	0.58	1.46	1.09	0.64	0.36	31.30	2.00	1.15	0.61	0.36	0.00	0.00				
25	0.49	1.18	3.56	0.61	0.43	21.46	1.82	1.12	0.52	0.32	0.00	0.00				
26	0.46	1.18	1.54	0.61	0.43	9.35	1.70	1.12	0.46	0.28	0.00	0.00				
27	0.43	1.18	1.30	0.61	0.40	6.26	1.66	1.06	0.43	0.36	0.00	0.00				
28	0.36	1.12	1.18	0.58	0.49	4.33	1.62	1.03	0.58	0.36	0.00	0.00				
29	0.36	2.18	1.09	0.58	0.73	3.35	1.54	1.00	0.82	0.36	0.00	0.00				
30	0.32	1.46	1.03	0.55	0.58	3.00	1.54	1.00	0.76	0.36	0.00	0.00				
31		2.24		0.55	0.52		1.46		0.73	0.32		0.00				
<b>Total</b>	9.08	34.84	79.67	23.92	14.67	177.89	156.14	40.15	22.42	12.65	5.36	0.00	576.79 CMSDAY			
<b>Mean</b>	0.30	1.12	2.66	0.77	0.47	5.93	5.04	1.34	0.72	0.41	0.18	0.00	1.58 CMS			
<b>Max</b>	0.58	3.79	15.27	1.15	0.73	42.60	27.50	2.58	0.97	0.73	0.28	0.00	42.60 CMS			
<b>Min</b>	0.16	0.28	1.03	0.55	0.36	0.43	1.46	1.00	0.43	0.28	0.00	0.00	0.00 CMS			
<b>Runoff</b>	0.78	3.01	6.88	2.07	1.27	15.37	13.49	3.47	1.94	1.09	0.46	0.00	49.83 MCM			
<b>Momentary Peak</b>	49.68	CMS. at 100.49 m. (MSL.) at 21.00 Hours , on Sep 22 , 2019														
<b>Runoff Yield</b>	2.30	Liters/Second/Square KM.											<b>Momentary Peak Yield</b>	72.42	Liters/Second/Square KM.	

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwae Noi River at Ban Lum Sum , Kanchanaburi (K.10)

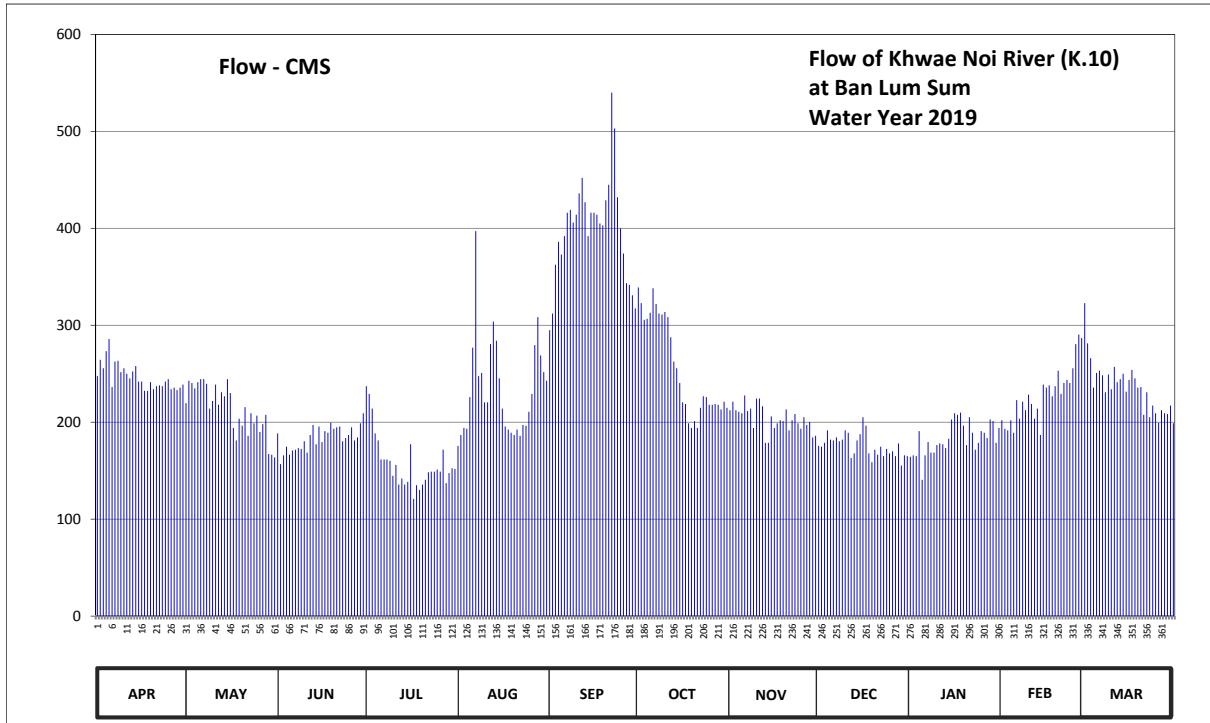
Lat 14 - 05 - 38 N Long 99 - 10 - 40 E

Location : on left bank about 100 meters upstream from Ban Lum Sum railway station

	Ban Lum Sum	Amphoe Sai Yok	Changwat Kanchanaburi
<b>Drainage Area</b>	6,991 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+30.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+52.089 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1965 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 37 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.07	33.72	33.33	33.94	33.17	34.61	35.10	33.63	33.17	33.02	33.50	34.92	
2	34.27	34.01	32.91	33.84	33.31	34.80	34.92	33.74	33.16	33.04	33.39	34.46	
3	34.17	33.98	33.04	33.65	33.40	35.36	34.73	33.63	33.21	33.03	33.37	34.29	
4	34.37	33.91	33.16	33.33	33.39	35.60	34.74	33.61	33.37	33.36	33.50	33.92	
5	34.51	33.99	33.05	33.24	33.80	35.47	34.81	33.59	33.25	32.68	33.34	34.11	
6	33.93	34.03	33.11	32.98	34.41	35.66	35.09	33.82	33.24	33.04	33.76	34.14	
7	34.25	34.03	33.12	32.98	35.71	35.90	34.91	33.62	33.28	33.22	33.52	34.08	
8	34.26	33.97	33.14	32.98	34.07	35.93	34.80	33.65	33.23	33.08	33.74	33.86	
9	34.12	33.65	33.13	32.96	34.11	35.80	34.79	33.40	33.25	33.08	33.63	34.09	
10	34.17	33.75	33.23	32.74	33.73	35.88	34.82	33.78	33.37	33.18	33.83	33.90	
11	34.10	33.96	33.08	32.90	33.73	36.10	34.76	33.78	33.34	33.20	33.71	34.19	
12	34.04	33.70	33.31	32.61	34.45	36.26	34.53	33.68	33.00	33.19	33.52	33.99	
13	34.13	33.86	33.44	32.70	34.71	36.01	34.25	33.21	33.07	33.14	33.65	34.03	
14	34.20	33.81	33.19	32.61	34.49	35.66	34.17	33.21	33.24	33.26	33.31	34.10	
15	34.00	34.03	33.42	32.65	34.04	35.90	33.98	33.55	33.32	33.51	33.96	33.87	
16	34.00	33.85	33.22	33.19	33.65	35.90	33.73	33.40	33.54	33.59	33.92	34.02	
17	33.88	33.40	33.36	32.40	33.42	35.88	33.71	33.46	33.43	33.57	33.95	34.15	
18	33.88	33.24	33.34	32.60	33.38	35.79	33.46	33.50	33.07	33.60	33.81	34.04	
19	33.99	33.52	33.47	32.53	33.34	35.77	33.40	33.49	32.94	33.43	33.94	33.92	
20	33.90	33.43	33.39	32.61	33.31	36.03	33.49	33.64	33.12	33.18	34.14	33.93	
21	33.94	33.67	33.41	32.68	33.38	36.19	33.40	33.37	33.05	33.54	33.84	33.57	
22	33.95	33.30	33.42	32.79	33.30	37.14	33.66	33.50	33.16	33.34	33.98	33.86	
23	33.94	33.59	33.23	32.80	33.44	36.77	33.81	33.58	33.03	33.12	34.02	33.54	
24	34.00	33.46	33.27	32.80	33.43	36.06	33.80	33.46	33.13	33.21	33.98	33.69	
25	34.03	33.56	33.31	32.83	33.61	35.74	33.70	33.39	33.07	33.36	34.17	33.59	
26	33.90	33.35	33.41	32.80	33.84	35.48	33.70	33.54	33.10	33.34	34.45	33.47	
27	33.92	33.45	33.24	33.12	34.44	35.15	33.71	33.44	33.03	33.27	34.56	33.63	
28	33.89	33.57	33.28	32.63	34.76	35.13	33.70	33.48	33.20	33.51	34.52	33.59	
29	33.92	33.06	33.46	32.78	34.32	35.01	33.64	33.28	32.89	33.49	34.61	33.58	
30	33.96	33.05	33.59	32.85	34.12	34.86	33.74	33.30	33.04	33.21	33.69	33.69	
31		33.01		32.84	34.01		33.66		33.03	33.40		33.46	
Mean	34.06	33.64	33.27	32.91	33.88	35.73	34.15	33.52	33.17	33.26	33.85	33.93	
Max	34.51	34.03	33.59	33.94	35.71	37.14	35.10	33.82	33.54	33.60	34.61	34.92	37.14
Min	33.88	33.01	32.91	32.40	33.17	34.61	33.40	33.21	32.89	32.68	33.31	33.46	32.40
Annual Max Momentary Gage Height	37.47		m. (MSL.) ,			at 22.00 Hours ,		on Sep 22 , 2019					
Zero Gage at Bottom Elevation	30.40		m. (MSL.) ,			River Bed	27.76	m. (MSL.)					
Left Bank Elevation		46.41		m. (MSL.) ,									
Right Bank Elevation		45.99		m. (MSL.) ,		Drainage Are	6,991	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	247.60	219.60	188.40	237.20	175.60	294.90	339.00	212.40	175.60	164.40	202.00	322.80	
2	264.30	242.80	156.70	229.20	186.80	312.00	322.80	221.20	174.80	165.80	193.20	281.40	
3	255.60	240.40	165.80	214.00	194.00	362.40	305.70	212.40	178.80	165.10	191.60	266.10	
4	273.30	234.80	174.80	188.40	193.20	386.00	306.60	210.80	191.60	190.80	202.00	235.60	
5	285.90	241.20	166.50	181.20	226.00	373.00	312.90	209.20	182.00	140.60	189.20	250.80	
6	236.40	244.40	170.80	161.60	276.90	392.00	338.10	227.60	181.20	165.80	222.80	253.20	
7	262.50	244.40	171.60	161.60	397.00	416.00	321.90	211.60	184.40	179.60	203.60	248.40	
8	263.40	239.60	173.20	161.60	247.60	419.00	312.00	214.00	180.40	168.60	221.20	230.80	
9	251.60	214.00	172.40	160.20	250.80	406.00	311.10	194.00	182.00	168.60	212.40	249.20	
10	255.60	222.00	180.40	144.80	220.40	414.00	313.80	224.40	191.60	176.40	228.40	234.00	
11	250.00	238.80	168.60	156.00	220.40	436.00	308.40	224.40	189.20	178.00	218.80	257.20	
12	245.20	218.00	186.80	135.70	280.50	452.00	287.70	216.40	163.00	177.20	203.60	241.20	
13	252.40	230.80	197.20	142.00	303.90	427.00	262.50	178.80	167.90	173.20	214.00	244.40	
14	258.00	226.80	177.20	135.70	284.10	392.00	255.60	178.80	181.20	182.80	186.80	250.00	
15	242.00	244.40	195.60	138.50	245.20	416.00	240.40	206.00	187.60	202.80	238.80	231.60	
16	242.00	230.00	179.60	177.20	214.00	416.00	220.40	194.00	205.20	209.20	235.60	243.60	
17	232.40	194.00	190.80	121.00	195.60	414.00	218.80	198.80	196.40	207.60	238.00	254.00	
18	232.40	181.20	189.20	135.00	192.40	405.00	198.80	202.00	167.90	210.00	226.80	245.20	
19	241.20	203.60	199.60	130.10	189.20	403.00	194.00	201.20	158.80	196.40	237.20	235.60	
20	234.00	196.40	193.20	135.70	186.80	429.00	201.20	213.20	171.60	176.40	253.20	236.40	
21	237.20	215.60	194.80	140.60	192.40	445.00	194.00	191.60	166.50	205.20	229.20	207.60	
22	238.00	186.00	195.60	148.30	186.00	540.00	214.80	202.00	174.80	189.20	240.40	230.80	
23	237.20	209.20	180.40	149.00	197.20	503.00	226.80	208.40	165.10	171.60	243.60	205.20	
24	242.00	198.80	183.60	149.00	196.40	432.00	226.00	198.80	172.40	178.80	240.40	217.20	
25	244.40	206.80	186.80	151.10	210.80	400.00	218.00	193.20	167.90	190.80	255.60	209.20	
26	234.00	190.00	194.80	149.00	229.20	374.00	218.00	205.20	170.00	189.20	280.50	199.60	
27	235.60	198.00	181.20	171.60	279.60	343.50	218.80	197.20	165.10	183.60	290.40	212.40	
28	233.20	207.60	184.40	137.10	308.40	341.70	218.00	200.40	178.00	202.80	286.80	209.20	
29	235.60	167.20	198.80	147.60	268.80	330.90	213.20	184.40	155.30	201.20	294.90	208.40	
30	238.80	166.50	209.20	152.50	251.60	317.40	221.20	186.00	165.80	178.80		217.20	
31		163.70		151.80	242.80		214.80		165.10	194.00		198.80	
Total	7401.80	6616.60	5508.00	4894.30	7243.60	11992.80	7955.30	6118.40	5457.20	5684.50	6681.00	7327.10	82880.60 CMSDAY
Mean	246.73	213.44	183.60	157.88	233.66	399.76	256.62	203.95	176.04	183.37	230.38	236.36	226.45 CMS
Max	285.90	244.40	209.20	237.20	397.00	540.00	339.00	227.60	205.20	210.00	294.90	322.80	540.00 CMS
Min	232.40	163.70	156.70	121.00	175.60	294.90	194.00	178.80	155.30	140.60	186.80	198.80	121.00 CMS
Runoff	639.52	571.67	475.89	422.87	625.85	1036.18	687.34	528.63	471.50	491.14	577.24	633.06	7160.88 MCM
Momentary Peak		574.70	CMS. at 37.47 m. (MSL.)										on Sep 22, 2019
Runoff Yield		32.48	Liters/Second/Square KM.				82.21						Liters/Second/Square KM.



## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Mae Klong River at Ban Wang Khanai , Kanchanaburi (K.11A)

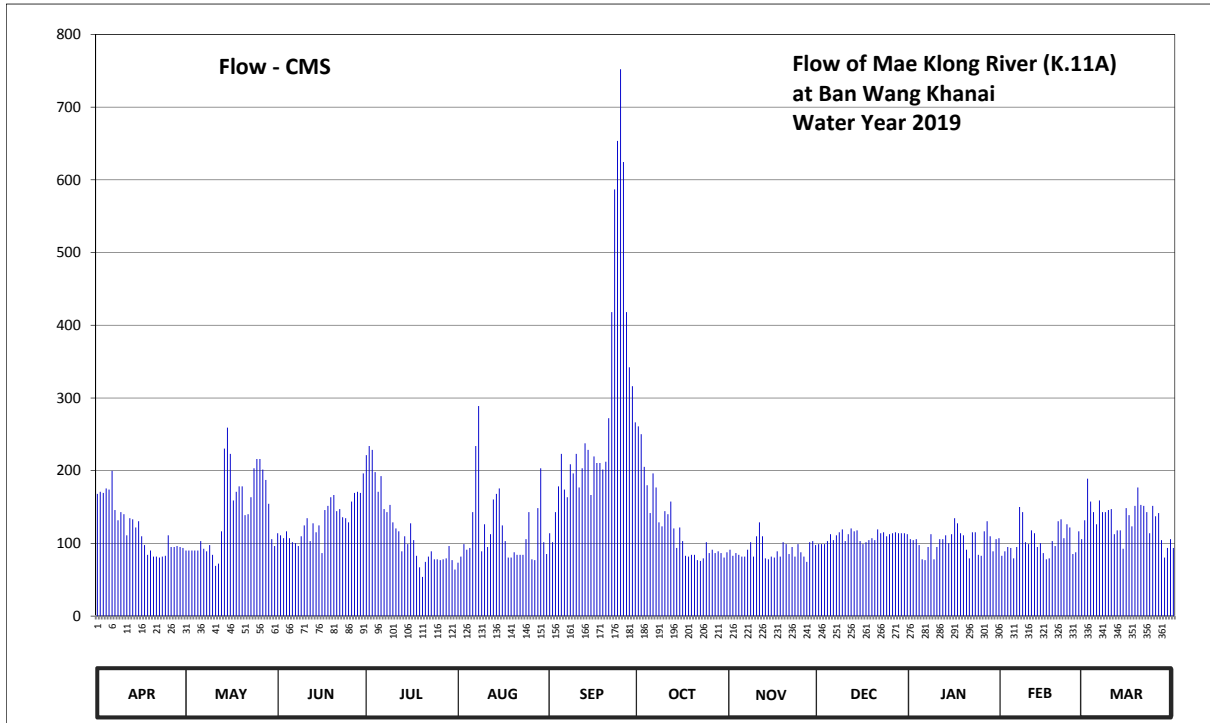
Lat 13 - 56 - 55 N Long 99 - 38 - 42 E

Location : on left bank at Ban Wang Khanai.

	<b>Ban Wang Khanai</b>	<b>Amphoe</b> Tha Muang	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	26,449 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+9.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+17.820 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1993 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1993 - 1999 , 2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1993 - 1999 , 2005 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.62	11.06	11.24	11.93	10.92	11.24	12.15	11.07	11.13	11.18	11.00	11.37	
2	11.64	11.06	11.22	12.00	10.99	11.15	12.09	11.00	11.13	11.17	11.05	11.75	
3	11.63	11.06	11.19	11.97	11.13	11.45	11.84	11.03	11.13	11.18	11.10	11.55	
4	11.67	11.06	11.26	11.80	11.07	11.69	11.70	11.01	11.16	11.12	11.09	11.45	
5	11.66	11.06	11.19	11.64	11.09	11.94	11.44	10.99	11.23	10.96	10.97	11.33	
6	11.81	11.16	11.15	11.77	11.45	11.66	11.79	10.99	11.17	10.95	11.10	11.56	
7	11.47	11.08	11.14	11.48	12.00	11.59	11.68	11.07	11.22	11.10	11.50	11.45	
8	11.37	11.05	11.11	11.45	12.29	11.86	11.35	11.15	11.25	11.23	11.45	11.45	
9	11.45	11.12	11.21	11.52	11.05	11.79	11.31	10.99	11.28	10.96	11.15	11.47	
10	11.43	11.01	11.32	11.35	11.33	11.94	11.46	11.21	11.16	11.10	11.13	11.48	
11	11.22	10.88	11.39	11.29	11.10	11.68	11.43	11.35	11.23	11.18	11.27	11.23	
12	11.39	10.91	11.16	11.26	11.23	11.83	11.55	11.21	11.29	11.18	11.24	11.27	
13	11.38	11.26	11.34	11.05	11.57	12.02	11.29	10.97	11.26	11.22	11.10	11.27	
14	11.30	11.98	11.25	11.21	11.62	11.97	11.09	10.96	11.27	11.14	11.14	11.08	
15	11.36	12.14	11.32	11.13	11.67	11.61	11.30	10.99	11.16	11.23	11.03	11.49	
16	11.21	11.94	11.03	11.34	11.32	11.92	11.16	10.98	11.13	11.39	10.96	11.42	
17	11.12	11.56	11.47	11.17	11.16	11.87	11.00	11.05	11.15	11.34	10.97	11.31	
18	11.01	11.64	11.51	11.00	10.98	11.87	10.99	10.99	11.17	11.24	11.16	11.51	
19	11.06	11.69	11.59	10.86	10.98	11.82	11.01	11.15	11.19	11.22	11.11	11.68	
20	10.99	11.69	11.61	10.73	11.04	11.88	11.01	11.13	11.17	11.07	11.36	11.52	
21	10.99	11.42	11.46	10.93	11.01	12.21	10.95	11.02	11.28	10.97	11.38	11.51	
22	10.98	11.43	11.48	10.99	11.01	12.87	10.94	11.10	11.24	11.25	11.19	11.45	
23	10.99	11.59	11.40	11.05	11.01	13.52	10.97	10.99	11.25	11.25	11.33	11.24	
24	11.00	11.83	11.39	10.96	11.18	13.75	11.15	11.13	11.21	11.01	11.30	11.51	
25	11.22	11.90	11.35	10.96	11.45	14.09	11.03	11.04	11.23	11.00	11.02	11.41	
26	11.10	11.90	11.55	10.95	10.96	13.65	11.07	10.99	11.24	11.26	11.04	11.44	
27	11.10	11.82	11.63	10.96	10.95	12.87	11.03	10.93	11.25	11.36	11.26	11.17	
28	11.11	11.74	11.64	10.97	11.49	12.54	11.05	11.15	11.24	11.21	11.18	10.98	
29	11.10	11.53	11.63	11.11	11.83	12.42	11.03	11.16	11.24	11.05	10.98	11.09	
30	11.09	11.18	11.79	10.95	11.15	12.18	10.98	11.12	11.24	11.18	11.18	11.18	
31		11.11		10.83	11.02		11.04		11.23	11.19		11.09	
Mean	11.28	11.41	11.37	11.25	11.26	12.16	11.29	11.06	11.21	11.16	11.16	11.38	
Max	11.81	12.14	11.79	12.00	12.29	14.09	12.15	11.35	11.29	11.39	11.50	11.75	14.09
Min	10.98	10.88	11.03	10.73	10.92	11.15	10.94	10.93	11.13	10.95	10.96	10.98	10.73
Annual Max Momentary Gage Height	14.44		m. (MSL.) ,			at 20.00 Hours ,							on Sep 25 , 2019
Zero Gage at Bottom Elevation	9.70		m. (MSL.) ,			River Bed	8.53		m. (MSL.)				
Left Bank Elevation	22.54		m. (MSL.) ,										
Right Bank Elevation	21.74		m. (MSL.) ,			Drainage Are	26,449		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	168.00	90.20	113.90	221.40	73.40	113.90	261.00	91.40	99.05	105.80	83.00	131.80		
2	171.00	90.20	111.20	234.00	81.80	101.75	250.20	83.00	99.05	104.45	89.00	189.00		
3	169.50	90.20	107.15	228.60	99.05	143.00	205.20	86.60	99.05	105.80	95.00	157.50		
4	175.50	90.20	116.60	198.00	91.40	178.50	180.00	84.20	103.10	97.70	93.80	143.00		
5	174.00	90.20	107.15	171.00	93.80	223.20	141.60	81.80	112.55	78.20	79.40	126.20		
6	199.80	103.10	101.75	192.60	143.00	174.00	196.20	81.80	104.45	77.00	95.00	159.00		
7	145.80	92.60	100.40	147.20	234.00	163.50	177.00	91.40	111.20	95.00	150.00	143.00		
8	131.80	89.00	96.35	143.00	288.90	208.80	129.00	101.75	115.25	112.55	143.00	143.00		
9	143.00	97.70	109.85	153.00	89.00	196.20	123.40	81.80	119.30	78.20	101.75	145.80		
10	140.20	84.20	124.80	129.00	126.20	223.20	144.40	109.85	103.10	95.00	99.05	147.20		
11	111.20	69.00	134.60	120.65	95.00	177.00	140.20	129.00	112.55	105.80	117.95	112.55		
12	134.60	72.20	103.10	116.60	112.55	203.40	157.50	109.85	120.65	105.80	113.90	117.95		
13	133.20	116.60	127.60	89.00	160.50	237.60	120.65	79.40	116.60	111.20	95.00	117.95		
14	122.00	230.40	115.25	109.85	168.00	228.60	93.80	78.20	117.95	100.40	100.40	92.60		
15	130.40	259.20	124.80	99.05	175.50	166.50	122.00	81.80	103.10	112.55	86.60	148.60		
16	109.85	223.20	86.60	127.60	124.80	219.60	103.10	80.60	99.05	134.60	78.20	138.80		
17	97.70	159.00	145.80	104.45	103.10	210.60	83.00	89.00	101.75	127.60	79.40	123.40		
18	84.20	171.00	151.50	83.00	80.60	210.60	81.80	81.80	104.45	113.90	103.10	151.50		
19	90.20	178.50	163.50	67.00	80.60	201.60	84.20	101.75	107.15	111.20	96.35	177.00		
20	81.80	178.50	166.50	54.00	87.80	212.40	84.20	99.05	104.45	91.40	130.40	153.00		
21	81.80	138.80	144.40	74.60	84.20	272.10	77.00	85.40	119.30	79.40	133.20	151.50		
22	80.60	140.20	147.20	81.80	84.20	418.10	75.80	95.00	113.90	115.25	107.15	143.00		
23	81.80	163.50	136.00	89.00	84.20	586.80	79.40	81.80	115.25	115.25	126.20	113.90		
24	83.00	203.40	134.60	78.20	105.80	653.50	101.75	99.05	109.85	84.20	122.00	151.50		
25	111.20	216.00	129.00	78.20	143.00	752.10	86.60	87.80	112.55	83.00	85.40	137.40		
26	95.00	216.00	157.50	77.00	78.20	624.50	91.40	81.80	113.90	116.60	87.80	141.60		
27	95.00	201.60	169.50	78.20	77.00	418.10	86.60	74.60	115.25	130.40	116.60	104.45		
28	96.35	187.20	171.00	79.40	148.60	342.20	89.00	101.75	113.90	109.85	105.80	80.60		
29	95.00	154.50	169.50	96.35	203.40	316.20	86.60	103.10	113.90	89.00	80.60	93.80		
30	93.80	105.80	196.20	77.00	101.75	266.40	80.60	97.70	113.90	105.80		105.80		
31		96.35		64.00	85.40		87.80		112.55	107.15		93.80		
Total	3627.30	4398.55	3963.30	3662.75	3704.75	8443.95	3821.00	2732.05	3408.05	3200.05	2995.05	4136.20	48093.00	CMSDAY
Mean	120.91	141.89	132.11	118.15	119.51	281.47	123.26	91.07	109.94	103.23	103.28	133.43	131.40	CMS
Max	199.80	259.20	196.20	234.00	288.90	752.10	261.00	129.00	120.65	134.60	150.00	189.00	752.10	CMS
Min	80.60	69.00	86.60	54.00	73.40	101.75	75.80	74.60	99.05	77.00	78.20	80.60	54.00	CMS
Runoff	313.40	380.03	342.43	316.46	320.09	729.56	330.13	236.05	294.46	276.48	258.77	357.37	4155.24	MCM
Momentary Peak		863.80	CMS. at 14.44 m. (MSL.)					20.00 Hours						on Sep 25, 2019
Runoff Yield		4.98	Liters/Second/Square KM.					Momentary Peak Yield						32.66 Liters/Second/Square KM.

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)

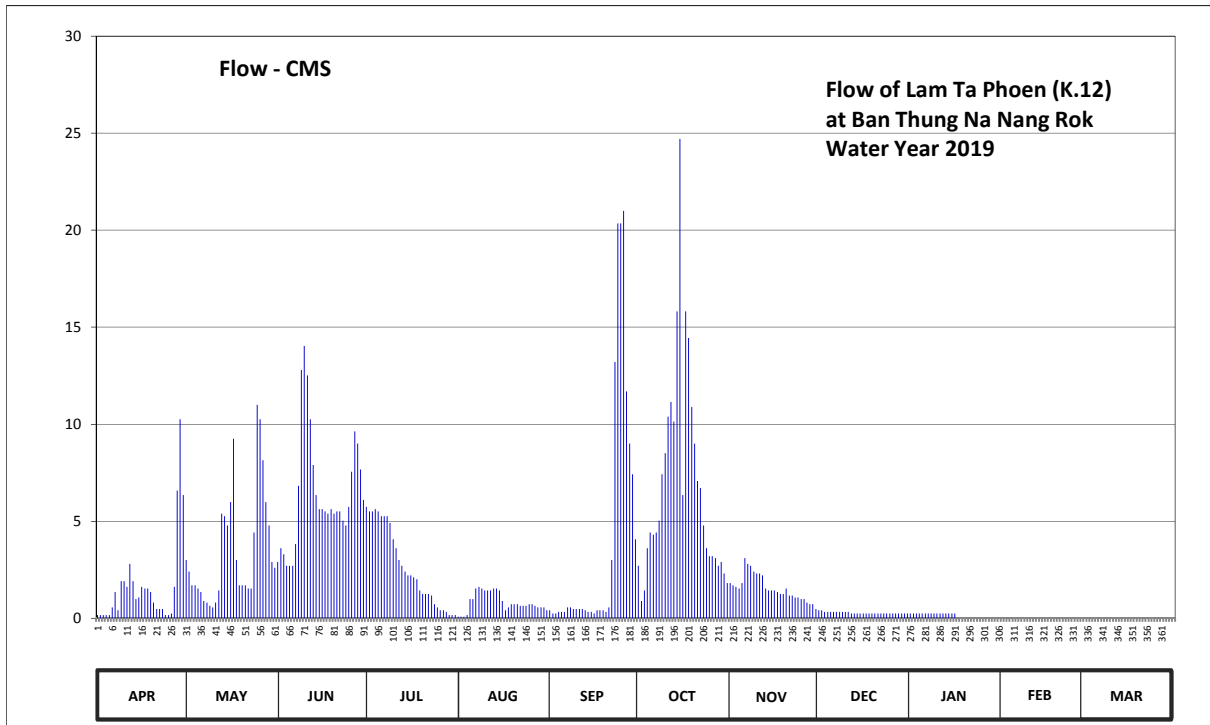
Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban Thung Na Nang Rok	Amphoe Mueang	Changwat Kanchanaburi
<b>Drainage Area</b>	2,375 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+39.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+49.135 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1965 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1965 - 1968 , 1995 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1965 - 1968 , 1995 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.72	40.03	40.02	40.27	39.71	39.75	40.00	39.91	39.75	39.73	39.70	39.70	
2	39.72	39.97	40.09	40.25	39.71	39.73	39.81	39.90	39.75	39.73	39.70	39.70	
3	39.72	39.90	40.06	40.25	39.71	39.73	39.87	39.89	39.74	39.73	39.70	39.70	
4	39.72	39.90	40.00	40.26	39.72	39.74	40.09	39.88	39.74	39.73	39.70	39.70	
5	39.72	39.88	40.00	40.25	39.82	39.74	40.16	39.91	39.74	39.73	39.70	39.70	
6	39.77	39.86	40.00	40.23	39.82	39.74	40.15	40.04	39.74	39.73	39.70	39.70	
7	39.86	39.81	40.11	40.23	39.88	39.77	40.16	40.01	39.74	39.73	39.70	39.70	
8	39.75	39.80	40.36	40.23	39.89	39.77	40.21	40.00	39.74	39.73	39.70	39.70	
9	39.92	39.78	40.83	40.20	39.88	39.76	40.41	39.97	39.74	39.73	39.70	39.70	
10	39.92	39.77	40.92	40.13	39.87	39.76	40.50	39.96	39.74	39.73	39.70	39.70	
11	39.89	39.80	40.81	40.09	39.87	39.76	40.65	39.96	39.74	39.73	39.70	39.70	
12	40.01	39.87	40.64	40.03	39.87	39.76	40.71	39.95	39.73	39.73	39.70	39.70	
13	39.92	40.24	40.45	40.00	39.88	39.75	40.63	39.88	39.73	39.73	39.70	39.70	
14	39.82	40.23	40.32	39.97	39.88	39.74	41.05	39.87	39.73	39.73	39.70	39.70	
15	39.83	40.19	40.26	39.95	39.87	39.74	41.60	39.87	39.73	39.73	39.70	39.70	
16	39.89	40.29	40.26	39.95	39.81	39.73	40.32	39.87	39.73	39.73	39.70	39.70	
17	39.88	40.56	40.25	39.94	39.75	39.75	41.05	39.86	39.73	39.70	39.70	39.70	
18	39.88	40.03	40.24	39.93	39.77	39.75	40.95	39.85	39.73	39.70	39.70	39.70	
19	39.86	39.90	40.26	39.87	39.79	39.75	40.69	39.85	39.73	39.70	39.70	39.70	
20	39.80	39.90	40.24	39.85	39.79	39.74	40.54	39.88	39.73	39.70	39.70	39.70	
21	39.76	39.90	40.25	39.85	39.79	39.77	40.38	39.84	39.73	39.70	39.70	39.70	
22	39.76	39.88	40.25	39.85	39.78	40.03	40.35	39.84	39.73	39.70	39.70	39.70	
23	39.76	39.88	40.21	39.84	39.78	40.86	40.19	39.83	39.73	39.70	39.70	39.70	
24	39.72	40.16	40.19	39.79	39.78	41.34	40.09	39.83	39.73	39.70	39.70	39.70	
25	39.72	40.70	40.27	39.77	39.79	41.34	40.05	39.82	39.73	39.70	39.70	39.70	
26	39.73	40.64	40.42	39.75	39.79	41.38	40.05	39.82	39.73	39.70	39.70	39.70	
27	39.89	40.47	40.59	39.75	39.78	40.75	40.04	39.80	39.73	39.70	39.70	39.70	
28	40.34	40.29	40.54	39.74	39.77	40.54	40.00	39.79	39.73	39.70	39.70	39.70	
29	40.64	40.19	40.43	39.72	39.77	40.41	40.02	39.79	39.73	39.70	39.70	39.70	
30	40.32	40.02	40.30	39.72	39.77	40.13	39.96	39.76	39.73	39.70	39.70	39.70	
31		39.99		39.72	39.75		39.91		39.73	39.70		39.70	
Mean	39.87	40.06	40.32	39.98	39.80	40.05	40.34	39.88	39.73	39.72	39.70	39.70	
Max	40.64	40.70	40.92	40.27	39.89	41.38	41.60	40.04	39.75	39.73	39.70	39.70	41.60
Min	39.72	39.77	40.00	39.72	39.71	39.73	39.81	39.76	39.73	39.70	39.70	39.70	39.70
Annual Max Momentary Gage Height	42.64		m. (MSL.) ,				at 06.00 Hours , on Oct 15 , 2019						
Zero Gage at Bottom Elevation	39.70		m. (MSL.) ,			River Bed	39.54	m. (MSL.)					
Left Bank Elevation		48.72		m. (MSL.) ,									
Right Bank Elevation		45.85		m. (MSL.) ,		Drainage Are	2,375	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	3.00	2.90	5.74	0.08	0.40	2.70	1.80	0.40	0.24	0.00	0.00	
2	0.16	2.40	3.60	5.50	0.08	0.24	0.89	1.70	0.40	0.24	0.00	0.00	
3	0.16	1.70	3.30	5.50	0.08	0.24	1.43	1.61	0.32	0.24	0.00	0.00	
4	0.16	1.70	2.70	5.62	0.16	0.32	3.60	1.52	0.32	0.24	0.00	0.00	
5	0.16	1.52	2.70	5.50	0.98	0.32	4.42	1.80	0.32	0.24	0.00	0.00	
6	0.56	1.34	2.70	5.26	0.98	0.32	4.30	3.10	0.32	0.24	0.00	0.00	
7	1.34	0.89	3.82	5.26	1.52	0.56	4.42	2.80	0.32	0.24	0.00	0.00	
8	0.40	0.80	6.82	5.26	1.61	0.56	5.02	2.70	0.32	0.24	0.00	0.00	
9	1.90	0.64	12.79	4.90	1.52	0.48	7.42	2.40	0.32	0.24	0.00	0.00	
10	1.90	0.56	14.03	4.06	1.43	0.48	8.50	2.30	0.32	0.24	0.00	0.00	
11	1.61	0.80	12.51	3.60	1.43	0.48	10.38	2.30	0.32	0.24	0.00	0.00	
12	2.80	1.43	10.25	3.00	1.43	0.48	11.14	2.20	0.24	0.24	0.00	0.00	
13	1.90	5.38	7.90	2.70	1.52	0.40	10.13	1.52	0.24	0.24	0.00	0.00	
14	0.98	5.26	6.34	2.40	1.52	0.32	15.81	1.43	0.24	0.24	0.00	0.00	
15	1.07	4.78	5.62	2.20	1.43	0.32	24.70	1.43	0.24	0.24	0.00	0.00	
16	1.61	5.98	5.62	2.20	0.89	0.24	6.34	1.43	0.24	0.24	0.00	0.00	
17	1.52	9.25	5.50	2.10	0.40	0.40	15.81	1.34	0.24	0.00	0.00	0.00	
18	1.52	3.00	5.38	2.00	0.56	0.40	14.44	1.25	0.24	0.00	0.00	0.00	
19	1.34	1.70	5.62	1.43	0.72	0.40	10.88	1.25	0.24	0.00	0.00	0.00	
20	0.80	1.70	5.38	1.25	0.72	0.32	9.00	1.52	0.24	0.00	0.00	0.00	
21	0.48	1.70	5.50	1.25	0.72	0.56	7.06	1.16	0.24	0.00	0.00	0.00	
22	0.48	1.52	5.50	1.25	0.64	3.00	6.70	1.16	0.24	0.00	0.00	0.00	
23	0.48	1.52	5.02	1.16	0.64	13.20	4.78	1.07	0.24	0.00	0.00	0.00	
24	0.16	4.42	4.78	0.72	0.64	20.34	3.60	1.07	0.24	0.00	0.00	0.00	
25	0.16	11.00	5.74	0.56	0.72	20.34	3.20	0.98	0.24	0.00	0.00	0.00	
26	0.24	10.25	7.54	0.40	0.72	20.98	3.20	0.98	0.24	0.00	0.00	0.00	
27	1.61	8.14	9.63	0.40	0.64	11.69	3.10	0.80	0.24	0.00	0.00	0.00	
28	6.58	5.98	9.00	0.32	0.56	9.00	2.70	0.72	0.24	0.00	0.00	0.00	
29	10.25	4.78	7.66	0.16	0.56	7.42	2.90	0.72	0.24	0.00	0.00	0.00	
30	6.34	2.90	6.10	0.16	0.56	4.06	2.30	0.48	0.24	0.00	0.00	0.00	
31		2.60		0.16	0.40		1.80		0.24	0.00		0.00	
<b>Total</b>	<b>48.83</b>	<b>108.64</b>	<b>191.95</b>	<b>82.02</b>	<b>25.86</b>	<b>118.27</b>	<b>212.67</b>	<b>46.54</b>	<b>8.48</b>	<b>3.84</b>	<b>0.00</b>	<b>0.00</b>	<b>847.10</b> CMSDAY
<b>Mean</b>	<b>1.63</b>	<b>3.50</b>	<b>6.40</b>	<b>2.65</b>	<b>0.83</b>	<b>3.94</b>	<b>6.86</b>	<b>1.55</b>	<b>0.27</b>	<b>0.12</b>	<b>0.00</b>	<b>0.00</b>	<b>2.31</b> CMS
<b>Max</b>	<b>10.25</b>	<b>11.00</b>	<b>14.03</b>	<b>5.74</b>	<b>1.61</b>	<b>20.98</b>	<b>24.70</b>	<b>3.10</b>	<b>0.40</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>24.70</b> CMS
<b>Min</b>	<b>0.16</b>	<b>0.56</b>	<b>2.70</b>	<b>0.16</b>	<b>0.08</b>	<b>0.24</b>	<b>0.89</b>	<b>0.48</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>4.22</b>	<b>9.39</b>	<b>16.58</b>	<b>7.09</b>	<b>2.23</b>	<b>10.22</b>	<b>18.37</b>	<b>4.02</b>	<b>0.73</b>	<b>0.33</b>	<b>0.00</b>	<b>0.00</b>	<b>73.19</b> MCM
<b>Momentary Peak</b>	46.50 CMS. at 42.64 m. (MSL.) at 06.00 Hours , on Oct 15, 2019												
<b>Runoff Yield</b>	0.98 Liters/Second/Square KM.			Momentary Peak Yield			19.58 Liters/Second/Square KM.						

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

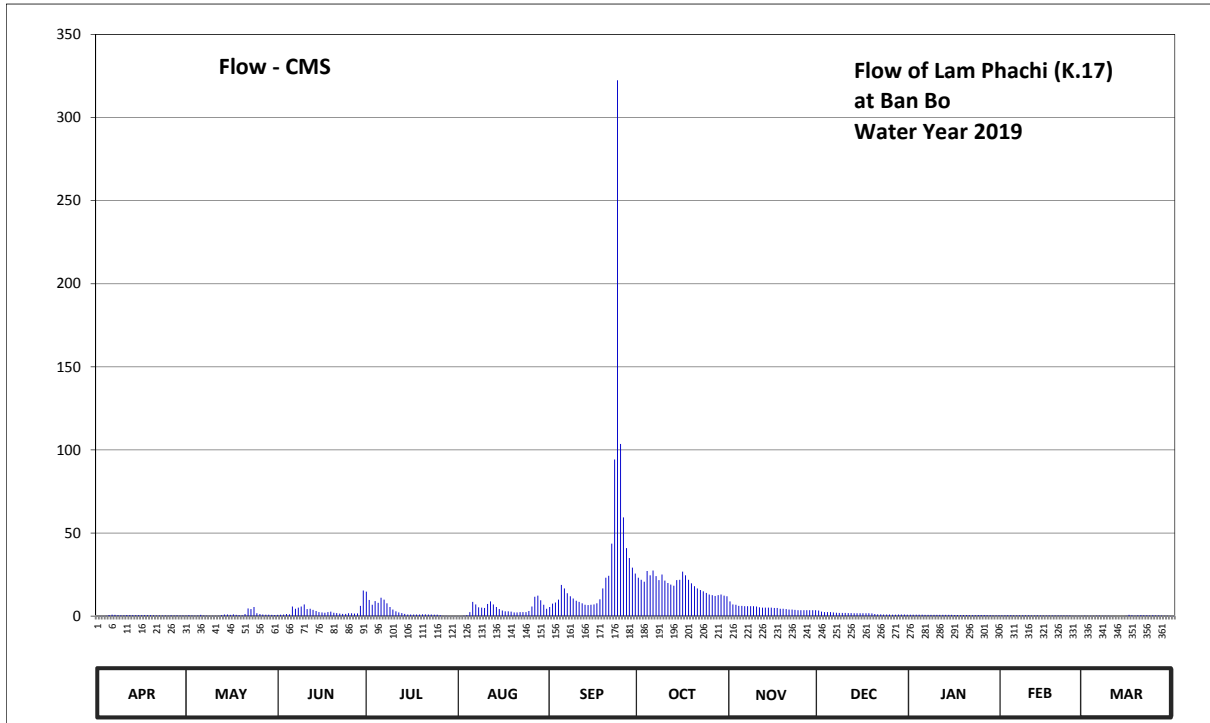
Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	<b>Ban Bo</b>	<b>Amphoe</b> Suan Phung	<b>Changwat</b> Ratchaburi
<b>Drainage Area</b>	1,344 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+97.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Along the measuring line.	<b>Elevation</b>	+108.062 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 - 1988 , 1993 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1966 - 1988 , 1993 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.18	97.28	97.36	98.07	97.22	97.66	98.42	97.81	97.56	97.38	97.30	97.25	
2	97.21	97.31	97.37	97.85	97.22	97.75	98.37	97.73	97.53	97.38	97.30	97.24	
3	97.22	97.27	97.40	97.72	97.26	97.78	98.32	97.72	97.52	97.38	97.32	97.24	
4	97.24	97.26	97.42	97.82	97.32	97.86	98.57	97.69	97.52	97.37	97.31	97.23	
5	97.33	97.27	97.41	97.77	97.52	98.24	98.48	97.69	97.52	97.37	97.30	97.25	
6	97.38	97.35	97.67	97.91	97.80	98.15	98.58	97.68	97.51	97.36	97.29	97.25	
7	97.36	97.28	97.61	97.86	97.73	98.03	98.46	97.68	97.50	97.36	97.29	97.24	
8	97.31	97.25	97.64	97.76	97.65	97.95	98.36	97.68	97.49	97.35	97.29	97.24	
9	97.29	97.24	97.67	97.66	97.64	97.89	98.50	97.68	97.49	97.35	97.29	97.24	
10	97.29	97.23	97.73	97.59	97.63	97.83	98.35	97.67	97.49	97.35	97.29	97.22	
11	97.34	97.23	97.60	97.54	97.74	97.80	98.29	97.65	97.48	97.35	97.28	97.21	
12	97.33	97.23	97.61	97.51	97.81	97.76	98.25	97.64	97.48	97.35	97.28	97.20	
13	97.31	97.31	97.58	97.48	97.73	97.72	98.22	97.64	97.47	97.35	97.29	97.20	
14	97.32	97.39	97.55	97.43	97.66	97.71	98.36	97.64	97.47	97.35	97.28	97.20	
15	97.32	97.39	97.52	97.40	97.60	97.72	98.37	97.64	97.47	97.35	97.28	97.23	
16	97.32	97.35	97.51	97.39	97.56	97.73	98.56	97.63	97.47	97.34	97.28	97.35	
17	97.32	97.41	97.50	97.39	97.54	97.76	98.48	97.63	97.47	97.33	97.27	97.29	
18	97.31	97.36	97.52	97.39	97.54	97.87	98.37	97.61	97.47	97.32	97.27	97.26	
19	97.32	97.32	97.53	97.39	97.53	98.15	98.28	97.61	97.46	97.33	97.28	97.29	
20	97.30	97.30	97.50	97.41	97.51	98.42	98.21	97.60	97.42	97.33	97.28	97.32	
21	97.28	97.42	97.48	97.41	97.51	98.47	98.15	97.59	97.41	97.32	97.28	97.29	
22	97.28	97.62	97.45	97.40	97.52	99.08	98.11	97.59	97.41	97.31	97.28	97.29	
23	97.27	97.60	97.43	97.39	97.52	100.02	98.08	97.58	97.40	97.31	97.27	97.28	
24	97.27	97.66	97.43	97.38	97.52	101.89	98.04	97.57	97.39	97.33	97.27	97.29	
25	97.26	97.47	97.47	97.37	97.55	100.13	98.00	97.57	97.39	97.33	97.24	97.28	
26	97.29	97.42	97.47	97.32	97.67	99.43	97.98	97.57	97.38	97.33	97.24	97.28	
27	97.27	97.39	97.45	97.24	97.94	99.02	97.96	97.57	97.38	97.31	97.23	97.26	
28	97.29	97.37	97.46	97.23	97.97	98.83	97.98	97.57	97.39	97.31	97.23	97.24	
29	97.28	97.37	97.69	97.22	97.84	98.64	98.00	97.57	97.40	97.30	97.22	97.23	
30	97.27	97.35	98.10	97.22	97.72	98.52	97.97	97.57	97.39	97.29	97.29	97.21	
31		97.34		97.22	97.61		97.95		97.37	97.29		97.21	
Mean	97.29	97.36	97.54	97.51	97.60	98.39	98.26	97.64	97.45	97.34	97.28	97.25	
Max	97.38	97.66	98.10	98.07	97.97	101.89	98.58	97.81	97.56	97.38	97.32	97.35	101.89
Min	97.18	97.23	97.36	97.22	97.22	97.66	97.95	97.57	97.37	97.29	97.22	97.20	97.18
Annual Max Momentary Gage Height	102.51		m. (MSL.) ,				at 07.00 Hours ,						on Sep 24, 2019
Zero Gage at Bottom Elevation	97.50		m. (MSL.) ,			River Bed	96.96	m. (MSL.)					
Left Bank Elevation		108.27		m. (MSL.) ,									
Right Bank Elevation		103.26		m. (MSL.) ,		Drainage Are	1,344	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.40	0.80	14.68	0.10	5.52	23.08	8.82	3.32	0.90	0.50	0.25		
2	0.05	0.55	0.85	9.70	0.10	7.50	21.88	7.06	2.66	0.90	0.50	0.20		
3	0.10	0.35	1.00	6.84	0.30	8.16	20.68	6.84	2.44	0.90	0.60	0.20		
4	0.20	0.30	1.20	9.04	0.60	9.92	27.10	6.18	2.44	0.85	0.55	0.15		
5	0.65	0.35	1.10	7.94	2.44	18.76	24.52	6.18	2.44	0.85	0.50	0.25		
6	0.90	0.75	5.74	11.02	8.60	16.60	27.40	5.96	2.22	0.80	0.45	0.25		
7	0.80	0.40	4.42	9.92	7.06	13.72	24.04	5.96	2.00	0.80	0.45	0.20		
8	0.55	0.25	5.08	7.72	5.30	11.90	21.64	5.96	1.90	0.75	0.45	0.20		
9	0.45	0.20	5.74	5.52	5.08	10.58	25.00	5.96	1.90	0.75	0.45	0.20		
10	0.45	0.15	7.06	3.98	4.86	9.26	21.40	5.74	1.90	0.75	0.45	0.10		
11	0.70	0.15	4.20	2.88	7.28	8.60	19.96	5.30	1.80	0.75	0.40	0.05		
12	0.65	0.15	4.42	2.22	8.82	7.72	19.00	5.08	1.80	0.75	0.40	0.00		
13	0.55	0.55	3.76	1.80	7.06	6.84	18.28	5.08	1.70	0.75	0.45	0.00		
14	0.60	0.95	3.10	1.30	5.52	6.62	21.64	5.08	1.70	0.75	0.40	0.00		
15	0.60	0.95	2.44	1.00	4.20	6.84	21.88	5.08	1.70	0.75	0.40	0.15		
16	0.60	0.75	2.22	0.95	3.32	7.06	26.80	4.86	1.70	0.70	0.40	0.75		
17	0.60	1.10	2.00	0.95	2.88	7.72	24.52	4.86	1.70	0.65	0.35	0.45		
18	0.55	0.80	2.44	0.95	2.88	10.14	21.88	4.42	1.70	0.60	0.35	0.30		
19	0.60	0.60	2.66	0.95	2.66	16.60	19.72	4.42	1.60	0.65	0.40	0.45		
20	0.50	0.50	2.00	1.10	2.22	23.08	18.04	4.20	1.20	0.65	0.40	0.60		
21	0.40	1.20	1.80	1.10	2.22	24.28	16.60	3.98	1.10	0.60	0.40	0.45		
22	0.40	4.64	1.50	1.00	2.44	43.60	15.64	3.98	1.10	0.55	0.40	0.45		
23	0.35	4.20	1.30	0.95	2.44	94.20	14.92	3.76	1.00	0.55	0.35	0.40		
24	0.35	5.52	1.30	0.90	2.44	322.40	13.96	3.54	0.95	0.65	0.35	0.45		
25	0.30	1.70	1.70	0.85	3.10	103.55	13.00	3.54	0.95	0.65	0.20	0.40		
26	0.45	1.20	1.70	0.60	5.74	59.35	12.56	3.54	0.90	0.65	0.20	0.40		
27	0.35	0.95	1.50	0.20	11.68	40.90	12.12	3.54	0.90	0.55	0.15	0.30		
28	0.45	0.85	1.60	0.15	12.34	34.90	12.56	3.54	0.95	0.55	0.15	0.20		
29	0.40	0.85	6.18	0.10	9.48	29.20	13.00	3.54	1.00	0.50	0.10	0.15		
30	0.35	0.75	15.40	0.10	6.84	25.60	12.34	3.54	0.95	0.45		0.05		
31		0.70		0.10	4.42		11.90		0.85	0.45		0.05		
Total	13.90	32.76	96.21	106.51	144.42	991.12	597.06	149.54	50.47	21.40	11.15	8.05	2222.59	CMSDAY
Mean	0.46	1.06	3.21	3.44	4.66	33.04	19.26	4.98	1.63	0.69	0.38	0.26	6.07	CMS
Max	0.90	5.52	15.40	14.68	12.34	322.40	27.40	8.82	3.32	0.90	0.60	0.75	322.40	CMS
Min	0.00	0.15	0.80	0.10	0.10	5.52	11.90	3.54	0.85	0.45	0.10	0.00	0.00	CMS
Runoff	1.20	2.83	8.31	9.20	12.48	85.63	51.59	12.92	4.36	1.85	0.96	0.70	192.03	MCM
Momentary Peak	431.80 CMS. at 102.51 m. (MSL.) at 07.00 Hours , on Sep 24, 2019													
Runoff Yield	4.53 Liters/Second/Square KM.			Momentary Peak Yield				321.28 Liters/Second/Square KM.						

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Mae Nam Noi , Kanchanaburi (K.22C)

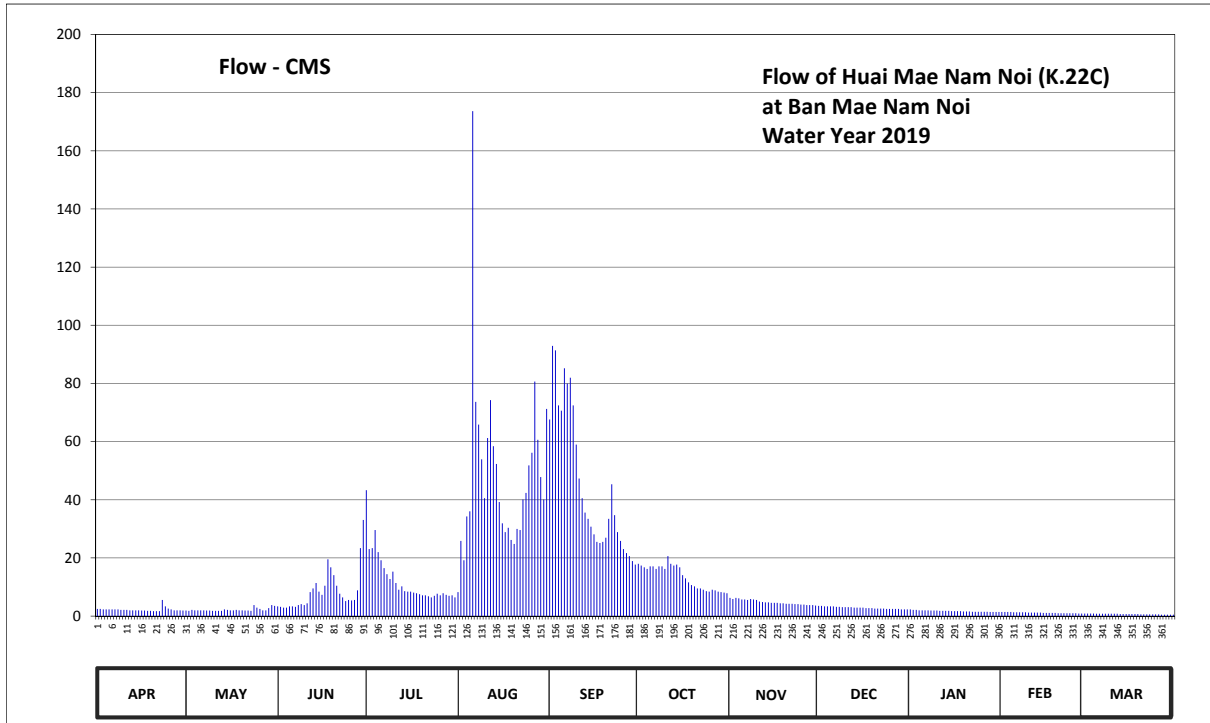
Lat 14 - 26 - 59 N Long 98 - 48 - 08 E

Location : on right bank about 640 meters upstream from station K.22A

	<b>Ban Mae Nam Noi</b>	<b>Amphoe Sai Yok</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	311 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+66.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 10 meters from the top staff gage.	<b>Elevation</b>	+78.516 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.43	67.39	67.49	68.81	67.78	69.26	68.16	67.67	67.50	67.42	67.34	67.29	
2	67.43	67.38	67.48	68.31	68.39	69.65	68.14	67.65	67.50	67.41	67.34	67.29	
3	67.42	67.41	67.46	68.32	68.20	69.63	68.12	67.67	67.49	67.41	67.34	67.29	
4	67.42	67.40	67.46	68.49	68.61	69.34	68.10	67.66	67.49	67.40	67.34	67.29	
5	67.42	67.40	67.49	68.28	68.65	69.31	68.13	67.64	67.49	67.40	67.33	67.28	
6	67.42	67.40	67.49	68.20	70.60	69.54	68.13	67.64	67.49	67.40	67.33	67.28	
7	67.42	67.40	67.48	68.11	69.36	69.46	68.10	67.63	67.48	67.40	67.33	67.28	
8	67.42	67.39	67.52	68.04	69.23	69.49	68.13	67.65	67.48	67.39	67.33	67.28	
9	67.41	67.39	67.54	67.98	69.02	69.34	68.13	67.64	67.47	67.39	67.33	67.28	
10	67.41	67.38	67.52	68.07	68.75	69.11	68.10	67.63	67.47	67.39	67.32	67.28	
11	67.41	67.38	67.56	67.92	69.15	68.89	68.24	67.60	67.47	67.38	67.32	67.28	
12	67.40	67.38	67.78	67.82	69.37	68.75	68.16	67.59	67.47	67.38	67.32	67.28	
13	67.40	67.38	67.84	67.87	69.10	68.64	68.14	67.58	67.46	67.38	67.32	67.27	
14	67.40	67.42	67.92	67.80	68.99	68.59	68.15	67.58	67.46	67.38	67.32	67.27	
15	67.40	67.41	67.79	67.79	68.72	68.52	68.12	67.57	67.46	67.37	67.31	67.27	
16	67.39	67.40	67.73	67.79	68.55	68.45	68.03	67.57	67.46	67.37	67.31	67.27	
17	67.39	67.40	67.88	67.77	68.47	68.38	67.99	67.57	67.45	67.37	67.31	67.27	
18	67.38	67.41	68.21	67.76	68.51	68.37	67.93	67.56	67.45	67.37	67.31	67.27	
19	67.38	67.40	68.12	67.74	68.40	68.38	67.89	67.56	67.45	67.36	67.31	67.27	
20	67.37	67.40	68.03	67.72	68.36	68.42	67.87	67.55	67.44	67.36	67.30	67.26	
21	67.37	67.39	67.88	67.72	68.50	68.59	67.84	67.55	67.44	67.36	67.30	67.26	
22	67.37	67.39	67.75	67.70	68.49	68.85	67.84	67.55	67.44	67.35	67.30	67.26	
23	67.63	67.38	67.68	67.68	68.74	68.62	67.82	67.54	67.44	67.35	67.30	67.26	
24	67.49	67.52	67.61	67.71	68.79	68.47	67.80	67.54	67.43	67.35	67.30	67.26	
25	67.44	67.46	67.63	67.75	68.98	68.39	67.79	67.53	67.43	67.35	67.30	67.26	
26	67.42	67.43	67.62	67.72	69.06	68.31	67.82	67.53	67.43	67.35	67.30	67.26	
27	67.40	67.40	67.63	67.76	69.47	68.27	67.81	67.52	67.43	67.35	67.29	67.25	
28	67.40	67.40	67.81	67.73	69.14	68.24	67.79	67.52	67.43	67.34	67.29	67.25	
29	67.40	67.45	68.32	67.71	68.90	68.19	67.78	67.52	67.42	67.34	67.29	67.25	
30	67.39	67.52	68.58	67.72	68.74	68.15	67.77	67.51	67.42	67.34	67.29	67.25	
31		67.50		67.68	69.32		67.76		67.42	67.34		67.25	
Mean	67.41	67.41	67.74	67.92	68.85	68.79	67.99	67.58	67.46	67.37	67.31	67.27	
Max	67.63	67.52	68.58	68.81	70.60	69.65	68.24	67.67	67.50	67.42	67.34	67.29	70.60
Min	67.37	67.38	67.46	67.68	67.78	68.15	67.76	67.51	67.42	67.34	67.29	67.25	67.25
Annual Max Momentary Gage Height	71.00		m. (MSL.) ,				at 12.00 Hours , on Aug 6 , 2019						
Zero Gage at Bottom Elevation	66.20		m. (MSL.) ,			River Bed	66.20	m. (MSL.)					
Left Bank Elevation		78.48		m. (MSL.) ,									
Right Bank Elevation		70.97		m. (MSL.) ,		Drainage Are	311	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.45	1.90	3.35	43.30	8.24	67.63	18.00	6.26	3.50	2.30	1.40	0.90		
2	2.45	1.80	3.20	23.05	25.85	92.90	17.40	5.90	3.50	2.15	1.40	0.90		
3	2.30	2.15	2.90	23.40	19.20	91.38	16.80	6.26	3.35	2.15	1.40	0.90		
4	2.30	2.00	2.90	29.62	34.25	72.47	16.20	6.08	3.35	2.00	1.40	0.90		
5	2.30	2.00	3.35	22.00	36.05	70.66	17.10	5.72	3.35	2.00	1.30	0.80		
6	2.30	2.00	3.35	19.20	173.60	85.20	17.10	5.72	3.35	2.00	1.30	0.80		
7	2.30	2.00	3.20	16.50	73.68	80.00	16.20	5.54	3.20	2.00	1.30	0.80		
8	2.30	1.90	3.80	14.40	65.82	81.95	17.10	5.90	3.20	1.90	1.30	0.80		
9	2.15	1.90	4.10	12.74	53.92	72.47	17.10	5.72	3.05	1.90	1.30	0.80		
10	2.15	1.80	3.80	15.30	40.55	58.96	16.20	5.54	3.05	1.90	1.20	0.80		
11	2.15	1.80	4.40	11.36	61.20	47.30	20.60	5.00	3.05	1.80	1.20	0.80		
12	2.00	1.80	8.24	9.06	74.29	40.55	18.00	4.85	3.05	1.80	1.20	0.80		
13	2.00	1.80	9.52	10.21	58.40	35.60	17.40	4.70	2.90	1.80	1.20	0.70		
14	2.00	2.30	11.36	8.60	52.30	33.42	17.70	4.70	2.90	1.80	1.20	0.70		
15	2.00	2.15	8.42	8.42	39.20	30.76	16.80	4.55	2.90	1.70	1.10	0.70		
16	1.90	2.00	7.34	8.42	31.90	28.10	14.10	4.55	2.90	1.70	1.10	0.70		
17	1.90	2.00	10.44	8.06	28.86	25.50	12.97	4.55	2.75	1.70	1.10	0.70		
18	1.80	2.15	19.55	7.88	30.38	25.15	11.59	4.40	2.75	1.70	1.10	0.70		
19	1.80	2.00	16.80	7.52	26.20	25.50	10.67	4.40	2.75	1.60	1.10	0.70		
20	1.70	2.00	14.10	7.16	24.80	26.96	10.21	4.25	2.60	1.60	1.00	0.60		
21	1.70	1.90	10.44	7.16	30.00	33.42	9.52	4.25	2.60	1.60	1.00	0.60		
22	1.70	1.90	7.70	6.80	29.62	45.30	9.52	4.25	2.60	1.50	1.00	0.60		
23	5.54	1.80	6.44	6.44	40.10	34.70	9.06	4.10	2.60	1.50	1.00	0.60		
24	3.35	3.80	5.18	6.98	42.35	28.86	8.60	4.10	2.45	1.50	1.00	0.60		
25	2.60	2.90	5.54	7.70	51.80	25.85	8.42	3.95	2.45	1.50	1.00	0.60		
26	2.30	2.45	5.36	7.16	56.16	23.05	9.06	3.95	2.45	1.50	1.00	0.60		
27	2.00	2.00	5.54	7.88	80.65	21.65	8.83	3.80	2.45	1.50	0.90	0.50		
28	2.00	2.00	8.83	7.34	60.64	20.60	8.42	3.80	2.45	1.40	0.90	0.50		
29	2.00	2.75	23.40	6.98	47.80	18.90	8.24	3.80	2.30	1.40	0.90	0.50		
30	1.90	3.80	33.04	7.16	40.10	17.70	8.06	3.65	2.30	1.40		0.50		
31		3.50		6.44	71.26		7.88		2.30	1.40		0.50		
<b>Total</b>	<b>67.34</b>	<b>68.25</b>	<b>255.59</b>	<b>384.24</b>	<b>1509.17</b>	<b>1362.49</b>	<b>414.85</b>	<b>144.24</b>	<b>88.40</b>	<b>53.70</b>	<b>33.30</b>	<b>21.60</b>	<b>4403.17</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>2.24</b>	<b>2.20</b>	<b>8.52</b>	<b>12.39</b>	<b>48.68</b>	<b>45.42</b>	<b>13.38</b>	<b>4.81</b>	<b>2.85</b>	<b>1.73</b>	<b>1.15</b>	<b>0.70</b>	<b>12.03</b>	<b>CMS</b>
<b>Max</b>	<b>5.54</b>	<b>3.80</b>	<b>33.04</b>	<b>43.30</b>	<b>173.60</b>	<b>92.90</b>	<b>20.60</b>	<b>6.26</b>	<b>3.50</b>	<b>2.30</b>	<b>1.40</b>	<b>0.90</b>	<b>173.60</b>	<b>CMS</b>
<b>Min</b>	<b>1.70</b>	<b>1.80</b>	<b>2.90</b>	<b>6.44</b>	<b>8.24</b>	<b>17.70</b>	<b>7.88</b>	<b>3.65</b>	<b>2.30</b>	<b>1.40</b>	<b>0.90</b>	<b>0.50</b>	<b>0.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>5.82</b>	<b>5.90</b>	<b>22.08</b>	<b>33.20</b>	<b>130.39</b>	<b>117.72</b>	<b>35.84</b>	<b>12.46</b>	<b>7.64</b>	<b>4.64</b>	<b>2.88</b>	<b>1.87</b>	<b>380.43</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>215.00</b>	<b>CMS.</b>	<b>at 71.00 m. (MSL.)</b>	<b>at 12.00 Hours</b>	<b>on Aug 6, 2019</b>									
<b>Runoff Yield</b>	<b>38.79</b>	<b>Liters/Second/Square KM.</b>	<b>Momentary Peak Yield</b>		<b>691.32</b>	<b>Liters/Second/Square KM.</b>								



## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

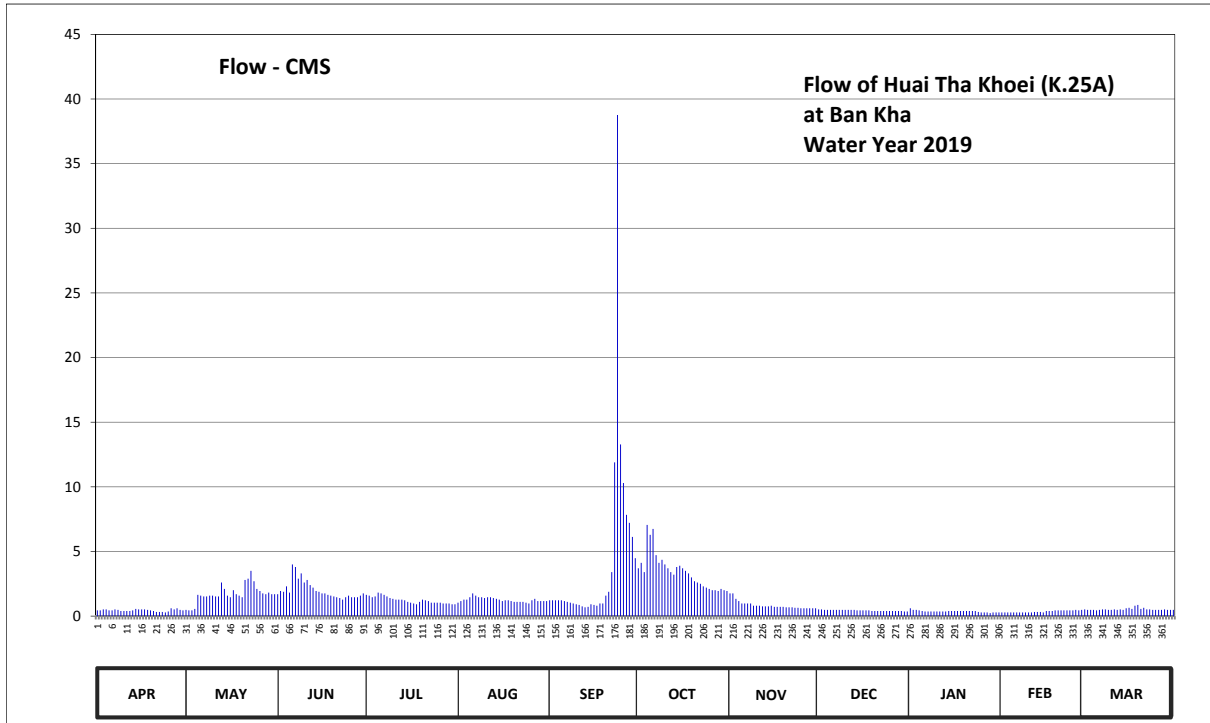
Lat 13 - 24 - 07 N Long 99 - 25 - 14 E

Location : on right bank about 8 kilometers upstream from station K.25

	<b>Ban Kha</b>	<b>Amphoe Ban Kha</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	367 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+152.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 1 meter from the top staff gage.	<b>Elevation</b>	+159.346 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1994 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.21	152.22	152.45	152.44	152.34	152.37	152.67	152.46	152.23	152.25	152.17	152.23	
2	152.21	152.21	152.49	152.43	152.36	152.37	152.71	152.46	152.23	152.22	152.17	152.22	
3	152.23	152.21	152.48	152.41	152.38	152.37	152.64	152.39	152.22	152.22	152.17	152.22	
4	152.23	152.24	152.53	152.42	152.38	152.37	152.92	152.36	152.22	152.21	152.17	152.22	
5	152.21	152.44	152.47	152.47	152.41	152.37	152.87	152.33	152.22	152.20	152.17	152.21	
6	152.21	152.43	152.70	152.46	152.46	152.36	152.90	152.33	152.22	152.19	152.17	152.22	
7	152.23	152.42	152.68	152.44	152.43	152.35	152.76	152.33	152.22	152.19	152.17	152.23	
8	152.22	152.42	152.59	152.42	152.41	152.34	152.71	152.33	152.22	152.19	152.17	152.23	
9	152.20	152.43	152.63	152.40	152.41	152.33	152.73	152.30	152.22	152.19	152.17	152.22	
10	152.20	152.43	152.56	152.39	152.40	152.32	152.70	152.30	152.22	152.19	152.17	152.22	
11	152.20	152.42	152.58	152.38	152.41	152.31	152.67	152.30	152.22	152.19	152.17	152.23	
12	152.20	152.42	152.54	152.38	152.41	152.29	152.64	152.29	152.22	152.19	152.18	152.22	
13	152.21	152.56	152.52	152.38	152.40	152.27	152.62	152.29	152.22	152.19	152.18	152.23	
14	152.24	152.51	152.49	152.37	152.39	152.28	152.68	152.29	152.21	152.20	152.18	152.22	
15	152.23	152.43	152.48	152.35	152.38	152.32	152.69	152.30	152.21	152.20	152.17	152.25	
16	152.23	152.41	152.46	152.34	152.36	152.31	152.67	152.28	152.21	152.20	152.20	152.26	
17	152.23	152.50	152.46	152.33	152.37	152.30	152.65	152.28	152.21	152.20	152.20	152.24	
18	152.22	152.45	152.44	152.32	152.37	152.33	152.63	152.28	152.21	152.20	152.20	152.30	
19	152.21	152.43	152.43	152.35	152.36	152.33	152.60	152.28	152.20	152.20	152.21	152.31	
20	152.20	152.41	152.42	152.38	152.35	152.43	152.57	152.27	152.20	152.20	152.21	152.24	
21	152.18	152.58	152.41	152.37	152.35	152.48	152.56	152.27	152.20	152.20	152.21	152.26	
22	152.18	152.59	152.40	152.36	152.35	152.64	152.55	152.27	152.20	152.20	152.21	152.23	
23	152.18	152.65	152.38	152.34	152.35	153.18	152.53	152.26	152.20	152.20	152.21	152.23	
24	152.17	152.57	152.41	152.34	152.34	153.97	152.52	152.26	152.20	152.18	152.21	152.22	
25	152.19	152.51	152.43	152.34	152.33	153.24	152.51	152.25	152.20	152.17	152.21	152.22	
26	152.25	152.49	152.41	152.34	152.37	153.10	152.50	152.25	152.20	152.17	152.22	152.22	
27	152.23	152.46	152.41	152.33	152.39	152.97	152.50	152.25	152.20	152.17	152.21	152.22	
28	152.25	152.45	152.41	152.33	152.36	152.93	152.49	152.25	152.20	152.16	152.22	152.23	
29	152.22	152.47	152.43	152.33	152.36	152.86	152.51	152.25	152.20	152.17	152.22	152.22	
30	152.21	152.45	152.46	152.32	152.36	152.74	152.50	152.25	152.19	152.17	152.21	152.22	
31		152.45		152.32	152.36		152.49		152.19	152.17		152.22	
Mean	152.21	152.44	152.49	152.37	152.38	152.56	152.64	152.30	152.21	152.19	152.19	152.23	
Max	152.25	152.65	152.70	152.47	152.46	153.97	152.92	152.46	152.23	152.25	152.22	152.31	153.97
Min	152.17	152.21	152.38	152.32	152.33	152.27	152.49	152.25	152.19	152.16	152.17	152.21	152.16
Annual Max Momentary Gage Height	154.56		m. (MSL.) ,				at 06.00 Hours , on Sep 24, 2019						
Zero Gage at Bottom Elevation	152.00		m. (MSL.) ,			River Bed	151.79	m. (MSL.)					
Left Bank Elevation		158.99		m. (MSL.) ,									
Right Bank Elevation		159.07		m. (MSL.) ,		Drainage Are	367	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.48	1.70	1.64	1.04	1.22	3.70	1.76	0.52	0.60	0.28	0.52	
2	0.44	0.44	1.94	1.58	1.16	1.22	4.12	1.76	0.52	0.48	0.28	0.48	
3	0.52	0.44	1.88	1.46	1.28	1.22	3.40	1.34	0.48	0.48	0.28	0.48	
4	0.52	0.56	2.30	1.52	1.28	1.22	7.06	1.16	0.48	0.44	0.28	0.48	
5	0.44	1.64	1.82	1.82	1.46	1.22	6.29	0.98	0.48	0.40	0.28	0.44	
6	0.44	1.58	4.00	1.76	1.76	1.16	6.75	0.98	0.48	0.36	0.28	0.48	
7	0.52	1.52	3.80	1.64	1.58	1.10	4.72	0.98	0.48	0.36	0.28	0.52	
8	0.48	1.52	2.90	1.52	1.46	1.04	4.12	0.98	0.48	0.36	0.28	0.52	
9	0.40	1.58	3.30	1.40	1.46	0.98	4.36	0.80	0.48	0.36	0.28	0.48	
10	0.40	1.58	2.60	1.34	1.40	0.92	4.00	0.80	0.48	0.36	0.28	0.48	
11	0.40	1.52	2.80	1.28	1.46	0.86	3.70	0.80	0.48	0.36	0.28	0.52	
12	0.40	1.52	2.40	1.28	1.46	0.76	3.40	0.76	0.48	0.36	0.32	0.48	
13	0.44	2.60	2.20	1.28	1.40	0.68	3.20	0.76	0.48	0.36	0.32	0.52	
14	0.56	2.10	1.94	1.22	1.34	0.72	3.80	0.76	0.44	0.40	0.32	0.48	
15	0.52	1.58	1.88	1.10	1.28	0.92	3.90	0.80	0.44	0.40	0.28	0.60	
16	0.52	1.46	1.76	1.04	1.16	0.86	3.70	0.72	0.44	0.40	0.40	0.64	
17	0.52	2.00	1.76	0.98	1.22	0.80	3.50	0.72	0.44	0.40	0.40	0.56	
18	0.48	1.70	1.64	0.92	1.22	0.98	3.30	0.72	0.44	0.40	0.40	0.80	
19	0.44	1.58	1.58	1.10	1.16	0.98	3.00	0.72	0.40	0.40	0.44	0.86	
20	0.40	1.46	1.52	1.28	1.10	1.58	2.70	0.68	0.40	0.40	0.44	0.56	
21	0.32	2.80	1.46	1.22	1.10	1.88	2.60	0.68	0.40	0.40	0.44	0.64	
22	0.32	2.90	1.40	1.16	1.10	3.40	2.50	0.68	0.40	0.40	0.44	0.52	
23	0.32	3.50	1.28	1.04	1.10	11.90	2.30	0.64	0.40	0.40	0.44	0.52	
24	0.28	2.70	1.46	1.04	1.04	38.77	2.20	0.64	0.40	0.32	0.44	0.48	
25	0.36	2.10	1.58	1.04	0.98	13.28	2.10	0.60	0.40	0.28	0.44	0.48	
26	0.60	1.94	1.46	1.04	1.22	10.30	2.00	0.60	0.40	0.28	0.48	0.48	
27	0.52	1.76	1.46	0.98	1.34	7.84	2.00	0.60	0.40	0.28	0.44	0.48	
28	0.60	1.70	1.46	0.98	1.16	7.22	1.94	0.60	0.40	0.24	0.48	0.52	
29	0.48	1.82	1.58	0.98	1.16	6.13	2.10	0.60	0.40	0.28	0.48	0.48	
30	0.44	1.70	1.76	0.92	1.16	4.48	2.00	0.60	0.36	0.28		0.48	
31		1.70		0.92	1.16		1.94		0.36	0.28		0.48	
Total	13.52	53.48	60.62	38.48	39.20	125.64	106.40	25.22	13.64	11.52	10.48	16.46	514.66 CMSDAY
Mean	0.45	1.73	2.02	1.24	1.26	4.19	3.43	0.84	0.44	0.37	0.36	0.53	1.41 CMS
Max	0.60	3.50	4.00	1.82	1.76	38.77	7.06	1.76	0.52	0.60	0.48	0.86	38.77 CMS
Min	0.28	0.44	1.28	0.92	0.98	0.68	1.94	0.60	0.36	0.24	0.28	0.44	0.24 CMS
Runoff	1.17	4.62	5.24	3.32	3.39	10.86	9.19	2.18	1.18	1.00	0.91	1.42	44.47 MCM
Momentary Peak	76.00	CMS.	at 154.56 m. (MSL.)	at 06.00 Hours	on Sep 24, 2019								
Runoff Yield	3.84	Liters/Second/Square KM.		Momentary Peak Yield	207.08	Liters/Second/Square KM.							

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

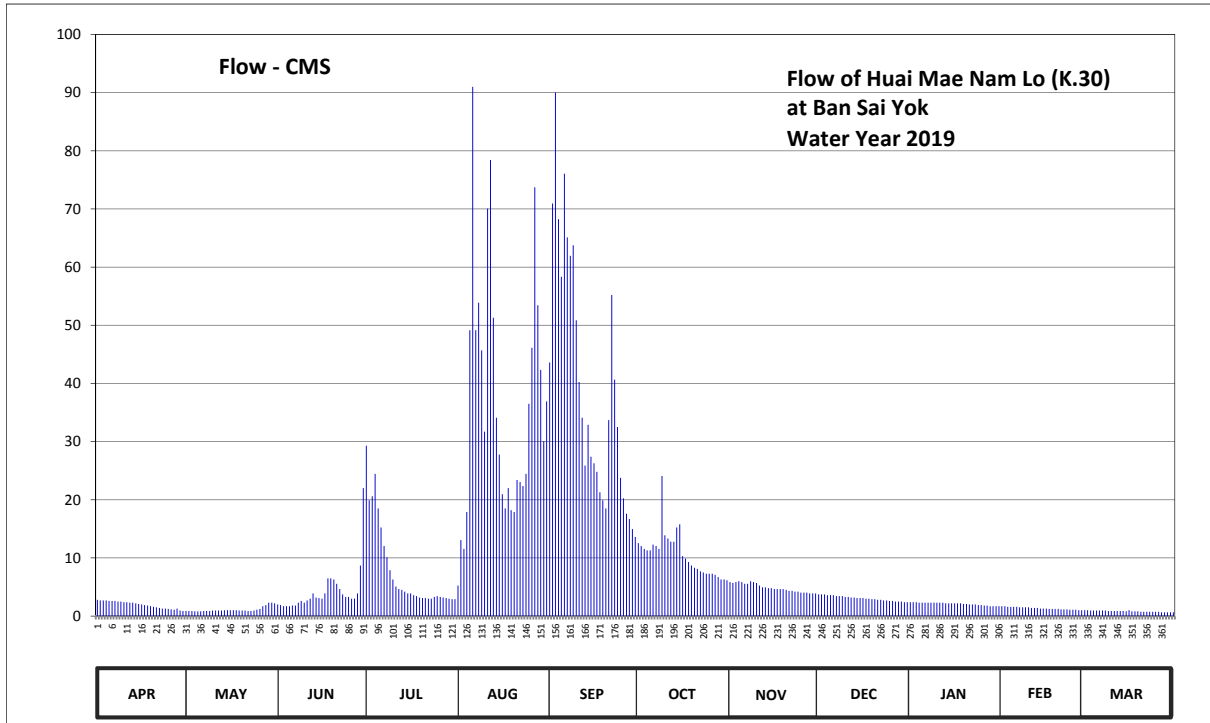
Lat 14 - 26 - 27 N Long 98 - 47 - 48 E

Location : on left bank about 1 kilometer downstream from station K.22A

	Ban Sai Yok	Amphoe Sai Yok	Changwat Kanchanaburi
<b>Drainage Area</b>	466 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+68.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+77.312 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1994 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1994 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.15	67.94	68.07	69.20	68.33	69.55	68.69	68.37	68.23	68.11	68.04	67.96	
2	68.14	67.94	68.06	68.94	68.71	70.17	68.67	68.36	68.23	68.11	68.04	67.96	
3	68.14	67.94	68.04	68.96	68.65	70.57	68.65	68.37	68.23	68.11	68.03	67.95	
4	68.14	67.93	68.04	69.07	68.88	70.11	68.64	68.38	68.22	68.10	68.03	67.95	
5	68.13	67.93	68.04	68.90	69.68	69.89	68.64	68.37	68.22	68.10	68.03	67.95	
6	68.13	67.93	68.05	68.79	70.59	70.28	68.68	68.35	68.22	68.10	68.03	67.95	
7	68.13	67.94	68.05	68.67	69.68	70.04	68.67	68.35	68.21	68.10	68.02	67.95	
8	68.12	67.94	68.10	68.59	69.79	69.97	68.65	68.38	68.21	68.10	68.02	67.95	
9	68.12	67.94	68.13	68.48	69.60	70.01	69.06	68.37	68.21	68.10	68.02	67.94	
10	68.11	67.95	68.10	68.40	69.26	69.72	68.74	68.36	68.20	68.10	68.02	67.94	
11	68.11	67.95	68.14	68.32	70.15	69.47	68.72	68.33	68.20	68.10	68.01	67.94	
12	68.10	67.95	68.17	68.29	70.33	69.32	68.70	68.31	68.19	68.10	68.01	67.94	
13	68.10	67.95	68.24	68.28	69.73	69.11	68.70	68.31	68.19	68.09	68.01	67.94	
14	68.09	67.96	68.19	68.26	69.32	69.29	68.79	68.30	68.18	68.09	68.00	67.94	
15	68.08	67.96	68.18	68.24	69.16	69.15	68.81	68.30	68.18	68.09	68.00	67.93	
16	68.07	67.96	68.17	68.24	68.97	69.12	68.60	68.29	68.18	68.09	68.00	67.96	
17	68.06	67.96	68.24	68.22	68.90	69.08	68.58	68.29	68.17	68.09	67.99	67.93	
18	68.05	67.96	68.41	68.21	69.00	68.98	68.55	68.29	68.17	68.09	67.99	67.93	
19	68.04	67.95	68.41	68.19	68.89	68.94	68.52	68.29	68.16	68.08	67.99	67.93	
20	68.03	67.95	68.40	68.18	68.88	68.90	68.50	68.28	68.16	68.08	67.99	67.92	
21	68.02	67.95	68.35	68.18	69.04	69.31	68.49	68.27	68.15	68.07	67.98	67.92	
22	68.01	67.94	68.29	68.17	69.03	69.82	68.47	68.27	68.15	68.07	67.98	67.92	
23	68.00	67.94	68.23	68.17	69.01	69.48	68.46	68.26	68.14	68.07	67.98	67.92	
24	68.00	67.95	68.20	68.20	69.07	69.28	68.45	68.26	68.14	68.06	67.97	67.92	
25	67.99	67.97	68.20	68.21	69.38	69.05	68.45	68.25	68.13	68.06	67.97	67.92	
26	67.98	67.99	68.17	68.20	69.61	68.95	68.45	68.25	68.13	68.05	67.97	67.92	
27	67.97	68.04	68.17	68.19	70.23	68.87	68.44	68.25	68.12	68.05	67.96	67.91	
28	68.00	68.06	68.24	68.18	69.78	68.84	68.42	68.24	68.12	68.04	67.96	67.91	
29	67.95	68.10	68.52	68.17	69.52	68.78	68.40	68.24	68.12	68.04	67.96	67.91	
30	67.94	68.10	69.00	68.16	69.22	68.73	68.40	68.24	68.11	68.04	67.91	67.91	
31		68.09		68.16	69.39		68.39		68.11	68.04		67.91	
Mean	68.06	67.97	68.22	68.40	69.35	69.43	68.59	68.31	68.17	68.08	68.00	67.93	
Max	68.15	68.10	69.00	69.20	70.59	70.57	69.06	68.38	68.23	68.11	68.04	67.96	70.59
Min	67.94	67.93	68.04	68.16	68.33	68.73	68.39	68.24	68.11	68.04	67.96	67.91	67.91
Annual Max Momentary Gage Height	70.94		m. (MSL.) ,				at 12.00 Hours , on Aug 6, 2019						
Zero Gage at Bottom Elevation	68.00		m. (MSL.) ,			River Bed	67.56	m. (MSL.)					
Left Bank Elevation		76.06		m. (MSL.) ,									
Right Bank Elevation		79.88		m. (MSL.) ,		Drainage Are	466	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	0.88	2.00	29.30	5.25	43.60	12.55	5.85	3.75	2.40	1.70	1.02	
2	2.70	0.88	1.90	19.90	13.07	70.95	12.05	5.70	3.75	2.40	1.70	1.02	
3	2.70	0.88	1.70	20.60	11.55	90.00	11.55	5.85	3.75	2.40	1.60	0.95	
4	2.70	0.81	1.70	24.45	17.90	68.25	11.30	6.00	3.60	2.30	1.60	0.95	
5	2.60	0.81	1.70	18.50	49.14	58.35	11.30	5.85	3.60	2.30	1.60	0.95	
6	2.60	0.81	1.80	15.23	91.00	76.06	12.30	5.55	3.60	2.30	1.60	0.95	
7	2.60	0.88	1.80	12.05	49.14	65.10	12.05	5.55	3.45	2.30	1.50	0.95	
8	2.50	0.88	2.30	10.10	53.87	61.95	11.55	6.00	3.45	2.30	1.50	0.95	
9	2.50	0.88	2.60	7.90	45.70	63.75	24.10	5.85	3.45	2.30	1.50	0.88	
10	2.40	0.95	2.30	6.30	31.70	50.86	13.88	5.70	3.30	2.30	1.50	0.88	
11	2.40	0.95	2.70	5.10	70.05	40.24	13.34	5.25	3.30	2.30	1.40	0.88	
12	2.30	0.95	3.00	4.65	78.41	34.10	12.80	4.95	3.20	2.30	1.40	0.88	
13	2.30	0.95	3.90	4.50	51.29	25.88	12.80	4.95	3.20	2.20	1.40	0.88	
14	2.20	1.02	3.20	4.20	34.10	32.90	15.23	4.80	3.10	2.20	1.30	0.88	
15	2.10	1.02	3.10	3.90	27.78	27.40	15.80	4.80	3.10	2.20	1.30	0.81	
16	2.00	1.02	3.00	3.90	20.95	26.26	10.30	4.65	3.10	2.20	1.30	1.02	
17	1.90	1.02	3.90	3.60	18.50	24.80	9.90	4.65	3.00	2.20	1.23	0.81	
18	1.80	1.02	6.50	3.45	22.00	21.30	9.30	4.65	3.00	2.20	1.23	0.81	
19	1.70	0.95	6.50	3.20	18.20	19.90	8.70	4.65	2.90	2.10	1.23	0.81	
20	1.60	0.95	6.30	3.10	17.90	18.50	8.30	4.50	2.90	2.10	1.23	0.74	
21	1.50	0.95	5.55	3.10	23.40	33.70	8.10	4.35	2.80	2.00	1.16	0.74	
22	1.40	0.88	4.65	3.00	23.05	55.20	7.70	4.35	2.80	2.00	1.16	0.74	
23	1.30	0.88	3.75	3.00	22.35	40.66	7.50	4.20	2.70	2.00	1.16	0.74	
24	1.30	0.95	3.30	3.30	24.45	32.50	7.30	4.20	2.70	1.90	1.09	0.74	
25	1.23	1.09	3.30	3.45	36.50	23.75	7.30	4.05	2.60	1.90	1.09	0.74	
26	1.16	1.23	3.00	3.30	46.13	20.25	7.30	4.05	2.60	1.80	1.09	0.74	
27	1.09	1.70	3.00	3.20	73.71	17.60	7.10	4.05	2.50	1.80	1.02	0.67	
28	1.30	1.90	3.90	3.10	53.44	16.70	6.70	3.90	2.50	1.70	1.02	0.67	
29	0.95	2.30	8.70	3.00	42.34	14.96	6.30	3.90	2.50	1.70	1.02	0.67	
30	0.88	2.30	22.00	2.90	30.10	13.61	6.30	3.90	2.40	1.70	1.02	0.67	
31		2.20		2.90	36.90		6.15		2.40	1.70		0.67	
Total	58.51	34.89	123.05	238.18	1139.87	1189.08	326.85	146.70	95.00	65.50	38.63	25.81	3482.07 CMSDAY
Mean	1.95	1.13	4.10	7.68	36.77	39.64	10.54	4.89	3.06	2.11	1.33	0.83	9.51 CMS
Max	2.80	2.30	22.00	29.30	91.00	90.00	24.10	6.00	3.75	2.40	1.70	1.02	91.00 CMS
Min	0.88	0.81	1.70	2.90	5.25	13.61	6.15	3.90	2.40	1.70	1.02	0.67	0.67 CMS
Runoff	5.06	3.01	10.63	20.58	98.48	102.74	28.24	12.67	8.21	5.66	3.34	2.23	300.85 MCM
Momentary Peak	108.50	CMS.	at 70.94 m. (MSL.)	at 12.00 Hours	on Aug 6, 2019								
Runoff Yield	20.47	Liters/Second/Square KM.		Momentary Peak Yield	232.83	Liters/Second/Square KM.							

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

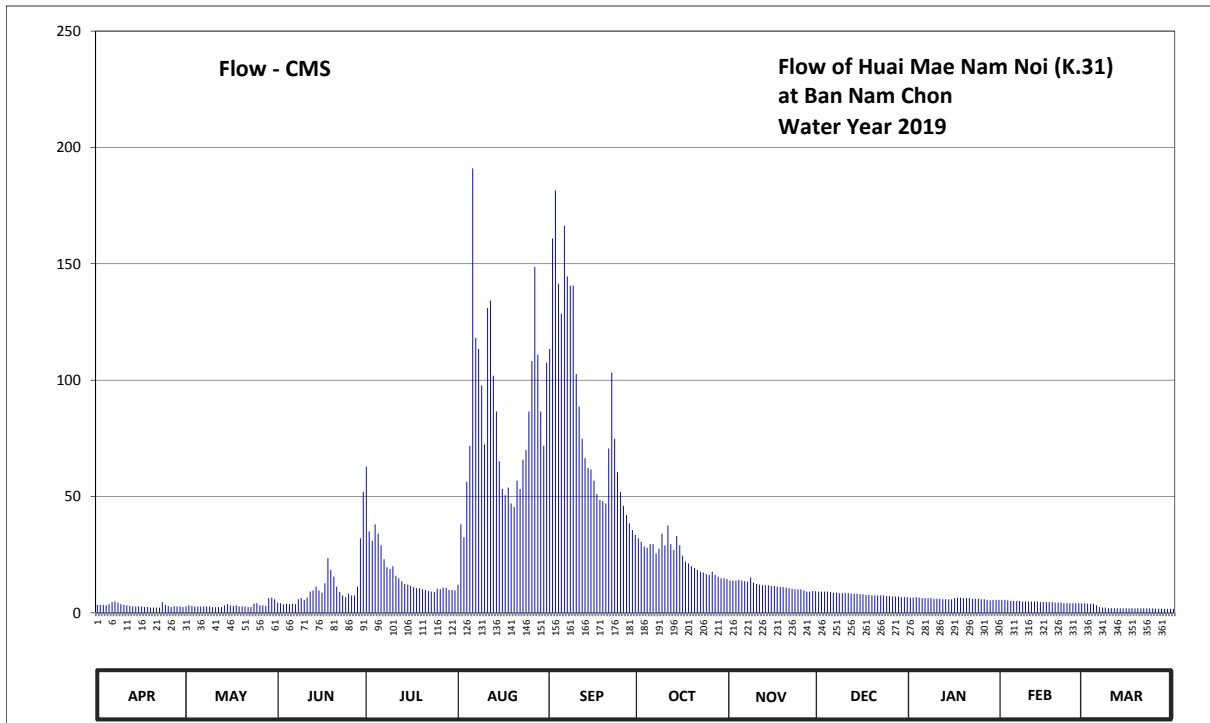
Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

	<b>Ban</b>	<b>Nam Chon</b>	<b>Amphoe</b>	<b>Sai Yok</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	799	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+54.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 5 meters from the top staff gage.				<b>Elevation</b>	+70.630 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1989 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1989 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	57.26	57.23	57.30	58.68	57.62	59.43	58.10	57.68	57.50	57.39	57.35	57.29	
2	57.26	57.25	57.29	58.16	58.22	60.01	58.07	57.68	57.50	57.39	57.35	57.28	
3	57.26	57.24	57.27	58.08	58.11	60.24	58.03	57.68	57.50	57.40	57.34	57.28	
4	57.25	57.23	57.28	58.22	58.57	59.78	58.02	57.69	57.50	57.39	57.33	57.28	
5	57.27	57.23	57.27	58.14	58.83	59.62	58.05	57.68	57.49	57.38	57.33	57.25	
6	57.31	57.23	57.28	58.04	60.34	60.07	58.05	57.67	57.48	57.38	57.33	57.22	
7	57.32	57.23	57.27	57.92	59.49	59.82	57.97	57.66	57.48	57.38	57.33	57.21	
8	57.30	57.23	57.36	57.84	59.43	59.77	58.01	57.72	57.47	57.38	57.32	57.21	
9	57.27	57.23	57.38	57.82	59.21	59.77	58.14	57.65	57.47	57.37	57.32	57.20	
10	57.26	57.22	57.35	57.85	58.84	59.28	58.04	57.63	57.47	57.37	57.32	57.20	
11	57.25	57.22	57.39	57.74	59.65	59.08	58.21	57.62	57.47	57.37	57.32	57.20	
12	57.24	57.22	57.50	57.71	59.69	58.88	58.05	57.61	57.46	57.36	57.32	57.20	
13	57.23	57.22	57.52	57.67	59.27	58.74	58.00	57.61	57.46	57.36	57.32	57.19	
14	57.23	57.25	57.59	57.63	59.05	58.67	58.12	57.61	57.46	57.36	57.31	57.19	
15	57.23	57.27	57.52	57.62	58.72	58.66	58.04	57.60	57.45	57.36	57.31	57.20	
16	57.23	57.25	57.48	57.60	58.52	58.58	57.95	57.60	57.45	57.38	57.31	57.19	
17	57.22	57.24	57.64	57.58	58.47	58.48	57.90	57.59	57.44	57.39	57.31	57.20	
18	57.22	57.25	57.93	57.56	58.53	58.43	57.88	57.58	57.44	57.39	57.31	57.19	
19	57.21	57.23	57.81	57.56	58.40	58.42	57.85	57.58	57.43	57.38	57.30	57.20	
20	57.21	57.23	57.73	57.54	58.37	58.40	57.83	57.57	57.43	57.38	57.30	57.19	
21	57.21	57.23	57.59	57.53	58.58	58.81	57.81	57.56	57.43	57.38	57.30	57.19	
22	57.21	57.22	57.49	57.51	58.52	59.29	57.79	57.55	57.43	57.37	57.29	57.19	
23	57.31	57.22	57.43	57.50	58.73	58.88	57.78	57.54	57.43	57.37	57.29	57.19	
24	57.26	57.28	57.40	57.49	58.80	58.64	57.76	57.54	57.42	57.37	57.29	57.19	
25	57.24	57.29	57.46	57.55	59.05	58.50	57.75	57.54	57.42	57.36	57.29	57.18	
26	57.22	57.25	57.43	57.54	59.36	58.38	57.79	57.52	57.41	57.36	57.29	57.18	
27	57.23	57.25	57.43	57.57	59.87	58.30	57.75	57.50	57.41	57.35	57.29	57.18	
28	57.23	57.24	57.59	57.57	59.40	58.23	57.73	57.50	57.41	57.34	57.29	57.18	
29	57.23	57.38	58.10	57.53	59.05	58.17	57.71	57.51	57.40	57.35	57.29	57.17	
30	57.22	57.39	58.50	57.53	58.83	58.13	57.71	57.51	57.40	57.35	57.29	57.17	
31		57.36		57.52	59.35		57.70		57.40	57.35		57.17	
Mean	57.25	57.25	57.52	57.74	58.93	58.98	57.92	57.60	57.45	57.37	57.31	57.21	
Max	57.32	57.39	58.50	58.68	60.34	60.24	58.21	57.72	57.50	57.40	57.35	57.29	60.34
Min	57.21	57.22	57.27	57.49	57.62	58.13	57.70	57.50	57.40	57.34	57.29	57.17	57.17
Annual Max Momentary Gage Height	61.43		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	54.20		m. (MSL.) ,			River Bed	56.66		m. (MSL.)				
Left Bank Elevation	68.98		m. (MSL.) ,										
Right Bank Elevation	69.23		m. (MSL.) ,			Drainage Are	799		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.43	2.71	4.38	62.80	12.10	113.40	32.00	13.90	9.13	6.51	5.56	4.14	
2	3.43	3.19	4.14	35.00	38.00	160.90	30.50	13.90	9.13	6.51	5.56	3.90	
3	3.43	2.95	3.66	31.00	32.50	181.60	28.50	13.90	9.13	6.75	5.33	3.90	
4	3.19	2.71	3.90	38.00	56.20	141.40	28.00	14.20	9.13	6.51	5.09	3.90	
5	3.66	2.71	3.66	34.00	71.80	128.60	29.50	13.90	8.89	6.28	5.09	3.19	
6	4.61	2.71	3.90	29.00	191.00	166.30	29.50	13.60	8.65	6.28	5.09	2.48	
7	4.85	2.71	3.66	23.00	118.20	144.60	25.50	13.30	8.65	6.28	5.09	2.24	
8	4.38	2.71	5.80	19.60	113.40	140.60	27.50	15.20	8.41	6.28	4.85	2.24	
9	3.66	2.71	6.28	18.80	97.70	140.60	34.00	13.00	8.41	6.04	4.85	2.00	
10	3.43	2.48	5.56	20.00	72.40	102.60	29.00	12.40	8.41	6.04	4.85	2.00	
11	3.19	2.48	6.51	15.90	131.00	88.60	37.50	12.10	8.41	6.04	4.85	2.00	
12	2.95	2.48	9.13	14.85	134.20	74.80	29.50	11.80	8.18	5.80	4.85	2.00	
13	2.71	2.48	9.60	13.60	101.90	66.40	27.00	11.80	8.18	5.80	4.85	1.90	
14	2.71	3.19	11.26	12.40	86.50	62.20	33.00	11.80	8.18	5.80	4.61	1.90	
15	2.71	3.66	9.60	12.10	65.20	61.60	29.00	11.50	7.94	5.80	4.61	2.00	
16	2.71	3.19	8.65	11.50	53.20	56.80	24.50	11.50	7.94	6.28	4.61	1.90	
17	2.48	2.95	12.70	11.03	50.50	51.00	22.00	11.26	7.70	6.51	4.61	2.00	
18	2.48	3.19	23.50	10.55	53.80	48.50	21.20	11.03	7.70	6.51	4.61	1.90	
19	2.24	2.71	18.40	10.55	47.00	48.00	20.00	11.03	7.46	6.28	4.38	2.00	
20	2.24	2.71	15.55	10.08	45.50	47.00	19.20	10.79	7.46	6.28	4.38	1.90	
21	2.24	2.71	11.26	9.84	56.80	70.60	18.40	10.55	7.46	6.28	4.38	1.90	
22	2.24	2.48	8.89	9.36	53.20	103.30	17.65	10.31	7.46	6.04	4.14	1.90	
23	4.61	2.48	7.46	9.13	65.80	74.80	17.30	10.08	7.46	6.04	4.14	1.90	
24	3.43	3.90	6.75	8.89	70.00	60.40	16.60	10.08	7.23	6.04	4.14	1.90	
25	2.95	4.14	8.18	10.31	86.50	52.00	16.25	10.08	7.23	5.80	4.14	1.80	
26	2.48	3.19	7.46	10.08	108.20	46.00	17.65	9.60	6.99	5.80	4.14	1.80	
27	2.71	3.19	7.46	10.79	148.60	42.00	16.25	9.13	6.99	5.56	4.14	1.80	
28	2.71	2.95	11.26	10.79	111.00	38.50	15.55	9.13	6.99	5.33	4.14	1.80	
29	2.71	6.28	32.00	9.84	86.50	35.50	14.85	9.36	6.75	5.56	4.14	1.70	
30	2.48	6.51	52.00	9.84	71.80	33.50	14.85	9.36	6.75	5.56		1.70	
31		5.80		9.60	107.50		14.50		6.75	5.56		1.70	
Total	93.05	100.26	322.56	542.23	2538.00	2582.10	736.75	349.59	245.15	188.15	135.22	69.39	7902.45 CMSDAY
Mean	3.10	3.23	10.75	17.49	81.87	86.07	23.77	11.65	7.91	6.07	4.66	2.24	21.59 CMS
Max	4.85	6.51	52.00	62.80	191.00	181.60	37.50	15.20	9.13	6.75	5.56	4.14	191.00 CMS
Min	2.24	2.48	3.66	8.89	12.10	33.50	14.50	9.13	6.75	5.33	4.14	1.70	1.70 CMS
Runoff	8.04	8.66	27.87	46.85	219.28	223.09	63.66	30.20	21.18	16.26	11.68	6.00	682.77 MCM
Momentary Peak	316.90 CMS. at 61.43 m. (MSL.) at 11.00 Hours , on Aug 6 , 2019												
Runoff Yield	27.10 Liters/Second/Square KM.			Momentary Peak Yield			396.62 Liters/Second/Square KM.						

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Bong Ti</b>	<b>Amphoe</b>	<b>Sai Yok</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	518	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+84.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 6.50 meters from the top staff gage.				<b>Elevation</b>	+90.239 m. (MSL.)
<b>Gage Reading Frequency</b>	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 16 readings					
<b>Period of Available Gage Records</b>	1984 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.63	84.67	84.69	85.67	84.82	85.50	85.61	84.96	84.77	84.67	84.61	84.50	
2	84.63	84.67	84.74	85.46	84.83	85.74	85.53	84.94	84.77	84.67	84.61	84.50	
3	84.63	84.67	84.79	85.52	84.84	86.25	85.47	84.93	84.76	84.67	84.61	84.50	
4	84.63	84.67	84.78	85.72	85.24	86.30	85.44	85.29	84.76	84.67	84.61	84.50	
5	84.63	84.67	84.90	85.74	85.52	86.17	85.56	85.12	84.75	84.66	84.61	84.50	
6	84.63	84.67	84.83	85.80	86.24	86.43	85.96	85.03	84.74	84.66	84.60	84.50	
7	84.63	84.67	84.82	85.69	86.05	86.45	85.66	84.99	84.74	84.66	84.60	84.50	
8	84.63	84.67	84.86	85.56	86.44	86.27	85.54	84.97	84.74	84.66	84.60	84.50	
9	84.63	84.67	85.07	85.39	86.45	86.32	85.56	84.94	84.73	84.65	84.60	84.50	
10	84.63	84.67	84.94	85.26	85.98	86.08	85.60	84.91	84.73	84.65	84.60	84.50	
11	84.63	84.67	84.88	85.15	86.48	85.88	85.59	84.90	84.73	84.65	84.60	84.50	
12	84.63	84.67	84.90	85.08	86.56	85.71	85.50	84.89	84.73	84.65	84.59	84.50	
13	84.63	84.67	84.88	85.05	86.41	85.58	85.88	84.88	84.73	84.64	84.59	84.50	
14	84.63	84.67	84.86	84.97	86.08	85.76	85.71	84.89	84.73	84.64	84.59	84.50	
15	84.63	84.67	84.85	84.94	85.80	86.03	85.66	84.90	84.72	84.64	84.59	84.50	
16	84.63	84.67	84.83	84.92	85.58	86.35	85.52	84.87	84.72	84.64	84.59	84.50	
17	84.63	84.67	84.95	84.90	85.45	86.22	85.45	84.86	84.71	84.64	84.59	84.50	
18	84.63	84.67	84.98	84.91	85.49	86.13	85.39	84.85	84.71	84.64	84.59	84.50	
19	84.63	84.67	84.93	84.91	85.38	86.29	85.33	84.84	84.71	84.64	84.58	84.50	
20	84.63	84.67	84.89	84.88	85.30	86.35	85.28	84.83	84.70	84.64	84.58	84.50	
21	84.63	84.67	84.86	84.88	85.35	86.84	85.25	84.82	84.70	84.64	84.57	84.50	
22	84.63	84.67	84.85	84.86	85.35	87.27	85.20	84.81	84.69	84.63	84.54	84.50	
23	84.63	84.67	84.83	84.85	85.27	87.38	85.15	84.81	84.69	84.63	84.53	84.50	
24	84.63	84.67	84.88	84.84	85.24	87.04	85.12	84.81	84.69	84.62	84.52	84.50	
25	84.63	84.67	85.36	84.83	85.30	86.72	85.08	84.80	84.68	84.62	84.51	84.50	
26	84.63	84.67	85.06	84.83	85.53	86.42	85.20	84.79	84.68	84.62	84.50	84.50	
27	84.63	84.67	84.96	84.83	86.11	86.18	85.11	84.79	84.68	84.61	84.50	84.50	
28	84.63	84.69	84.97	84.82	85.98	85.99	85.06	84.79	84.68	84.61	84.50	84.50	
29	84.63	84.74	85.10	84.82	85.79	85.83	85.02	84.78	84.68	84.61	84.50	84.50	
30	84.63	84.70	85.43	84.81	85.63	85.71	85.00	84.78	84.67	84.61	84.50	84.50	
31		84.68		84.80	85.53		84.98		84.67	84.61		84.50	
Mean	84.63	84.67	84.92	85.12	85.68	86.24	85.40	84.89	84.72	84.64	84.57	84.50	
Max	84.63	84.74	85.43	85.80	86.56	87.38	85.96	85.29	84.77	84.67	84.61	84.50	87.38
Min	84.63	84.67	84.69	84.80	84.82	85.50	84.98	84.78	84.67	84.61	84.50	84.50	84.50
Annual Max Momentary Gage Height	87.76		m. (MSL.) ,				at 03.00 Hours ,						
Zero Gage at Bottom Elevation	84.20		m. (MSL.) ,			River Bed	84.84	m. (MSL.)					
Left Bank Elevation		89.19		m. (MSL.) ,									
Right Bank Elevation		90.13		m. (MSL.) ,		Drainage Are	518	Square Kilometers					





## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwae Yai River at Ban Nong Bua , Kanchanaburi (K.35A)

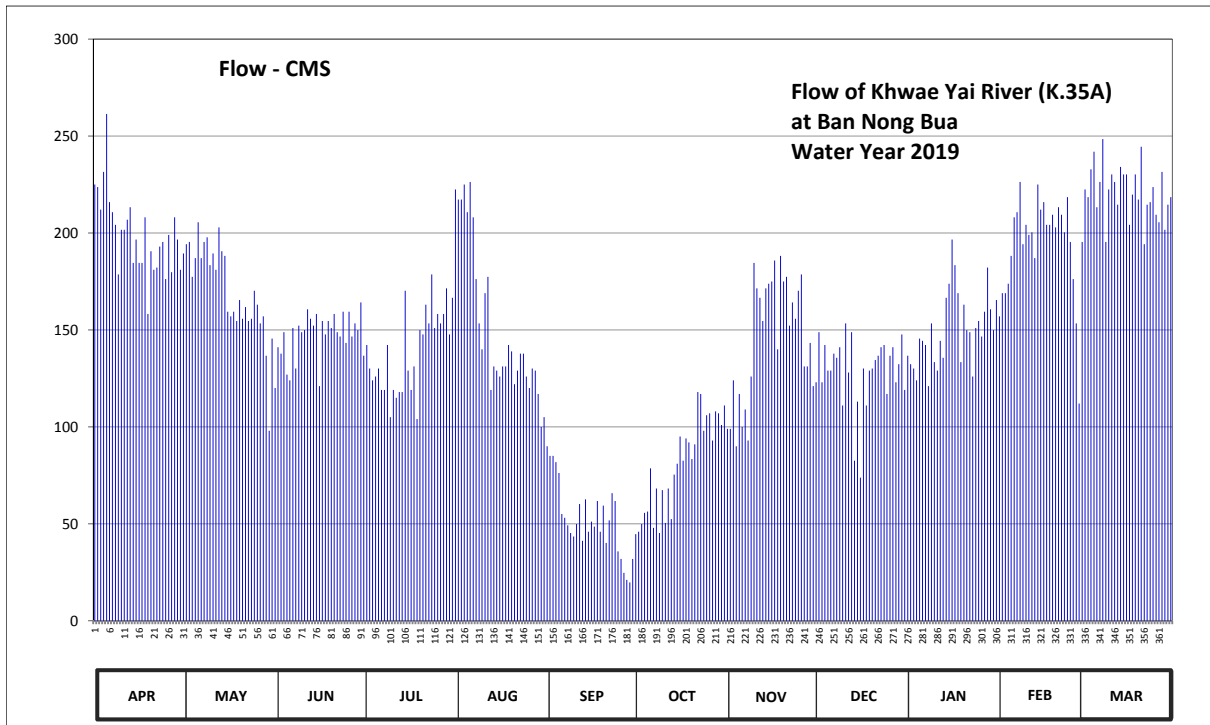
Lat 14 - 03 - 22 N Long 99 - 27 - 32 E

Location : on left bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe Mueang</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	14,444 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+21.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 3 meters from the third staff gage.	<b>Elevation</b>	+26.975 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 - 1985 , 1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1984 - 1985 , 1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 41 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.70	25.42	24.81	24.97	25.68	24.51	23.91	24.60	24.84	24.97	25.15	25.47	
2	25.69	25.46	25.01	25.02	25.64	24.45	23.93	24.60	25.08	24.93	25.25	25.68	
3	25.60	25.47	24.98	24.91	25.64	24.45	23.99	24.85	24.84	24.91	25.25	25.65	
4	25.75	25.32	25.08	24.85	25.70	24.41	24.08	24.51	25.02	24.85	25.29	25.76	
5	25.98	25.40	24.88	24.87	25.59	24.34	24.09	24.78	24.90	25.05	25.41	25.83	
6	25.63	25.55	24.85	24.91	25.71	24.07	24.37	24.61	24.90	25.04	25.57	25.61	
7	25.59	25.40	25.10	24.80	25.57	24.04	23.96	24.70	24.98	25.02	25.59	25.71	
8	25.54	25.47	24.91	24.80	25.31	23.98	24.24	24.54	24.96	24.82	25.71	25.88	
9	25.33	25.49	25.11	25.02	25.12	23.92	23.92	24.87	25.01	25.12	25.46	25.47	
10	25.52	25.37	25.08	24.66	25.00	23.89	24.23	25.38	24.72	24.94	25.54	25.68	
11	25.52	25.42	25.09	24.80	25.25	23.99	24.00	25.27	25.12	24.90	25.50	25.74	
12	25.56	25.35	25.18	24.76	25.32	24.14	24.24	25.23	24.89	25.04	25.51	25.71	
13	25.61	25.53	25.14	24.79	24.80	23.85	24.03	25.13	25.08	24.96	25.40	25.62	
14	25.38	25.43	25.11	24.79	24.92	24.17	24.33	25.27	24.42	25.23	25.70	25.77	
15	25.48	25.41	25.16	25.26	24.90	23.93	24.40	25.29	24.74	25.29	25.60	25.74	
16	25.38	25.17	24.82	24.90	24.87	24.01	24.56	25.30	24.31	25.48	25.63	25.74	
17	25.38	25.15	25.13	24.80	24.92	23.97	24.42	25.39	24.91	25.37	25.54	25.54	
18	25.57	25.17	25.07	24.92	24.92	24.16	24.55	25.00	24.72	25.25	25.54	25.66	
19	25.16	25.13	25.13	24.65	25.02	23.93	24.53	25.41	24.90	24.94	25.58	25.74	
20	25.43	25.22	25.10	25.09	24.99	24.13	24.43	25.30	24.91	25.20	25.53	25.64	
21	25.35	25.14	25.16	25.07	24.83	23.83	24.52	25.32	24.95	25.09	25.61	25.85	
22	25.36	25.19	25.08	25.20	24.90	24.02	24.79	25.11	24.97	25.08	25.58	25.46	
23	25.45	25.13	25.06	25.12	24.98	24.21	24.78	25.21	25.01	24.87	25.51	25.62	
24	25.47	25.14	25.17	25.33	24.98	24.16	24.59	25.14	25.02	25.10	25.65	25.63	
25	25.31	25.26	25.03	25.10	24.87	23.75	24.67	25.26	24.78	25.13	25.47	25.69	
26	25.50	25.20	25.17	25.16	24.81	23.68	24.68	25.33	24.97	25.06	25.31	25.58	
27	25.34	25.12	25.06	25.12	24.91	23.55	24.54	24.92	25.01	25.17	25.12	25.55	
28	25.57	25.15	25.12	25.16	24.90	23.48	24.69	24.92	24.84	25.36	24.73	25.75	
29	25.48	24.97	25.09	25.27	24.78	23.45	24.68	25.03	24.93	25.18	24.78	25.52	
30	25.35	24.59	25.21	25.07	24.61	23.68	24.62	24.82	25.07	25.09	25.62	25.62	
31		25.05		25.23	24.66		24.72		24.80	25.22		25.65	
Mean	25.50	25.27	25.06	24.98	25.10	24.00	24.37	25.04	24.89	25.09	25.43	25.66	
Max	25.98	25.55	25.21	25.33	25.71	24.51	24.79	25.41	25.12	25.48	25.71	25.88	25.98
Min	25.16	24.59	24.81	24.65	24.61	23.45	23.91	24.51	24.31	24.82	24.73	25.46	23.45
Annual Max Momentary Gage Height	26.23		m. (MSL.) ,				at 19.00 Hours ,						on Apr 5 , 2019
Zero Gage at Bottom Elevation	21.50		m. (MSL.) ,				River Bed	22.44		m. (MSL.)			
Left Bank Elevation		31.19		m. (MSL.) ,									
Right Bank Elevation		30.99		m. (MSL.) ,		Drainage Are	14,444		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	225.00	189.40	120.00	136.70	222.40	90.00	44.65	99.00	123.00	136.70	157.00	195.40		
2	223.70	194.20	141.10	142.20	217.20	85.00	45.95	99.00	148.80	132.30	169.00	222.40		
3	212.00	195.40	137.80	130.10	217.20	85.00	49.85	124.00	123.00	130.10	169.00	218.50		
4	231.50	177.40	148.80	124.00	225.00	81.80	55.70	90.00	142.20	124.00	173.80	232.80		
5	261.40	187.00	127.00	126.00	210.70	76.20	56.35	117.00	129.00	145.50	188.20	241.90		
6	215.90	205.50	124.00	130.10	226.30	55.05	78.60	100.00	129.00	144.40	208.10	213.30		
7	210.70	187.00	151.00	119.00	208.10	53.10	47.90	109.00	137.80	142.20	210.70	226.30		
8	204.20	195.40	130.10	119.00	176.20	49.20	68.20	93.00	135.60	121.00	226.30	248.40		
9	178.60	197.80	152.20	142.20	153.40	45.30	45.30	126.00	141.10	153.40	194.20	195.40		
10	201.60	183.40	148.80	105.00	140.00	43.45	67.40	184.60	111.00	133.40	204.20	222.40		
11	201.60	189.40	149.90	119.00	169.00	49.85	50.50	171.40	153.40	129.00	199.00	230.20		
12	206.80	181.00	160.60	115.00	177.40	60.20	68.20	166.60	128.00	144.40	200.30	226.30		
13	213.30	202.90	155.80	118.00	119.00	41.25	52.45	154.60	148.80	135.60	187.00	214.60		
14	184.60	190.60	152.20	118.00	131.20	62.60	75.40	171.40	82.60	166.60	225.00	234.10		
15	196.60	188.20	158.20	170.20	129.00	45.95	81.00	173.80	113.00	173.80	212.00	230.20		
16	184.60	159.40	121.00	129.00	126.00	51.15	95.00	175.00	73.80	196.60	215.90	230.20		
17	184.60	157.00	154.60	119.00	131.20	48.55	82.60	185.80	130.10	183.40	204.20	204.20		
18	208.10	159.40	147.70	131.20	131.20	61.80	94.00	140.00	111.00	169.00	204.20	219.80		
19	158.20	154.60	154.60	104.00	142.20	45.95	92.00	188.20	129.00	133.40	209.40	230.20		
20	190.60	165.40	151.00	149.90	138.90	59.40	83.40	175.00	130.10	163.00	202.90	217.20		
21	181.00	155.80	158.20	147.70	122.00	40.15	91.00	177.40	134.50	149.90	213.30	244.50		
22	182.20	161.80	148.80	163.00	129.00	51.80	118.00	152.20	136.70	148.80	209.40	194.20		
23	193.00	154.60	146.60	153.40	137.80	65.80	117.00	164.20	141.10	126.00	200.30	214.60		
24	195.40	155.80	159.40	178.60	137.80	61.80	98.00	155.80	142.20	151.00	218.50	215.90		
25	176.20	170.20	143.30	151.00	126.00	35.75	106.00	170.20	117.00	154.60	195.40	223.70		
26	199.00	163.00	159.40	158.20	120.00	31.90	107.00	178.60	136.70	146.60	176.20	209.40		
27	179.80	153.40	146.60	153.40	130.10	24.75	93.00	131.20	141.10	159.40	153.40	205.50		
28	208.10	157.00	153.40	158.20	129.00	21.10	108.00	131.20	123.00	182.20	112.00	231.50		
29	196.60	136.70	149.90	171.40	117.00	19.75	107.00	143.30	132.30	160.60	117.00	201.60		
30	181.00	98.00	164.20	147.70	100.00	31.90	101.00	121.00	147.70	149.90		214.60		
31		145.5		166.60	105.00		111.00		119.00	165.40		218.50		
Total	5985.90	5312.20	4416.20	4296.80	4745.30	1575.50	2491.45	4368.50	3991.60	4652.20	5555.90	6827.80	54219.35	CMSDAY
Mean	199.53	171.36	147.21	138.61	153.07	52.52	80.37	145.62	128.76	150.07	191.58	220.25	148.14	CMS
Max	261.40	205.50	164.20	178.60	226.30	90.00	118.00	188.20	153.40	196.60	226.30	248.40	261.40	CMS
Min	158.20	98.00	120.00	104.00	100.00	19.75	44.65	90.00	73.80	121.00	112.00	194.20	19.75	CMS
Runoff	517.18	458.97	381.56	371.24	409.99	136.12	215.26	377.44	344.87	401.95	480.03	589.92	4684.55	MCM
Momentary Peak		295.85	CMS. at 26.23 m. (MSL.)											on Apr 5, 2019
Runoff Yield		10.28	Liters/Second/Square KM.											Momentary Peak Yield 20.48 Liters/Second/Square KM.

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwaeng Noi River at Ban Wang Yen , Kanchanaburi (K.37)

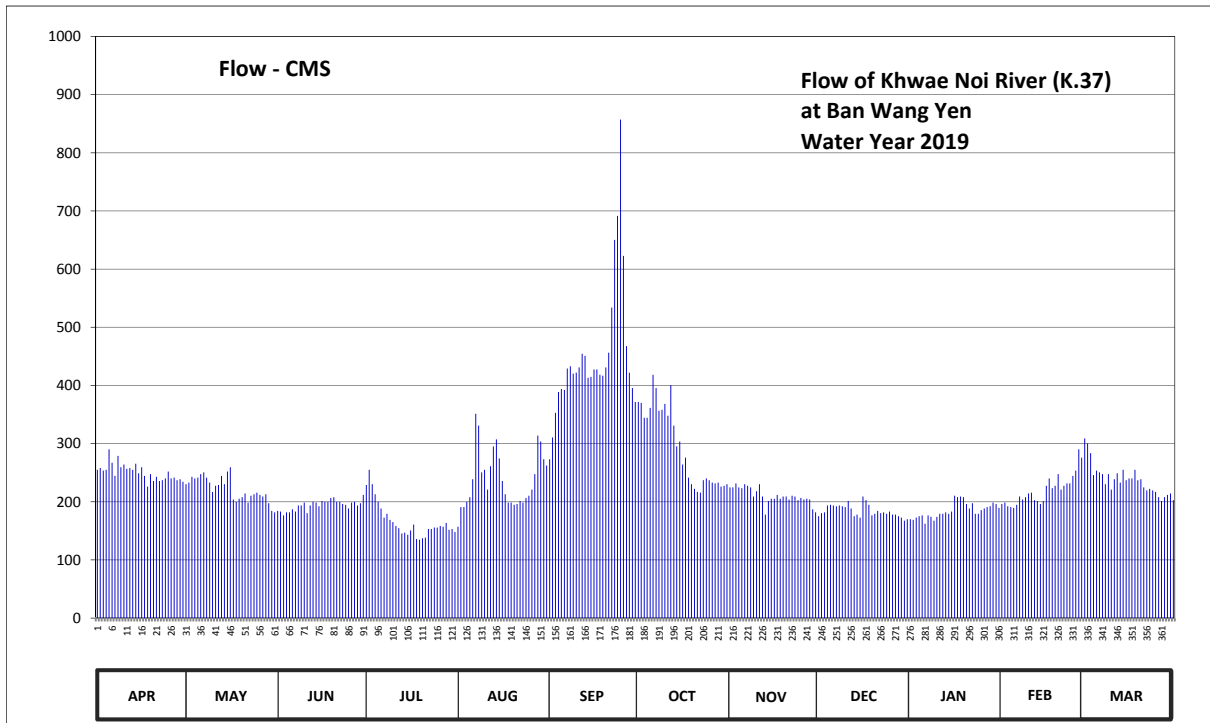
Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

	<b>Ban Wang Yen</b>	<b>Amphoe Mueang</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	10,557 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+19.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the automatic gage building.	<b>Elevation</b>	+29.237 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings.		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 42 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.40	24.23	23.88	24.22	23.67	24.52	25.11	24.19	23.81	23.77	23.97	24.74	
2	24.42	24.25	23.87	24.40	23.93	24.75	25.10	24.19	23.85	23.76	23.99	24.69	
3	24.39	24.32	23.82	24.23	23.93	25.00	24.95	24.24	23.86	23.79	23.94	24.59	
4	24.40	24.30	23.86	24.10	24.00	25.21	24.95	24.19	23.95	23.81	23.93	24.34	
5	24.63	24.31	23.86	24.00	24.06	25.24	25.05	24.18	23.96	23.82	23.92	24.39	
6	24.48	24.35	23.90	23.91	24.29	25.23	25.38	24.23	23.95	23.71	23.96	24.37	
7	24.33	24.37	23.87	23.79	24.99	25.44	25.25	24.21	23.94	23.82	24.07	24.35	
8	24.56	24.31	23.95	23.84	24.87	25.46	25.02	24.19	23.95	23.80	24.03	24.23	
9	24.43	24.25	23.95	23.76	24.37	25.39	25.03	24.07	23.94	23.75	24.06	24.35	
10	24.46	24.13	23.99	23.73	24.40	25.40	25.09	24.14	23.93	23.80	24.11	24.16	
11	24.41	24.21	23.85	23.68	24.16	25.45	24.97	24.23	24.01	23.84	24.12	24.29	
12	24.42	24.22	23.95	23.65	24.44	25.58	25.28	24.07	23.91	23.84	24.02	24.36	
13	24.40	24.33	24.00	23.58	24.66	25.56	24.87	23.83	23.81	23.86	24.01	24.25	
14	24.47	24.23	23.99	23.59	24.73	25.35	24.66	24.01	23.83	23.84	23.97	24.40	
15	24.36	24.38	23.94	23.56	24.53	25.36	24.71	24.04	23.79	23.87	24.01	24.28	
16	24.43	24.43	24.01	23.62	24.27	25.43	24.46	24.04	24.07	24.08	24.21	24.30	
17	24.33	24.03	24.00	23.70	24.10	25.43	24.54	24.09	24.02	24.06	24.30	24.30	
18	24.20	24.00	24.00	23.50	23.99	25.38	24.31	24.04	23.96	24.07	24.18	24.40	
19	24.35	24.04	24.05	23.49	23.99	25.37	24.23	24.07	23.82	24.06	24.21	24.28	
20	24.27	24.06	24.06	23.51	23.96	25.45	24.17	24.07	23.84	23.97	24.35	24.29	
21	24.32	24.11	24.00	23.52	23.97	25.59	24.13	24.03	23.88	23.91	24.16	24.19	
22	24.27	23.99	24.00	23.64	24.01	26.00	24.12	24.08	23.85	23.98	24.21	24.15	
23	24.28	24.08	23.97	23.64	23.99	26.54	24.28	24.07	23.86	23.84	24.24	24.17	
24	24.30	24.10	23.96	23.66	24.05	26.72	24.30	24.02	23.84	23.84	24.24	24.15	
25	24.38	24.12	23.91	23.66	24.08	27.44	24.28	24.05	23.87	23.89	24.33	24.13	
26	24.30	24.09	23.99	23.68	24.16	26.42	24.25	24.03	23.83	23.91	24.39	24.06	
27	24.31	24.07	24.00	23.67	24.35	25.65	24.24	24.04	23.83	23.93	24.63	24.01	
28	24.28	24.10	23.95	23.72	24.77	25.40	24.25	24.03	23.81	23.94	24.54	24.06	
29	24.29	23.98	23.98	23.63	24.71	25.25	24.20	23.90	23.79	23.99	24.58	24.09	
30	24.26	23.88	24.09	23.64	24.52	25.11	24.21	23.86	23.75	23.97	24.11	24.11	
31		23.86		23.60	24.45		24.23		23.77	23.92		24.02	
Mean	24.37	24.17	23.96	23.74	24.27	25.54	24.63	24.08	23.88	23.89	24.16	24.27	
Max	24.63	24.43	24.09	24.40	24.99	27.44	25.38	24.24	24.07	24.08	24.63	24.74	27.44
Min	24.20	23.86	23.82	23.49	23.67	24.52	24.12	23.83	23.75	23.71	23.92	24.01	23.49
Annual Max Momentary Gage Height	27.72		m. (MSL.) ,			at 11.00 Hours ,	on Sep 25 , 2019						
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed	19.01	m. (MSL.)					
Left Bank Elevation		32.37		m. (MSL.) ,									
Right Bank Elevation		32.24		m. (MSL.) ,		Drainage Are	10,557	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	255.00	230.20	184.40	228.80	157.10	273.00	371.70	224.70	175.30	170.10	196.10	308.80		
2	258.00	233.00	183.10	255.00	190.90	310.50	370.00	224.70	180.50	168.80	198.70	300.30		
3	253.50	243.00	176.60	230.20	190.90	353.00	344.50	231.60	181.80	172.70	192.20	283.50		
4	255.00	240.00	181.80	213.00	200.00	388.70	344.50	224.70	193.50	175.30	190.90	246.00		
5	290.10	241.50	181.80	200.00	207.80	393.80	361.50	223.40	194.80	176.60	189.60	253.50		
6	267.00	247.50	187.00	188.30	238.60	392.10	418.40	230.20	193.50	162.30	194.80	250.50		
7	244.50	250.50	183.10	172.70	351.30	429.20	395.50	227.40	192.20	176.60	209.10	247.50		
8	279.00	241.50	193.50	179.20	330.90	432.80	356.40	224.70	193.50	174.00	203.90	230.20		
9	259.50	233.00	193.50	168.80	250.50	420.20	358.10	209.10	192.20	167.50	207.80	247.50		
10	264.00	216.90	198.70	164.90	255.00	422.00	368.30	218.20	190.90	174.00	214.30	220.80		
11	256.50	227.40	180.50	158.40	220.80	431.00	347.90	230.20	201.30	179.20	215.60	238.60		
12	258.00	228.80	193.50	154.50	261.00	454.40	400.60	209.10	188.30	179.20	202.60	249.00		
13	255.00	244.50	200.00	145.60	295.20	450.80	330.90	177.90	175.30	181.80	201.30	233.00		
14	265.50	230.20	198.70	146.80	307.10	413.00	295.20	201.30	177.90	179.20	196.10	255.00		
15	249.00	252.00	192.20	143.20	274.50	414.80	303.70	205.20	172.70	183.10	201.30	237.20		
16	259.50	259.50	201.30	150.60	235.80	427.40	264.00	205.20	209.10	210.40	227.40	240.00		
17	244.50	203.90	200.00	161.00	213.00	427.40	276.00	211.70	202.60	207.80	240.00	240.00		
18	226.00	200.00	200.00	136.00	198.70	418.40	241.50	205.20	194.80	209.10	223.40	255.00		
19	247.50	205.20	206.50	134.80	198.70	416.60	230.20	209.10	176.60	207.80	227.40	237.20		
20	235.80	207.80	207.80	137.20	194.80	431.00	222.10	209.10	179.20	196.10	247.50	238.60		
21	243.00	214.30	200.00	138.40	196.10	456.20	216.90	203.90	184.40	188.30	220.80	224.70		
22	235.80	198.70	200.00	153.20	201.30	534.00	215.60	210.40	180.50	197.40	227.40	219.50		
23	237.20	210.40	196.10	153.20	198.70	650.20	237.20	209.10	181.80	179.20	231.60	222.10		
24	240.00	213.00	194.80	155.80	206.50	691.60	240.00	202.60	179.20	179.20	231.60	219.50		
25	252.00	215.60	188.30	155.80	210.40	857.20	237.20	206.50	183.10	185.70	244.50	216.90		
26	240.00	211.70	198.70	158.40	220.80	622.60	233.00	203.90	177.90	188.30	253.50	207.80		
27	241.50	209.10	200.00	157.10	247.50	467.50	231.60	205.20	177.90	190.90	290.10	201.30		
28	237.20	213.00	193.50	163.60	313.90	422.00	233.00	203.90	175.30	192.20	276.00	207.80		
29	238.60	197.40	197.40	151.90	303.70	395.50	226.00	187.00	172.70	198.70	282.00	211.70		
30	234.40	184.40	211.70	153.20	273.00	371.70	227.40	181.80	167.50	196.10		214.30		
31		181.80		148.00	262.50		230.20		170.10	189.60		202.60		
Total	7522.60	6885.80	5824.50	5157.60	7407.00	13568.60	9129.10	6317.00	5716.40	5737.20	6437.50	7360.40	87063.70	CMSDAY
Mean	250.75	222.12	194.15	166.37	238.94	452.29	294.49	210.57	184.40	185.07	221.98	237.43	237.88	CMS
Max	290.10	259.50	211.70	255.00	351.30	857.20	418.40	231.60	209.10	210.40	290.10	308.80	857.20	CMS
Min	226.00	181.80	176.60	134.80	157.10	273.00	215.60	177.90	167.50	162.30	189.60	201.30	134.80	CMS
Runoff	649.95	594.93	503.24	445.62	639.96	1172.33	788.75	545.79	493.90	495.69	556.20	635.94	7522.30	MCM
Momentary Peak	925.00 CMS. at 27.72 m. (MSL.) at 11.00 Hours , on Sep 25 , 2019													
Runoff Yield	22.59 Liters/Second/Square KM.		Momentary Peak Yield		87.62 Liters/Second/Square KM.									

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)

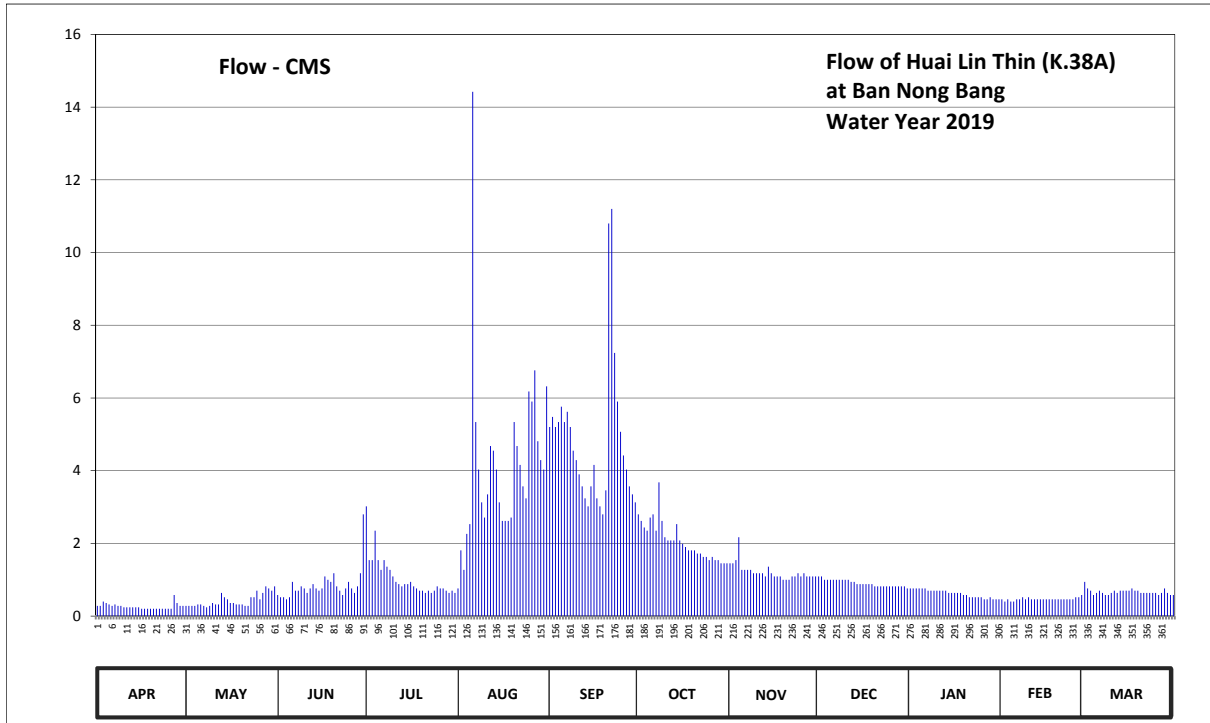
Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	<b>Ban Nong Bang</b>	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	122 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+90.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b> +95.432 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.57	90.57	90.63	90.92	90.66	91.10	90.90	90.75	90.71	90.66	90.61	90.69	
2	90.57	90.57	90.62	90.76	90.79	91.12	90.88	90.75	90.71	90.66	90.60	90.66	
3	90.60	90.57	90.62	90.76	90.73	91.10	90.86	90.76	90.70	90.66	90.61	90.65	
4	90.59	90.57	90.61	90.85	90.84	91.11	90.85	90.83	90.70	90.66	90.60	90.63	
5	90.58	90.58	90.62	90.76	90.87	91.14	90.89	90.73	90.70	90.66	90.60	90.64	
6	90.57	90.58	90.69	90.73	91.62	91.11	90.90	90.73	90.70	90.66	90.61	90.65	
7	90.58	90.57	90.65	90.76	91.11	91.13	90.85	90.73	90.70	90.65	90.61	90.64	
8	90.57	90.56	90.65	90.74	91.01	91.10	90.98	90.73	90.70	90.65	90.62	90.63	
9	90.57	90.57	90.67	90.73	90.93	91.05	90.88	90.72	90.70	90.65	90.61	90.63	
10	90.56	90.59	90.66	90.71	90.89	91.03	90.83	90.72	90.70	90.65	90.62	90.64	
11	90.56	90.58	90.64	90.69	90.95	91.00	90.82	90.72	90.70	90.65	90.61	90.65	
12	90.56	90.58	90.66	90.68	91.06	90.97	90.82	90.72	90.69	90.65	90.61	90.64	
13	90.56	90.64	90.68	90.67	91.05	90.94	90.82	90.71	90.69	90.65	90.61	90.65	
14	90.56	90.62	90.66	90.68	91.01	90.92	90.87	90.74	90.68	90.64	90.61	90.65	
15	90.56	90.61	90.65	90.68	90.93	90.97	90.82	90.72	90.68	90.64	90.61	90.65	
16	90.55	90.59	90.66	90.69	90.88	91.02	90.81	90.71	90.68	90.64	90.61	90.65	
17	90.55	90.59	90.71	90.67	90.88	90.94	90.80	90.71	90.68	90.64	90.61	90.66	
18	90.55	90.58	90.70	90.66	90.88	90.92	90.79	90.71	90.68	90.64	90.61	90.65	
19	90.55	90.58	90.69	90.65	90.89	90.90	90.79	90.70	90.68	90.63	90.61	90.65	
20	90.55	90.58	90.72	90.65	91.11	90.96	90.79	90.70	90.67	90.63	90.61	90.64	
21	90.55	90.57	90.67	90.64	91.06	91.44	90.78	90.70	90.67	90.62	90.61	90.64	
22	90.55	90.57	90.65	90.65	91.02	91.46	90.78	90.71	90.67	90.62	90.61	90.64	
23	90.55	90.62	90.63	90.64	90.97	91.24	90.77	90.71	90.67	90.62	90.61	90.64	
24	90.55	90.62	90.66	90.65	90.94	91.15	90.77	90.72	90.67	90.62	90.61	90.64	
25	90.55	90.65	90.69	90.67	91.17	91.09	90.76	90.71	90.67	90.62	90.61	90.64	
26	90.55	90.61	90.66	90.66	91.15	91.04	90.77	90.72	90.67	90.61	90.62	90.63	
27	90.63	90.64	90.64	90.66	91.21	91.01	90.76	90.71	90.67	90.61	90.62	90.64	
28	90.59	90.67	90.67	90.65	91.07	90.97	90.76	90.71	90.67	90.62	90.63	90.66	
29	90.57	90.66	90.72	90.64	91.03	90.95	90.75	90.71	90.67	90.61	90.62	90.64	
30	90.57	90.65	90.90	90.65	91.01	90.93	90.75	90.71	90.67	90.61	90.61	90.63	
31		90.67		90.64	91.18		90.75		90.66	90.61		90.63	
Mean	90.57	90.60	90.67	90.70	91.00	91.06	90.82	90.72	90.68	90.64	90.61	90.64	
Max	90.63	90.67	90.90	90.92	91.62	91.46	90.98	90.83	90.71	90.66	90.63	90.69	91.62
Min	90.55	90.56	90.61	90.64	90.66	90.90	90.75	90.70	90.66	90.61	90.60	90.63	90.55
Annual Max Momentary Gage Height	92.10		m. (MSL.) ,			at 06.00 Hours ,	on Aug 6 , 2019						
Zero Gage at Bottom Elevation	90.00		m. (MSL.) ,			River Bed	90.33	m. (MSL.)					
Left Bank Elevation		95.43	m. (MSL.) ,										
Right Bank Elevation		95.43	m. (MSL.) ,			Drainage Are	122	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.28	0.58	3.02	0.76	5.20	2.80	1.45	1.09	0.76	0.46	0.94	
2	0.28	0.28	0.52	1.54	1.81	5.48	2.62	1.45	1.09	0.76	0.40	0.76	
3	0.40	0.28	0.52	1.54	1.27	5.20	2.44	1.54	1.00	0.76	0.46	0.70	
4	0.36	0.28	0.46	2.35	2.26	5.34	2.35	2.17	1.00	0.76	0.40	0.58	
5	0.32	0.32	0.52	1.54	2.53	5.76	2.71	1.27	1.00	0.76	0.40	0.64	
6	0.28	0.32	0.94	1.27	14.42	5.34	2.80	1.27	1.00	0.76	0.46	0.70	
7	0.32	0.28	0.70	1.54	5.34	5.62	2.35	1.27	1.00	0.70	0.46	0.64	
8	0.28	0.24	0.70	1.36	4.03	5.20	3.68	1.27	1.00	0.70	0.52	0.58	
9	0.28	0.28	0.82	1.27	3.13	4.55	2.62	1.18	1.00	0.70	0.46	0.58	
10	0.24	0.36	0.76	1.09	2.71	4.29	2.17	1.18	1.00	0.70	0.52	0.64	
11	0.24	0.32	0.64	0.94	3.35	3.90	2.08	1.18	1.00	0.70	0.46	0.70	
12	0.24	0.32	0.76	0.88	4.68	3.57	2.08	1.18	0.94	0.70	0.46	0.64	
13	0.24	0.64	0.88	0.82	4.55	3.24	2.08	1.09	0.94	0.70	0.46	0.70	
14	0.24	0.52	0.76	0.88	4.03	3.02	2.53	1.36	0.88	0.64	0.46	0.70	
15	0.24	0.46	0.70	0.88	3.13	3.57	2.08	1.18	0.88	0.64	0.46	0.70	
16	0.20	0.36	0.76	0.94	2.62	4.16	1.99	1.09	0.88	0.64	0.46	0.70	
17	0.20	0.36	1.09	0.82	2.62	3.24	1.90	1.09	0.88	0.64	0.46	0.76	
18	0.20	0.32	1.00	0.76	2.62	3.02	1.81	1.09	0.88	0.64	0.46	0.70	
19	0.20	0.32	0.94	0.70	2.71	2.80	1.81	1.00	0.88	0.58	0.46	0.70	
20	0.20	0.32	1.18	0.70	5.34	3.46	1.81	1.00	0.82	0.58	0.46	0.64	
21	0.20	0.28	0.82	0.64	4.68	10.80	1.72	1.00	0.82	0.52	0.46	0.64	
22	0.20	0.28	0.70	0.70	4.16	11.20	1.72	1.09	0.82	0.52	0.46	0.64	
23	0.20	0.52	0.58	0.64	3.57	7.24	1.63	1.09	0.82	0.52	0.46	0.64	
24	0.20	0.52	0.76	0.70	3.24	5.90	1.63	1.18	0.82	0.52	0.46	0.64	
25	0.20	0.70	0.94	0.82	6.18	5.07	1.54	1.09	0.82	0.52	0.46	0.64	
26	0.20	0.46	0.76	0.76	5.90	4.42	1.63	1.18	0.82	0.46	0.52	0.58	
27	0.58	0.64	0.64	0.76	6.76	4.03	1.54	1.09	0.82	0.46	0.52	0.64	
28	0.36	0.82	0.82	0.70	4.81	3.57	1.54	1.09	0.82	0.52	0.58	0.76	
29	0.28	0.76	1.18	0.64	4.29	3.35	1.45	1.09	0.82	0.46	0.52	0.64	
30	0.28	0.70	2.80	0.70	4.03	3.13	1.45	1.09	0.82	0.46		0.58	
31		0.82		0.64	6.32		1.45		0.76	0.46		0.58	
<b>Total</b>	7.94	13.36	25.23	32.54	127.85	144.67	64.01	36.30	28.12	19.24	13.58	20.68	533.52 CMSDAY
<b>Mean</b>	0.26	0.43	0.84	1.05	4.12	4.82	2.06	1.21	0.91	0.62	0.47	0.67	1.46 CMS
<b>Max</b>	0.58	0.82	2.80	3.02	14.42	11.20	3.68	2.17	1.09	0.76	0.58	0.94	14.42 CMS
<b>Min</b>	0.20	0.24	0.46	0.64	0.76	2.80	1.45	1.00	0.76	0.46	0.40	0.58	0.20 CMS
<b>Runoff</b>	0.69	1.15	2.18	2.81	11.05	12.50	5.53	3.14	2.43	1.66	1.17	1.79	46.10 MCM
<b>Momentary Peak</b>	25.20 CMS. at 92.10 m. (MSL.) at 06.00 Hours , on Aug 6 , 2019												
<b>Runoff Yield</b>	11.98 Liters/Second/Square KM.			Momentary Peak Yield				206.56 Liters/Second/Square KM.					

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)

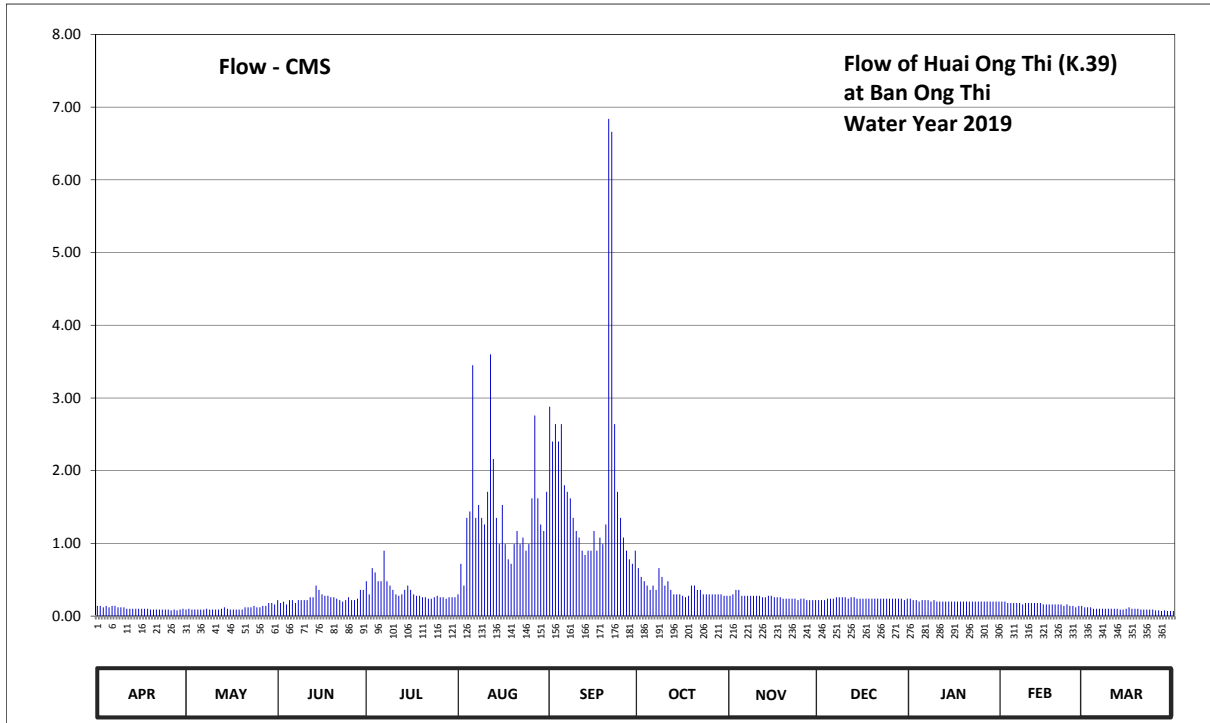
Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban Ong Thi	Amphoe Thong Pha Phum	Changwat Kanchanaburi
<b>Drainage Area</b>	51 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+81.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 16 meters from the third staff gage.	<b>Elevation</b>	+90.228 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1985 - 1990 , 1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1985 - 1990 , 1996 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.92	81.89	81.96	82.03	82.00	82.29	82.06	81.99	81.96	81.97	81.95	81.91	
2	81.92	81.90	81.94	82.00	82.07	82.25	82.04	82.00	81.96	81.96	81.95	81.91	
3	81.91	81.89	81.95	82.06	82.02	82.27	82.03	82.01	81.96	81.96	81.94	81.91	
4	81.92	81.89	81.93	82.05	82.15	82.25	82.02	82.01	81.97	81.95	81.94	81.90	
5	81.91	81.89	81.96	82.03	82.16	82.27	82.01	81.99	81.97	81.96	81.94	81.90	
6	81.92	81.89	81.96	82.03	82.33	82.20	82.02	81.99	81.97	81.96	81.94	81.90	
7	81.92	81.89	81.94	82.10	82.15	82.19	82.01	81.99	81.98	81.96	81.94	81.90	
8	81.91	81.90	81.96	82.03	82.17	82.18	82.06	81.99	81.98	81.95	81.93	81.90	
9	81.91	81.89	81.96	82.02	82.15	82.15	82.04	81.99	81.98	81.96	81.94	81.90	
10	81.91	81.89	81.96	82.01	82.14	82.13	82.02	81.99	81.98	81.95	81.94	81.90	
11	81.90	81.89	81.96	82.00	82.19	82.12	82.03	81.99	81.97	81.95	81.94	81.90	
12	81.90	81.89	81.98	81.99	82.34	82.10	82.01	81.98	81.98	81.95	81.94	81.90	
13	81.90	81.90	81.98	82.00	82.23	82.09	82.00	81.98	81.98	81.95	81.94	81.89	
14	81.90	81.91	82.02	82.01	82.15	82.10	82.00	81.99	81.97	81.95	81.94	81.89	
15	81.90	81.90	82.01	82.02	82.11	82.10	82.00	81.99	81.97	81.95	81.93	81.90	
16	81.90	81.89	82.00	82.01	82.17	82.13	81.99	81.98	81.97	81.95	81.93	81.91	
17	81.90	81.89	81.99	82.00	82.11	82.10	81.98	81.98	81.97	81.95	81.93	81.90	
18	81.90	81.89	81.99	81.99	82.08	82.12	81.99	81.98	81.97	81.95	81.93	81.90	
19	81.89	81.89	81.98	81.99	82.07	82.11	82.02	81.97	81.97	81.95	81.93	81.90	
20	81.89	81.89	81.98	81.98	82.11	82.14	82.02	81.97	81.97	81.95	81.93	81.89	
21	81.89	81.91	81.97	81.98	82.13	82.53	82.01	81.97	81.97	81.95	81.93	81.89	
22	81.89	81.91	81.96	81.97	82.11	82.52	82.01	81.97	81.97	81.95	81.92	81.89	
23	81.89	81.91	81.95	81.97	82.12	82.27	82.00	81.97	81.97	81.95	81.93	81.89	
24	81.89	81.92	81.96	81.98	82.10	82.19	82.00	81.96	81.97	81.95	81.92	81.89	
25	81.89	81.91	81.98	81.99	82.11	82.15	82.00	81.97	81.97	81.95	81.92	81.88	
26	81.88	81.91	81.96	81.98	82.18	82.12	82.00	81.97	81.97	81.95	81.91	81.88	
27	81.89	81.92	81.96	81.98	82.28	82.10	82.00	81.96	81.97	81.95	81.92	81.87	
28	81.88	81.92	81.97	81.97	82.18	82.08	82.00	81.96	81.97	81.95	81.92	81.88	
29	81.89	81.94	82.01	81.98	82.14	82.07	82.00	81.96	81.97	81.95	81.91	81.87	
30	81.90	81.94	82.01	81.98	82.13	82.10	81.99	81.96	81.96	81.95	81.95	81.87	
31		81.93		81.98	82.19		81.99		81.97	81.95		81.87	
Mean	81.90	81.90	81.97	82.00	82.15	82.18	82.01	81.98	81.97	81.95	81.93	81.89	
Max	81.92	81.94	82.02	82.10	82.34	82.53	82.06	82.01	81.98	81.97	81.95	81.91	82.53
Min	81.88	81.89	81.93	81.97	82.00	82.07	81.98	81.96	81.96	81.95	81.91	81.87	81.87
Annual Max Momentary Gage Height	82.85		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	81.80		m. (MSL.) ,			River Bed	81.63	m. (MSL.)					
Left Bank Elevation		90.25	m. (MSL.) ,										
Right Bank Elevation		90.21	m. (MSL.) ,			Drainage Are	51	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.09	0.22	0.48	0.30	2.88	0.66	0.28	0.22	0.24	0.20	0.12	
2	0.14	0.10	0.18	0.30	0.72	2.40	0.54	0.30	0.22	0.22	0.20	0.12	
3	0.12	0.09	0.20	0.66	0.42	2.64	0.48	0.36	0.22	0.22	0.18	0.12	
4	0.14	0.09	0.16	0.60	1.35	2.40	0.42	0.36	0.24	0.20	0.18	0.10	
5	0.12	0.09	0.22	0.48	1.44	2.64	0.36	0.28	0.24	0.22	0.18	0.10	
6	0.14	0.09	0.22	0.48	3.45	1.80	0.42	0.28	0.24	0.22	0.18	0.10	
7	0.14	0.09	0.18	0.90	1.35	1.71	0.36	0.28	0.26	0.22	0.18	0.10	
8	0.12	0.10	0.22	0.48	1.53	1.62	0.66	0.28	0.26	0.20	0.16	0.10	
9	0.12	0.09	0.22	0.42	1.35	1.35	0.54	0.28	0.26	0.22	0.18	0.10	
10	0.12	0.09	0.22	0.36	1.26	1.17	0.42	0.28	0.26	0.20	0.18	0.10	
11	0.10	0.09	0.22	0.30	1.71	1.08	0.48	0.28	0.24	0.20	0.18	0.10	
12	0.10	0.09	0.26	0.28	3.60	0.90	0.36	0.26	0.26	0.20	0.18	0.10	
13	0.10	0.10	0.26	0.30	2.16	0.84	0.30	0.26	0.26	0.20	0.18	0.09	
14	0.10	0.12	0.42	0.36	1.35	0.90	0.30	0.28	0.24	0.20	0.18	0.09	
15	0.10	0.10	0.36	0.42	0.99	0.90	0.30	0.28	0.24	0.20	0.16	0.10	
16	0.10	0.09	0.30	0.36	1.53	1.17	0.28	0.26	0.24	0.20	0.16	0.12	
17	0.10	0.09	0.28	0.30	0.99	0.90	0.26	0.26	0.24	0.20	0.16	0.10	
18	0.10	0.09	0.28	0.28	0.78	1.08	0.28	0.26	0.24	0.20	0.16	0.10	
19	0.09	0.09	0.26	0.28	0.72	0.99	0.42	0.24	0.24	0.20	0.16	0.10	
20	0.09	0.09	0.26	0.26	0.99	1.26	0.42	0.24	0.24	0.20	0.16	0.09	
21	0.09	0.12	0.24	0.26	1.17	6.84	0.36	0.24	0.24	0.20	0.16	0.09	
22	0.09	0.12	0.22	0.24	0.99	6.66	0.36	0.24	0.24	0.20	0.14	0.09	
23	0.09	0.12	0.20	0.24	1.08	2.64	0.30	0.24	0.24	0.20	0.16	0.09	
24	0.09	0.14	0.22	0.26	0.90	1.71	0.30	0.22	0.24	0.20	0.14	0.09	
25	0.09	0.12	0.26	0.28	0.99	1.35	0.30	0.24	0.24	0.20	0.14	0.08	
26	0.08	0.12	0.22	0.26	1.62	1.08	0.30	0.24	0.24	0.20	0.12	0.08	
27	0.09	0.14	0.22	0.26	2.76	0.90	0.30	0.22	0.24	0.20	0.14	0.07	
28	0.08	0.14	0.24	0.24	1.62	0.78	0.30	0.22	0.24	0.20	0.14	0.08	
29	0.09	0.18	0.36	0.26	1.26	0.72	0.30	0.22	0.24	0.20	0.12	0.07	
30	0.10	0.18	0.36	0.26	1.17	0.90	0.28	0.22	0.22	0.20		0.07	
31		0.16		0.26	1.71		0.28		0.24	0.20		0.07	
<b>Total</b>	3.17	3.41	7.48	11.12	43.26	54.21	11.64	7.90	7.48	6.36	4.76	2.93	163.72 CMSDAY
<b>Mean</b>	0.11	0.11	0.25	0.36	1.40	1.81	0.38	0.26	0.24	0.21	0.16	0.09	0.45 CMS
<b>Max</b>	0.14	0.18	0.42	0.90	3.60	6.84	0.66	0.36	0.26	0.24	0.20	0.12	6.84 CMS
<b>Min</b>	0.08	0.09	0.16	0.24	0.30	0.72	0.26	0.22	0.22	0.20	0.12	0.07	0.07 CMS
<b>Runoff</b>	0.27	0.29	0.65	0.96	3.74	4.68	1.01	0.68	0.65	0.55	0.41	0.25	14.15 MCM
<b>Momentary Peak</b>	13.05	CMS. at 82.85 m. (MSL.) at 15.00 Hours , on Sep 21 , 2019											
<b>Runoff Yield</b>	8.80	Liters/Second/Square KM. Momentary Peak Yield 255.88 Liters/Second/Square KM.											



## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

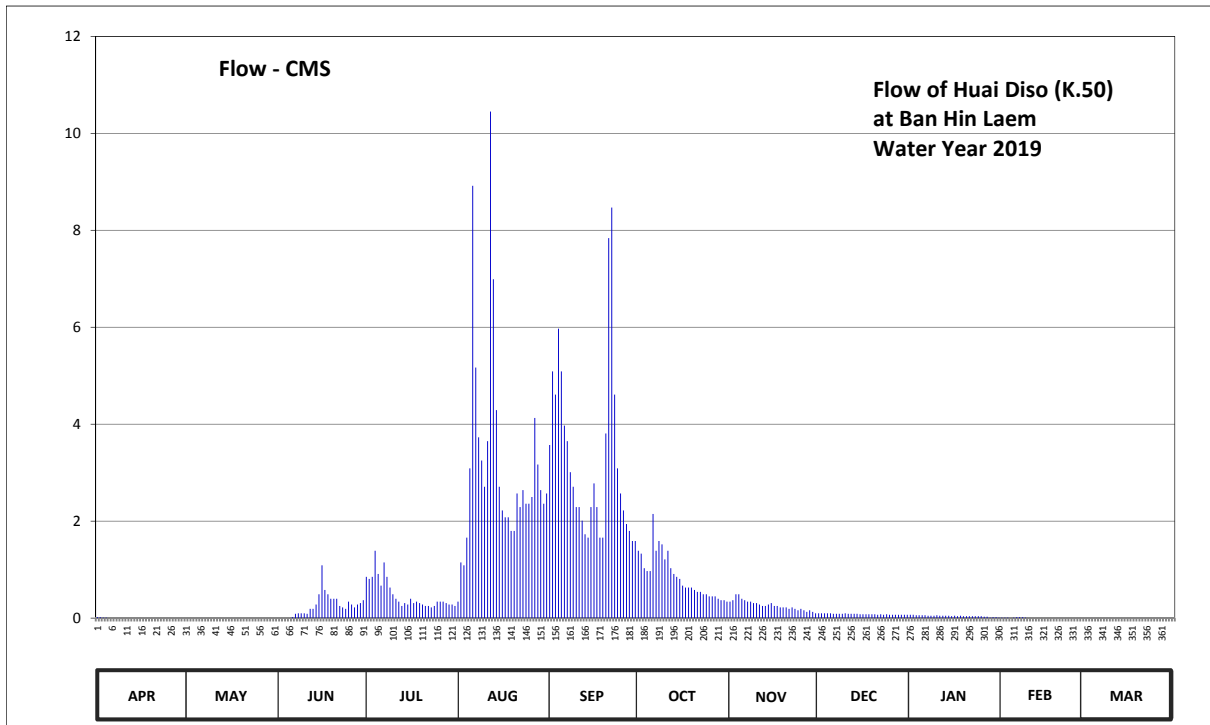
Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	<b>Ban</b>	Hin Laem	<b>Amphoe</b>	Thong Pha Phum	<b>Changwat</b>	Kanchanaburi
<b>Drainage Area</b>	123	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+79.800 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+84.513 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1987 , 1996 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1987, 1996 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.13	80.06	80.07	80.50	80.38	80.89	80.59	80.38	80.30	80.23	80.12	80.05	
2	80.13	80.06	80.07	80.49	80.55	81.08	80.58	80.39	80.30	80.23	80.12	80.05	
3	80.11	80.06	80.07	80.50	80.54	81.02	80.53	80.42	80.30	80.22	80.11	80.05	
4	80.11	80.06	80.07	80.59	80.63	81.19	80.52	80.42	80.30	80.22	80.10	80.05	
5	80.10	80.06	80.07	80.51	80.83	81.08	80.52	80.40	80.29	80.21	80.12	80.05	
6	80.08	80.06	80.14	80.46	81.53	80.94	80.70	80.39	80.28	80.21	80.14	80.05	
7	80.08	80.06	80.28	80.55	81.09	80.90	80.59	80.38	80.28	80.20	80.13	80.05	
8	80.07	80.06	80.29	80.50	80.91	80.82	80.62	80.38	80.28	80.20	80.13	80.05	
9	80.06	80.06	80.29	80.45	80.85	80.78	80.61	80.37	80.27	80.20	80.12	80.05	
10	80.07	80.06	80.29	80.42	80.78	80.72	80.56	80.37	80.29	80.21	80.10	80.05	
11	80.07	80.06	80.28	80.40	80.90	80.72	80.59	80.36	80.28	80.20	80.08	80.05	
12	80.07	80.06	80.33	80.38	81.70	80.68	80.53	80.35	80.28	80.20	80.08	80.05	
13	80.07	80.06	80.33	80.35	81.31	80.64	80.51	80.35	80.27	80.19	80.07	80.05	
14	80.06	80.06	80.36	80.37	80.98	80.63	80.50	80.36	80.27	80.19	80.06	80.05	
15	80.06	80.06	80.42	80.36	80.78	80.72	80.49	80.37	80.26	80.18	80.05	80.05	
16	80.06	80.06	80.54	80.40	80.71	80.79	80.46	80.35	80.26	80.19	80.05	80.05	
17	80.06	80.06	80.44	80.37	80.69	80.72	80.45	80.35	80.26	80.18	80.05	80.05	
18	80.06	80.06	80.42	80.38	80.69	80.63	80.45	80.34	80.25	80.19	80.05	80.05	
19	80.06	80.06	80.40	80.37	80.65	80.63	80.45	80.34	80.25	80.18	80.05	80.05	
20	80.06	80.06	80.40	80.36	80.65	80.92	80.44	80.34	80.25	80.17	80.05	80.05	
21	80.06	80.06	80.40	80.35	80.76	81.41	80.43	80.33	80.24	80.17	80.05	80.05	
22	80.06	80.06	80.35	80.35	80.72	81.48	80.43	80.34	80.25	80.17	80.05	80.05	
23	80.06	80.06	80.34	80.34	80.77	81.02	80.42	80.33	80.24	80.17	80.05	80.05	
24	80.06	80.06	80.33	80.35	80.73	80.83	80.42	80.32	80.25	80.17	80.05	80.05	
25	80.06	80.06	80.38	80.38	80.73	80.76	80.41	80.33	80.24	80.17	80.05	80.05	
26	80.06	80.06	80.36	80.38	80.75	80.71	80.41	80.32	80.24	80.16	80.05	80.05	
27	80.06	80.06	80.34	80.38	80.96	80.67	80.41	80.31	80.24	80.15	80.05	80.05	
28	80.07	80.06	80.36	80.37	80.84	80.65	80.40	80.32	80.24	80.12	80.05	80.05	
29	80.07	80.06	80.37	80.36	80.77	80.62	80.39	80.31	80.24	80.13	80.05	80.05	
30	80.07	80.06	80.39	80.36	80.73	80.62	80.39	80.30	80.23	80.14	80.05	80.05	
31		80.06		80.35	80.76		80.38		80.23	80.12		80.05	
Mean	80.07	80.06	80.31	80.41	80.83	80.84	80.49	80.35	80.26	80.18	80.08	80.05	
Max	80.13	80.06	80.54	80.59	81.70	81.48	80.70	80.42	80.30	80.23	80.14	80.05	81.70
Min	80.06	80.06	80.07	80.34	80.38	80.62	80.38	80.30	80.23	80.12	80.05	80.05	80.05
Annual Max Momentary Gage Height	81.79	m. (MSL.) ,		at 12.00 Hours , on Aug 12 , 2019									
Zero Gage at Bottom Elevation	79.80	m. (MSL.) ,		River Bed 80.39 m. (MSL.)									
Left Bank Elevation	84.85	m. (MSL.) ,											
Right Bank Elevation	84.87	m. (MSL.) ,		Drainage Are	123	Square Kilometers							



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.00	0.00	0.85	0.34	3.57	1.39	0.34	0.10	0.07	0.01	0.00	
2	0.02	0.00	0.00	0.81	1.15	5.09	1.33	0.37	0.10	0.07	0.01	0.00	
3	0.01	0.00	0.00	0.85	1.09	4.61	1.03	0.49	0.10	0.06	0.01	0.00	
4	0.01	0.00	0.00	1.39	1.66	5.97	0.97	0.49	0.10	0.06	0.00	0.00	
5	0.00	0.00	0.00	0.91	3.09	5.09	0.97	0.40	0.10	0.06	0.01	0.00	
6	0.00	0.00	0.02	0.67	8.92	3.97	2.15	0.37	0.09	0.06	0.02	0.00	
7	0.00	0.00	0.09	1.15	5.17	3.65	1.39	0.34	0.09	0.05	0.02	0.00	
8	0.00	0.00	0.10	0.85	3.73	3.01	1.59	0.34	0.09	0.05	0.02	0.00	
9	0.00	0.00	0.10	0.63	3.25	2.71	1.52	0.31	0.09	0.05	0.01	0.00	
10	0.00	0.00	0.10	0.49	2.71	2.29	1.21	0.31	0.10	0.06	0.00	0.00	
11	0.00	0.00	0.09	0.40	3.65	2.29	1.39	0.28	0.09	0.05	0.00	0.00	
12	0.00	0.00	0.19	0.34	10.45	2.01	1.03	0.25	0.09	0.05	0.00	0.00	
13	0.00	0.00	0.19	0.25	6.99	1.73	0.91	0.25	0.09	0.05	0.00	0.00	
14	0.00	0.00	0.28	0.31	4.29	1.66	0.85	0.28	0.09	0.05	0.00	0.00	
15	0.00	0.00	0.49	0.28	2.71	2.29	0.81	0.31	0.08	0.04	0.00	0.00	
16	0.00	0.00	1.09	0.40	2.22	2.78	0.67	0.25	0.08	0.05	0.00	0.00	
17	0.00	0.00	0.58	0.31	2.08	2.29	0.63	0.25	0.08	0.04	0.00	0.00	
18	0.00	0.00	0.49	0.34	2.08	1.66	0.63	0.22	0.08	0.05	0.00	0.00	
19	0.00	0.00	0.40	0.31	1.80	1.66	0.63	0.22	0.08	0.04	0.00	0.00	
20	0.00	0.00	0.40	0.28	1.80	3.81	0.58	0.22	0.08	0.04	0.00	0.00	
21	0.00	0.00	0.40	0.25	2.57	7.84	0.54	0.19	0.07	0.04	0.00	0.00	
22	0.00	0.00	0.25	0.25	2.29	8.47	0.54	0.22	0.08	0.04	0.00	0.00	
23	0.00	0.00	0.22	0.22	2.64	4.61	0.49	0.19	0.07	0.04	0.00	0.00	
24	0.00	0.00	0.19	0.25	2.36	3.09	0.49	0.16	0.08	0.04	0.00	0.00	
25	0.00	0.00	0.34	0.34	2.36	2.57	0.45	0.19	0.07	0.04	0.00	0.00	
26	0.00	0.00	0.28	0.34	2.50	2.22	0.45	0.16	0.07	0.03	0.00	0.00	
27	0.00	0.00	0.22	0.34	4.13	1.94	0.45	0.13	0.07	0.03	0.00	0.00	
28	0.00	0.00	0.28	0.31	3.17	1.80	0.40	0.16	0.07	0.01	0.00	0.00	
29	0.00	0.00	0.31	0.28	2.64	1.59	0.37	0.13	0.07	0.02	0.00	0.00	
30	0.00	0.00	0.37	0.28	2.36	1.59	0.37	0.10	0.07	0.02	0.00	0.00	
31	0.00	0.00	0.00	0.25	2.57	0.00	0.34	0.00	0.07	0.01	0.00	0.00	
<b>Total</b>	0.06	0.00	7.47	14.93	98.77	97.86	26.57	7.92	2.59	1.37	0.11	0.00	257.65 CMSDAY
<b>Mean</b>	0.00	0.00	0.25	0.48	3.19	3.26	0.86	0.26	0.08	0.04	0.00	0.00	0.70 CMS
<b>Max</b>	0.02	0.00	1.09	1.39	10.45	8.47	2.15	0.49	0.10	0.07	0.02	0.00	10.45 CMS
<b>Min</b>	0.00	0.00	0.00	0.22	0.34	1.59	0.34	0.10	0.07	0.01	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.01	0.00	0.65	1.29	8.53	8.46	2.30	0.68	0.22	0.12	0.01	0.00	22.26 MCM
<b>Momentary Peak</b>	11.31	CMS. at 81.79 m. (MSL.) at 12.00 Hours , on Aug 12 , 2019											
<b>Runoff Yield</b>	5.74	Liters/Second/Square KM. Momentary Peak Yield 91.95 Liters/Second/Square KM.											

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwaee Noi River at Ban Lin Thin , Kanchanaburi (K.54)

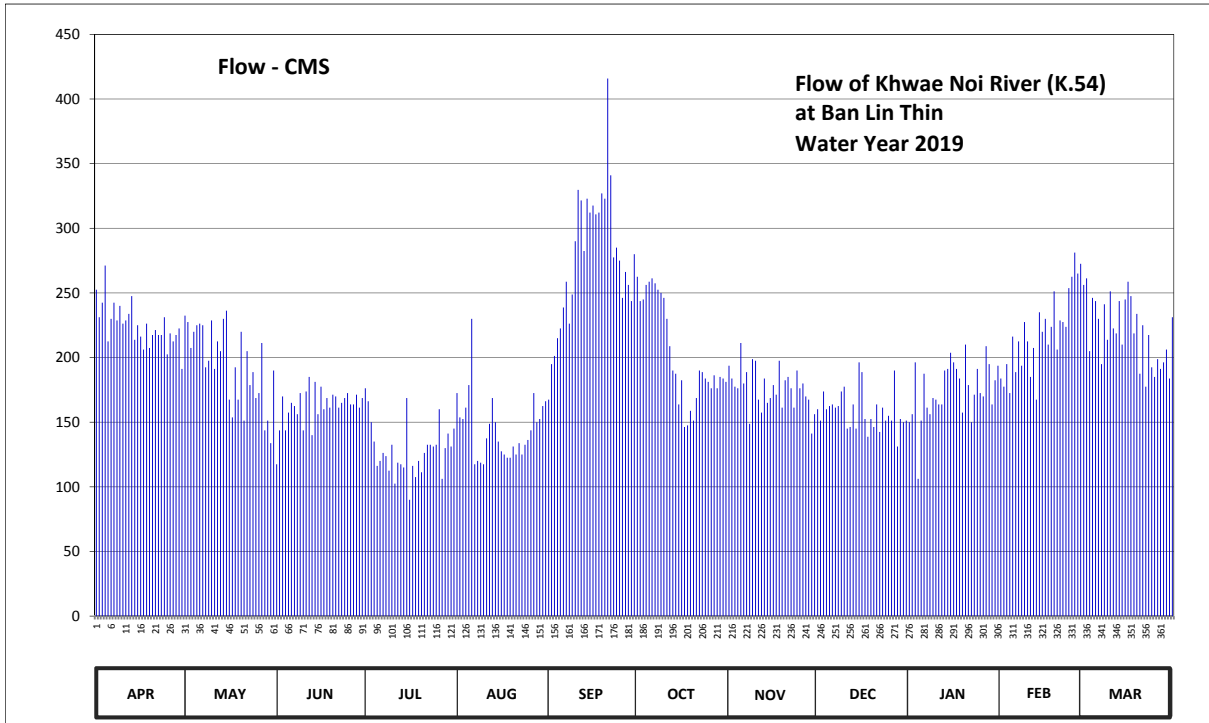
Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

Location : on right bank at the bridge on road.

	<b>Ban Lin Thin</b>	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	4,774 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+60.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 40 meters from the gage observer's house.	<b>Elevation</b>	+74.394 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.82	63.66	62.74	63.21	63.18	63.14	63.90	63.35	63.08	63.00	63.27	63.85	
2	63.65	63.62	62.95	63.13	63.03	63.36	63.75	63.27	63.01	63.05	63.22	63.89	
3	63.74	63.46	63.16	63.00	63.02	63.41	63.76	63.22	63.19	63.37	63.36	63.44	
4	63.97	63.56	62.95	62.88	63.09	63.52	63.85	63.21	63.08	62.65	63.18	63.77	
5	63.50	63.60	63.06	62.73	63.23	63.58	63.87	63.49	63.10	63.01	63.53	63.75	
6	63.64	63.61	63.12	62.76	63.64	63.71	63.89	63.24	63.11	63.30	63.31	63.64	
7	63.74	63.60	63.10	62.81	62.74	63.87	63.86	63.31	63.09	63.09	63.50	63.36	
8	63.63	63.34	63.05	62.79	62.76	63.61	63.82	62.99	63.10	63.05	63.35	63.73	
9	63.72	63.38	63.18	62.70	62.75	63.79	63.80	63.39	63.19	63.15	63.62	63.51	
10	63.61	63.63	62.95	62.86	62.74	64.12	63.77	63.38	63.22	63.14	63.50	63.81	
11	63.63	63.33	63.19	62.62	62.90	64.42	63.64	63.14	62.96	63.11	63.28	63.58	
12	63.67	63.50	63.28	62.75	62.99	64.36	63.47	63.06	62.97	63.11	63.46	63.55	
13	63.78	63.44	62.92	62.74	63.15	64.06	63.32	63.27	63.11	63.32	63.14	63.75	
14	63.51	63.64	63.25	62.72	63.00	64.37	63.30	63.12	62.96	63.33	63.68	63.48	
15	63.60	63.69	63.05	63.15	62.88	64.29	63.11	63.15	63.37	63.43	63.56	63.76	
16	63.53	63.14	63.22	62.52	62.82	64.33	63.26	63.23	63.31	63.37	63.64	63.87	
17	63.45	63.03	63.08	62.73	62.80	64.28	62.97	63.17	63.02	63.33	63.48	63.78	
18	63.61	63.34	63.15	62.66	62.78	64.29	62.98	63.38	62.91	63.27	63.59	63.55	
19	63.46	63.14	63.09	62.76	62.78	64.40	63.07	63.09	63.02	63.06	63.81	63.67	
20	63.54	63.56	63.17	62.69	62.85	64.37	63.01	63.26	62.97	63.48	63.45	63.30	
21	63.57	63.01	63.16	62.81	62.80	65.02	63.15	63.28	63.11	63.23	63.63	63.60	
22	63.54	63.44	63.09	62.86	62.87	64.50	63.32	63.21	62.94	63.00	63.62	63.22	
23	63.54	63.23	63.12	62.86	62.80	64.02	63.31	63.09	63.09	63.17	63.59	63.54	
24	63.65	63.31	63.15	62.85	62.86	64.08	63.27	63.32	63.01	63.33	63.83	63.34	
25	63.42	63.15	63.18	62.86	62.89	64.00	63.25	63.21	63.04	63.18	63.90	63.28	
26	63.55	63.18	63.11	63.08	62.95	63.77	63.21	63.24	63.01	63.16	64.05	63.39	
27	63.50	63.49	63.11	62.65	63.18	63.93	63.29	63.16	63.32	63.47	63.92	63.33	
28	63.54	62.95	63.17	62.84	63.00	63.85	63.21	63.14	62.85	63.36	63.98	63.37	
29	63.58	63.01	63.09	62.93	63.02	63.75	63.28	62.93	63.02	63.11	64.25	63.45	
30	63.33	62.87	63.15	62.85	63.10	64.04	63.27	63.05	63.00	63.26		63.27	
31		63.32		62.96	63.13		63.25		63.01	63.35		63.65	
Mean	63.60	63.36	63.10	62.83	62.96	64.01	63.43	63.21	63.07	63.20	63.58	63.56	
Max	63.97	63.69	63.28	63.21	63.64	65.02	63.90	63.49	63.37	63.48	64.25	63.89	65.02
Min	63.33	62.87	62.74	62.52	62.74	63.14	62.97	62.93	62.85	62.65	63.14	63.22	62.52
Annual Max Momentary Gage Height	65.93			m. (MSL.) ,			at 05.00 Hours ,						on Sep 21 , 2019
Zero Gage at Bottom Elevation	60.60			m. (MSL.) ,		River Bed	60.30		m. (MSL.)				
Left Bank Elevation		68.54		m. (MSL.) ,									
Right Bank Elevation		75.71		m. (MSL.) ,		Drainage Are	4,774		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	252.50	232.50	117.50	176.25	172.50	167.50	262.50	193.75	160.00	150.00	183.75	256.25		
2	231.25	227.50	143.75	166.25	153.75	195.00	243.75	183.75	151.25	156.25	177.50	261.25		
3	242.50	207.50	170.00	150.00	152.50	201.25	245.00	177.50	173.75	196.25	195.00	205.00		
4	271.25	220.00	143.75	135.00	161.25	215.00	256.25	176.25	160.00	106.25	172.50	246.25		
5	212.50	225.00	157.50	116.25	178.75	222.50	258.75	211.25	162.50	151.25	216.25	243.75		
6	230.00	226.25	165.00	120.00	230.00	238.75	261.25	180.00	163.75	187.50	188.75	230.00		
7	242.50	225.00	162.50	126.25	117.50	258.75	257.50	188.75	161.25	161.25	212.50	195.00		
8	228.75	192.50	156.25	123.75	120.00	226.25	252.50	148.75	162.50	156.25	193.75	241.25		
9	240.00	197.50	172.50	112.50	118.75	248.75	250.00	198.75	173.75	168.75	227.50	213.75		
10	226.25	228.75	143.75	132.50	117.50	290.00	246.25	197.50	177.50	167.50	212.50	251.25		
11	228.75	191.25	173.75	102.50	137.50	329.80	230.00	167.50	145.00	163.75	185.00	222.50		
12	233.75	212.50	185.00	118.75	148.75	321.60	208.75	157.50	146.25	163.75	207.50	218.75		
13	247.50	205.00	140.00	117.50	168.75	282.50	190.00	183.75	163.75	190.00	167.50	243.75		
14	213.75	230.00	181.25	115.00	150.00	322.95	187.50	165.00	145.00	191.25	235.00	210.00		
15	225.00	236.25	156.25	168.75	135.00	312.15	163.75	168.75	196.25	203.75	220.00	245.00		
16	216.25	167.50	177.50	90.00	127.50	317.55	182.50	178.75	188.75	196.25	230.00	258.75		
17	206.25	153.75	160.00	116.25	125.00	310.80	146.25	171.25	152.50	191.25	210.00	247.50		
18	226.25	192.50	168.75	107.50	122.50	312.15	147.50	197.50	138.75	183.75	223.75	218.75		
19	207.50	167.50	161.25	120.00	122.50	327.00	158.75	161.25	152.50	157.50	251.25	233.75		
20	217.50	220.00	171.25	111.25	131.25	322.95	151.25	182.50	146.25	210.00	206.25	187.50		
21	221.25	151.25	170.00	126.25	125.00	415.90	168.75	185.00	163.75	178.75	228.75	225.00		
22	217.50	205.00	161.25	132.50	133.75	341.00	190.00	176.25	142.50	150.00	227.50	177.50		
23	217.50	178.75	165.00	132.50	125.00	277.50	188.75	161.25	161.25	171.25	223.75	217.50		
24	231.25	188.75	168.75	131.25	132.50	285.00	183.75	190.00	151.25	191.25	253.75	192.50		
25	202.50	168.75	172.50	132.50	136.25	275.00	181.25	176.25	155.00	172.50	262.50	185.00		
26	218.75	172.50	163.75	160.00	143.75	246.25	176.25	180.00	151.25	170.00	281.25	198.75		
27	212.50	211.25	163.75	106.25	172.50	266.25	186.25	170.00	190.00	208.75	265.00	191.25		
28	217.50	143.75	171.25	130.00	150.00	256.25	176.25	167.50	131.25	195.00	272.50	196.25		
29	222.50	151.25	161.25	141.25	152.50	243.75	185.00	141.25	152.50	163.75	306.75	206.25		
30	191.25	133.75	168.75	131.25	162.50	280.00	183.75	156.25	150.00	182.50		183.75		
31	190.00		145.00	166.25		181.25		151.25		193.75		231.25		
Total	6752.50	6053.75	4873.75	3995.00	4491.25	8310.10	6301.25	5293.75	4921.25	5430.00	6438.00	6835.00	69695.60	CMSDAY
Mean	225.08	195.28	162.46	128.87	144.88	277.00	203.27	176.46	158.75	175.16	222.00	220.48	190.43	CMS
Max	271.25	236.25	185.00	176.25	230.00	415.90	262.50	211.25	196.25	210.00	306.75	261.25	415.90	CMS
Min	191.25	133.75	117.50	90.00	117.50	167.50	146.25	141.25	131.25	106.25	167.50	177.50	90.00	CMS
Runoff	583.42	523.04	421.09	345.17	388.04	717.99	544.43	457.38	425.20	469.15	556.24	590.54	6021.70	MCM
Momentary Peak	547.85	CMS.	at 65.93 m. (MSL.)											on Sep 21, 2019
Runoff Yield	40.00	Liters/Second/Square KM.												Momentary Peak Yield 114.76 Liters/Second/Square KM.

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Mae Klong River at Khai Luang Bridge, Ratchaburi (K.55A)

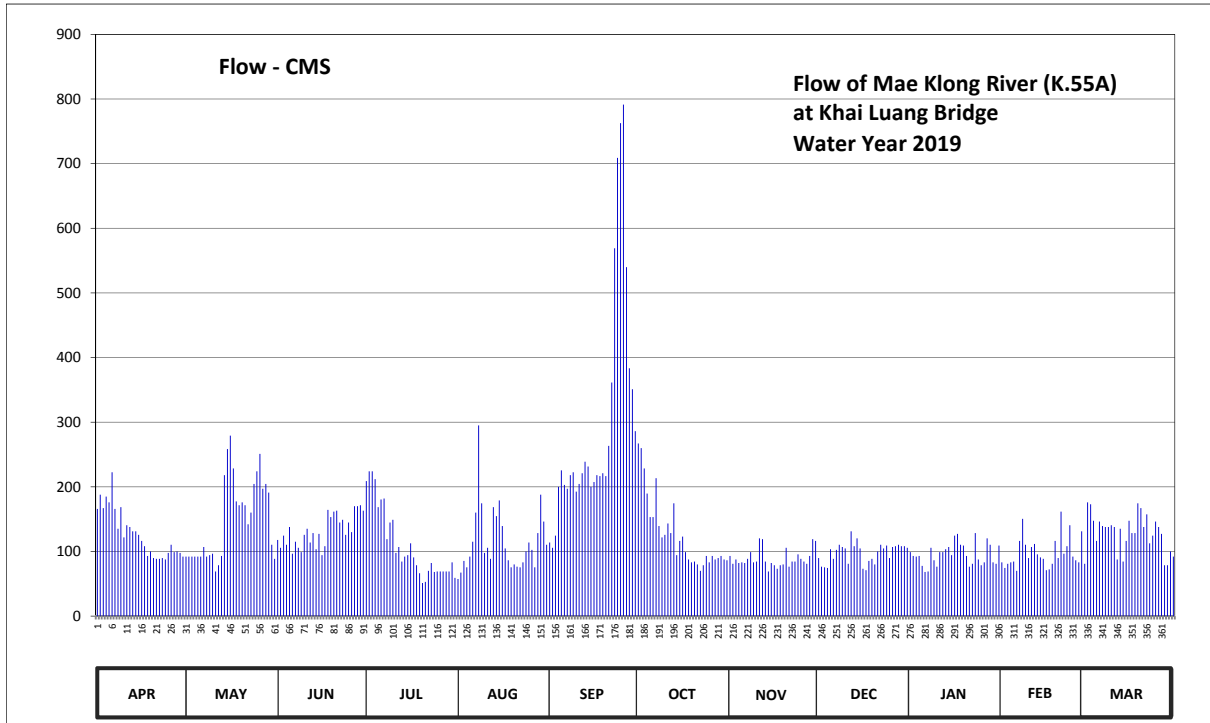
Lat 13 - 49 - 07 N Long 99 - 51 - 53 E

Location : on right bank at the bridge on road.

	Ban Khai Luang Bridge	Amphoe Ban Pong	Changwat Ratchaburi
<b>Drainage Area</b>	-	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.		<b>Elevation</b> +12.065 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 37 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.57	2.00	2.22	2.86	1.66	2.19	3.24	2.01	1.98	2.06	1.92	1.90	
2	2.72	2.00	2.12	2.96	1.77	2.12	3.20	1.90	1.86	2.01	1.84	2.64	
3	2.58	2.00	2.27	2.96	1.94	2.27	2.99	1.96	1.85	2.00	1.90	2.62	
4	2.70	2.00	2.16	2.88	1.85	2.80	2.73	1.91	1.84	2.01	1.92	2.44	
5	2.64	2.00	2.37	2.59	2.00	2.97	2.48	1.92	2.10	1.87	1.93	2.21	
6	2.95	2.00	2.04	2.67	2.20	2.82	2.48	1.91	1.97	1.78	1.80	2.43	
7	2.57	2.13	2.20	2.68	2.53	2.78	2.89	1.97	2.09	1.79	2.21	2.38	
8	2.35	2.00	2.12	2.23	3.40	2.92	2.38	2.06	2.16	2.12	2.46	2.37	
9	2.59	2.02	2.06	2.42	2.63	2.95	2.25	1.92	2.13	1.95	2.16	2.37	
10	2.25	2.04	2.28	2.45	2.05	2.75	2.28	1.93	2.11	1.86	1.98	2.39	
11	2.39	1.79	2.35	2.05	2.12	2.83	2.41	2.24	1.90	2.06	2.13	2.37	
12	2.37	1.88	2.19	2.13	1.97	2.94	2.30	2.23	2.32	2.06	2.17	1.96	
13	2.32	2.01	2.30	1.93	2.59	3.06	2.63	1.93	2.14	2.10	2.03	2.35	
14	2.32	2.92	2.10	2.00	2.49	3.01	2.02	1.79	2.24	2.13	1.99	1.93	
15	2.28	3.19	2.29	2.02	2.66	2.80	2.21	1.91	2.11	2.02	1.97	2.21	
16	2.21	3.31	2.02	2.18	2.38	2.85	2.26	1.88	1.83	2.27	1.81	2.44	
17	2.14	2.99	2.14	1.99	2.11	2.92	2.06	1.83	1.81	2.29	1.82	2.30	
18	2.01	2.65	2.56	1.88	1.95	2.91	1.96	1.88	1.94	2.16	1.90	2.30	
19	2.07	2.61	2.48	1.76	1.85	2.94	1.92	1.89	1.97	2.15	2.21	2.63	
20	1.98	2.64	2.54	1.59	1.89	2.91	1.93	2.12	1.89	2.01	1.98	2.58	
21	1.97	2.61	2.55	1.61	1.86	3.22	1.89	1.86	2.07	1.86	2.54	2.37	
22	1.97	2.40	2.42	1.80	1.85	3.78	1.80	1.93	2.16	1.90	2.04	2.51	
23	1.98	2.53	2.45	1.91	1.92	4.84	1.88	1.93	2.11	2.30	2.14	2.18	
24	1.96	2.83	2.28	1.78	2.07	5.46	2.01	2.03	2.15	1.96	2.39	2.27	
25	2.05	2.96	2.42	1.79	2.19	5.68	1.92	1.97	1.98	1.88	2.00	2.43	
26	2.16	3.14	2.31	1.79	2.09	5.79	2.01	1.93	2.13	1.92	1.95	2.37	
27	2.06	2.78	2.60	1.79	1.85	4.70	1.96	1.90	2.14	2.24	1.92	2.29	
28	2.07	2.83	2.60	1.79	2.30	3.90	1.98	2.01	2.16	2.16	2.32	1.88	
29	2.05	2.74	2.61	1.79	2.72	3.72	2.01	2.23	2.14	1.92	1.87	1.88	
30	2.00	2.16	2.55	1.92	2.43	3.35	1.96	2.21	2.14	1.90	2.07	2.07	
31		1.97		1.68	2.16		1.95		2.12	2.15	2.00		
Mean	2.28	2.42	2.32	2.13	2.18	3.34	2.26	1.97	2.05	2.03	2.04	2.29	
Max	2.95	3.31	2.61	2.96	3.40	5.79	3.24	2.24	2.32	2.30	2.54	2.64	5.79
Min	1.96	1.79	2.02	1.59	1.66	2.12	1.80	1.79	1.81	1.78	1.80	1.88	1.59
Annual Max Momentary Gage Height	6.09		m. (MSL.) ,			at 04.00 Hours , on Sep 26 , 2019							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed -0.57	m. (MSL.)						
Left Bank Elevation	11.75		m. (MSL.) ,										
Right Bank Elevation	11.81		m. (MSL.) ,			Drainage Are	-	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.80	92.00	117.70	209.00	57.40	113.85	267.00	93.15	89.80	98.90	83.20	81.00	
2	188.00	92.00	105.80	224.00	67.30	105.80	260.00	81.00	76.60	93.15	74.40	176.00	
3	167.20	92.00	124.45	224.00	85.40	124.45	228.50	87.60	75.50	92.00	81.00	173.00	
4	185.00	92.00	110.40	212.00	75.50	200.00	189.50	82.10	74.40	93.15	83.20	147.60	
5	176.00	92.00	137.95	168.60	92.00	225.50	153.20	83.20	103.50	77.70	84.30	116.35	
6	222.50	92.00	96.60	180.50	115.00	203.00	153.20	82.10	88.70	68.20	70.00	146.20	
7	165.80	106.95	115.00	182.00	160.20	197.00	213.50	88.70	102.35	69.10	116.35	139.30	
8	135.25	92.00	105.80	119.05	295.00	218.00	139.30	98.90	110.40	105.80	150.40	137.95	
9	168.60	94.30	98.90	144.80	174.50	222.50	121.75	83.20	106.95	86.50	110.40	137.95	
10	121.75	96.60	125.80	149.00	97.75	192.50	125.80	84.30	104.65	76.60	89.80	140.65	
11	140.65	69.10	135.25	97.75	105.80	204.50	143.40	120.40	81.00	98.90	106.95	137.95	
12	137.95	78.80	113.85	106.95	88.70	221.00	128.50	119.05	131.20	98.90	111.55	87.60	
13	131.20	93.15	128.50	84.30	168.60	239.00	174.50	84.30	108.10	103.50	95.45	135.25	
14	131.20	218.00	103.50	92.00	154.60	231.50	94.30	69.10	120.40	106.95	90.90	84.30	
15	125.80	258.50	127.15	94.30	179.00	200.00	116.35	82.10	104.65	94.30	88.70	116.35	
16	116.35	279.25	94.30	112.70	139.30	207.50	123.10	78.80	73.30	124.45	71.10	147.60	
17	108.10	228.50	108.10	90.90	104.65	218.00	98.90	73.30	71.10	127.15	72.20	128.50	
18	93.15	177.50	164.40	78.80	86.50	216.50	87.60	78.80	85.40	110.40	81.00	128.50	
19	100.05	171.50	153.20	66.40	75.50	221.00	83.20	79.90	88.70	109.25	116.35	174.50	
20	89.80	176.00	161.60	51.15	79.90	216.50	84.30	105.80	79.90	93.15	89.80	167.20	
21	88.70	171.50	163.00	52.90	76.60	263.50	79.90	76.60	100.05	76.60	161.60	137.95	
22	88.70	142.00	144.80	70.00	75.50	361.50	70.00	84.30	110.40	81.00	96.60	157.40	
23	89.80	160.20	149.00	82.10	83.20	569.00	78.80	84.30	104.65	128.50	108.10	112.70	
24	87.60	204.50	125.80	68.20	100.05	709.10	93.15	95.45	109.25	87.60	140.65	124.45	
25	97.75	224.00	144.80	69.10	113.85	762.80	83.20	88.70	89.80	78.80	92.00	146.20	
26	110.40	251.00	129.85	69.10	102.35	791.40	93.15	84.30	106.95	83.20	86.50	137.95	
27	98.90	197.00	170.00	69.10	75.50	540.00	87.60	81.00	108.10	120.40	83.20	127.15	
28	100.05	204.50	170.00	69.10	128.50	383.50	89.80	93.15	110.40	110.40	131.20	78.80	
29	97.75	191.00	171.50	69.10	188.00	351.00	93.15	119.05	108.10	83.20	77.70	78.80	
30	92.00	110.40	163.00	83.20	146.20	286.25	87.60	116.35	108.10	81.00		100.05	
31		88.70		59.20	110.40		86.50		105.80	109.25		92.00	
Total	3821.80	4636.95	3960.00	3449.30	3602.75	8996.15	3928.75	2679.00	3038.20	2968.00	2844.60	3997.20	47922.70 CMSDAY
Mean	127.39	149.58	132.00	111.27	116.22	299.87	126.73	89.30	98.01	95.74	98.09	128.94	130.94 CMS
Max	222.50	279.25	171.50	224.00	295.00	791.40	267.00	120.40	131.20	128.50	161.60	176.00	791.40 CMS
Min	87.60	69.10	94.30	51.15	57.40	105.80	70.00	69.10	71.10	68.20	70.00	78.80	51.15 CMS
Runoff	330.20	400.63	342.14	298.02	311.28	777.27	339.44	231.47	262.50	256.44	245.77	345.36	4140.52 MCM
Momentary Peak	870.30	CMS.	at 6.09 m. (MSL.)	at 04.00 Hours	, on Sep 26	, 2019							
Runoff Yield	*****	Liters/Second/Square KM.		Momentary Peak Yield	*****	Liters/Second/Square KM.							

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwaee Noi River at Ban Tha Sao , Kanchanaburi (K.58)

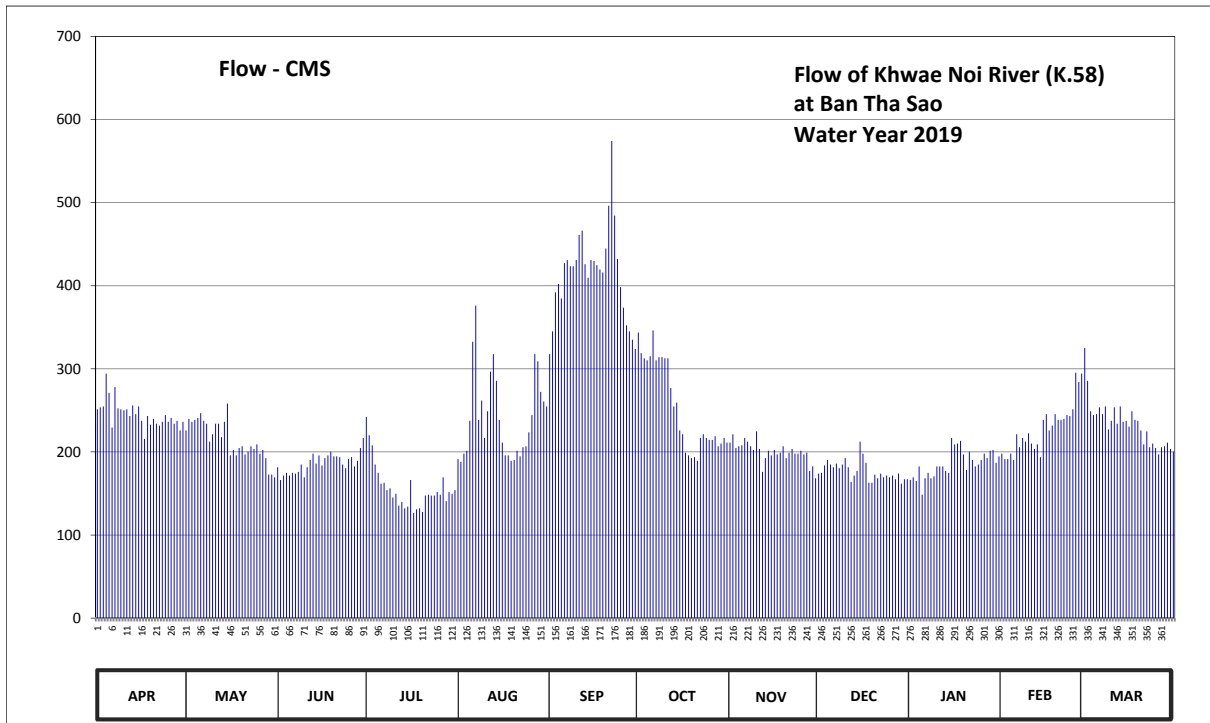
Lat 14 - 12 - 46 N Long 99 - 03 - 39 E

Location : on left bank at Ban Tha Sao.

	<b>Ban</b>	<b>Tha Sao</b>	<b>Amphoe</b>	<b>Sai Yok</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	6,725	sq.km.				
<b>Type of Gage</b>	Water - stage recorder.					
<b>Zero Gage at Bottom</b>	+39.500	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 40 meters from the gage observer's house.				<b>Elevation</b>	+57.998 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1998 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2006 to date					
<b>Rated by Float</b>	-					
<b>Rated by Current Meter</b>	2006 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.77	42.55	42.15	42.69	42.24	43.32	43.53	42.42	42.08	42.01	42.30	43.38	
2	42.79	42.67	42.01	42.50	42.21	43.54	43.33	42.51	42.09	42.04	42.24	43.06	
3	42.80	42.64	42.06	42.39	42.30	43.92	43.28	42.36	42.17	42.00	42.24	42.75	
4	43.13	42.66	42.09	42.18	42.33	44.00	43.26	42.38	42.23	42.16	42.30	42.71	
5	42.94	42.68	42.06	42.09	42.65	43.86	43.30	42.39	42.18	41.85	42.23	42.72	
6	42.58	42.73	42.09	41.97	43.44	44.20	43.55	42.47	42.15	42.03	42.51	42.79	
7	43.00	42.65	42.08	41.98	43.79	44.23	43.26	42.43	42.19	42.09	42.37	42.72	
8	42.78	42.62	42.10	41.90	42.66	44.17	43.29	42.38	42.14	42.03	42.47	42.80	
9	42.77	42.43	42.18	41.92	42.86	44.17	43.29	42.34	42.18	42.05	42.43	42.56	
10	42.76	42.51	42.04	41.82	42.47	44.23	43.28	42.54	42.25	42.16	42.52	42.65	
11	42.77	42.62	42.15	41.86	42.75	44.47	43.28	42.35	42.15	42.16	42.41	42.79	
12	42.70	42.62	42.23	41.73	43.15	44.51	42.99	42.10	41.99	42.16	42.35	42.62	
13	42.81	42.48	42.30	41.77	43.32	44.19	42.80	42.25	42.06	42.11	42.40	42.80	
14	42.72	42.64	42.19	41.70	43.06	44.06	42.84	42.33	42.11	42.09	42.26	42.64	
15	42.80	42.83	42.28	41.72	42.66	44.23	42.55	42.28	42.43	42.47	42.66	42.65	
16	42.65	42.28	42.17	42.01	42.42	44.22	42.51	42.34	42.30	42.40	42.72	42.59	
17	42.46	42.34	42.25	41.65	42.28	44.18	42.31	42.29	42.20	42.41	42.55	42.75	
18	42.70	42.28	42.28	41.69	42.28	44.14	42.28	42.31	41.98	42.44	42.60	42.66	
19	42.61	42.36	42.32	41.70	42.22	44.11	42.25	42.38	41.98	42.29	42.72	42.65	
20	42.67	42.38	42.27	41.66	42.23	44.34	42.26	42.25	42.07	42.12	42.66	42.55	
21	42.62	42.29	42.27	41.84	42.33	44.74	42.22	42.31	42.03	42.32	42.66	42.40	
22	42.60	42.32	42.26	41.85	42.27	45.34	42.47	42.35	42.08	42.23	42.67	42.54	
23	42.64	42.38	42.18	41.84	42.37	44.65	42.51	42.30	42.04	42.16	42.71	42.37	
24	42.71	42.35	42.14	41.84	42.38	44.24	42.47	42.30	42.06	42.18	42.70	42.41	
25	42.64	42.40	42.24	41.88	42.53	43.97	42.45	42.33	42.04	42.23	42.77	42.36	
26	42.68	42.30	42.26	41.85	42.71	43.77	42.45	42.29	42.06	42.30	43.14	42.29	
27	42.62	42.34	42.16	42.04	43.32	43.60	42.49	42.31	42.02	42.25	43.05	42.37	
28	42.65	42.25	42.22	41.78	43.25	43.54	42.38	42.11	42.08	42.33	43.13	42.38	
29	42.55	42.07	42.36	41.88	42.95	43.46	42.41	42.16	41.97	42.34	43.21	42.42	
30	42.64	42.07	42.47	41.86	42.85	43.37	42.47	42.03	42.02	42.20	42.20	42.35	
31		42.04		41.90	42.80		42.42		42.02	42.27		42.32	
Mean	42.72	42.44	42.20	41.92	42.68	44.09	42.78	42.32	42.11	42.19	42.59	42.61	
Max	43.13	42.83	42.47	42.69	43.79	45.34	43.55	42.54	42.43	42.47	43.21	43.38	45.34
Min	42.46	42.04	42.01	41.65	42.21	43.32	42.22	42.03	41.97	41.85	42.23	42.29	41.65
Annual Max Momentary Gage Height	45.71	m. (MSL.) ,		at 16.00 Hours , on Sep 22 , 2019									
Zero Gage at Bottom Elevation	39.50	m. (MSL.) ,		River Bed		36.74	m. (MSL)						
Left Bank Elevation	57.76	m. (MSL.) ,											
Right Bank Elevation	56.63	m. (MSL.) ,		Drainage Are		6,725	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	251.32	225.80	181.50	242.04	191.40	317.68	343.72	211.20	173.80	166.10	198.00	325.12		
2	253.64	239.72	166.10	220.00	188.10	344.96	318.92	221.16	174.90	169.40	191.40	285.44		
3	254.80	236.24	171.60	207.90	198.00	392.08	312.72	204.60	183.70	165.00	191.40	249.00		
4	294.12	238.56	174.90	184.80	201.30	402.00	310.24	206.80	190.30	182.60	198.00	244.36		
5	271.04	240.88	171.60	174.90	237.40	384.64	315.20	207.90	184.80	148.50	190.30	245.52		
6	229.28	246.68	174.90	161.70	332.56	427.20	346.20	216.70	181.50	168.30	221.16	253.64		
7	278.00	237.40	173.80	162.80	375.96	430.98	310.24	212.30	185.90	174.90	205.70	245.52		
8	252.48	233.92	176.00	154.00	238.56	423.42	313.96	206.80	180.40	168.30	216.70	254.80		
9	251.32	212.30	184.80	156.20	261.76	423.42	313.96	202.40	184.80	170.50	212.30	226.96		
10	250.16	221.16	169.40	145.20	216.70	430.98	312.72	224.64	192.50	182.60	222.32	237.40		
11	251.32	233.92	181.50	149.60	249.00	461.22	312.72	203.50	181.50	182.60	210.10	253.64		
12	243.20	233.92	190.30	135.30	296.60	466.30	276.84	176.00	163.90	182.60	203.50	233.92		
13	255.96	217.80	198.00	139.70	317.68	425.94	254.80	192.50	171.60	177.10	209.00	254.80		
14	245.52	236.24	185.90	132.00	285.44	409.56	259.44	201.30	177.10	174.90	193.60	236.24		
15	254.80	258.28	195.80	134.20	238.56	430.98	225.80	195.80	212.30	216.70	238.56	237.40		
16	237.40	195.80	183.70	166.10	211.20	429.72	221.16	202.40	198.00	209.00	245.52	230.44		
17	215.60	202.40	192.50	126.50	195.80	424.68	199.10	196.90	187.00	210.10	225.80	249.00		
18	243.20	195.80	195.80	130.90	195.80	419.64	195.80	199.10	162.80	213.40	231.60	238.56		
19	232.76	204.60	200.20	132.00	189.20	415.86	192.50	206.80	162.80	196.90	245.52	237.40		
20	239.72	206.80	194.70	127.60	190.30	444.84	193.60	192.50	172.70	178.20	238.56	225.80		
21	233.92	196.90	194.70	147.40	201.30	496.20	189.20	199.10	168.30	200.20	238.56	209.00		
22	231.60	200.20	193.60	148.50	194.70	574.20	216.70	203.50	173.80	190.30	239.72	224.64		
23	236.24	206.80	184.80	147.40	205.70	484.50	221.16	198.00	169.40	182.60	244.36	205.70		
24	244.36	203.50	180.40	147.40	206.80	432.24	216.70	198.00	171.60	184.80	243.20	210.10		
25	236.24	209.00	191.40	151.80	223.48	398.28	214.50	201.30	169.40	190.30	251.32	204.60		
26	240.88	198.00	193.60	148.50	244.36	373.48	214.50	196.90	171.60	198.00	295.36	196.90		
27	233.92	202.40	182.60	169.40	317.68	352.40	218.90	199.10	167.20	192.50	284.20	205.70		
28	237.40	192.50	189.20	140.80	309.00	344.96	206.80	177.10	173.80	201.30	294.12	206.80		
29	225.80	172.70	204.60	151.80	272.20	335.04	210.10	182.60	161.70	202.40	304.04	211.20		
30	236.24	172.70	216.70	149.60	260.60	323.88	216.70	168.30	167.20	187.00		203.50		
31	169.40			154.00	254.80		211.20		167.20	194.70		200.20		
<b>Total</b>	<b>7362.24</b>	<b>6642.32</b>	<b>5594.60</b>	<b>4840.04</b>	<b>7501.94</b>	<b>12421.28</b>	<b>7866.10</b>	<b>6005.20</b>	<b>5483.50</b>	<b>5761.80</b>	<b>6683.92</b>	<b>7243.30</b>	<b>83406.24</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>245.41</b>	<b>214.27</b>	<b>186.49</b>	<b>156.13</b>	<b>242.00</b>	<b>414.04</b>	<b>253.75</b>	<b>200.17</b>	<b>176.89</b>	<b>185.86</b>	<b>230.48</b>	<b>233.65</b>	<b>227.89</b>	<b>CMS</b>
<b>Max</b>	<b>294.12</b>	<b>258.28</b>	<b>216.70</b>	<b>242.04</b>	<b>375.96</b>	<b>574.20</b>	<b>346.20</b>	<b>224.64</b>	<b>212.30</b>	<b>216.70</b>	<b>304.04</b>	<b>325.12</b>	<b>574.20</b>	<b>CMS</b>
<b>Min</b>	<b>215.60</b>	<b>169.40</b>	<b>166.10</b>	<b>126.50</b>	<b>188.10</b>	<b>317.68</b>	<b>189.20</b>	<b>168.30</b>	<b>161.70</b>	<b>148.50</b>	<b>190.30</b>	<b>196.90</b>	<b>126.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>636.10</b>	<b>573.90</b>	<b>483.37</b>	<b>418.18</b>	<b>648.17</b>	<b>1073.20</b>	<b>679.63</b>	<b>518.85</b>	<b>473.77</b>	<b>497.82</b>	<b>577.49</b>	<b>625.82</b>	<b>7206.30</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>624.40 CMS. at 45.71 m. (MSL.) at 16.00 Hours , on Sep 22 , 2019</b>													
<b>Runoff Yield</b>	<b>33.98</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>			<b>92.85</b>	<b>Liters/Second/Square KM.</b>						



## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

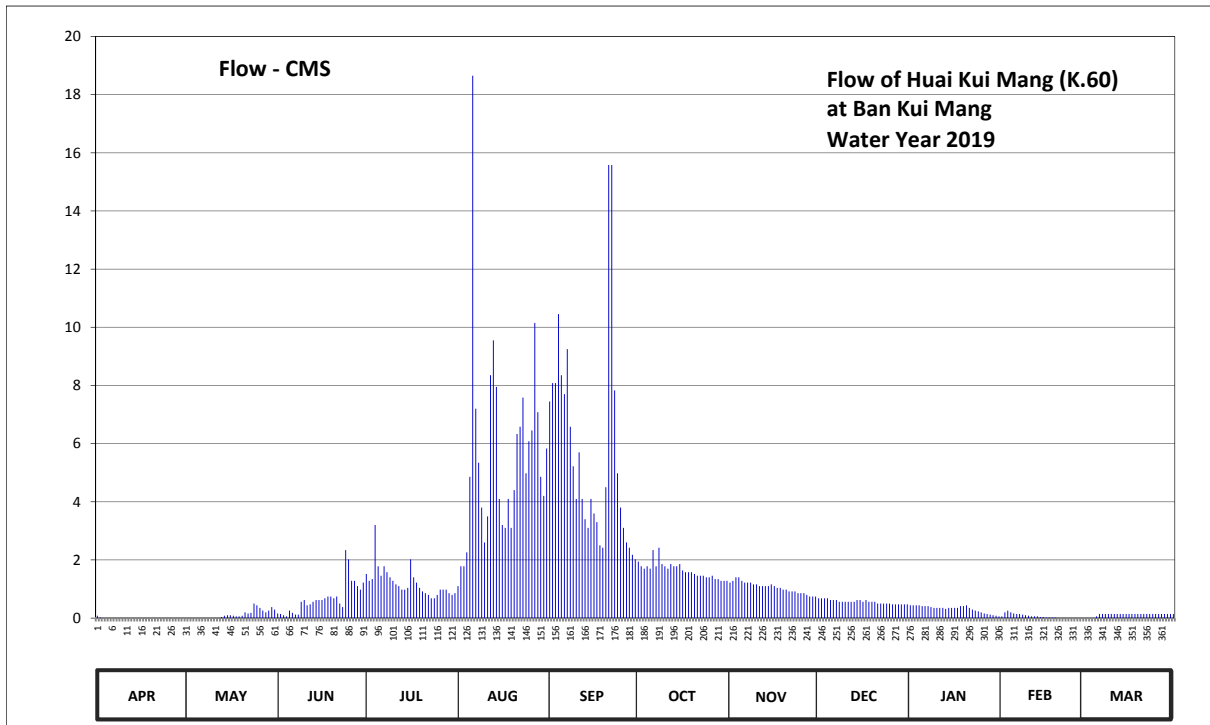
Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

	<b>Ban</b>	<b>Kui Mang</b>	<b>Amphoe</b>	<b>Thong Pha Phum</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	128	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+73.700 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.				<b>Elevation</b>	+82.468 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.					
<b>Period of Available Gage Records</b>	2000 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2000 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2000 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.34	74.20	74.38	74.67	74.60	75.24	74.73	74.62	74.53	74.48	74.33	74.29	
2	74.31	74.20	74.37	74.63	74.71	75.29	74.71	74.63	74.53	74.48	74.40	74.29	
3	74.29	74.20	74.35	74.64	74.71	75.29	74.70	74.65	74.53	74.48	74.42	74.29	
4	74.27	74.20	74.33	74.87	74.77	75.45	74.71	74.65	74.53	74.48	74.40	74.29	
5	74.26	74.20	74.42	74.71	75.03	75.31	74.70	74.63	74.52	74.47	74.38	74.33	
6	74.24	74.20	74.39	74.66	75.95	75.26	74.78	74.62	74.52	74.47	74.37	74.37	
7	74.23	74.20	74.36	74.71	75.22	75.37	74.71	74.62	74.52	74.47	74.37	74.37	
8	74.22	74.20	74.36	74.68	75.07	75.17	74.79	74.62	74.51	74.46	74.36	74.37	
9	74.22	74.20	74.51	74.65	74.93	75.06	74.72	74.61	74.51	74.45	74.35	74.37	
10	74.21	74.20	74.52	74.63	74.81	74.96	74.71	74.61	74.51	74.45	74.34	74.37	
11	74.20	74.20	74.48	74.61	74.90	75.10	74.70	74.60	74.51	74.45	74.33	74.37	
12	74.20	74.27	74.49	74.60	75.31	74.96	74.72	74.60	74.51	74.45	74.33	74.37	
13	74.20	74.32	74.51	74.58	75.39	74.89	74.71	74.60	74.51	74.44	74.33	74.37	
14	74.20	74.34	74.52	74.58	75.28	74.86	74.71	74.60	74.52	74.45	74.32	74.37	
15	74.20	74.35	74.52	74.59	74.96	74.96	74.72	74.61	74.52	74.45	74.32	74.37	
16	74.20	74.35	74.52	74.74	74.87	74.91	74.69	74.60	74.51	74.45	74.31	74.37	
17	74.20	74.34	74.53	74.65	74.86	74.88	74.68	74.59	74.52	74.45	74.31	74.37	
18	74.20	74.33	74.54	74.62	74.96	74.80	74.68	74.59	74.51	74.47	74.31	74.37	
19	74.20	74.33	74.54	74.59	74.86	74.79	74.68	74.58	74.51	74.47	74.31	74.37	
20	74.20	74.34	74.53	74.57	74.99	75.00	74.67	74.58	74.51	74.48	74.30	74.37	
21	74.20	74.40	74.54	74.56	75.15	75.78	74.66	74.57	74.50	74.45	74.30	74.37	
22	74.20	74.38	74.50	74.55	75.17	75.78	74.66	74.57	74.50	74.43	74.30	74.37	
23	74.21	74.39	74.46	74.53	75.25	75.27	74.66	74.57	74.50	74.42	74.30	74.37	
24	74.20	74.50	74.78	74.53	75.04	75.04	74.65	74.56	74.50	74.41	74.30	74.37	
25	74.20	74.48	74.74	74.55	75.13	74.93	74.65	74.56	74.50	74.40	74.30	74.37	
26	74.20	74.45	74.63	74.58	75.16	74.86	74.66	74.56	74.49	74.38	74.30	74.37	
27	74.20	74.42	74.63	74.58	75.43	74.81	74.64	74.55	74.49	74.37	74.30	74.37	
28	74.20	74.40	74.60	74.58	75.21	74.79	74.64	74.54	74.49	74.36	74.30	74.37	
29	74.20	74.42	74.58	74.56	75.03	74.76	74.63	74.54	74.49	74.35	74.29	74.37	
30	74.20	74.46	74.62	74.55	74.97	74.74	74.63	74.54	74.49	74.34	74.30	74.37	
31		74.43		74.56	75.11		74.63		74.49	74.33		74.37	
Mean	74.22	74.32	74.51	74.62	75.06	75.08	74.69	74.59	74.51	74.44	74.33	74.36	
Max	74.34	74.50	74.78	74.87	75.95	75.78	74.79	74.65	74.53	74.48	74.42	74.37	75.95
Min	74.20	74.20	74.33	74.53	74.60	74.74	74.63	74.54	74.49	74.33	74.29	74.29	74.20
Annual Max Momentary Gage Height	76.27		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	73.70		m. (MSL.) ,			River Bed	73.39	m. (MSL.)					
Left Bank Elevation		82.04	m. (MSL.) ,										
Right Bank Elevation		82.05	m. (MSL.) ,			Drainage Are	128	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.00	0.16	1.52	1.10	7.45	1.94	1.22	0.68	0.44	0.06	0.00	
2	0.02	0.00	0.14	1.28	1.78	8.08	1.78	1.28	0.68	0.44	0.20	0.00	
3	0.00	0.00	0.10	1.34	1.78	8.08	1.70	1.40	0.68	0.44	0.26	0.00	
4	0.00	0.00	0.06	3.20	2.26	10.45	1.78	1.40	0.68	0.44	0.20	0.00	
5	0.00	0.00	0.26	1.78	4.86	8.35	1.70	1.28	0.62	0.41	0.16	0.06	
6	0.00	0.00	0.18	1.46	18.65	7.70	2.34	1.22	0.62	0.41	0.14	0.14	
7	0.00	0.00	0.12	1.78	7.20	9.25	1.78	1.22	0.62	0.41	0.14	0.14	
8	0.00	0.00	0.12	1.58	5.34	6.58	2.42	1.22	0.56	0.38	0.12	0.14	
9	0.00	0.00	0.56	1.40	3.80	5.22	1.86	1.16	0.56	0.35	0.10	0.14	
10	0.00	0.00	0.62	1.28	2.60	4.10	1.78	1.16	0.56	0.35	0.08	0.14	
11	0.00	0.00	0.44	1.16	3.50	5.70	1.70	1.10	0.56	0.35	0.06	0.14	
12	0.00	0.00	0.47	1.10	8.35	4.10	1.86	1.10	0.56	0.35	0.06	0.14	
13	0.00	0.04	0.56	0.98	9.55	3.40	1.78	1.10	0.56	0.32	0.06	0.14	
14	0.00	0.08	0.62	0.98	7.95	3.10	1.78	1.10	0.62	0.35	0.04	0.14	
15	0.00	0.10	0.62	1.04	4.10	4.10	1.86	1.16	0.62	0.35	0.04	0.14	
16	0.00	0.10	0.62	2.02	3.20	3.60	1.64	1.10	0.56	0.35	0.02	0.14	
17	0.00	0.08	0.68	1.40	3.10	3.30	1.58	1.04	0.62	0.35	0.02	0.14	
18	0.00	0.06	0.74	1.22	4.10	2.50	1.58	1.04	0.56	0.41	0.02	0.14	
19	0.00	0.06	0.74	1.04	3.10	2.42	1.58	0.98	0.56	0.41	0.02	0.14	
20	0.00	0.08	0.68	0.92	4.40	4.50	1.52	0.98	0.56	0.44	0.00	0.14	
21	0.00	0.20	0.74	0.86	6.33	15.58	1.46	0.92	0.50	0.35	0.00	0.14	
22	0.00	0.16	0.50	0.80	6.58	15.58	1.46	0.92	0.50	0.29	0.00	0.14	
23	0.00	0.18	0.38	0.68	7.58	7.83	1.46	0.92	0.50	0.26	0.00	0.14	
24	0.00	0.50	2.34	0.68	4.98	4.98	1.40	0.86	0.50	0.23	0.00	0.14	
25	0.00	0.44	2.02	0.80	6.08	3.80	1.40	0.86	0.50	0.20	0.00	0.14	
26	0.00	0.35	1.28	0.98	6.45	3.10	1.46	0.86	0.47	0.16	0.00	0.14	
27	0.00	0.26	1.28	0.98	10.15	2.60	1.34	0.80	0.47	0.14	0.00	0.14	
28	0.00	0.20	1.10	0.98	7.08	2.42	1.34	0.74	0.47	0.12	0.00	0.14	
29	0.00	0.26	0.98	0.86	4.86	2.18	1.28	0.74	0.47	0.10	0.00	0.14	
30	0.00	0.38	1.22	0.80	4.20	2.02	1.28	0.74	0.47	0.08	0.00	0.14	
31	0.00	0.29	0.68	0.86	5.83	4.50	1.28	0.47	0.47	0.06	0.00	0.14	
Total	0.10	3.82	20.33	37.76	170.84	172.07	51.12	31.62	17.36	9.74	1.80	3.70	520.26 CMSDAY
Mean	0.00	0.12	0.68	1.22	5.51	5.74	1.65	1.05	0.56	0.31	0.06	0.12	1.42 CMS
Max	0.08	0.50	2.34	3.20	18.65	15.58	2.42	1.40	0.68	0.44	0.26	0.14	18.65 CMS
Min	0.00	0.00	0.06	0.68	1.10	2.02	1.28	0.74	0.47	0.06	0.00	0.00	0.00 CMS
Runoff	0.01	0.33	1.76	3.26	14.76	14.87	4.42	2.73	1.50	0.84	0.16	0.32	44.95 MCM
Momentary Peak	25.24	CMS.	at 76.27 m. (MSL.)	at 15.00 Hours	on Aug 6, 2019								
Runoff Yield	11.14	Liters/Second/Square KM.		Momentary Peak Yield	197.19	Liters/Second/Square KM.							

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

Lam Phachi at Ban Dan Thaptako , Ratchaburi (K.61)

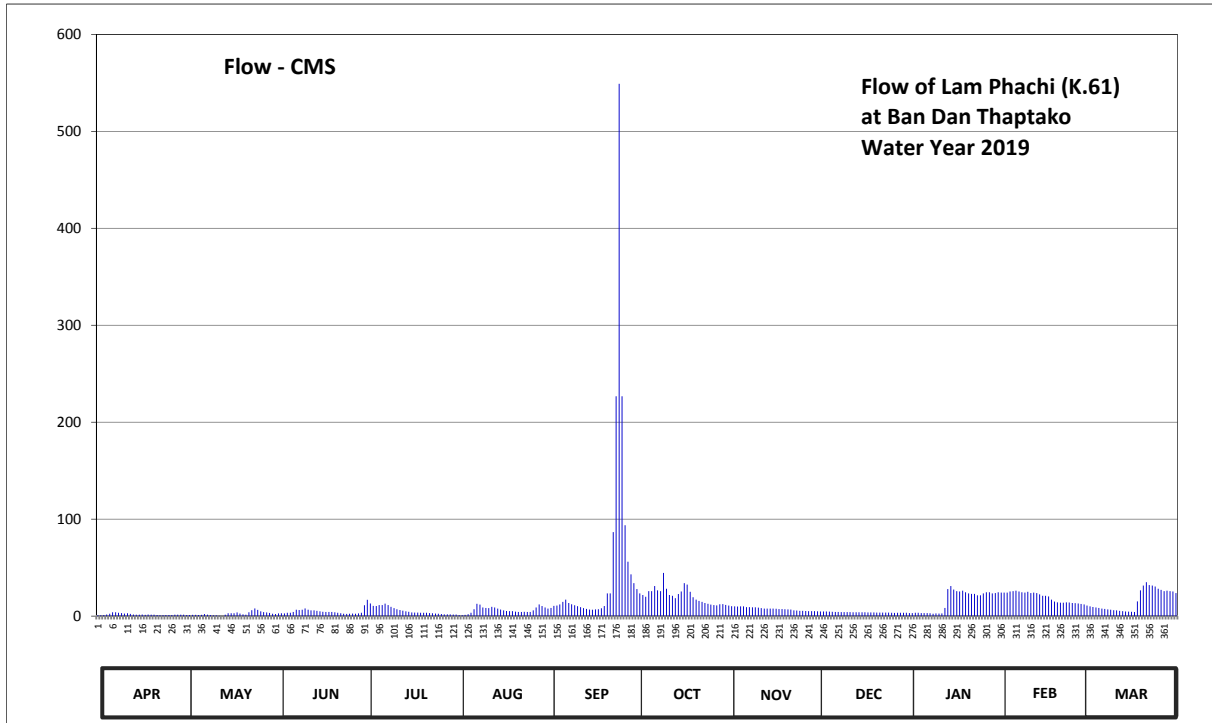
Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

Location : on right bank at the bridge on highway.

	<b>Ban Dan Thaptako</b>	<b>Amphoe Chom Bung</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	1,844 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+64.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+71.913 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

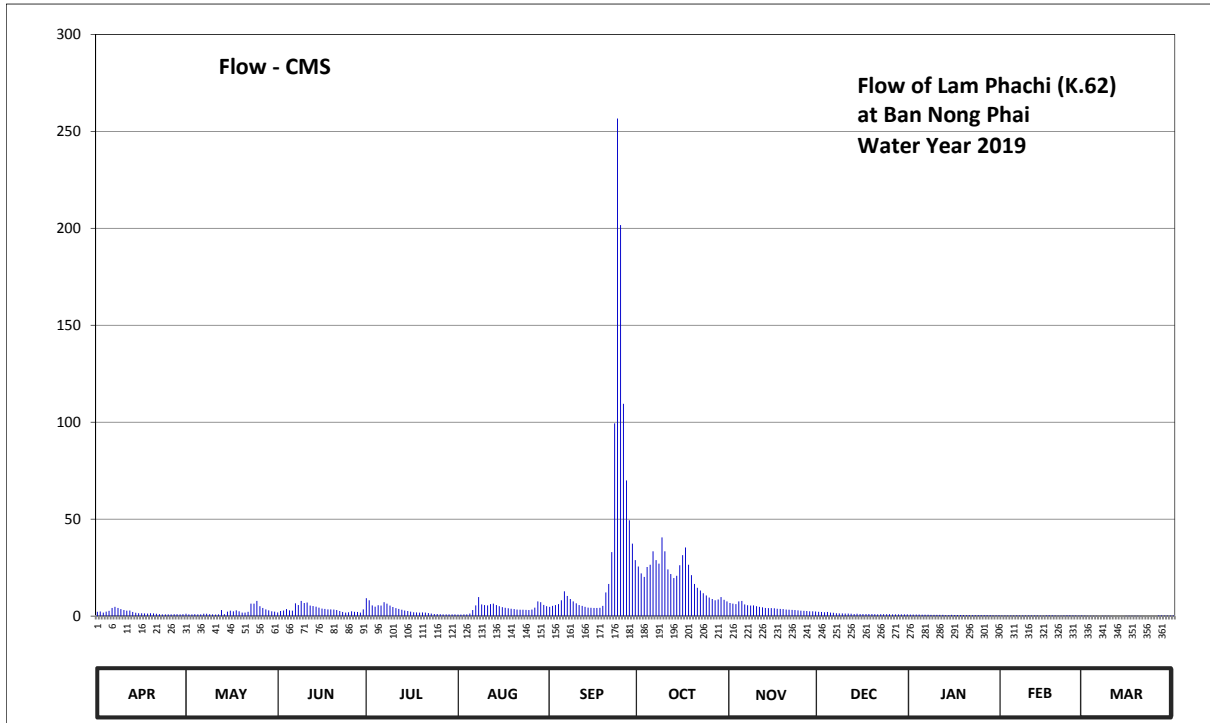
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.80	64.83	64.99	65.89	64.82	65.41	66.11	65.53	65.15	65.02	66.13	65.57	
2	64.80	64.83	65.00	65.70	64.82	65.55	66.06	65.52	65.15	65.04	66.13	65.52	
3	64.83	64.85	64.99	65.55	64.86	65.57	66.00	65.51	65.15	65.04	66.16	65.48	
4	64.89	64.85	65.05	65.54	64.92	65.64	66.17	65.52	65.14	65.02	66.17	65.45	
5	64.96	64.84	65.04	65.60	65.05	65.78	66.17	65.52	65.13	65.02	66.18	65.41	
6	65.09	64.85	65.11	65.60	65.32	65.90	66.30	65.47	65.11	65.02	66.16	65.37	
7	65.09	64.93	65.28	65.69	65.68	65.73	66.19	65.47	65.11	65.00	66.14	65.34	
8	65.05	64.87	65.26	65.60	65.63	65.65	66.17	65.46	65.10	64.97	66.13	65.31	
9	65.02	64.83	65.28	65.49	65.45	65.59	66.55	65.46	65.10	64.99	66.15	65.28	
10	64.98	64.80	65.38	65.40	65.41	65.53	66.23	65.43	65.10	64.98	66.12	65.25	
11	65.00	64.79	65.29	65.32	65.40	65.47	66.06	65.40	65.10	64.99	66.13	65.23	
12	64.95	64.73	65.24	65.26	65.49	65.40	66.03	65.37	65.09	65.41	66.12	65.20	
13	64.90	64.70	65.23	65.21	65.45	65.34	65.95	65.36	65.09	66.22	66.08	65.18	
14	64.88	64.88	65.20	65.16	65.37	65.30	66.09	65.36	65.09	66.30	66.03	65.15	
15	64.88	65.01	65.16	65.12	65.30	65.29	66.16	65.37	65.09	66.21	66.03	65.14	
16	64.90	65.00	65.13	65.08	65.24	65.31	66.36	65.35	65.09	66.17	66.01	65.13	
17	64.86	65.00	65.11	65.06	65.19	65.32	66.33	65.33	65.08	66.16	65.90	65.11	
18	64.89	65.07	65.11	65.06	65.17	65.39	66.15	65.33	65.07	66.18	65.80	65.81	
19	64.88	64.98	65.11	65.05	65.17	65.54	65.98	65.32	65.07	66.14	65.76	66.19	
20	64.87	64.91	65.09	65.05	65.14	66.11	65.90	65.31	65.06	66.11	65.74	66.31	
21	64.84	64.87	65.05	65.05	65.11	66.11	65.83	65.30	65.06	66.10	65.74	66.38	
22	64.81	65.09	65.00	65.02	65.11	67.01	65.78	65.24	65.06	66.10	65.76	66.32	
23	64.82	65.25	64.96	65.00	65.12	67.87	65.73	65.22	65.06	66.05	65.75	66.31	
24	64.83	65.38	64.95	64.98	65.11	69.25	65.68	65.20	65.06	66.05	65.73	66.29	
25	64.83	65.27	64.96	64.97	65.11	67.87	65.63	65.20	65.05	66.11	65.72	66.23	
26	64.84	65.16	64.98	64.93	65.23	67.08	65.60	65.19	65.03	66.14	65.70	66.20	
27	64.88	65.10	64.97	64.91	65.44	66.71	65.58	65.18	65.04	66.14	65.67	66.17	
28	64.87	65.07	64.99	64.91	65.64	66.53	65.65	65.18	65.04	66.11	65.64	66.18	
29	64.87	65.03	65.04	64.91	65.54	66.36	65.66	65.18	65.05	66.12	65.61	66.17	
30	64.88	64.97	65.59	64.90	65.44	66.22	65.61	65.16	65.04	66.14	66.14	66.16	
31		64.93		64.89	65.36		65.57		65.02	66.13		66.12	
Mean	64.90	64.96	65.12	65.22	65.26	66.06	65.98	65.35	65.08	65.72	65.94	65.71	
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	69.84		m. (MSL.) ,				at 10.00 Hours , on Sep 24 , 2019						
Zero Gage at Bottom Elevation	64.70		m. (MSL.) ,			River Bed	64.23	m. (MSL.)					
Left Bank Elevation		82.04		m. (MSL.) ,									
Right Bank Elevation		82.05		m. (MSL.) ,		Drainage Are	1,844	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.85	1.11	2.78	16.80	1.02	8.40	23.40	10.20	4.78	3.14	24.20	10.86		
2	0.85	1.11	2.90	13.00	1.02	10.53	21.80	10.03	4.78	3.38	24.20	10.03		
3	1.11	1.28	2.78	10.53	1.36	10.86	20.00	9.87	4.78	3.38	25.40	9.41		
4	1.62	1.28	3.50	10.36	1.94	12.01	25.80	10.03	4.64	3.14	25.80	8.98		
5	2.42	1.19	3.38	11.35	3.50	14.60	25.80	10.03	4.51	3.14	26.20	8.40		
6	3.98	1.28	4.24	11.35	7.09	17.00	31.00	9.27	4.24	3.14	25.40	7.82		
7	3.98	2.06	6.53	12.84	12.67	13.60	26.60	9.27	4.24	2.90	24.60	7.38		
8	3.50	1.45	6.26	11.35	11.85	12.18	25.80	9.12	4.10	2.54	24.20	6.95		
9	3.14	1.11	6.53	9.56	8.98	11.19	44.50	9.12	4.10	2.78	25.00	6.53		
10	2.66	0.85	7.96	8.25	8.40	10.20	28.20	8.69	4.10	2.66	23.80	6.13		
11	2.90	0.77	6.67	7.09	8.25	9.27	21.80	8.25	4.10	2.78	24.20	5.86		
12	2.30	0.26	5.99	6.26	9.56	8.25	20.90	7.82	3.98	8.40	23.80	5.45		
13	1.70	0.00	5.86	5.59	8.98	7.38	18.50	7.67	3.98	27.80	22.40	5.18		
14	1.53	1.53	5.45	4.91	7.82	6.80	22.70	7.67	3.98	31.00	20.90	4.78		
15	1.53	3.02	4.91	4.37	6.80	6.67	25.40	7.82	3.98	27.40	20.90	4.64		
16	1.70	2.90	4.51	3.86	5.99	6.95	34.00	7.53	3.98	25.80	20.30	4.51		
17	1.36	2.90	4.24	3.62	5.32	7.09	32.50	7.24	3.86	25.40	17.00	4.24		
18	1.62	3.74	4.24	3.62	5.05	8.11	25.00	7.24	3.74	26.20	15.00	15.20		
19	1.53	2.66	4.24	3.50	5.05	10.36	19.40	7.09	3.74	24.60	14.20	26.60		
20	1.45	1.82	3.98	3.50	4.64	23.40	17.00	6.95	3.62	23.40	13.80	31.50		
21	1.19	1.45	3.50	3.50	4.24	23.40	15.60	6.80	3.62	23.00	13.80	35.00		
22	0.94	3.98	2.90	3.14	4.24	86.62	14.60	5.99	3.62	23.00	14.20	32.00		
23	1.02	6.13	2.42	2.90	4.37	226.70	13.60	5.72	3.62	21.50	14.00	31.50		
24	1.11	7.96	2.30	2.66	4.24	549.00	12.67	5.45	3.62	21.50	13.60	30.60		
25	1.11	6.40	2.42	2.54	4.24	226.70	11.85	5.45	3.50	23.40	13.40	28.20		
26	1.19	4.91	2.66	2.06	5.86	93.76	11.35	5.32	3.26	24.60	13.00	27.00		
27	1.53	4.10	2.54	1.82	8.83	56.02	11.02	5.18	3.38	24.60	12.51	25.80		
28	1.45	3.74	2.78	1.82	12.01	43.10	12.18	5.18	3.38	23.40	12.01	26.20		
29	1.45	3.26	3.38	1.82	10.36	34.00	12.34	5.18	3.50	23.80	11.52	25.80		
30	1.53	2.54	11.19	1.70	8.83	27.80	11.52	4.91	3.38	24.60		25.40		
31		2.06		1.62	7.67		10.86		3.14	24.20		23.80		
Total	54.25	78.85	133.04	187.29	200.18	1581.95	647.69	226.09	121.25	510.58	559.34	501.75	4802.26	CMSDAY
Mean	1.81	2.54	4.43	6.04	6.46	52.73	20.89	7.54	3.91	16.47	19.29	16.19	13.12	CMS
Max	3.98	7.96	11.19	16.80	12.67	549.00	44.50	10.20	4.78	31.00	26.20	35.00	549.00	CMS
Min	0.85	0.00	2.30	1.62	1.02	6.67	10.86	4.91	3.14	2.54	11.52	4.24	0.00	CMS
Runoff	4.69	6.81	11.49	16.18	17.30	136.68	55.96	19.53	10.48	44.11	48.33	43.35	414.92	MCM
Momentary Peak	702.40 CMS. at 69.84 m. (MSL.) at 10.00 Hours , on Sep 24 , 2019													
Runoff Yield	7.13 Liters/Second/Square KM.			Momentary Peak Yield				380.91 Liters/Second/Square KM.						





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	1.20	1.90	9.20	0.85	4.80	25.60	6.80	2.20	0.78	0.35	0.25	
2	2.40	0.93	2.60	8.20	0.85	5.30	22.00	6.40	2.10	0.80	0.35	0.18	
3	1.80	0.90	2.90	5.50	0.88	5.70	20.20	6.20	2.00	0.83	0.35	0.15	
4	2.30	0.98	3.60	4.90	0.93	6.20	25.30	7.60	2.10	0.78	0.35	0.18	
5	2.70	0.93	3.00	5.60	1.30	8.20	26.50	7.80	1.80	0.73	0.35	0.13	
6	4.20	0.93	2.80	5.40	3.10	12.80	33.40	6.00	1.70	0.75	0.38	0.03	
7	4.80	1.20	6.60	7.20	5.50	10.40	28.90	5.60	1.50	0.70	0.35	0.20	
8	4.20	1.20	5.70	6.40	9.80	8.80	27.10	5.40	1.40	0.68	0.33	0.20	
9	3.60	0.95	7.80	5.40	6.00	7.60	40.60	5.50	1.40	0.63	0.33	0.15	
10	3.10	0.88	6.80	4.70	5.70	6.60	33.40	5.10	1.30	0.63	0.33	0.10	
11	2.80	0.83	7.00	4.10	5.50	5.70	24.10	4.80	1.30	0.65	0.30	0.00	
12	2.90	0.90	5.40	3.70	6.20	5.30	21.70	4.50	1.20	0.63	0.30	0.00	
13	2.10	3.10	5.20	3.30	6.40	4.80	19.60	4.20	1.10	0.48	0.30	0.00	
14	1.70	1.00	4.90	2.90	5.70	4.40	20.80	4.10	1.20	0.50	0.28	0.00	
15	1.50	2.30	4.40	2.60	5.10	4.30	26.20	4.10	1.10	0.63	0.28	0.13	
16	1.50	2.80	3.90	2.30	4.60	4.20	31.40	4.00	1.10	0.60	0.38	0.15	
17	1.40	2.50	3.70	2.00	4.30	4.20	35.40	3.80	1.10	0.58	0.43	0.13	
18	1.30	3.00	3.50	1.90	4.00	4.30	26.50	3.70	1.10	0.58	0.38	0.15	
19	1.50	2.50	3.50	1.80	3.80	5.30	21.10	3.60	1.10	0.58	0.33	0.13	
20	1.40	1.80	3.40	1.90	3.60	12.20	16.60	3.40	1.00	0.53	0.28	0.08	
21	1.20	1.80	3.10	1.80	3.40	16.60	14.60	3.30	0.93	0.50	0.25	0.00	
22	0.98	2.20	2.60	1.60	3.30	33.00	13.20	3.20	0.95	0.50	0.33	0.00	
23	0.90	6.40	2.10	1.30	3.30	99.40	11.80	3.10	0.98	0.48	0.40	0.00	
24	0.90	6.40	1.80	1.10	3.20	256.62	10.60	3.00	0.98	0.45	0.38	0.00	
25	0.90	7.80	2.00	1.10	3.10	201.68	9.60	2.80	0.98	0.48	0.35	0.00	
26	0.90	5.10	2.50	0.98	3.40	109.50	8.80	2.70	0.93	0.50	0.33	0.35	
27	0.98	4.20	2.20	0.93	4.40	70.00	8.20	2.60	0.90	0.50	0.28	0.35	
28	1.00	3.50	2.10	0.93	7.60	49.40	8.60	2.50	0.93	0.45	0.30	0.28	
29	0.93	3.00	1.80	0.90	7.20	37.40	9.80	2.50	0.90	0.40	0.28	0.25	
30	0.98	2.50	3.50	0.88	5.80	28.90	8.40	2.40	0.93	0.38		0.25	
31		2.30		0.88	5.10		7.60		0.90	0.38		0.33	
Total	59.07	76.03	112.30	101.40	133.91	1033.60	637.60	130.70	39.11	18.09	9.63	4.15	2355.59 CMSDAY
Mean	1.97	2.45	3.74	3.27	4.32	34.45	20.57	4.36	1.26	0.58	0.33	0.13	6.44 CMS
Max	4.80	7.80	7.80	9.20	9.80	256.62	40.60	7.80	2.20	0.83	0.43	0.35	256.62 CMS
Min	0.90	0.83	1.80	0.88	0.85	4.20	7.60	2.40	0.90	0.38	0.25	0.00	0.00 CMS
Runoff	5.10	6.57	9.70	8.76	11.57	89.30	55.09	11.29	3.38	1.56	0.83	0.36	203.52 MCM
Momentary Peak	311.00 CMS. at 54.25 m. (MSL.) at 16.00 Hours , on Sep 24 , 2019												
Runoff Yield	3.74 Liters/Second/Square KM.			Momentary Peak Yield				180.29 Liters/Second/Square KM.					

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Prachin Buri River at Ban Kabin Buri , Prachin Buri (Kgt.3)

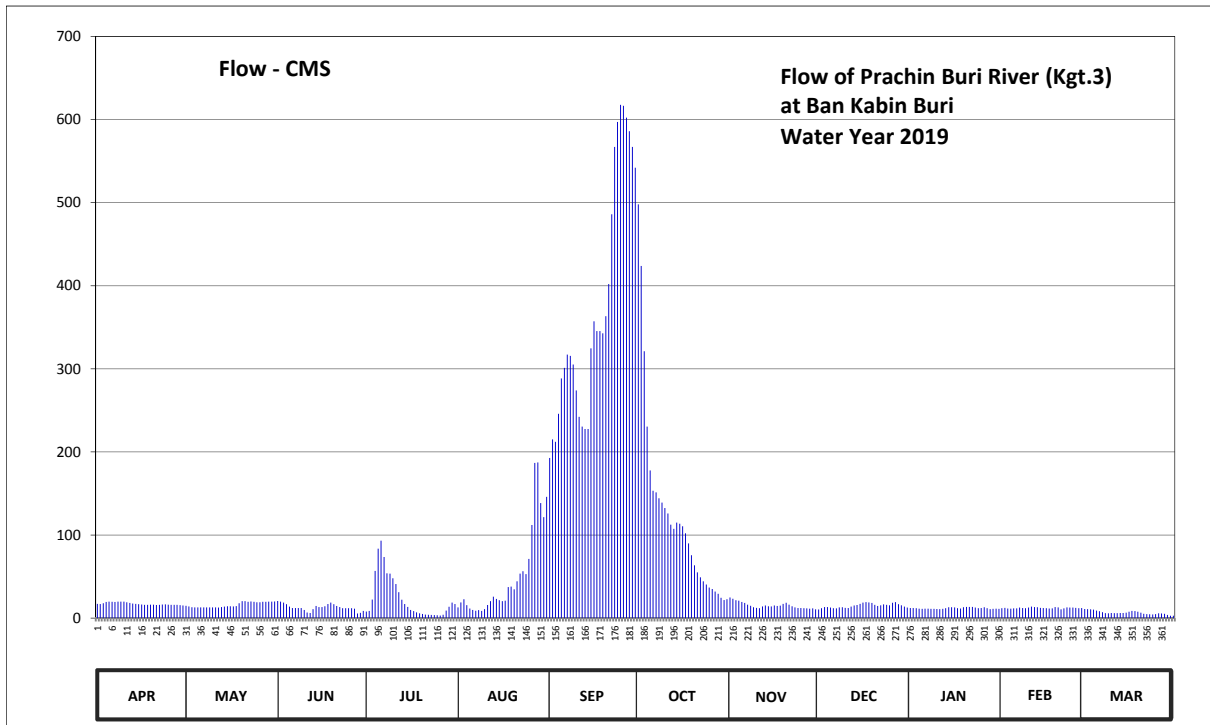
Lat 13 - 59 - 00 N Long 101 - 42 - 26 E

Location : on left bank in front of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Phra Prong.

	<b>Ban Kabin Buri</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	7,425 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 5 meters from the top staff gage.	<b>Elevation</b>	+11.410 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00,12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1941 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1941 - 1943 , 1945, 1964 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1941 - 1943 , 1945, 1964 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 9.670 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 40 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.86	0.74	1.02	0.39	0.64	4.98	8.58	1.16	0.52	0.61	0.60	0.55	
2	0.85	0.70	0.99	0.43	0.94	5.30	7.83	1.11	0.60	0.61	0.62	0.54	
3	0.89	0.65	0.93	1.08	1.09	5.26	6.69	1.05	0.66	0.60	0.58	0.53	
4	0.97	0.64	0.84	2.22	0.78	5.74	5.52	1.03	0.66	0.57	0.57	0.51	
5	0.99	0.64	0.69	2.89	0.58	6.28	4.73	0.97	0.63	0.56	0.59	0.45	
6	0.98	0.64	0.61	3.13	0.49	6.44	4.32	0.91	0.60	0.57	0.59	0.41	
7	0.97	0.64	0.61	2.64	0.44	6.64	4.29	0.81	0.59	0.57	0.63	0.36	
8	0.99	0.64	0.61	2.13	0.48	6.62	4.17	0.74	0.64	0.56	0.61	0.30	
9	0.99	0.64	0.61	2.12	0.43	6.49	4.08	0.65	0.65	0.56	0.60	0.29	
10	0.99	0.64	0.49	1.93	0.54	6.10	3.95	0.62	0.62	0.55	0.63	0.31	
11	0.95	0.64	0.34	1.70	0.79	5.69	3.82	0.60	0.61	0.54	0.69	0.30	
12	0.91	0.63	0.31	1.37	1.01	5.52	3.55	0.70	0.69	0.56	0.66	0.30	
13	0.88	0.66	0.54	1.07	1.19	5.48	3.45	0.76	0.76	0.60	0.65	0.31	
14	0.86	0.69	0.73	0.85	1.10	5.48	3.60	0.71	0.79	0.65	0.62	0.31	
15	0.84	0.71	0.66	0.67	1.05	6.73	3.57	0.70	0.86	0.65	0.61	0.33	
16	0.82	0.71	0.66	0.49	1.01	7.09	3.51	0.76	0.93	0.64	0.60	0.38	
17	0.80	0.70	0.71	0.42	1.03	6.96	3.34	0.73	0.96	0.60	0.58	0.43	
18	0.80	0.72	0.85	0.35	1.58	6.96	3.05	0.75	0.94	0.58	0.59	0.42	
19	0.81	0.89	0.93	0.29	1.60	6.93	2.69	0.86	0.91	0.65	0.66	0.38	
20	0.81	1.01	0.84	0.25	1.49	7.16	2.39	0.92	0.80	0.67	0.64	0.33	
21	0.79	1.01	0.73	0.21	1.81	7.59	2.17	0.81	0.73	0.67	0.53	0.26	
22	0.80	0.98	0.66	0.20	2.12	8.46	1.97	0.71	0.77	0.67	0.59	0.24	
23	0.82	1.00	0.60	0.19	2.21	9.27	1.81	0.64	0.83	0.63	0.64	0.23	
24	0.83	0.98	0.60	0.18	2.10	9.57	1.68	0.61	0.80	0.60	0.63	0.22	
25	0.81	0.95	0.60	0.17	2.58	9.76	1.56	0.61	0.77	0.61	0.63	0.24	
26	0.80	0.95	0.60	0.15	3.54	9.75	1.50	0.60	0.92	0.65	0.62	0.29	
27	0.80	0.98	0.57	0.20	4.88	9.62	1.40	0.59	0.96	0.60	0.60	0.28	
28	0.80	0.98	0.28	0.45	4.89	9.46	1.31	0.57	0.84	0.54	0.61	0.26	
29	0.78	0.99	0.32	0.68	4.07	9.27	1.15	0.59	0.77	0.56	0.60	0.19	
30	0.76	0.99	0.43	0.93	3.73	9.02	1.06	0.53	0.69	0.57	0.57	0.14	
31		1.00		0.85	4.20		1.09		0.63	0.56		0.14	
Mean	0.86	0.80	0.65	0.99	1.75	7.19	3.35	0.76	0.75	0.60	0.61	0.33	
Max	0.99	1.01	1.02	3.13	4.89	9.76	8.58	1.16	0.96	0.67	0.69	0.55	9.76
Min	0.76	0.63	0.28	0.15	0.43	4.98	1.06	0.53	0.52	0.54	0.53	0.14	0.14
Annual Max Momentary Gage Height	9.80		m. (MSL.) ,				at 19.00 Hours, on Sep 25, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -1.38		m. (MSL.)				
Left Bank Elevation		10.29		m. (MSL.) ,									
Right Bank Elevation		9.66		m. (MSL.) ,		Drainage Are	7,425		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.20	14.80	20.60	7.80	12.80	192.80	498.00	24.80	10.40	12.20	12.00	11.00	
2	17.00	14.00	19.80	8.60	18.80	215.00	423.70	23.30	12.00	12.20	12.40	10.80	
3	17.80	13.00	18.60	22.40	22.70	212.20	321.20	21.50	13.20	12.00	11.60	10.60	
4	19.40	12.80	16.80	56.80	15.60	245.80	230.40	20.90	13.20	11.40	11.40	10.20	
5	19.80	12.80	13.80	83.60	11.60	288.40	177.80	19.40	12.60	11.20	11.80	9.00	
6	19.60	12.80	12.20	93.20	9.80	301.20	153.20	18.20	12.00	11.40	11.80	8.20	
7	19.40	12.80	12.20	73.60	8.80	317.20	151.40	16.20	11.80	11.40	12.60	7.20	
8	19.80	12.80	12.20	53.90	9.60	315.60	144.20	14.80	12.80	11.20	12.20	6.00	
9	19.80	12.80	12.20	53.60	8.60	305.20	139.00	13.00	13.00	11.20	12.00	5.80	
10	19.80	12.80	9.80	47.90	10.80	274.00	132.50	12.40	12.40	11.00	12.60	6.20	
11	19.00	12.80	6.80	41.00	15.80	242.30	126.00	12.00	12.20	10.80	13.80	6.00	
12	18.20	12.60	6.20	31.10	20.30	230.40	112.50	14.00	13.80	11.20	13.20	6.00	
13	17.60	13.20	10.80	22.10	25.70	227.60	107.50	15.20	15.20	12.00	13.00	6.20	
14	17.20	13.80	14.60	17.00	23.00	227.60	115.00	14.20	15.80	13.00	12.40	6.20	
15	16.80	14.20	13.20	13.40	21.50	324.70	113.50	14.00	17.20	13.00	12.20	6.60	
16	16.40	14.20	13.20	9.80	20.30	357.10	110.50	15.20	18.60	12.80	12.00	7.60	
17	16.00	14.00	14.20	8.40	20.90	345.40	102.00	14.60	19.20	12.00	11.60	8.60	
18	16.00	14.40	17.00	7.00	37.40	345.40	90.00	15.00	18.80	11.60	11.80	8.40	
19	16.20	17.80	18.60	5.80	38.00	342.70	75.60	17.20	18.20	13.00	13.20	7.60	
20	16.20	20.30	16.80	5.00	34.70	363.40	63.60	18.40	16.00	13.40	12.80	6.60	
21	15.80	20.30	14.60	4.20	44.30	402.10	55.10	16.20	14.60	13.40	10.60	5.20	
22	16.00	19.60	13.20	4.00	53.60	486.00	49.10	14.20	15.40	13.40	11.80	4.80	
23	16.40	20.00	12.00	3.80	56.40	567.00	44.30	12.80	16.60	12.60	12.80	4.60	
24	16.60	19.60	12.00	3.60	53.00	597.00	40.40	12.20	16.00	12.00	12.60	4.40	
25	16.20	19.00	12.00	3.40	71.20	617.60	36.80	12.20	15.40	12.20	12.60	4.80	
26	16.00	19.00	12.00	3.00	112.00	616.50	35.00	12.00	18.40	13.00	12.40	5.80	
27	16.00	19.60	11.40	4.00	186.80	602.20	32.00	11.80	19.20	12.00	12.00	5.60	
28	16.00	19.60	5.60	9.00	187.40	586.00	29.30	11.40	16.80	10.80	12.20	5.20	
29	15.60	19.80	6.40	13.60	138.50	567.00	24.50	11.80	15.40	11.20	12.00	3.80	
30	15.20	19.80	8.60	18.60	121.50	542.00	21.80	10.60	13.80	11.40		2.80	
31		20.00		17.00	146.00		22.70		12.60	11.20		2.80	
Total	519.00	495.00	387.40	746.20	1557.40	11257.40	3778.60	459.50	462.60	371.20	355.40	204.60	20594.30 CMSDAY
Mean	17.30	15.97	12.91	24.07	50.24	375.25	121.89	15.32	14.92	11.97	12.26	6.60	56.27 CMS
Max	19.80	20.30	20.60	93.20	187.40	617.60	498.00	24.80	19.20	13.40	13.80	11.00	617.60 CMS
Min	15.20	12.60	5.60	3.00	8.60	192.80	21.80	10.60	10.40	10.80	10.60	2.80	2.80 CMS
Runoff	44.84	42.77	33.47	64.47	134.56	972.64	326.47	39.70	39.97	32.07	30.71	17.68	1779.35 MCM
Momentary Peak		622.00	CMS, at	9.80 m. (MSL.),	at 19.00 Hours, on Sep 25, 2019								
Runoff Yield		7.60	Liters/Second/Square KM.		Momentary Peak Yield	83.78	Liters/Second/Square KM.						



## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Khao Chakan , Sa Kao (Kgt.9)

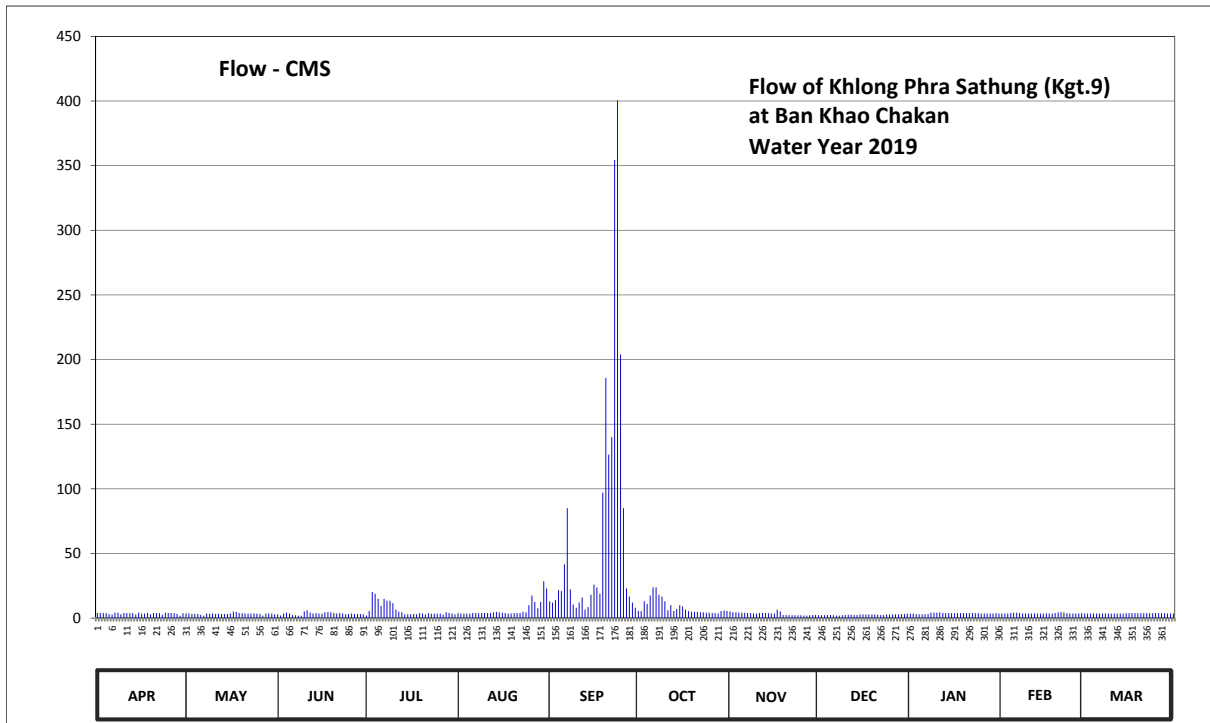
Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

	<b>Ban</b>	<b>Khao Chakan</b>	<b>Amphoe</b>	<b>Khao Chakan</b>	<b>Changwat</b>	<b>Sa Kao</b>
<b>Drainage Area</b>	2,264	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+39.566	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 10 meters from the automatic gage building.				<b>Elevation</b>	+50.745 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1972 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1972 - 1987 , 1989 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1972 - 1987 , 1989 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records very good. Stage-discharge relation defined by 29 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.30	43.28	43.24	43.20	43.29	43.54	43.38	43.36	43.22	43.27	43.28	43.28	
2	43.30	43.28	43.20	43.38	43.27	43.52	43.37	43.33	43.21	43.27	43.28	43.28	
3	43.30	43.26	43.28	43.66	43.27	43.56	43.54	43.32	43.21	43.25	43.28	43.28	
4	43.29	43.26	43.31	43.64	43.27	43.68	43.50	43.31	43.22	43.25	43.30	43.28	
5	43.25	43.26	43.27	43.58	43.27	43.67	43.62	43.31	43.22	43.25	43.31	43.28	
6	43.24	43.23	43.22	43.47	43.30	43.91	43.71	43.31	43.21	43.25	43.31	43.28	
7	43.31	43.20	43.21	43.58	43.29	44.15	43.71	43.30	43.20	43.26	43.30	43.28	
8	43.31	43.28	43.19	43.55	43.29	43.69	43.63	43.29	43.20	43.31	43.28	43.28	
9	43.25	43.27	43.18	43.55	43.30	43.49	43.61	43.28	43.21	43.31	43.28	43.28	
10	43.30	43.27	43.36	43.51	43.30	43.44	43.54	43.28	43.22	43.31	43.28	43.27	
11	43.30	43.26	43.40	43.41	43.30	43.52	43.40	43.30	43.23	43.32	43.28	43.28	
12	43.29	43.27	43.31	43.35	43.30	43.60	43.48	43.30	43.23	43.30	43.28	43.28	
13	43.29	43.26	43.28	43.33	43.33	43.41	43.38	43.30	43.22	43.29	43.28	43.28	
14	43.24	43.26	43.29	43.25	43.34	43.45	43.42	43.29	43.22	43.29	43.28	43.27	
15	43.31	43.26	43.28	43.25	43.32	43.63	43.48	43.28	43.24	43.29	43.28	43.29	
16	43.27	43.28	43.27	43.25	43.31	43.74	43.46	43.28	43.24	43.29	43.28	43.29	
17	43.27	43.36	43.33	43.26	43.30	43.71	43.41	43.41	43.24	43.29	43.28	43.29	
18	43.30	43.34	43.33	43.25	43.28	43.64	43.37	43.36	43.24	43.29	43.28	43.29	
19	43.25	43.30	43.32	43.29	43.28	44.19	43.35	43.22	43.24	43.29	43.30	43.29	
20	43.29	43.29	43.30	43.28	43.29	45.83	43.34	43.22	43.24	43.29	43.32	43.29	
21	43.30	43.28	43.28	43.24	43.30	44.77	43.34	43.22	43.23	43.29	43.33	43.29	
22	43.29	43.27	43.30	43.29	43.29	45.04	43.33	43.21	43.22	43.29	43.32	43.29	
23	43.23	43.27	43.28	43.27	43.34	48.13	43.32	43.21	43.22	43.29	43.29	43.29	
24	43.31	43.28	43.25	43.27	43.32	48.65	43.31	43.21	43.24	43.29	43.28	43.29	
25	43.30	43.27	43.26	43.27	43.48	46.13	43.31	43.21	43.24	43.28	43.28	43.30	
26	43.30	43.26	43.28	43.27	43.62	44.15	43.30	43.20	43.24	43.28	43.28	43.29	
27	43.29	43.20	43.26	43.23	43.53	43.70	43.29	43.20	43.25	43.28	43.28	43.29	
28	43.26	43.28	43.26	43.32	43.43	43.61	43.28	43.21	43.24	43.28	43.29	43.29	
29	43.19	43.28	43.26	43.30	43.53	43.52	43.37	43.22	43.26	43.28	43.29	43.28	
30	43.29	43.27	43.25	43.28	43.78	43.44	43.39	43.22	43.26	43.29	43.28	43.28	
31		43.25		43.24	43.70		43.38		43.27	43.28		43.28	
Mean	43.28	43.27	43.27	43.36	43.36	44.22	43.43	43.27	43.23	43.28	43.29	43.28	
Max	43.31	43.36	43.40	43.66	43.78	48.65	43.71	43.41	43.27	43.32	43.33	43.30	48.65
Min	43.19	43.20	43.18	43.20	43.27	43.41	43.28	43.20	43.20	43.25	43.28	43.27	43.18
Annual Max Momentary Gage Height	48.82		m. (MSL.) ,				at 18.00 Hours, on Sep 24, 2019						
Zero Gage at Bottom Elevation	39.57		m. (MSL.) ,			River Bed	38.84	m. (MSL.)					
Left Bank Elevation	50.69		m. (MSL.) ,										
Right Bank Elevation	50.62		m. (MSL.) ,			Drainage Are	2,264	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	3.60	2.80	2.00	3.80	13.00	5.60	5.20	2.40	3.40	3.60	3.60	
2	4.00	3.60	2.00	5.60	3.40	12.00	5.40	4.60	2.20	3.40	3.60	3.60	
3	4.00	3.20	3.60	20.20	3.40	14.00	13.00	4.40	2.20	3.00	3.60	3.60	
4	3.80	3.20	4.20	18.80	3.40	21.60	11.00	4.20	2.40	3.00	4.00	3.60	
5	3.00	3.20	3.40	15.00	3.40	20.90	17.40	4.20	2.40	3.00	4.20	3.60	
6	2.80	2.60	2.40	9.50	4.00	41.56	23.70	4.20	2.20	3.00	4.20	3.60	
7	4.20	2.00	2.20	15.00	3.80	85.00	23.70	4.00	2.00	3.20	4.00	3.60	
8	4.20	3.60	1.90	13.50	3.80	22.30	18.10	3.80	2.00	4.20	3.60	3.60	
9	3.00	3.40	1.80	13.50	4.00	10.50	16.70	3.60	2.20	4.20	3.60	3.60	
10	4.00	3.40	5.20	11.50	4.00	8.00	13.00	3.60	2.40	4.20	3.60	3.40	
11	4.00	3.20	6.00	6.50	4.00	12.00	6.00	4.00	2.60	4.40	3.60	3.60	
12	3.80	3.40	4.20	5.00	4.00	16.00	10.00	4.00	2.60	4.00	3.60	3.60	
13	3.80	3.20	3.60	4.60	4.60	6.50	5.60	4.00	2.40	3.80	3.60	3.60	
14	2.80	3.20	3.80	3.00	4.80	8.50	7.00	3.80	2.40	3.80	3.60	3.40	
15	4.20	3.20	3.60	3.00	4.40	18.10	10.00	3.60	2.80	3.80	3.60	3.80	
16	3.40	3.60	3.40	3.00	4.20	25.80	9.00	3.60	2.80	3.80	3.60	3.80	
17	3.40	5.20	4.60	3.20	4.00	23.70	6.50	6.50	2.80	3.80	3.60	3.80	
18	4.00	4.80	4.60	3.00	3.60	18.80	5.40	5.20	2.80	3.80	3.60	3.80	
19	3.00	4.00	4.40	3.80	3.60	97.00	5.00	2.40	2.80	3.80	4.00	3.80	
20	3.80	3.80	4.00	3.60	3.80	185.80	4.80	2.40	2.80	3.80	4.40	3.80	
21	4.00	3.60	3.60	2.80	4.00	126.50	4.80	2.40	2.60	3.80	4.60	3.80	
22	3.80	3.40	4.00	3.80	3.80	140.00	4.60	2.20	2.40	3.80	4.40	3.80	
23	2.60	3.40	3.60	3.40	4.80	354.45	4.40	2.20	2.40	3.80	3.80	3.80	
24	4.20	3.60	3.00	3.40	4.40	400.50	4.20	2.20	2.80	3.80	3.60	3.80	
25	4.00	3.40	3.20	3.40	10.00	203.80	4.20	2.20	2.80	3.60	3.60	4.00	
26	4.00	3.20	3.60	3.40	17.40	85.00	4.00	2.00	2.80	3.60	3.60	3.80	
27	3.80	2.00	3.20	2.60	12.50	23.00	3.80	2.00	3.00	3.60	3.60	3.80	
28	3.20	3.60	3.20	4.40	7.50	16.70	3.60	2.20	2.80	3.60	3.80	3.80	
29	1.90	3.60	3.20	4.00	12.50	12.00	5.40	2.40	3.20	3.60	3.80	3.60	
30	3.80	3.40	3.00	3.60	28.60	8.00	5.80	2.40	3.20	3.80		3.60	
31		3.00		2.80	23.00		5.60		3.40	3.60		3.60	
<b>Total</b>	108.50	105.60	105.30	200.90	206.50	2031.01	267.30	103.50	80.60	114.00	110.00	114.20	3547.41 CMSDAY
<b>Mean</b>	3.62	3.41	3.51	6.48	6.66	67.70	8.62	3.45	2.60	3.68	3.79	3.68	9.69 CMS
<b>Max</b>	4.20	5.20	6.00	20.20	28.60	400.50	23.70	6.50	3.40	4.40	4.60	4.00	400.50 CMS
<b>Min</b>	1.90	2.00	1.80	2.00	3.40	6.50	3.60	2.00	2.00	3.00	3.60	3.40	1.80 CMS
<b>Runoff</b>	9.37	9.12	9.10	17.36	17.84	175.48	23.09	8.94	6.96	9.85	9.50	9.87	306.50 MCM
<b>Momentary Peak</b>	415.80	CMS, at 48.82 m. (MSL), at 18.00 Hours, on Sep 24, 2019											
<b>Runoff Yield</b>	4.29	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		183.70	Liters/Second/Square KM.						

**WATER YEAR : 2019****PRACHIN BURI RIVER BASIN****Khlong Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)**

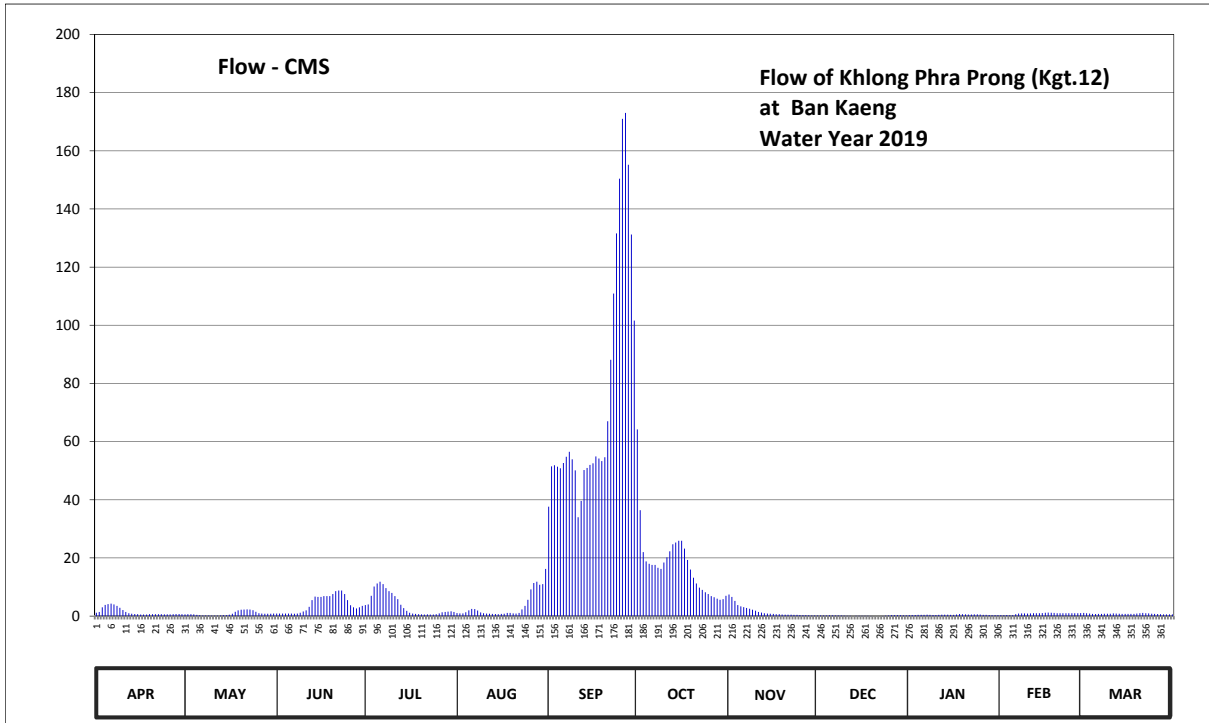
Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	<b>Ban Kaeng</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	1,478 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+13.835 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank in front of the gage observer's house.	<b>Elevation</b>	+23.522 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1966 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 22.440 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 65 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.33	15.11	15.25	15.86	15.31	17.34	19.06	16.22	14.92	14.96	14.95	15.32	
2	15.39	15.12	15.25	15.90	15.27	17.90	17.31	16.16	14.91	14.98	14.97	15.30	
3	15.70	15.13	15.24	16.20	15.27	17.98	16.90	16.02	14.91	14.98	14.98	15.25	
4	15.87	15.09	15.23	16.36	15.36	17.88	16.79	15.86	14.91	15.02	14.97	15.19	
5	15.91	15.01	15.23	16.41	15.50	17.77	16.75	15.77	14.93	15.03	14.96	15.16	
6	15.93	14.95	15.23	16.44	15.59	18.13	16.73	15.71	14.93	15.03	15.13	15.17	
7	15.90	14.90	15.22	16.40	15.58	18.38	16.73	15.66	14.91	15.04	15.23	15.18	
8	15.80	14.90	15.25	16.33	15.48	18.55	16.68	15.61	14.90	15.02	15.27	15.21	
9	15.67	14.90	15.33	16.28	15.35	18.29	16.66	15.54	14.90	15.00	15.26	15.22	
10	15.52	14.89	15.42	16.25	15.29	17.62	16.77	15.47	14.88	15.00	15.25	15.21	
11	15.39	14.89	15.50	16.19	15.25	17.25	16.84	15.39	14.86	15.03	15.26	15.26	
12	15.29	14.89	15.74	16.08	15.22	17.39	16.91	15.34	14.84	15.05	15.28	15.25	
13	15.21	14.90	16.05	15.88	15.19	17.64	16.99	15.29	14.81	15.05	15.30	15.22	
14	15.16	14.95	16.17	15.65	15.16	17.79	17.01	15.25	14.86	15.04	15.30	15.19	
15	15.13	14.96	16.16	15.46	15.13	18.00	17.03	15.21	14.86	15.03	15.31	15.19	
16	15.08	15.05	16.16	15.33	15.18	18.11	17.03	15.17	14.86	15.02	15.33	15.17	
17	15.07	15.22	16.19	15.24	15.22	18.39	16.94	15.14	14.84	15.08	15.34	15.17	
18	15.08	15.40	16.19	15.17	15.32	18.32	16.81	15.12	14.84	15.15	15.33	15.19	
19	15.12	15.49	16.19	15.12	15.32	18.23	16.65	15.08	14.82	15.14	15.32	15.25	
20	15.14	15.54	16.23	15.09	15.26	18.36	16.51	15.05	14.81	15.10	15.29	15.29	
21	15.14	15.55	16.28	15.08	15.24	19.20	16.41	15.05	14.81	15.07	15.28	15.32	
22	15.12	15.56	16.29	15.10	15.32	20.17	16.34	15.05	14.80	15.08	15.28	15.30	
23	15.12	15.55	16.29	15.08	15.56	20.93	16.30	15.03	14.82	15.09	15.28	15.26	
24	15.10	15.51	16.23	15.07	15.80	21.54	16.26	15.02	14.88	15.09	15.28	15.22	
25	15.10	15.40	16.05	15.13	16.06	22.01	16.23	15.00	14.92	15.07	15.28	15.18	
26	15.10	15.28	15.85	15.26	16.31	22.48	16.19	14.97	14.96	15.03	15.28	15.16	
27	15.14	15.23	15.70	15.36	16.42	22.52	16.15	14.95	14.97	15.01	15.29	15.12	
28	15.15	15.20	15.63	15.39	16.44	22.13	16.10	14.93	14.97	14.98	15.31	15.10	
29	15.15	15.20	15.70	15.41	16.39	21.53	16.06	14.92	14.96	14.95	15.32	15.09	
30	15.12	15.22	15.80	15.43	16.40	20.62	16.08	14.91	14.94	14.96	15.32	15.09	
31		15.24		15.38	16.66		16.20		14.93	14.95		15.09	
Mean	15.33	15.17	15.77	15.66	15.58	19.08	16.69	15.33	14.89	15.03	15.23	15.20	
Max	15.93	15.56	16.29	16.44	16.66	22.52	19.06	16.22	14.97	15.15	15.34	15.32	22.52
Min	15.07	14.89	15.22	15.07	15.13	17.25	16.06	14.91	14.80	14.95	14.95	15.09	14.80
Annual Max Momentary Gage Height	22.60		m. (MSL.) ,			at 01.00 Hours, on Sep 27, 2019							
Zero Gage at Bottom Elevation	13.84		m. (MSL.) ,			River Bed	13.29	m. (MSL.)					
Left Bank Elevation		23.50	m. (MSL.) ,										
Right Bank Elevation		22.43	m. (MSL.) ,			Drainage Are	1,478	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.15	0.62	0.90	3.80	1.05	37.60	64.20	7.40	0.24	0.32	0.30	1.10	
2	1.45	0.64	0.90	4.00	0.94	51.50	36.40	6.60	0.22	0.36	0.34	1.00	
3	3.00	0.66	0.88	7.00	0.94	51.90	22.00	5.20	0.22	0.36	0.36	0.90	
4	3.85	0.58	0.86	10.20	1.30	51.40	18.80	3.80	0.22	0.44	0.34	0.78	
5	4.10	0.42	0.86	11.20	2.00	50.85	18.00	3.35	0.26	0.46	0.32	0.72	
6	4.30	0.30	0.86	11.80	2.45	52.65	17.60	3.05	0.26	0.46	0.66	0.74	
7	4.00	0.20	0.84	11.00	2.40	54.80	17.60	2.80	0.22	0.48	0.86	0.76	
8	3.50	0.20	0.90	9.60	1.90	56.50	16.60	2.55	0.20	0.44	0.94	0.82	
9	2.85	0.20	1.15	8.60	1.25	53.90	16.20	2.20	0.20	0.40	0.92	0.84	
10	2.10	0.18	1.60	8.00	0.98	50.10	18.40	1.85	0.16	0.40	0.90	0.82	
11	1.45	0.18	2.00	6.90	0.90	34.00	20.20	1.45	0.12	0.46	0.92	0.92	
12	0.98	0.18	3.20	5.80	0.84	39.60	22.30	1.20	0.08	0.50	0.96	0.90	
13	0.82	0.20	5.50	3.90	0.78	50.20	24.70	0.98	0.02	0.50	1.00	0.84	
14	0.72	0.30	6.70	2.75	0.72	50.95	25.30	0.90	0.12	0.48	1.00	0.78	
15	0.66	0.32	6.60	1.80	0.66	52.00	25.90	0.82	0.12	0.46	1.05	0.78	
16	0.56	0.50	6.60	1.15	0.76	52.55	25.90	0.74	0.12	0.44	1.15	0.74	
17	0.54	0.84	6.90	0.88	0.84	54.90	23.20	0.68	0.08	0.56	1.20	0.74	
18	0.56	1.50	6.90	0.74	1.10	54.20	19.30	0.64	0.08	0.70	1.15	0.78	
19	0.64	1.95	6.90	0.64	1.10	53.30	16.00	0.56	0.04	0.68	1.10	0.90	
20	0.68	2.20	7.60	0.58	0.92	54.60	13.20	0.50	0.02	0.60	0.98	0.98	
21	0.68	2.25	8.60	0.56	0.88	67.00	11.20	0.50	0.02	0.54	0.96	1.10	
22	0.64	2.30	8.80	0.60	1.10	88.10	9.80	0.50	0.00	0.56	0.96	1.00	
23	0.64	2.25	8.80	0.56	2.30	110.90	9.00	0.46	0.04	0.58	0.96	0.92	
24	0.60	2.05	7.60	0.54	3.50	131.60	8.20	0.44	0.16	0.58	0.96	0.84	
25	0.60	1.50	5.50	0.66	5.60	150.40	7.60	0.40	0.24	0.54	0.96	0.76	
26	0.60	0.96	3.75	0.92	9.20	171.00	6.90	0.34	0.32	0.46	0.96	0.72	
27	0.68	0.86	3.00	1.30	11.40	173.00	6.50	0.30	0.34	0.42	0.98	0.64	
28	0.70	0.80	2.65	1.45	11.80	155.20	6.00	0.26	0.34	0.36	1.05	0.60	
29	0.70	0.80	3.00	1.55	10.80	131.20	5.60	0.24	0.32	0.30	1.10	0.58	
30	0.64	0.84	3.50	1.65	11.00	101.60	5.80	0.22	0.28	0.32		0.58	
31		0.88		1.40	16.20		7.00		0.26	0.30		0.58	
<b>Total</b>	44.39	27.66	123.85	121.53	107.61	2287.50	545.40	50.93	5.32	14.46	25.34	25.16	3379.15 CMSDAY
<b>Mean</b>	1.48	0.89	4.13	3.92	3.47	76.25	17.59	1.70	0.17	0.47	0.87	0.81	9.23 CMS
<b>Max</b>	4.30	2.30	8.80	11.80	16.20	173.00	64.20	7.40	0.34	0.70	1.20	1.10	173.00 CMS
<b>Min</b>	0.54	0.18	0.84	0.54	0.66	34.00	5.60	0.22	0.00	0.30	0.30	0.58	0.00 CMS
<b>Runoff</b>	3.84	2.39	10.70	10.50	9.30	197.64	47.12	4.40	0.46	1.25	2.19	2.17	291.96 MCM
<b>Momentary Peak</b>	177.00	CMS, at 22.60 m. (MSL), at 01.00 Hours, on Sep 27, 2019											
<b>Runoff Yield</b>	6.26	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		119.72	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

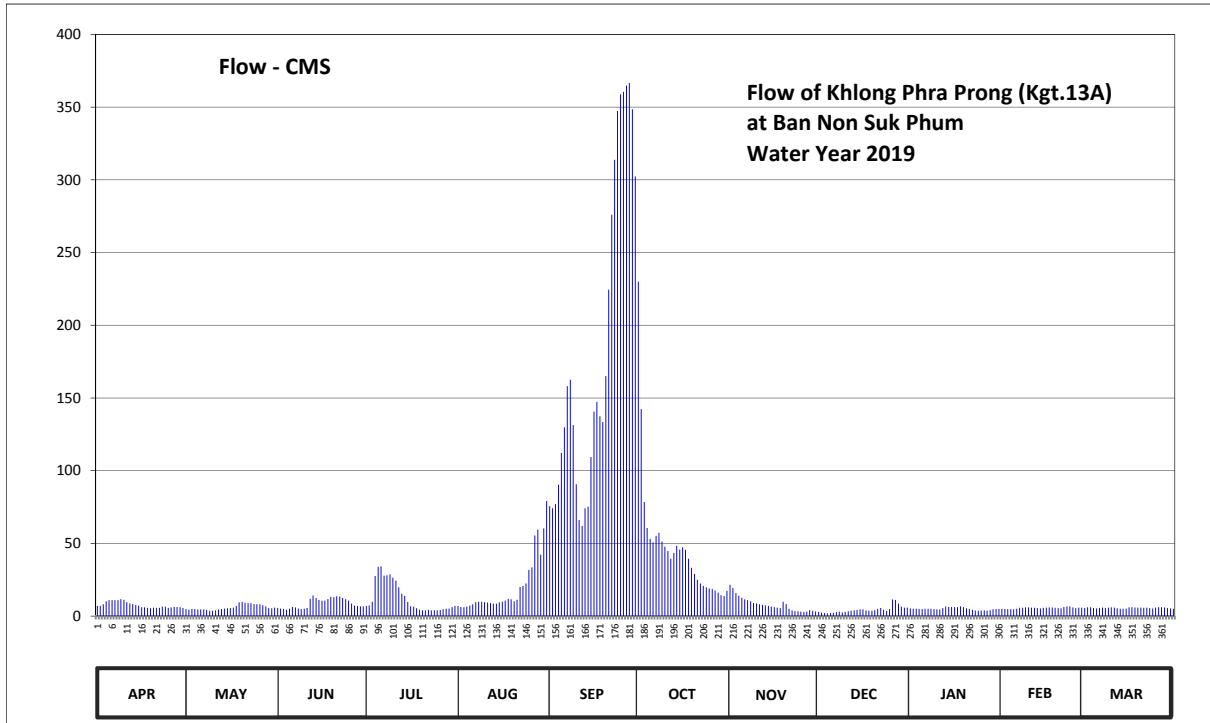
Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	<b>Ban Non Suk Phum</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	4,906 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the top staff gage.	<b>Elevation</b>	+17.571 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 32 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.47	6.28	6.36	6.47	6.46	9.26	12.80	7.28	6.08	6.33	6.30	6.36	
2	6.47	6.24	6.32	6.49	6.42	9.22	11.03	7.17	6.04	6.30	6.29	6.40	
3	6.54	6.29	6.29	6.66	6.41	9.30	9.34	6.99	6.01	6.31	6.28	6.40	
4	6.68	6.28	6.24	7.58	6.43	9.68	8.82	6.90	5.99	6.29	6.27	6.36	
5	6.73	6.26	6.31	7.84	6.48	10.28	8.57	6.83	6.01	6.28	6.27	6.33	
6	6.73	6.26	6.42	7.85	6.54	10.72	8.49	6.77	6.03	6.30	6.31	6.36	
7	6.73	6.26	6.39	7.59	6.64	11.38	8.64	6.73	6.07	6.31	6.37	6.38	
8	6.73	6.23	6.32	7.60	6.66	11.47	8.71	6.68	6.11	6.30	6.37	6.36	
9	6.78	6.17	6.28	7.63	6.66	10.76	8.51	6.60	6.05	6.28	6.40	6.38	
10	6.75	6.16	6.31	7.52	6.64	9.69	8.39	6.58	6.08	6.26	6.40	6.40	
11	6.64	6.20	6.36	7.42	6.62	8.99	8.27	6.54	6.13	6.25	6.38	6.38	
12	6.58	6.25	6.79	7.19	6.59	8.87	8.06	6.51	6.17	6.35	6.37	6.34	
13	6.55	6.28	6.91	6.97	6.57	9.22	8.22	6.49	6.20	6.44	6.35	6.31	
14	6.51	6.32	6.82	6.90	6.57	9.25	8.41	6.47	6.23	6.42	6.33	6.30	
15	6.48	6.34	6.74	6.65	6.63	10.21	8.31	6.43	6.27	6.42	6.36	6.32	
16	6.41	6.35	6.70	6.45	6.66	10.99	8.37	6.41	6.26	6.41	6.38	6.40	
17	6.40	6.38	6.71	6.43	6.71	11.14	8.30	6.38	6.20	6.41	6.39	6.41	
18	6.36	6.47	6.78	6.34	6.79	10.91	8.06	6.35	6.17	6.45	6.39	6.39	
19	6.34	6.63	6.86	6.24	6.77	10.81	7.81	6.66	6.17	6.41	6.37	6.38	
20	6.38	6.65	6.85	6.20	6.68	11.52	7.64	6.55	6.21	6.34	6.35	6.38	
21	6.37	6.61	6.88	6.19	6.75	12.70	7.45	6.30	6.29	6.29	6.34	6.37	
22	6.37	6.59	6.87	6.23	7.20	13.60	7.32	6.19	6.36	6.23	6.42	6.38	
23	6.43	6.59	6.82	6.19	7.24	14.23	7.24	6.14	6.24	6.18	6.45	6.35	
24	6.43	6.55	6.78	6.19	7.32	14.79	7.19	6.13	6.15	6.16	6.45	6.33	
25	6.36	6.54	6.71	6.20	7.75	14.98	7.15	6.11	6.27	6.18	6.39	6.38	
26	6.39	6.54	6.58	6.22	7.82	15.01	7.13	6.09	6.76	6.19	6.35	6.41	
27	6.42	6.50	6.48	6.27	8.65	15.08	7.08	6.11	6.74	6.17	6.38	6.41	
28	6.42	6.45	6.46	6.31	8.78	15.11	7.01	6.21	6.57	6.21	6.38	6.39	
29	6.41	6.35	6.45	6.32	8.17	14.81	6.92	6.16	6.43	6.27	6.36	6.35	
30	6.36	6.34	6.45	6.41	8.81	14.04	6.89	6.12	6.38	6.28	6.30	6.33	
31		6.38		6.47	9.36		7.07		6.38	6.29		6.30	
Mean	6.51	6.38	6.57	6.74	7.09	11.60	8.17	6.50	6.23	6.30	6.36	6.37	
Max	6.78	6.65	6.91	7.85	9.36	15.11	12.80	7.28	6.76	6.45	6.45	6.41	15.11
Min	6.34	6.16	6.24	6.19	6.41	8.87	6.89	6.09	5.99	6.16	6.27	6.30	5.99
Annual Max Momentary Gage Height	15.15		m. (MSL.) ,			at 05.00 Hours, on Sep 28, 2019							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.01	m. (MSL.)					
Left Bank Elevation	17.75		m. (MSL.) ,										
Right Bank Elevation	18.63		m. (MSL.) ,			Drainage Area	4,906	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.05	4.80	5.60	7.05	6.90	75.60	230.00	21.60	2.80	5.30	5.00	5.60		
2	7.05	4.40	5.20	7.35	6.30	74.20	142.35	19.40	2.40	5.00	4.90	6.00		
3	8.10	4.90	4.90	9.90	6.15	77.00	78.40	15.80	2.10	5.10	4.80	6.00		
4	10.20	4.80	4.40	27.60	6.45	90.30	60.60	14.00	1.90	4.90	4.70	5.60		
5	10.95	4.60	5.10	34.00	7.20	112.20	53.10	12.60	2.10	4.80	4.70	5.30		
6	10.95	4.60	6.30	34.25	8.10	129.80	50.70	11.55	2.30	5.00	5.10	5.60		
7	10.95	4.60	5.90	27.80	9.60	158.10	55.20	10.95	2.70	5.10	5.70	5.80		
8	10.95	4.30	5.20	28.00	9.90	162.50	57.30	10.20	3.10	5.00	5.70	5.60		
9	11.70	3.70	4.80	28.75	9.90	131.40	51.30	9.00	2.50	4.80	6.00	5.80		
10	11.25	3.60	5.10	26.40	9.60	90.65	47.75	8.70	2.80	4.60	6.00	6.00		
11	9.60	4.00	5.60	24.40	9.30	66.15	44.75	8.10	3.30	4.50	5.80	5.80		
12	8.70	4.50	11.85	19.80	8.85	62.10	39.50	7.65	3.70	5.50	5.70	5.40		
13	8.25	4.80	14.20	15.40	8.55	74.20	43.50	7.35	4.00	6.60	5.50	5.10		
14	7.65	5.20	12.40	14.00	8.55	75.25	48.30	7.05	4.30	6.30	5.30	5.00		
15	7.20	5.40	11.10	9.75	9.45	109.40	45.75	6.45	4.70	6.30	5.60	5.20		
16	6.15	5.50	10.50	6.75	9.90	140.60	47.25	6.15	4.60	6.15	5.80	6.00		
17	6.00	5.80	10.65	6.45	10.65	147.30	45.50	5.80	4.00	6.15	5.90	6.15		
18	5.60	7.05	11.70	5.40	11.85	137.40	39.50	5.50	3.70	6.75	5.90	5.90		
19	5.40	9.45	13.20	4.40	11.55	133.40	33.25	9.90	3.70	6.15	5.70	5.80		
20	5.80	9.75	13.00	4.00	10.20	165.00	29.00	8.25	4.10	5.40	5.50	5.80		
21	5.70	9.15	13.60	3.90	11.25	224.50	25.00	5.00	4.90	4.90	5.40	5.70		
22	5.70	8.85	13.40	4.30	20.00	276.00	22.40	3.90	5.60	4.30	6.30	5.80		
23	6.45	8.85	12.40	3.90	20.80	313.80	20.80	3.40	4.40	3.80	6.75	5.50		
24	6.45	8.25	11.70	3.90	22.40	347.40	19.80	3.30	3.50	3.60	6.75	5.30		
25	5.60	8.10	10.65	4.00	31.75	358.80	19.00	3.10	4.70	3.80	5.90	5.80		
26	5.90	8.10	8.70	4.20	33.50	360.60	18.60	2.90	11.40	3.90	5.50	6.15		
27	6.30	7.50	7.20	4.70	55.50	364.80	17.60	3.10	11.10	3.70	5.80	6.15		
28	6.30	6.75	6.90	5.10	59.40	366.65	16.20	4.10	8.55	4.10	5.80	5.90		
29	6.15	5.50	6.75	5.20	42.25	348.60	14.40	3.60	6.45	4.70	5.60	5.50		
30	5.60	5.40	6.75	6.15	60.30	302.40	13.80	3.20	5.80	4.80		5.30		
31		5.80		7.05	79.10		17.40		5.80	4.90		5.00		
<b>Total</b>	<b>229.65</b>	<b>188.00</b>	<b>264.75</b>	<b>393.85</b>	<b>615.20</b>	<b>5476.10</b>	<b>1448.00</b>	<b>241.60</b>	<b>137.00</b>	<b>155.90</b>	<b>163.10</b>	<b>175.55</b>	<b>9488.70</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>7.65</b>	<b>6.06</b>	<b>8.82</b>	<b>12.70</b>	<b>19.85</b>	<b>182.54</b>	<b>46.71</b>	<b>8.05</b>	<b>4.42</b>	<b>5.03</b>	<b>5.62</b>	<b>5.66</b>	<b>25.93</b>	<b>CMS</b>
<b>Max</b>	<b>11.70</b>	<b>9.75</b>	<b>14.20</b>	<b>34.25</b>	<b>79.10</b>	<b>366.65</b>	<b>230.00</b>	<b>21.60</b>	<b>11.40</b>	<b>6.75</b>	<b>6.75</b>	<b>6.15</b>	<b>366.65</b>	<b>CMS</b>
<b>Min</b>	<b>5.40</b>	<b>3.60</b>	<b>4.40</b>	<b>3.90</b>	<b>6.15</b>	<b>62.10</b>	<b>13.80</b>	<b>2.90</b>	<b>1.90</b>	<b>3.60</b>	<b>4.70</b>	<b>5.00</b>	<b>1.90</b>	<b>CMS</b>
<b>Runoff</b>	<b>19.84</b>	<b>16.24</b>	<b>22.87</b>	<b>34.03</b>	<b>53.15</b>	<b>473.14</b>	<b>125.11</b>	<b>20.87</b>	<b>11.84</b>	<b>13.47</b>	<b>14.09</b>	<b>15.17</b>	<b>819.82</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>369.25</b>	<b>CMS</b>	<b>at 15.15 m. (MSL)</b>	<b>at 05.00 Hours</b>	<b>on Sep 28, 2019</b>									
<b>Runoff Yield</b>	<b>5.30</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>75.27</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khleng Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

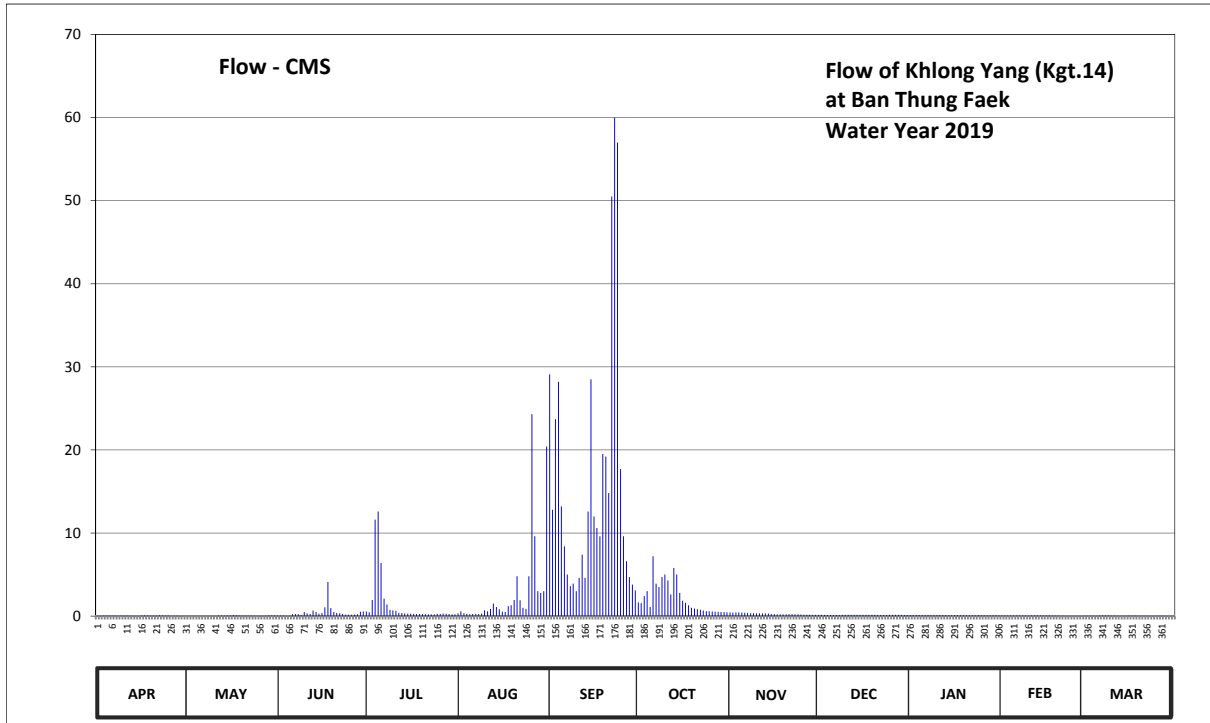
Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	<b>Ban Thung Faek</b>	<b>Amphoe Na Di</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	354 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+34.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+41.721 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1966 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1966 - 1981 , 1986 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1966 - 1981 , 1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 38.480 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.24	35.20	35.26	35.76	35.52	37.47	36.13	35.64	35.36	35.33	35.28	35.23	
2	35.24	35.19	35.25	35.66	35.77	36.89	36.11	35.63	35.35	35.33	35.28	35.23	
3	35.25	35.18	35.25	36.19	35.55	37.29	36.24	35.65	35.35	35.33	35.28	35.23	
4	35.26	35.17	35.23	36.83	35.46	37.44	36.30	35.64	35.34	35.33	35.28	35.23	
5	35.25	35.17	35.24	36.88	35.43	36.91	36.02	35.62	35.34	35.32	35.28	35.24	
6	35.25	35.16	35.44	36.57	35.44	36.67	36.61	35.60	35.33	35.32	35.28	35.26	
7	35.25	35.17	35.45	36.21	35.47	36.50	36.39	35.58	35.34	35.32	35.28	35.28	
8	35.24	35.17	35.43	36.08	35.44	36.36	36.35	35.55	35.34	35.32	35.28	35.28	
9	35.25	35.16	35.36	35.87	35.50	36.39	36.47	35.54	35.35	35.32	35.27	35.27	
10	35.26	35.16	35.70	35.85	35.85	36.30	36.50	35.53	35.36	35.32	35.26	35.26	
11	35.25	35.19	35.52	35.82	35.77	36.46	36.43	35.53	35.36	35.31	35.27	35.25	
12	35.24	35.26	35.46	35.61	35.93	36.62	36.26	35.53	35.36	35.31	35.27	35.24	
13	35.22	35.26	35.84	35.56	36.10	36.46	36.54	35.52	35.35	35.31	35.27	35.24	
14	35.22	35.26	35.70	35.53	36.02	36.88	36.50	35.50	35.35	35.30	35.28	35.23	
15	35.22	35.27	35.48	35.49	35.91	37.45	36.28	35.45	35.35	35.30	35.28	35.24	
16	35.26	35.27	35.56	35.48	35.73	36.85	36.17	35.43	35.36	35.31	35.27	35.26	
17	35.27	35.31	36.01	35.47	35.69	36.78	36.12	35.42	35.35	35.31	35.27	35.25	
18	35.28	35.30	36.41	35.45	36.04	36.73	36.06	35.41	35.35	35.30	35.26	35.25	
19	35.26	35.27	35.98	35.44	36.06	37.15	36.00	35.41	35.35	35.30	35.26	35.24	
20	35.25	35.26	35.70	35.43	36.19	37.14	35.95	35.43	35.35	35.30	35.25	35.24	
21	35.25	35.25	35.59	35.43	36.48	36.99	35.91	35.43	35.34	35.30	35.24	35.23	
22	35.29	35.25	35.54	35.42	36.18	37.99	35.88	35.43	35.34	35.30	35.23	35.23	
23	35.27	35.25	35.44	35.41	36.00	38.18	35.84	35.42	35.34	35.30	35.22	35.22	
24	35.26	35.25	35.39	35.42	35.93	38.12	35.79	35.41	35.34	35.31	35.22	35.22	
25	35.25	35.24	35.38	35.47	36.48	37.09	35.77	35.40	35.35	35.30	35.22	35.22	
26	35.24	35.24	35.37	35.46	37.31	36.73	35.75	35.38	35.36	35.30	35.22	35.23	
27	35.23	35.24	35.37	35.51	36.73	36.58	35.73	35.37	35.35	35.30	35.22	35.23	
28	35.23	35.26	35.41	35.49	36.30	36.47	35.72	35.37	35.35	35.30	35.22	35.22	
29	35.22	35.28	35.71	35.45	36.28	36.38	35.70	35.36	35.35	35.30	35.22	35.22	
30	35.21	35.27	35.75	35.42	36.30	36.31	35.68	35.36	35.34	35.29	35.22	35.22	
31		35.27		35.41	37.18		35.66		35.34	35.28		35.22	
Mean	35.25	35.23	35.54	35.71	36.00	36.92	36.09	35.48	35.35	35.31	35.26	35.24	
Max	35.29	35.31	36.41	36.88	37.31	38.18	36.61	35.65	35.36	35.33	35.28	35.28	38.18
Min	35.21	35.16	35.23	35.41	35.43	36.30	35.66	35.36	35.33	35.28	35.22	35.22	35.16
Annual Max Momentary Gage Height	39.19		m. (MSL.) ,			at 24.00 Hours, on Sep 22, 2019							
Zero Gage at Bottom Elevation	34.60		m. (MSL.) ,			River Bed	32.91	m. (MSL.)					
Left Bank Elevation		38.47		m. (MSL.) ,									
Right Bank Elevation		38.88		m. (MSL.) ,		Drainage Are	354	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.00	0.06	0.56	0.32	29.10	1.65	0.44	0.16	0.13	0.08	0.03	
2	0.04	0.00	0.05	0.46	0.57	12.80	1.55	0.43	0.15	0.13	0.08	0.03	
3	0.05	0.00	0.05	1.95	0.35	23.70	2.40	0.45	0.15	0.13	0.08	0.03	
4	0.06	0.00	0.03	11.60	0.26	28.20	3.00	0.44	0.14	0.13	0.08	0.03	
5	0.05	0.00	0.04	12.60	0.23	13.20	1.10	0.42	0.14	0.12	0.08	0.04	
6	0.05	0.00	0.24	6.40	0.24	8.40	7.20	0.40	0.13	0.12	0.08	0.06	
7	0.05	0.00	0.25	2.10	0.27	5.00	3.90	0.38	0.14	0.12	0.08	0.08	
8	0.04	0.00	0.23	1.40	0.24	3.60	3.50	0.35	0.14	0.12	0.08	0.08	
9	0.05	0.00	0.16	0.74	0.30	3.90	4.70	0.34	0.15	0.12	0.07	0.07	
10	0.06	0.00	0.50	0.70	0.70	3.00	5.00	0.33	0.16	0.12	0.06	0.06	
11	0.05	0.00	0.32	0.64	0.57	4.60	4.30	0.33	0.16	0.11	0.07	0.05	
12	0.04	0.06	0.26	0.41	0.86	7.40	2.60	0.33	0.16	0.11	0.07	0.04	
13	0.02	0.06	0.68	0.36	1.50	4.60	5.80	0.32	0.15	0.11	0.07	0.04	
14	0.02	0.06	0.50	0.33	1.10	12.60	5.00	0.30	0.15	0.10	0.08	0.03	
15	0.02	0.07	0.28	0.29	0.82	28.50	2.80	0.25	0.15	0.10	0.08	0.04	
16	0.06	0.07	0.36	0.28	0.53	12.00	1.85	0.23	0.16	0.11	0.07	0.06	
17	0.07	0.11	1.05	0.27	0.49	10.60	1.60	0.22	0.15	0.11	0.07	0.05	
18	0.08	0.10	4.10	0.25	1.20	9.60	1.30	0.21	0.15	0.10	0.06	0.05	
19	0.06	0.07	0.96	0.24	1.30	19.50	1.00	0.21	0.15	0.10	0.06	0.04	
20	0.05	0.06	0.50	0.23	1.95	19.20	0.90	0.23	0.15	0.10	0.05	0.04	
21	0.05	0.05	0.39	0.23	4.80	14.80	0.82	0.23	0.14	0.10	0.04	0.03	
22	0.09	0.05	0.34	0.22	1.90	50.50	0.76	0.23	0.14	0.10	0.03	0.03	
23	0.07	0.05	0.24	0.21	1.00	60.00	0.68	0.22	0.14	0.10	0.02	0.02	
24	0.06	0.05	0.19	0.22	0.86	57.00	0.59	0.21	0.14	0.11	0.02	0.02	
25	0.05	0.04	0.18	0.27	4.80	17.70	0.57	0.20	0.15	0.10	0.02	0.02	
26	0.04	0.04	0.17	0.26	24.30	9.60	0.55	0.18	0.16	0.10	0.02	0.03	
27	0.03	0.04	0.17	0.31	9.60	6.60	0.53	0.17	0.15	0.10	0.02	0.03	
28	0.03	0.06	0.21	0.29	3.00	4.70	0.52	0.17	0.15	0.10	0.02	0.02	
29	0.02	0.08	0.51	0.25	2.80	3.80	0.50	0.16	0.15	0.10	0.02	0.02	
30	0.01	0.07	0.55	0.22	3.00	3.10	0.48	0.16	0.14	0.09		0.02	
31		0.07		0.21	20.40		0.46		0.14	0.08		0.02	
<b>Total</b>	1.41	1.26	13.57	44.50	90.26	487.30	67.61	8.54	4.59	3.37	1.66	1.21	725.28 CMSDAY
<b>Mean</b>	0.05	0.04	0.45	1.44	2.91	16.24	2.18	0.28	0.15	0.11	0.06	0.04	1.98 CMS
<b>Max</b>	0.09	0.11	4.10	12.60	24.30	60.00	7.20	0.45	0.16	0.13	0.08	0.08	60.00 CMS
<b>Min</b>	0.01	0.00	0.03	0.21	0.23	3.00	0.46	0.16	0.13	0.08	0.02	0.02	0.00 CMS
<b>Runoff</b>	0.12	0.11	1.17	3.84	7.80	42.10	5.84	0.74	0.40	0.29	0.14	0.10	62.66 MCM
<b>Momentary Peak</b>	139.90 CMS, at 39.19 m. (MSL), at 24.00 Hours, on Sep 22, 2019												
<b>Runoff Yield</b>	5.61 Liters/Second/Square KM.			Momentary Peak Yield 395.09 Liters/Second/Square KM.									



## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Huai Samong at Ban Kaeng Din So , Prachin Buri (Kgt.15A)

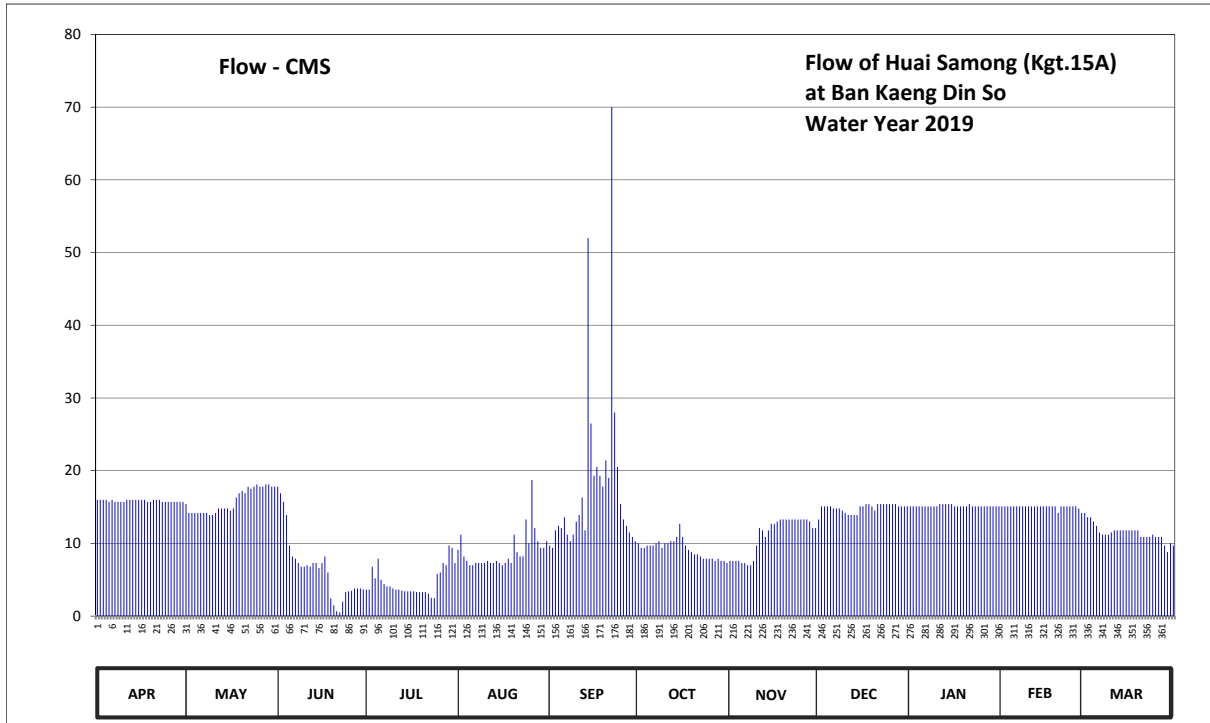
Lat 14 - 03 - 47 N Long 101 - 55 - 39 E

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
<b>Drainage Area</b>	548 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+12.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	In front of the station office and near the rain gage.	<b>Elevation</b>	+22.396 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1968 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1968 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir. Stage-discharge relation defined by 30 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.80	15.78	15.86	15.31	15.57	15.59	15.60	15.52	15.71	15.77	15.77	15.74	
2	15.80	15.74	15.83	15.31	15.64	15.58	15.58	15.52	15.77	15.77	15.77	15.72	
3	15.80	15.74	15.79	15.49	15.54	15.66	15.58	15.52	15.77	15.77	15.77	15.72	
4	15.80	15.74	15.73	15.41	15.52	15.68	15.59	15.52	15.77	15.77	15.77	15.70	
5	15.79	15.74	15.59	15.53	15.50	15.67	15.59	15.51	15.77	15.77	15.77	15.68	
6	15.80	15.74	15.54	15.40	15.50	15.72	15.59	15.51	15.76	15.77	15.77	15.65	
7	15.79	15.74	15.53	15.36	15.51	15.64	15.60	15.50	15.76	15.77	15.77	15.64	
8	15.79	15.74	15.51	15.34	15.51	15.61	15.61	15.50	15.76	15.77	15.77	15.64	
9	15.79	15.73	15.49	15.34	15.51	15.64	15.58	15.52	15.75	15.77	15.77	15.64	
10	15.79	15.73	15.49	15.32	15.51	15.70	15.60	15.59	15.74	15.77	15.77	15.65	
11	15.80	15.74	15.50	15.31	15.52	15.73	15.60	15.67	15.73	15.78	15.77	15.66	
12	15.80	15.76	15.49	15.31	15.51	15.81	15.61	15.66	15.73	15.78	15.77	15.66	
13	15.80	15.76	15.51	15.30	15.51	15.66	15.61	15.63	15.73	15.78	15.77	15.66	
14	15.80	15.76	15.51	15.29	15.52	16.70	15.63	15.66	15.73	15.78	15.77	15.66	
15	15.80	15.76	15.48	15.29	15.51	16.15	15.69	15.69	15.77	15.78	15.77	15.66	
16	15.80	15.75	15.51	15.29	15.50	15.91	15.63	15.69	15.77	15.77	15.77	15.66	
17	15.80	15.76	15.54	15.29	15.51	15.95	15.59	15.70	15.78	15.77	15.77	15.66	
18	15.79	15.81	15.45	15.28	15.53	15.91	15.57	15.71	15.78	15.77	15.77	15.66	
19	15.79	15.83	15.18	15.28	15.51	15.86	15.56	15.71	15.77	15.77	15.77	15.66	
20	15.80	15.84	14.80	15.28	15.64	15.98	15.55	15.71	15.75	15.77	15.74	15.63	
21	15.80	15.83	14.47	15.28	15.56	15.90	15.55	15.71	15.78	15.78	15.77	15.63	
22	15.80	15.86	14.40	15.26	15.54	17.00	15.54	15.71	15.78	15.77	15.77	15.63	
23	15.79	15.85	14.99	15.20	15.54	16.20	15.53	15.71	15.78	15.77	15.77	15.63	
24	15.79	15.86	15.28	15.19	15.71	15.95	15.53	15.71	15.78	15.77	15.77	15.64	
25	15.79	15.87	15.29	15.44	15.60	15.78	15.53	15.71	15.78	15.77	15.77	15.63	
26	15.79	15.86	15.30	15.45	15.89	15.71	15.53	15.71	15.78	15.77	15.77	15.63	
27	15.79	15.86	15.32	15.51	15.67	15.68	15.52	15.71	15.78	15.77	15.76	15.63	
28	15.79	15.87	15.32	15.50	15.61	15.65	15.53	15.70	15.77	15.77	15.74	15.59	
29	15.79	15.87	15.32	15.59	15.58	15.63	15.52	15.67	15.77	15.77	15.74	15.56	
30	15.79	15.86	15.31	15.58	15.58	15.61	15.52	15.67	15.77	15.77	15.77	15.60	
31		15.86		15.51	15.61		15.51		15.77	15.77		15.59	
Mean	15.80	15.79	15.38	15.36	15.56	15.84	15.57	15.63	15.76	15.77	15.77	15.65	
Max	15.80	15.87	15.86	15.59	15.89	17.00	15.69	15.71	15.78	15.78	15.77	15.74	17.00
Min	15.79	15.73	14.40	15.19	15.50	15.58	15.51	15.50	15.71	15.77	15.74	15.56	14.40
Annual Max Momentary Gage Height	17.69		m. (MSL.) ,			at 13.00 Hours, on Sep 22, 2019							
Zero Gage at Bottom Elevation	12.80		m. (MSL.) ,			River Bed	12.45	m. (MSL.)					
Left Bank Elevation		20.20	m. (MSL.) ,										
Right Bank Elevation		21.06	m. (MSL.) ,			Drainage Are	548	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.00	15.40	17.80	3.65	9.10	9.70	10.00	7.60	13.30	15.10	15.10	14.20	
2	16.00	14.20	16.90	3.65	11.20	9.40	9.40	7.60	15.10	15.10	15.10	13.60	
3	16.00	14.20	15.70	6.80	8.20	11.80	9.40	7.60	15.10	15.10	15.10	13.60	
4	16.00	14.20	13.90	5.20	7.60	12.40	9.70	7.60	15.10	15.10	15.10	13.00	
5	15.70	14.20	9.70	7.90	7.00	12.10	9.70	7.30	15.10	15.10	15.10	12.40	
6	16.00	14.20	8.20	5.00	7.00	13.60	9.70	7.30	14.80	15.10	15.10	11.50	
7	15.70	14.20	7.90	4.40	7.30	11.20	10.00	7.00	14.80	15.10	15.10	11.20	
8	15.70	14.20	7.30	4.10	7.30	10.30	10.30	7.00	14.80	15.10	15.10	11.20	
9	15.70	13.90	6.80	4.10	7.30	11.20	9.40	7.60	14.50	15.10	15.10	11.20	
10	15.70	13.90	6.80	3.80	7.30	13.00	10.00	9.70	14.20	15.10	15.10	11.50	
11	16.00	14.20	7.00	3.65	7.60	13.90	10.00	12.10	13.90	15.40	15.10	11.80	
12	16.00	14.80	6.80	3.65	7.30	16.30	10.30	11.80	13.90	15.40	15.10	11.80	
13	16.00	14.80	7.30	3.50	7.30	11.80	10.30	10.90	13.90	15.40	15.10	11.80	
14	16.00	14.80	7.30	3.40	7.60	52.00	10.90	11.80	13.90	15.40	15.10	11.80	
15	16.00	14.80	6.60	3.40	7.30	26.50	12.70	12.70	15.10	15.40	15.10	11.80	
16	16.00	14.50	7.30	3.40	7.00	19.30	10.90	12.70	15.10	15.10	15.10	11.80	
17	16.00	14.80	8.20	3.40	7.30	20.50	9.70	13.00	15.40	15.10	15.10	11.80	
18	15.70	16.30	6.00	3.30	7.90	19.30	9.10	13.30	15.40	15.10	15.10	11.80	
19	15.70	16.90	2.45	3.30	7.30	17.80	8.80	13.30	15.10	15.10	15.10	11.80	
20	16.00	17.20	1.50	3.30	11.20	21.40	8.50	13.30	14.50	15.10	14.20	10.90	
21	16.00	16.90	0.68	3.30	8.80	19.00	8.50	13.30	15.40	15.40	15.10	10.90	
22	16.00	17.80	0.50	3.10	8.20	70.00	8.20	13.30	15.40	15.10	15.10	10.90	
23	15.70	17.50	1.98	2.50	8.20	28.00	7.90	13.30	15.40	15.10	15.10	10.90	
24	15.70	17.80	3.30	2.48	13.30	20.50	7.90	13.30	15.40	15.10	15.10	11.20	
25	15.70	18.10	3.40	5.80	10.00	15.40	7.90	13.30	15.40	15.10	15.10	10.90	
26	15.70	17.80	3.50	6.00	18.70	13.30	7.90	13.30	15.40	15.10	15.10	10.90	
27	15.70	17.80	3.80	7.30	12.10	12.40	7.60	13.30	15.40	15.10	14.80	10.90	
28	15.70	18.10	3.80	7.00	10.30	11.50	7.90	13.00	15.10	15.10	14.20	9.70	
29	15.70	18.10	3.80	9.70	9.40	10.90	7.60	12.10	15.10	15.10	14.20	8.80	
30	15.70	17.80	3.65	9.40	9.40	10.30	7.60	12.10	15.10	15.10		10.00	
31		17.80		7.30	10.30		7.30		15.10	15.10		9.70	
Total	475.50	491.20	199.86	146.78	275.80	544.80	285.10	331.50	461.20	469.90	434.90	355.30	4471.84 CMSDAY
Mean	15.85	15.85	6.66	4.73	8.90	18.16	9.20	11.05	14.88	15.16	15.00	11.46	12.22 CMS
Max	16.00	18.10	17.80	9.70	18.70	70.00	12.70	13.30	15.40	15.40	15.10	14.20	70.00 CMS
Min	15.70	13.90	0.50	2.48	7.00	9.40	7.30	7.00	13.30	15.10	14.20	8.80	0.50 CMS
Runoff	41.08	42.44	17.27	12.68	23.83	47.07	24.63	28.64	39.85	40.60	37.58	30.70	386.37 MCM
Momentary Peak	124.10	CMS, at 17.69 m. (MSL), at 13.00 Hours, on Sep 22, 2019											
Runoff Yield	22.36	Liters/Second/Square KM.			Momentary Peak Yield	226.48	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Khwaeng Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

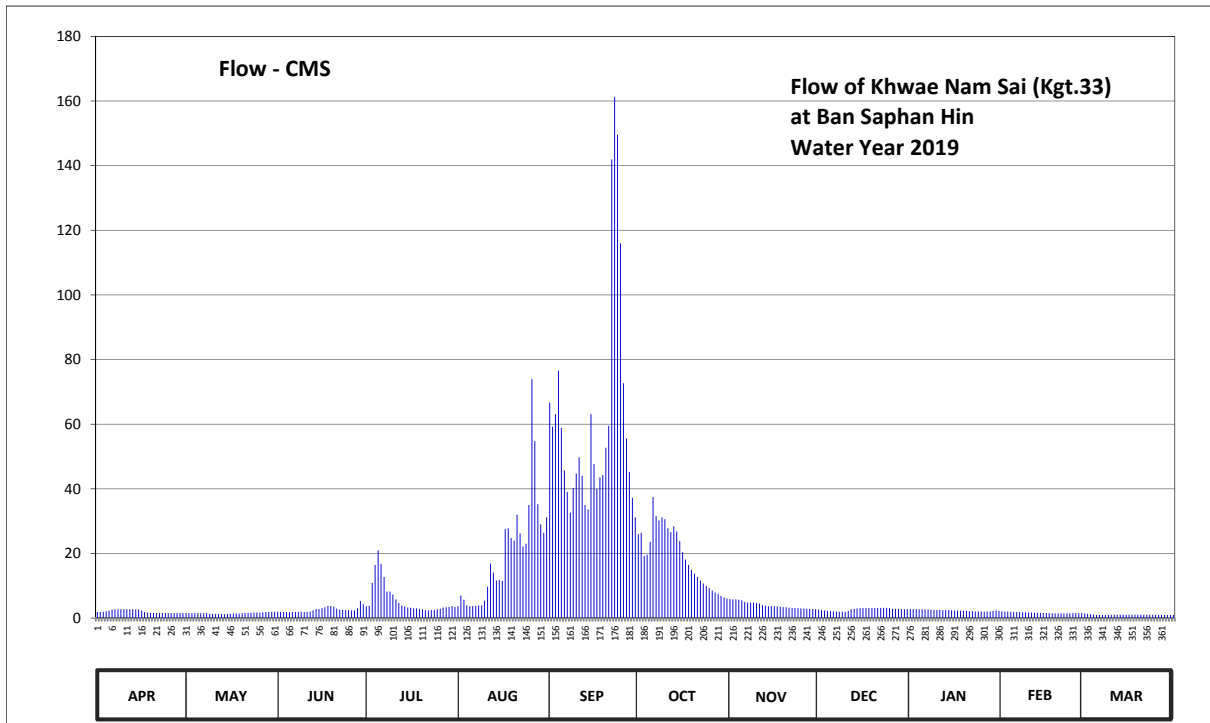
Lat 14 - 07 - 55 N Long 101 - 43 - 52 E

Location : on left bank at Ban Saphan Hin.

	<b>Ban</b> Saphan Hin	<b>Amphoe</b> Na Di	<b>Changwat</b> Prachin Buri
<b>Drainage Area</b>	617 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+3.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+14.019 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.18	4.12	4.20	4.53	4.54	7.69	6.05	4.79	4.33	4.35	4.22	4.09	
2	4.18	4.12	4.19	4.56	4.90	7.44	6.07	4.78	4.29	4.35	4.21	4.07	
3	4.20	4.11	4.18	5.16	4.77	7.57	5.71	4.78	4.27	4.35	4.21	4.05	
4	4.23	4.11	4.17	5.53	4.59	8.02	5.73	4.77	4.24	4.34	4.20	4.02	
5	4.26	4.11	4.16	5.80	4.54	7.43	5.93	4.75	4.23	4.34	4.19	4.00	
6	4.32	4.11	4.18	5.55	4.55	6.93	6.60	4.70	4.22	4.33	4.18	4.00	
7	4.35	4.11	4.18	5.28	4.56	6.66	6.33	4.68	4.21	4.33	4.17	4.00	
8	4.35	4.11	4.19	4.98	4.58	6.38	6.26	4.68	4.20	4.32	4.16	4.00	
9	4.35	4.07	4.20	4.98	4.58	6.71	6.31	4.68	4.20	4.31	4.15	4.01	
10	4.35	4.07	4.18	4.92	4.74	6.89	6.28	4.67	4.20	4.30	4.15	4.01	
11	4.35	4.07	4.19	4.78	5.08	7.09	6.14	4.65	4.24	4.30	4.15	4.01	
12	4.35	4.07	4.21	4.67	5.56	6.86	6.08	4.60	4.34	4.29	4.14	4.01	
13	4.34	4.06	4.27	4.58	5.37	6.50	6.17	4.57	4.37	4.29	4.13	4.01	
14	4.34	4.06	4.35	4.52	5.21	6.43	6.09	4.54	4.39	4.28	4.13	4.01	
15	4.33	4.07	4.36	4.45	5.22	7.57	5.94	4.54	4.41	4.28	4.12	4.01	
16	4.27	4.08	4.41	4.44	5.20	7.01	5.77	4.53	4.42	4.27	4.12	4.01	
17	4.18	4.08	4.47	4.40	6.13	6.70	5.64	4.52	4.42	4.26	4.11	4.02	
18	4.14	4.09	4.55	4.40	6.14	6.84	5.53	4.50	4.42	4.25	4.10	4.02	
19	4.12	4.09	4.54	4.37	5.99	6.87	5.43	4.48	4.42	4.25	4.10	4.02	
20	4.12	4.11	4.51	4.34	5.95	7.21	5.35	4.47	4.42	4.24	4.10	4.02	
21	4.12	4.12	4.38	4.29	6.35	7.45	5.28	4.45	4.42	4.23	4.10	4.01	
22	4.12	4.13	4.31	4.27	6.06	9.81	5.21	4.43	4.43	4.23	4.10	4.01	
23	4.12	4.14	4.30	4.30	5.86	10.24	5.15	4.42	4.43	4.22	4.10	4.01	
24	4.12	4.15	4.29	4.31	5.90	9.98	5.10	4.41	4.43	4.22	4.11	4.01	
25	4.12	4.15	4.28	4.35	6.50	9.17	5.05	4.40	4.41	4.21	4.11	4.01	
26	4.12	4.14	4.27	4.37	7.93	7.89	5.00	4.39	4.37	4.20	4.11	4.01	
27	4.12	4.16	4.27	4.45	7.29	7.32	4.96	4.38	4.37	4.21	4.11	4.01	
28	4.12	4.18	4.40	4.47	6.51	6.91	4.93	4.37	4.37	4.22	4.11	4.00	
29	4.12	4.19	4.73	4.49	6.20	6.59	4.89	4.36	4.36	4.24	4.10	4.00	
30	4.12	4.20	4.63	4.54	6.07	6.31	4.84	4.35	4.35	4.26	4.10	4.00	
31		4.20		4.49	6.31		4.81		4.35	4.24	4.10	4.00	
Mean	4.22	4.12	4.32	4.66	5.59	7.42	5.63	4.55	4.34	4.27	4.14	4.01	
Max	4.35	4.20	4.73	5.80	7.93	10.24	6.60	4.79	4.43	4.35	4.22	4.09	10.24
Min	4.12	4.06	4.16	4.27	4.54	6.31	4.81	4.35	4.20	4.10	4.00	4.00	
Annual Max Momentary Gage Height	11.04		m. (MSL.),			at 12.00 Hours, on Sep 22, 2019							
Zero Gage at Bottom Elevation	3.40		m. (MSL.),			River Bed	2.80	m. (MSL.)					
Left Bank Elevation	12.97		m. (MSL.),										
Right Bank Elevation	13.84		m. (MSL.),			Drainage Area	617	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.90	1.60	2.00	3.65	3.70	66.70	26.00	5.90	2.65	2.75	2.10	1.45	
2	1.90	1.60	1.95	3.80	7.00	59.20	26.40	5.80	2.45	2.75	2.05	1.35	
3	2.00	1.55	1.90	10.90	5.70	63.10	19.20	5.80	2.35	2.75	2.05	1.25	
4	2.15	1.55	1.85	16.45	3.95	76.60	19.60	5.70	2.20	2.70	2.00	1.10	
5	2.30	1.55	1.80	21.00	3.70	58.90	23.60	5.50	2.15	2.70	1.95	1.00	
6	2.60	1.55	1.90	16.75	3.75	45.75	37.50	5.00	2.10	2.65	1.90	1.00	
7	2.75	1.55	1.90	12.70	3.80	39.00	31.60	4.80	2.05	2.65	1.85	1.00	
8	2.75	1.55	1.95	8.20	3.90	32.60	30.20	4.80	2.00	2.60	1.80	1.00	
9	2.75	1.35	2.00	8.20	3.90	40.25	31.20	4.80	2.00	2.55	1.75	1.05	
10	2.75	1.35	1.90	7.30	5.40	44.75	30.60	4.70	2.00	2.50	1.75	1.05	
11	2.75	1.35	1.95	5.80	9.70	49.75	27.80	4.50	2.20	2.50	1.75	1.05	
12	2.75	1.35	2.05	4.70	16.90	44.00	26.60	4.00	2.70	2.45	1.70	1.05	
13	2.70	1.30	2.35	3.90	14.05	35.00	28.40	3.85	2.85	2.45	1.65	1.05	
14	2.70	1.30	2.75	3.60	11.65	33.60	26.80	3.70	2.95	2.40	1.65	1.05	
15	2.65	1.35	2.80	3.25	11.80	63.10	23.80	3.70	3.05	2.40	1.60	1.05	
16	2.35	1.40	3.05	3.20	11.50	47.75	20.40	3.65	3.10	2.35	1.60	1.05	
17	1.90	1.40	3.35	3.00	27.60	40.00	18.10	3.60	3.10	2.30	1.55	1.10	
18	1.70	1.45	3.75	3.00	27.80	43.50	16.45	3.50	3.10	2.25	1.50	1.10	
19	1.60	1.45	3.70	2.85	24.80	44.25	14.95	3.40	3.10	2.25	1.50	1.10	
20	1.60	1.55	3.55	2.70	24.00	52.75	13.75	3.35	3.10	2.20	1.50	1.10	
21	1.60	1.60	2.90	2.45	32.00	59.50	12.70	3.25	3.10	2.15	1.50	1.05	
22	1.60	1.65	2.55	2.35	26.20	141.95	11.65	3.15	3.15	2.15	1.50	1.05	
23	1.60	1.70	2.50	2.50	22.20	161.30	10.75	3.10	3.15	2.10	1.50	1.05	
24	1.60	1.75	2.45	2.55	23.00	149.60	10.00	3.05	3.15	2.10	1.55	1.05	
25	1.60	1.75	2.40	2.75	35.00	115.95	9.25	3.00	3.05	2.05	1.55	1.05	
26	1.60	1.70	2.35	2.85	73.90	72.70	8.50	2.95	2.85	2.00	1.55	1.05	
27	1.60	1.80	2.35	3.25	54.75	55.60	7.90	2.90	2.85	2.05	1.55	1.05	
28	1.60	1.90	3.00	3.35	35.25	45.25	7.45	2.85	2.85	2.10	1.55	1.00	
29	1.60	1.95	5.30	3.45	29.00	37.25	6.90	2.80	2.80	2.20	1.50	1.00	
30	1.60	2.00	4.30	3.70	26.40	31.20	6.40	2.75	2.75	2.30	1.50	1.00	
31		2.00		3.45	31.20		6.10		2.75	2.20		1.00	
Total	62.55	48.90	78.55	177.60	613.50	1850.85	590.55	119.85	83.65	73.55	48.95	33.30	3781.80 CMSDAY
Mean	2.09	1.58	2.62	5.73	19.79	61.70	19.05	3.99	2.70	2.37	1.69	1.07	10.33 CMS
Max	2.75	2.00	5.30	21.00	73.90	161.30	37.50	5.90	3.15	2.75	2.10	1.45	161.30 CMS
Min	1.60	1.30	1.80	2.35	3.70	31.20	6.10	2.75	2.00	2.00	1.50	1.00	1.00 CMS
Runoff	5.40	4.22	6.79	15.34	53.01	159.91	51.02	10.36	7.23	6.35	4.23	2.88	326.75 MCM
Momentary Peak	199.00	CMS, at 11.04 m. (MSL.), at 12.00 Hours, on Sep 22, 2019											
Runoff Yield	16.79	Liters/Second/Square KM.			Momentary Peak Yield	322.42	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khwae Hanuman at Ban Wang Man , Prachin Buri (Kgt.34)

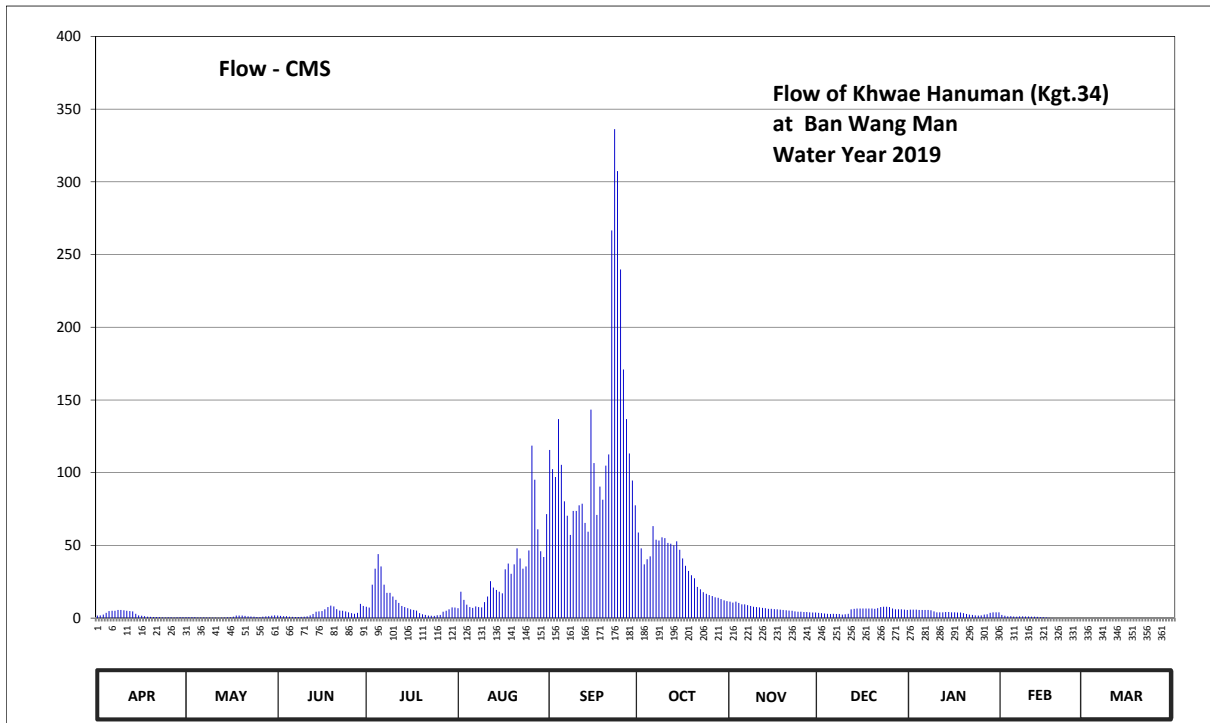
Lat 13 - 28 - 29 N Long 101 - 44 - 55 E

Location : on left bank at the bridge.

	Ban Wang Man	Amphoe Na Di	Changwat Prachin Buri
<b>Drainage Area</b>	1,210 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+3.560 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+12.474 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.68	4.54	4.68	4.99	4.94	7.16	6.18	5.11	4.78	4.89	4.71	4.07	
2	4.69	4.54	4.65	4.96	5.33	6.94	5.98	5.09	4.77	4.89	4.66	4.02	
3	4.72	4.53	4.63	5.45	5.15	6.85	5.76	5.11	4.76	4.89	4.62	3.98	
4	4.78	4.52	4.63	5.70	5.04	7.49	5.83	5.08	4.75	4.88	4.63	3.96	
5	4.84	4.49	4.59	5.90	4.98	6.99	5.87	5.05	4.74	4.88	4.61	3.93	
6	4.85	4.49	4.57	5.73	4.95	6.57	6.26	5.05	4.75	4.88	4.60	3.89	
7	4.85	4.50	4.55	5.45	5.00	6.39	6.09	5.03	4.74	4.88	4.62	3.93	
8	4.88	4.49	4.56	5.31	4.98	6.15	6.08	5.01	4.74	4.87	4.62	3.97	
9	4.88	4.49	4.57	5.31	4.97	6.45	6.12	4.99	4.72	4.83	4.61	3.95	
10	4.87	4.47	4.59	5.23	5.10	6.45	6.11	4.98	4.73	4.80	4.61	3.87	
11	4.85	4.46	4.62	5.15	5.23	6.52	6.05	4.97	4.75	4.80	4.60	3.81	
12	4.84	4.45	4.69	5.08	5.51	6.54	6.04	4.95	4.90	4.80	4.59	3.75	
13	4.83	4.47	4.74	5.01	5.40	6.30	6.02	4.94	4.92	4.81	4.57	3.72	
14	4.75	4.49	4.82	4.98	5.36	6.19	6.07	4.92	4.93	4.81	4.54	3.70	
15	4.69	4.50	4.83	4.94	5.33	7.59	5.96	4.92	4.93	4.80	4.52	3.69	
16	4.66	4.54	4.84	4.90	5.30	7.01	5.84	4.91	4.93	4.80	4.49	3.68	
17	4.63	4.60	4.90	4.88	5.69	6.40	5.74	4.90	4.93	4.79	4.45	3.68	
18	4.60	4.67	4.98	4.86	5.77	6.74	5.67	4.89	4.93	4.79	4.42	3.65	
19	4.57	4.68	5.02	4.77	5.63	6.59	5.61	4.88	4.93	4.77	4.38	3.65	
20	4.56	4.67	5.00	4.73	5.76	6.98	5.56	4.87	4.92	4.74	4.29	3.65	
21	4.56	4.65	4.91	4.71	5.98	7.11	5.41	4.86	4.94	4.72	4.22	3.66	
22	4.53	4.62	4.86	4.68	5.84	9.27	5.37	4.85	4.98	4.71	4.21	3.65	
23	4.50	4.61	4.85	4.66	5.70	10.14	5.32	4.83	4.99	4.69	4.23	3.68	
24	4.48	4.59	4.83	4.65	5.73	9.78	5.29	4.82	4.99	4.67	4.27	3.68	
25	4.50	4.56	4.80	4.70	5.95	8.93	5.26	4.82	4.98	4.69	4.30	3.66	
26	4.51	4.54	4.77	4.71	7.21	8.00	5.24	4.81	4.93	4.72	4.30	3.65	
27	4.49	4.59	4.75	4.82	6.82	7.49	5.21	4.81	4.90	4.73	4.24	3.65	
28	4.51	4.62	4.78	4.85	6.22	7.12	5.20	4.80	4.90	4.78	4.18	3.65	
29	4.53	4.63	5.06	4.90	5.94	6.81	5.17	4.79	4.90	4.80	4.13	3.65	
30	4.53	4.66	5.01	4.97	5.86	6.52	5.14	4.79	4.89	4.80		3.59	
31		4.69		4.96	6.41		5.12		4.88	4.80		3.56	
Mean	4.67	4.56	4.77	5.03	5.58	7.18	5.70	4.93	4.87	4.80	4.46	3.76	
Max	4.88	4.69	5.06	5.90	7.21	10.14	6.26	5.11	4.99	4.89	4.71	4.07	10.14
Min	4.48	4.45	4.55	4.65	4.94	6.15	5.12	4.79	4.72	4.67	4.13	3.56	3.56
Annual Max Momentary Gage Height	10.21		m. (MSL.) ,			at 12.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	3.56		m. (MSL.) ,		River Bed	1.46	m. (MSL.)						
Left Bank Elevation	11.47		m. (MSL.) ,										
Right Bank Elevation	11.35		m. (MSL.) ,		Drainage Are	1,210	Square Kilometers						



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	0.70	1.80	7.80	6.80	115.60	58.90	11.30	3.60	5.80	2.20	0.00	
2	1.90	0.70	1.50	7.20	18.20	102.40	48.00	10.70	3.40	5.80	1.60	0.00	
3	2.40	0.65	1.30	23.00	12.50	97.00	37.00	11.30	3.20	5.80	1.20	0.00	
4	3.60	0.60	1.30	34.00	9.20	136.85	40.50	10.40	3.00	5.60	1.30	0.00	
5	4.80	0.45	0.95	44.00	7.60	105.40	42.50	9.50	2.80	5.60	1.10	0.00	
6	5.00	0.45	0.85	35.50	7.00	80.35	63.30	9.50	3.00	5.60	1.00	0.00	
7	5.00	0.50	0.75	23.00	8.00	70.45	53.95	8.90	2.80	5.60	1.20	0.00	
8	5.60	0.45	0.80	17.40	7.60	57.25	53.40	8.30	2.80	5.40	1.20	0.00	
9	5.60	0.45	0.85	17.40	7.40	73.75	55.60	7.80	2.40	4.60	1.10	0.00	
10	5.40	0.35	0.95	14.90	11.00	73.75	55.05	7.60	2.60	4.00	1.10	0.00	
11	5.00	0.30	1.20	12.50	14.90	77.60	51.75	7.40	3.00	4.00	1.00	0.00	
12	4.80	0.25	1.90	10.40	25.40	78.70	51.20	7.00	6.00	4.00	0.95	0.00	
13	4.60	0.35	2.80	8.30	21.00	65.50	50.10	6.80	6.40	4.20	0.85	0.00	
14	3.00	0.45	4.40	7.60	19.40	59.45	52.85	6.40	6.60	4.20	0.70	0.00	
15	1.90	0.50	4.60	6.80	18.20	143.35	47.00	6.40	6.60	4.00	0.60	0.00	
16	1.60	0.70	4.80	6.00	17.00	106.60	41.00	6.20	6.60	4.00	0.45	0.00	
17	1.30	1.00	6.00	5.60	33.50	71.00	36.00	6.00	6.60	3.80	0.25	0.00	
18	1.00	1.70	7.60	5.20	37.50	90.40	32.50	5.80	6.60	3.80	0.10	0.00	
19	0.85	1.80	8.60	3.40	30.50	81.45	29.50	5.60	6.60	3.40	0.00	0.00	
20	0.80	1.70	8.00	2.60	37.00	104.80	27.40	5.40	6.40	2.80	0.00	0.00	
21	0.80	1.50	6.20	2.20	48.00	112.60	21.40	5.20	6.80	2.40	0.00	0.00	
22	0.65	1.20	5.20	1.80	41.00	266.60	19.80	5.00	7.60	2.20	0.00	0.00	
23	0.50	1.10	5.00	1.60	34.00	336.20	17.80	4.60	7.80	1.90	0.00	0.00	
24	0.40	0.95	4.60	1.50	35.50	307.40	16.70	4.40	7.80	1.70	0.00	0.00	
25	0.50	0.80	4.00	2.00	46.50	239.75	15.80	4.40	7.60	1.90	0.00	0.00	
26	0.55	0.70	3.40	2.20	118.65	171.00	15.20	4.20	6.60	2.40	0.00	0.00	
27	0.45	0.95	3.00	4.40	95.20	136.85	14.30	4.20	6.00	2.60	0.00	0.00	
28	0.55	1.20	3.60	5.00	61.10	113.20	14.00	4.00	6.00	3.60	0.00	0.00	
29	0.65	1.30	9.80	6.00	46.00	94.60	13.10	3.80	6.00	4.00	0.00	0.00	
30	0.65	1.60	8.30	7.40	42.00	77.60	12.20	3.80	5.80	4.00	0.00	0.00	
31		1.90		7.20	71.55		11.60		5.60	4.00		0.00	
Total	71.65	27.25	114.05	333.90	989.20	3647.45	1099.40	201.90	164.60	122.70	17.90	0.00	6790.00 CMSDAY
Mean	2.39	0.88	3.80	10.77	31.91	121.58	35.46	6.73	5.31	3.96	0.62	0.00	18.55 CMS
Max	5.60	1.90	9.80	44.00	118.65	336.20	63.30	11.30	7.80	5.80	2.20	0.00	336.20 CMS
Min	0.40	0.25	0.75	1.50	6.80	57.25	11.60	3.80	2.40	1.70	0.00	0.00	0.00 CMS
Runoff	6.19	2.35	9.85	28.85	85.47	315.14	94.99	17.44	14.22	10.60	1.55	0.00	586.66 MCM
Momentary Peak	341.80	CMS, at 10.21 m. (MSL), at 12.00 Hours, on Sep 23, 2019											
Runoff Yield	15.37	Liters/Second/Square KM.		Momentary Peak Yield		282.48	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Phloeng Yai at Ban Phu Ngoen , Sa Kao (Kgt.38)

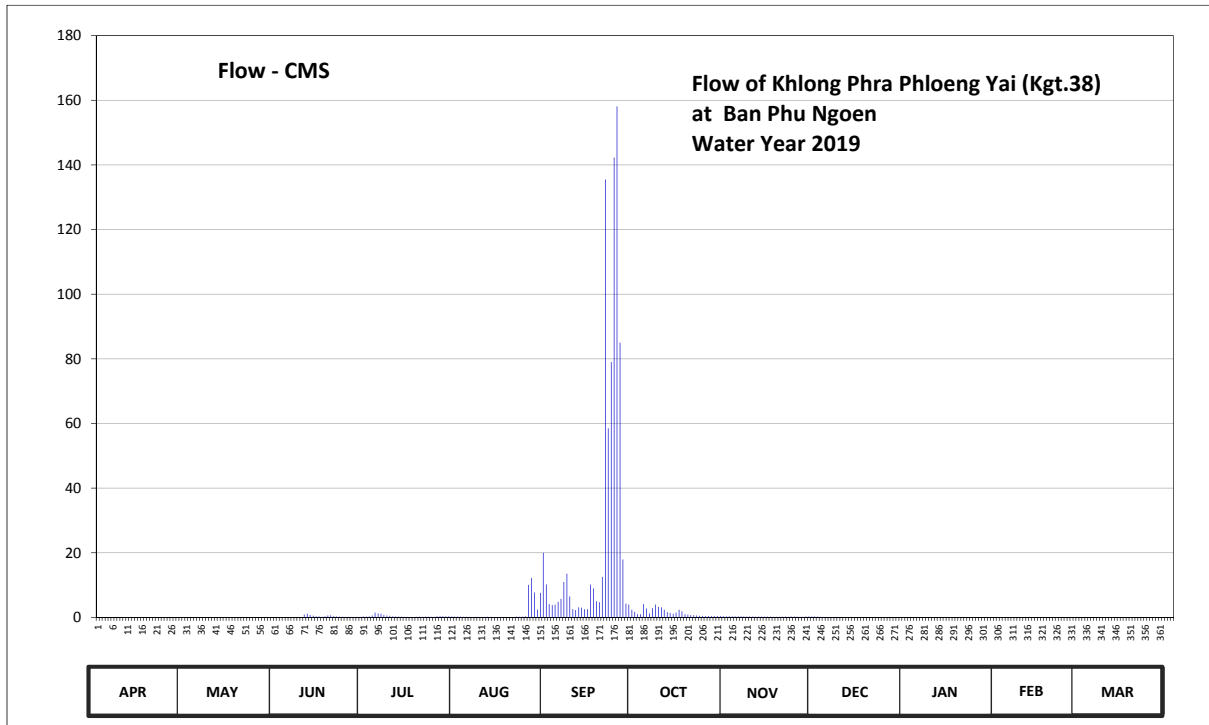
Lat 13 - 36 - 03 N Long 102 - 02 - 07 E

Location : on left bank at the bridge.

	<b>Ban</b> Phu Ngoen	<b>Amphoe</b> Khao Chakan	<b>Changwat</b> Sa Kao
<b>Drainage Area</b>	289 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+9.483 m. (A.D.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	2008 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2008 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2008 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (A.D.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.64	0.26	0.20	1.65	1.65	2.04	1.80	1.67	1.65	1.43	1.18	0.76	
2	0.63	0.20	0.27	1.66	1.65	2.02	1.80	1.67	1.64	1.42	1.16	0.75	
3	0.62	0.13	0.37	1.72	1.64	2.03	2.04	1.67	1.63	1.41	1.14	0.74	
4	0.61	0.04	0.48	1.84	1.64	2.09	1.94	1.67	1.63	1.40	1.12	0.73	
5	0.60	0.00	0.58	1.82	1.63	2.15	1.82	1.67	1.62	1.39	1.10	0.73	
6	0.59	0.00	0.66	1.81	1.62	2.72	1.95	1.67	1.62	1.37	1.08	0.72	
7	0.58	0.00	0.72	1.75	1.63	2.94	2.03	1.66	1.62	1.36	1.06	0.71	
8	0.57	0.02	1.00	1.72	1.63	2.20	1.98	1.66	1.61	1.35	1.05	0.70	
9	0.56	0.05	1.33	1.70	1.62	1.92	1.97	1.66	1.60	1.35	1.04	0.70	
10	0.54	0.08	1.78	1.67	1.63	1.90	1.91	1.65	1.60	1.34	1.04	0.70	
11	0.52	0.12	1.81	1.66	1.64	1.97	1.85	1.65	1.59	1.34	1.03	0.70	
12	0.50	0.15	1.75	1.65	1.63	1.96	1.83	1.65	1.59	1.34	1.03	0.69	
13	0.48	0.18	1.71	1.65	1.62	1.92	1.81	1.65	1.59	1.33	1.02	0.69	
14	0.46	0.22	1.67	1.63	1.62	1.92	1.84	1.65	1.59	1.33	1.00	0.69	
15	0.44	0.26	1.66	1.63	1.62	2.54	1.91	1.65	1.58	1.32	0.97	0.70	
16	0.42	0.28	1.64	1.63	1.61	2.34	1.87	1.64	1.58	1.32	0.94	0.70	
17	0.40	0.30	1.67	1.62	1.61	2.10	1.80	1.64	1.57	1.31	0.91	0.70	
18	0.38	0.30	1.72	1.64	1.61	2.08	1.77	1.64	1.56	1.31	0.88	0.72	
19	0.37	0.30	1.73	1.65	1.61	2.86	1.74	1.65	1.56	1.30	0.85	0.72	
20	0.36	0.31	1.68	1.64	1.61	4.98	1.74	1.65	1.55	1.30	0.83	0.71	
21	0.35	0.31	1.66	1.65	1.65	4.24	1.72	1.64	1.54	1.30	0.83	0.71	
22	0.35	0.32	1.65	1.65	1.64	4.49	1.70	1.66	1.53	1.30	0.82	0.71	
23	0.34	0.32	1.64	1.64	1.65	5.03	1.69	1.66	1.53	1.29	0.82	0.69	
24	0.34	0.32	1.63	1.64	1.67	5.14	1.68	1.65	1.52	1.29	0.82	0.67	
25	0.33	0.32	1.63	1.67	2.47	4.55	1.68	1.64	1.50	1.28	0.81	0.65	
26	0.33	0.30	1.63	1.68	2.84	3.23	1.68	1.64	1.50	1.28	0.81	0.63	
27	0.32	0.28	1.63	1.68	2.27	2.05	1.68	1.66	1.49	1.26	0.80	0.60	
28	0.32	0.26	1.63	1.67	1.91	2.03	1.68	1.66	1.47	1.24	0.79	0.57	
29	0.31	0.24	1.63	1.67	2.26	1.91	1.68	1.66	1.47	1.22	0.78	0.55	
30	0.30	0.22	1.66	1.66	3.32	1.86	1.68	1.66	1.46	1.20	0.76	0.53	
31		0.21		1.65	2.57		1.67		1.46	1.18		0.51	
Mean	0.45	0.20	1.36	1.68	1.83	2.71	1.80	1.65	1.56	1.32	0.96	0.68	
Max	0.64	0.32	1.81	1.84	3.32	5.14	2.04	1.67	1.65	1.43	1.18	0.76	5.14
Min	0.30	0.00	0.20	1.62	1.61	1.86	1.67	1.64	1.46	1.18	0.78	0.51	0.00
Annual Max Momentary Gage Height	5.18			m. (A.D.) ,			at 06.00 Hours, on Sep 24, 2019						
Zero Gage at Bottom Elevation	0.00			m. (A.D.) ,		River Bed	0.01	m. (A.D.) ,					
Left Bank Elevation		8.30		m. (A.D.) ,									
Right Bank Elevation		7.72		m. (A.D.) ,		Drainage Are	289	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.25	0.25	4.10	1.00	0.35	0.25	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.30	0.25	3.80	1.00	0.35	0.20	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.60	0.20	3.95	4.10	0.35	0.15	0.00	0.00	0.00	
4	0.00	0.00	0.00	1.50	0.20	4.85	2.75	0.35	0.15	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.25	0.15	5.75	1.25	0.35	0.10	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.13	0.10	10.95	2.88	0.35	0.10	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.75	0.15	13.50	3.95	0.30	0.10	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.60	0.15	6.50	3.25	0.30	0.05	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.50	0.10	2.50	3.13	0.30	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.90	0.35	0.15	2.25	2.38	0.25	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.13	0.30	0.20	3.13	1.63	0.25	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.75	0.25	0.15	3.00	1.38	0.25	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.55	0.25	0.10	2.50	1.13	0.25	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.35	0.15	0.10	2.50	1.50	0.25	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.30	0.15	0.10	10.16	2.38	0.25	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.20	0.15	0.05	8.95	1.88	0.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.35	0.10	0.05	5.00	1.00	0.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.60	0.20	0.05	4.70	0.85	0.20	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.65	0.25	0.05	12.50	0.70	0.25	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.40	0.20	0.05	135.50	0.70	0.25	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.30	0.25	0.25	58.50	0.60	0.20	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.25	0.25	0.20	79.03	0.50	0.30	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.20	0.20	0.25	142.28	0.45	0.30	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.15	0.20	0.35	158.15	0.40	0.25	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.15	0.35	10.07	85.00	0.40	0.20	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.15	0.40	12.25	17.93	0.40	0.20	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.15	0.40	7.73	4.25	0.40	0.30	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.15	0.35	2.38	3.95	0.40	0.30	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.15	0.35	7.55	2.38	0.40	0.30	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.30	0.30	20.00	1.75	0.40	0.30	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.25	10.21	0.00	0.35	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	0.00	0.00	8.13	12.53	73.84	799.31	43.54	8.25	1.10	0.00	0.00	0.00	946.70 CMSDAY
<b>Mean</b>	0.00	0.00	0.27	0.40	2.38	26.64	1.40	0.28	0.04	0.00	0.00	0.00	2.59 CMS
<b>Max</b>	0.00	0.00	1.13	1.50	20.00	158.15	4.10	0.35	0.25	0.00	0.00	0.00	158.15 CMS
<b>Min</b>	0.00	0.00	0.00	0.10	0.05	1.75	0.35	0.20	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.00	0.70	1.08	6.38	69.06	3.76	0.71	0.10	0.00	0.00	0.00	81.79 MCM
<b>Momentary Peak</b>	164.05	CMS, at	5.18 m. (A.D), at	06.00 Hours, on	Sep 24, 2019								
<b>Runoff Yield</b>	8.97	Liters/Second/Square KM.		Momentary Peak Yield	567.65	Liters/Second/Square KM.							



## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Upper Khlong Phra Sathung at Ban Thung Kabin , Sa Kao (Kgt.40)

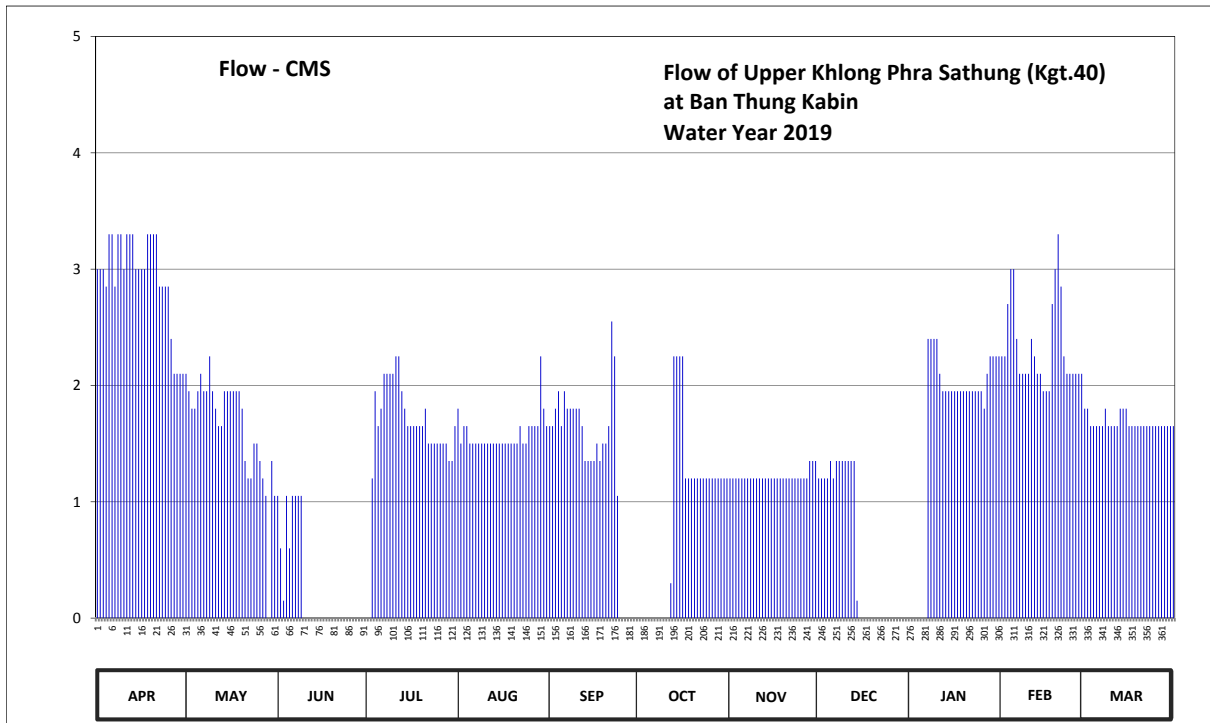
Lat 13 - 25 - 45 N Long 102 - 05 - 00 E

Location : on left bank at the bridge on highway.

	Ban Thung Kabin	Amphoe Wang Sombun	Changwat Sa Kao
<b>Drainage Area</b>	574 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+77.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+85.575 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	79.40	79.34	79.27	78.94	79.32	79.31	79.03	79.28	79.28	79.19	79.35	79.32	
2	79.40	79.33	79.24	79.06	79.30	79.31	79.02	79.28	79.28	79.19	79.35	79.32	
3	79.40	79.32	79.21	79.28	79.31	79.32	79.02	79.28	79.28	79.19	79.38	79.31	
4	79.39	79.32	79.27	79.33	79.31	79.33	79.03	79.28	79.28	79.19	79.40	79.31	
5	79.41	79.33	79.24	79.31	79.30	79.31	79.02	79.28	79.29	79.19	79.40	79.31	
6	79.41	79.34	79.27	79.32	79.30	79.33	79.02	79.28	79.28	79.19	79.36	79.31	
7	79.39	79.33	79.27	79.34	79.30	79.32	79.02	79.28	79.29	79.36	79.34	79.31	
8	79.41	79.33	79.27	79.34	79.30	79.32	79.02	79.28	79.29	79.36	79.34	79.32	
9	79.41	79.35	79.27	79.34	79.30	79.32	79.02	79.28	79.29	79.36	79.34	79.31	
10	79.40	79.33	79.17	79.34	79.30	79.32	79.01	79.28	79.29	79.36	79.34	79.31	
11	79.41	79.32	79.10	79.35	79.30	79.32	78.99	79.28	79.29	79.34	79.36	79.31	
12	79.41	79.31	78.91	79.35	79.30	79.31	79.22	79.28	79.29	79.33	79.35	79.31	
13	79.41	79.31	78.91	79.33	79.30	79.29	79.35	79.28	79.29	79.33	79.34	79.32	
14	79.40	79.33	79.07	79.32	79.30	79.29	79.35	79.28	79.21	79.33	79.34	79.32	
15	79.40	79.33	79.04	79.31	79.30	79.29	79.35	79.28	79.20	79.33	79.33	79.32	
16	79.40	79.33	78.91	79.31	79.30	79.29	79.35	79.28	79.20	79.33	79.33	79.31	
17	79.40	79.33	79.16	79.31	79.30	79.30	79.28	79.28	79.20	79.33	79.33	79.31	
18	79.41	79.33	79.13	79.31	79.30	79.29	79.28	79.28	79.20	79.33	79.38	79.31	
19	79.41	79.33	78.98	79.31	79.30	79.30	79.28	79.28	79.20	79.33	79.40	79.31	
20	79.41	79.32	79.09	79.31	79.30	79.30	79.28	79.28	79.20	79.33	79.41	79.31	
21	79.41	79.29	79.13	79.32	79.30	79.31	79.28	79.28	79.20	79.33	79.39	79.31	
22	79.39	79.28	78.93	79.30	79.31	79.37	79.28	79.28	79.20	79.33	79.35	79.31	
23	79.39	79.28	79.10	79.30	79.30	79.35	79.28	79.28	79.20	79.33	79.34	79.31	
24	79.39	79.30	79.15	79.30	79.30	79.27	79.28	79.28	79.20	79.33	79.34	79.31	
25	79.39	79.30	79.15	79.30	79.31	79.18	79.28	79.28	79.20	79.33	79.34	79.31	
26	79.36	79.29	78.93	79.30	79.31	79.09	79.28	79.28	79.19	79.32	79.34	79.31	
27	79.34	79.28	78.90	79.30	79.31	79.04	79.28	79.28	79.20	79.34	79.34	79.31	
28	79.34	79.27	78.95	79.30	79.31	79.04	79.28	79.29	79.19	79.35	79.34	79.31	
29	79.34	79.18	78.80	79.29	79.35	79.04	79.28	79.29	79.19	79.35	79.34	79.31	
30	79.34	79.29	78.80	79.29	79.32	79.03	79.28	79.29	79.19	79.35		79.31	
31		79.27		79.31	79.31		79.28		79.19	79.35		79.31	
Mean	79.39	79.31	79.09	79.29	79.31	79.26	79.19	79.28	79.23	79.31	79.35	79.31	
Max	79.41	79.35	79.27	79.35	79.35	79.37	79.35	79.29	79.29	79.36	79.41	79.32	79.41
Min	79.34	79.18	78.80	78.94	79.30	79.03	78.99	79.28	79.19	79.19	79.33	79.31	78.80
Annual Max Momentary Gage Height	79.47		m. (MSL.) ,				at 18.00 Hours, on Sep 22, 2019						
Zero Gage at Bottom Elevation	77.00		m. (MSL.) ,			River Bed	76.73	m. (MSL.)					
Left Bank Elevation		86.34		m. (MSL.) ,									
Right Bank Elevation		86.07		m. (MSL.) ,		Drainage Are	574	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.00	2.10	1.05	0.00	1.80	1.65	0.00	1.20	1.20	0.00	2.25	1.80	
2	3.00	1.95	0.60	0.00	1.50	1.65	0.00	1.20	1.20	0.00	2.25	1.80	
3	3.00	1.80	0.15	1.20	1.65	1.80	0.00	1.20	1.20	0.00	2.70	1.65	
4	2.85	1.80	1.05	1.95	1.65	1.95	0.00	1.20	1.20	0.00	3.00	1.65	
5	3.30	1.95	0.60	1.65	1.50	1.65	0.00	1.20	1.35	0.00	3.00	1.65	
6	3.30	2.10	1.05	1.80	1.50	1.95	0.00	1.20	1.20	0.00	2.40	1.65	
7	2.85	1.95	1.05	2.10	1.50	1.80	0.00	1.20	1.35	2.40	2.10	1.65	
8	3.30	1.95	1.05	2.10	1.50	1.80	0.00	1.20	1.35	2.40	2.10	1.80	
9	3.30	2.25	1.05	2.10	1.50	1.80	0.00	1.20	1.35	2.40	2.10	1.65	
10	3.00	1.95	0.00	2.10	1.50	1.80	0.00	1.20	1.35	2.40	2.10	1.65	
11	3.30	1.80	0.00	2.25	1.50	1.80	0.00	1.20	1.35	2.10	2.40	1.65	
12	3.30	1.65	0.00	2.25	1.50	1.65	0.30	1.20	1.35	1.95	2.25	1.65	
13	3.30	1.65	0.00	1.95	1.50	1.35	2.25	1.20	1.35	1.95	2.10	1.80	
14	3.00	1.95	0.00	1.80	1.50	1.35	2.25	1.20	0.15	1.95	2.10	1.80	
15	3.00	1.95	0.00	1.65	1.50	1.35	2.25	1.20	0.00	1.95	1.95	1.80	
16	3.00	1.95	0.00	1.65	1.50	1.35	2.25	1.20	0.00	1.95	1.95	1.65	
17	3.00	1.95	0.00	1.65	1.50	1.50	1.20	1.20	0.00	1.95	1.95	1.65	
18	3.30	1.95	0.00	1.65	1.50	1.35	1.20	1.20	0.00	1.95	2.70	1.65	
19	3.30	1.95	0.00	1.65	1.50	1.50	1.20	1.20	0.00	1.95	3.00	1.65	
20	3.30	1.80	0.00	1.65	1.50	1.50	1.20	1.20	0.00	1.95	3.30	1.65	
21	3.30	1.35	0.00	1.80	1.50	1.65	1.20	1.20	0.00	1.95	2.85	1.65	
22	2.85	1.20	0.00	1.50	1.65	2.55	1.20	1.20	0.00	1.95	2.25	1.65	
23	2.85	1.20	0.00	1.50	1.50	2.25	1.20	1.20	0.00	1.95	2.10	1.65	
24	2.85	1.50	0.00	1.50	1.50	1.05	1.20	1.20	0.00	1.95	2.10	1.65	
25	2.85	1.50	0.00	1.50	1.65	0.00	1.20	1.20	0.00	1.95	2.10	1.65	
26	2.40	1.35	0.00	1.50	1.65	0.00	1.20	1.20	0.00	1.80	2.10	1.65	
27	2.10	1.20	0.00	1.50	1.65	0.00	1.20	1.20	0.00	2.10	2.10	1.65	
28	2.10	1.05	0.00	1.50	1.65	0.00	1.20	1.35	0.00	2.25	2.10	1.65	
29	2.10	0.00	0.00	1.35	2.25	0.00	1.20	1.35	0.00	2.25	2.10	1.65	
30	2.10	1.35	0.00	1.35	1.80	0.00	1.20	1.35	0.00	2.25	2.10	1.65	
31		1.05		1.65	1.65		1.20		0.00	2.25		1.65	
Total	88.20	51.15	7.65	49.80	49.05	40.05	27.30	36.45	16.95	51.90	67.50	52.05	538.05 CMSDAY
Mean	2.94	1.65	0.26	1.61	1.58	1.34	0.88	1.21	0.55	1.67	2.33	1.68	1.47 CMS
Max	3.30	2.25	1.05	2.25	2.25	2.55	2.25	1.35	1.35	2.40	3.30	1.80	3.30 CMS
Min	2.10	0.00	0.00	0.00	1.50	0.00	0.00	1.20	0.00	0.00	1.95	1.65	0.00 CMS
Runoff	7.62	4.42	0.66	4.30	4.24	3.46	2.36	3.15	1.46	4.48	5.83	4.50	46.49 MCM
Momentary Peak	5.10	CMS, at 79.47 m. (MSL), at 18.00 Hours, on Sep 22, 2019											
Runoff Yield	2.57	Liters/Second/Square KM. Momentary Peak Yield 8.89 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Tharapha , Sa Kao (Kgt.42)

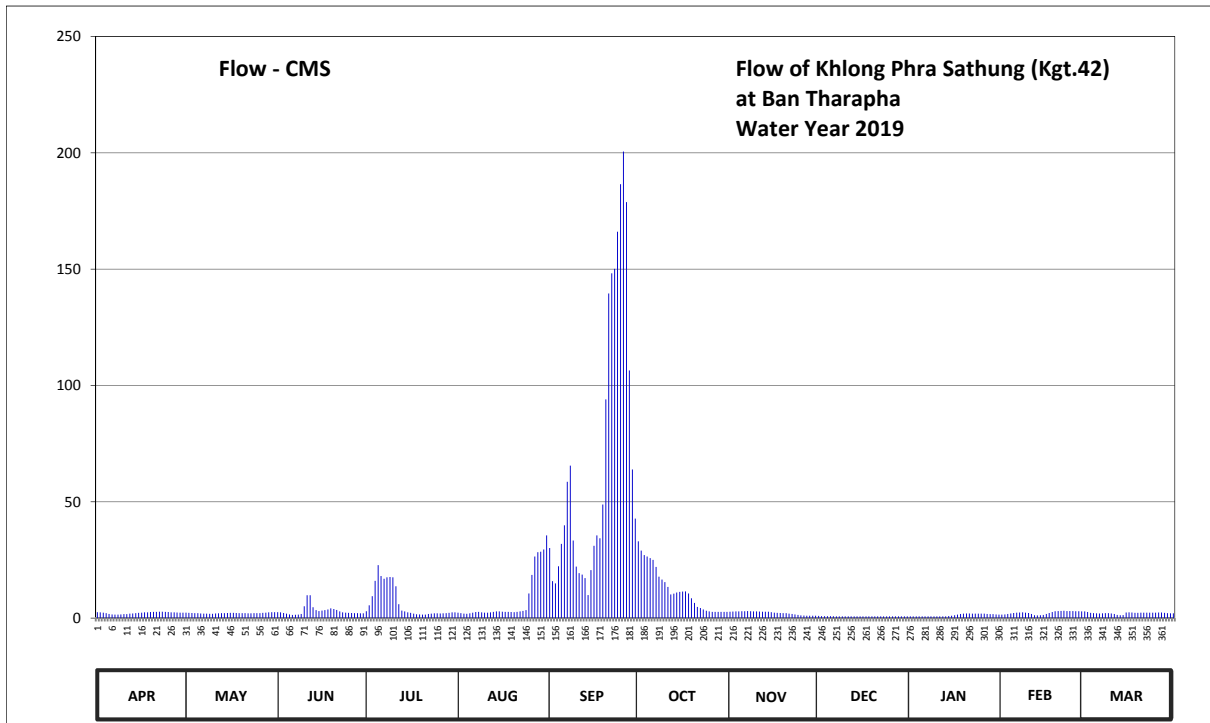
Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	<b>Ban Tharapha</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	2,558 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+14.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+26.947 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2005 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2005 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2005 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 61 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.91	14.87	14.91	14.99	14.87	17.32	17.50	14.95	14.57	14.50	14.70	14.97	
2	14.89	14.85	14.89	15.35	14.83	16.39	17.25	14.96	14.54	14.50	14.72	14.92	
3	14.86	14.84	14.84	15.74	14.79	16.29	17.13	14.97	14.53	14.50	14.76	14.85	
4	14.82	14.83	14.78	16.40	14.77	16.82	17.09	14.98	14.53	14.50	14.80	14.82	
5	14.75	14.82	14.71	16.85	14.81	17.43	17.05	14.99	14.52	14.50	14.84	14.81	
6	14.71	14.80	14.68	16.54	14.87	17.93	17.00	14.99	14.52	14.50	14.86	14.80	
7	14.70	14.79	14.69	16.46	14.92	18.88	16.80	15.00	14.51	14.50	14.88	14.81	
8	14.70	14.78	14.70	16.50	14.93	19.19	16.52	14.99	14.51	14.50	14.89	14.82	
9	14.72	14.77	14.75	16.51	14.89	17.52	16.44	14.98	14.50	14.50	14.86	14.82	
10	14.74	14.77	15.31	16.50	14.87	16.81	16.35	14.97	14.50	14.50	14.84	14.80	
11	14.74	14.80	15.78	16.17	14.86	16.62	16.14	14.96	14.50	14.50	14.75	14.76	
12	14.78	14.81	15.78	15.40	14.89	16.58	15.82	14.95	14.50	14.50	14.64	14.68	
13	14.80	14.82	15.27	15.04	14.93	16.48	15.85	14.95	14.50	14.50	14.63	14.65	
14	14.82	14.83	15.08	14.98	14.97	15.79	15.90	14.95	14.50	14.55	14.64	14.66	
15	14.85	14.84	15.01	14.89	14.97	16.71	15.93	14.91	14.50	14.60	14.68	14.88	
16	14.87	14.85	15.04	14.85	14.95	17.38	15.94	14.87	14.50	14.65	14.76	14.90	
17	14.89	14.85	15.08	14.78	14.94	17.66	15.95	14.85	14.50	14.70	14.84	14.88	
18	14.90	14.84	15.14	14.73	14.93	17.58	15.86	14.84	14.50	14.76	14.92	14.85	
19	14.92	14.83	15.22	14.71	14.92	18.39	15.65	14.83	14.50	14.78	14.99	14.85	
20	14.93	14.82	15.18	14.70	14.91	20.31	15.45	14.82	14.50	14.80	15.01	14.86	
21	14.94	14.82	15.10	14.70	14.93	21.85	15.28	14.79	14.50	14.80	15.02	14.86	
22	14.95	14.81	14.97	14.75	14.98	22.13	15.23	14.75	14.50	14.79	15.03	14.86	
23	14.95	14.81	14.89	14.79	15.02	22.19	15.14	14.71	14.50	14.79	15.00	14.86	
24	14.94	14.82	14.86	14.81	15.09	22.69	15.03	14.67	14.50	14.78	15.00	14.87	
25	14.92	14.82	14.85	14.81	15.86	23.30	14.97	14.63	14.50	14.78	15.00	14.87	
26	14.90	14.83	14.84	14.80	16.57	23.70	14.94	14.62	14.50	14.78	14.99	14.88	
27	14.89	14.85	14.83	14.81	17.09	23.08	14.93	14.61	14.50	14.76	14.99	14.88	
28	14.88	14.87	14.82	14.83	17.21	20.74	14.93	14.61	14.50	14.74	14.98	14.85	
29	14.87	14.89	14.81	14.85	17.22	19.12	14.94	14.60	14.50	14.74	14.98	14.82	
30	14.87	14.91	14.81	14.89	17.28	18.09	14.94	14.60	14.50	14.72	14.98	14.81	
31		14.91		14.90	17.66		14.94		14.50	14.70		14.81	
Mean	14.85	14.83	14.99	15.32	15.38	18.83	15.90	14.84	14.51	14.64	14.86	14.83	
Max	14.95	14.91	15.78	16.85	17.66	23.70	17.50	15.00	14.57	14.80	15.03	14.97	23.70
Min	14.70	14.77	14.68	14.70	14.77	15.79	14.93	14.60	14.50	14.50	14.63	14.65	14.50
Annual Max Momentary Gage Height	23.74		m. (MSL.) ,			at 17.00 Hours, on Sep 26, 2019							
Zero Gage at Bottom Elevation	14.50		m. (MSL.) ,			River Bed	14.33	m. (MSL.)					
Left Bank Elevation		26.09		m. (MSL.) ,									
Right Bank Elevation		26.13		m. (MSL.) ,		Drainage Are	2,558	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.55	2.35	2.55	2.95	2.35	30.12	33.00	2.75	0.93	0.75	1.50	2.85		
2	2.45	2.25	2.45	5.50	2.15	15.90	29.00	2.80	0.85	0.75	1.60	2.60		
3	2.30	2.20	2.20	9.40	1.95	14.90	27.08	2.85	0.83	0.75	1.80	2.25		
4	2.10	2.15	1.90	16.00	1.85	22.30	26.44	2.90	0.83	0.75	2.00	2.10		
5	1.75	2.10	1.55	22.75	2.05	31.88	25.80	2.95	0.80	0.75	2.20	2.05		
6	1.55	2.00	1.40	18.10	2.35	39.88	25.00	2.95	0.80	0.75	2.30	2.00		
7	1.50	1.95	1.45	16.90	2.60	58.60	22.00	3.00	0.78	0.75	2.40	2.05		
8	1.50	1.90	1.50	17.50	2.65	65.56	17.80	2.95	0.78	0.75	2.45	2.10		
9	1.60	1.85	1.75	17.65	2.45	33.32	16.60	2.90	0.75	0.75	2.30	2.10		
10	1.70	1.85	5.10	17.50	2.35	22.15	15.50	2.85	0.75	0.75	2.20	2.00		
11	1.70	2.00	9.80	13.70	2.30	19.30	13.40	2.80	0.75	0.75	1.75	1.80		
12	1.90	2.05	9.80	6.00	2.45	18.70	10.20	2.75	0.75	0.75	1.20	1.40		
13	2.00	2.10	4.70	3.20	2.65	17.20	10.50	2.75	0.75	0.75	1.15	1.25		
14	2.10	2.15	3.40	2.90	2.85	9.90	11.00	2.75	0.75	0.88	1.20	1.30		
15	2.25	2.20	3.05	2.45	2.85	20.65	11.30	2.55	0.75	1.00	1.40	2.40		
16	2.35	2.25	3.20	2.25	2.75	31.08	11.40	2.35	0.75	1.25	1.80	2.50		
17	2.45	2.25	3.40	1.90	2.70	35.56	11.50	2.25	0.75	1.50	2.20	2.40		
18	2.50	2.20	3.70	1.65	2.65	34.28	10.60	2.20	0.75	1.80	2.60	2.25		
19	2.60	2.15	4.20	1.55	2.60	48.80	8.50	2.15	0.75	1.90	2.95	2.25		
20	2.65	2.10	3.90	1.50	2.55	93.99	6.50	2.10	0.75	2.00	3.05	2.30		
21	2.70	2.10	3.50	1.50	2.65	139.50	4.80	1.95	0.75	2.00	3.10	2.30		
22	2.75	2.05	2.85	1.75	2.90	148.16	4.30	1.75	0.75	1.95	3.15	2.30		
23	2.75	2.05	2.45	1.95	3.10	150.08	3.70	1.55	0.75	1.95	3.00	2.30		
24	2.70	2.10	2.30	2.05	3.45	166.08	3.15	1.35	0.75	1.90	3.00	2.35		
25	2.60	2.10	2.25	2.05	10.60	186.50	2.85	1.15	0.75	1.90	3.00	2.35		
26	2.50	2.15	2.20	2.00	18.55	200.50	2.70	1.10	0.75	1.90	2.95	2.40		
27	2.45	2.25	2.15	2.05	26.44	178.80	2.65	1.05	0.75	1.80	2.95	2.40		
28	2.40	2.35	2.10	2.15	28.36	106.46	2.65	1.05	0.75	1.70	2.90	2.25		
29	2.35	2.45	2.05	2.25	28.52	63.88	2.70	1.00	0.75	1.70	2.90	2.10		
30	2.35	2.55	2.05	2.45	29.48	42.80	2.70	1.00	0.75	1.60		2.05		
31		2.55		2.50	35.56		2.70		0.75	1.50		2.05		
<b>Total</b>	<b>67.05</b>	<b>66.75</b>	<b>94.90</b>	<b>204.05</b>	<b>238.71</b>	<b>2046.83</b>	<b>378.02</b>	<b>66.50</b>	<b>23.85</b>	<b>39.98</b>	<b>67.00</b>	<b>66.80</b>	<b>3360.44</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>2.23</b>	<b>2.15</b>	<b>3.16</b>	<b>6.58</b>	<b>7.70</b>	<b>68.23</b>	<b>12.19</b>	<b>2.22</b>	<b>0.77</b>	<b>1.29</b>	<b>2.31</b>	<b>2.15</b>	<b>9.18</b>	<b>CMS</b>
<b>Max</b>	<b>2.75</b>	<b>2.55</b>	<b>9.80</b>	<b>22.75</b>	<b>35.56</b>	<b>200.50</b>	<b>33.00</b>	<b>3.00</b>	<b>0.93</b>	<b>2.00</b>	<b>3.15</b>	<b>2.85</b>	<b>200.50</b>	<b>CMS</b>
<b>Min</b>	<b>1.50</b>	<b>1.85</b>	<b>1.40</b>	<b>1.50</b>	<b>1.85</b>	<b>9.90</b>	<b>2.65</b>	<b>1.00</b>	<b>0.75</b>	<b>0.75</b>	<b>1.15</b>	<b>1.25</b>	<b>0.75</b>	<b>CMS</b>
<b>Runoff</b>	<b>5.79</b>	<b>5.77</b>	<b>8.20</b>	<b>17.63</b>	<b>20.62</b>	<b>176.85</b>	<b>32.66</b>	<b>5.75</b>	<b>2.06</b>	<b>3.45</b>	<b>5.79</b>	<b>5.77</b>	<b>290.34</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>201.90</b>	<b>CMS, at 23.74 m. (MSL), at 17.00 Hours, on Sep 26, 2019</b>												
<b>Runoff Yield</b>	<b>3.52</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 77.09 Liters/Second/Square KM.</b>												

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Khwae Hanuman at Ban Na Khaem, Prachin Buri (Kgt.43A)

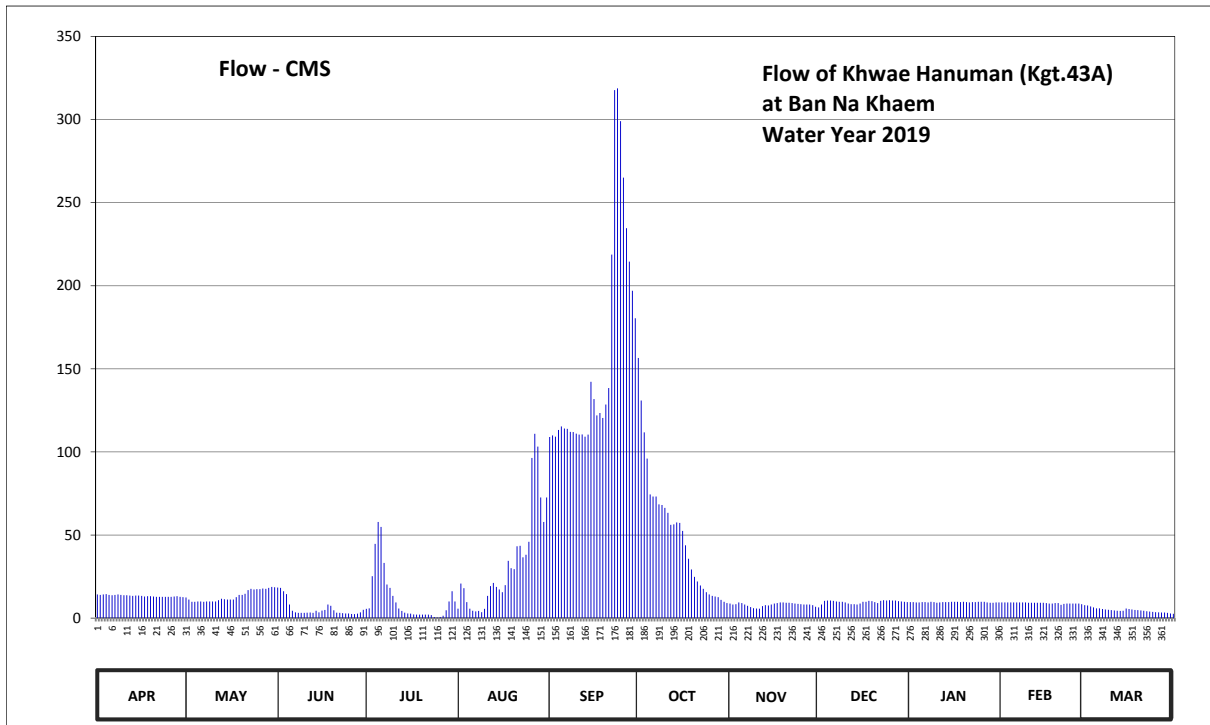
Lat 13 - 59 - 36 N Long 101 - 42 - 52 E

Location : on left bank at the bridge.

	<b>Ban Na Khaem</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	2,142 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+2.070 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.		<b>Elevation</b> +14.431 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2016 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2016 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2016 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.81	3.72	4.02	3.36	3.37	7.19	9.51	3.54	3.42	3.58	3.57	3.49	
2	3.80	3.66	4.01	3.39	4.14	7.39	8.83	3.51	3.51	3.58	3.57	3.48	
3	3.81	3.59	3.91	4.36	4.00	7.23	7.76	3.52	3.62	3.57	3.57	3.45	
4	3.82	3.59	3.82	5.09	3.58	7.92	6.70	3.57	3.63	3.57	3.57	3.42	
5	3.80	3.60	3.51	5.53	3.37	8.13	6.08	3.55	3.63	3.58	3.57	3.39	
6	3.79	3.60	3.24	5.43	3.24	8.01	6.04	3.51	3.62	3.58	3.57	3.39	
7	3.80	3.59	3.15	4.69	3.20	7.99	6.04	3.47	3.60	3.57	3.57	3.35	
8	3.81	3.60	3.12	4.11	3.23	7.81	5.88	3.43	3.59	3.59	3.57	3.32	
9	3.80	3.60	3.12	4.01	3.16	7.80	5.87	3.40	3.59	3.58	3.57	3.30	
10	3.79	3.60	3.12	3.77	3.36	7.59	5.81	3.38	3.57	3.56	3.56	3.28	
11	3.79	3.60	3.13	3.57	3.77	7.48	5.71	3.37	3.54	3.57	3.56	3.26	
12	3.78	3.64	3.14	3.38	4.06	7.51	5.47	3.46	3.52	3.58	3.56	3.24	
13	3.77	3.68	3.12	3.23	4.16	7.24	5.48	3.49	3.52	3.58	3.56	3.23	
14	3.78	3.67	3.24	3.13	4.04	7.49	5.52	3.48	3.51	3.58	3.56	3.24	
15	3.78	3.66	3.15	3.08	3.96	9.18	5.51	3.51	3.54	3.59	3.56	3.38	
16	3.77	3.66	3.25	3.07	3.88	8.86	5.35	3.54	3.59	3.59	3.55	3.35	
17	3.75	3.66	3.29	3.02	4.09	8.50	5.06	3.55	3.59	3.59	3.54	3.32	
18	3.76	3.73	3.51	3.01	4.74	8.57	4.79	3.57	3.62	3.58	3.54	3.29	
19	3.76	3.80	3.47	3.01	4.56	8.42	4.53	3.57	3.61	3.59	3.55	3.28	
20	3.75	3.80	3.27	3.01	4.54	8.75	4.34	3.56	3.58	3.58	3.55	3.26	
21	3.74	3.83	3.13	3.01	5.04	9.08	4.20	3.56	3.55	3.57	3.50	3.24	
22	3.74	3.94	3.12	3.01	5.05	10.51	4.08	3.55	3.62	3.58	3.53	3.21	
23	3.74	3.98	3.10	2.96	4.82	11.57	3.98	3.54	3.64	3.58	3.54	3.19	
24	3.74	3.96	3.08	2.73	4.87	11.58	3.88	3.53	3.63	3.59	3.54	3.17	
25	3.74	3.97	3.08	2.67	5.13	11.40	3.81	3.52	3.64	3.59	3.54	3.16	
26	3.74	3.97	3.05	2.74	6.71	11.06	3.77	3.51	3.63	3.59	3.54	3.15	
27	3.75	3.99	3.04	2.89	7.58	10.72	3.75	3.51	3.63	3.57	3.54	3.14	
28	3.76	3.98	3.07	3.27	6.88	10.45	3.73	3.51	3.61	3.56	3.52	3.14	
29	3.74	4.01	3.15	3.60	6.02	10.20	3.65	3.49	3.60	3.56	3.49	3.12	
30	3.73	4.04	3.30	3.91	5.53	9.94	3.59	3.44	3.59	3.57	3.57	3.08	
31		4.03		3.60	6.02		3.55		3.58	3.57		3.06	
Mean	3.77	3.77	3.29	3.54	4.52	8.85	5.23	3.50	3.58	3.58	3.55	3.27	
Max	3.82	4.04	4.02	5.53	7.58	11.58	9.51	3.57	3.64	3.59	3.57	3.49	11.58
Min	3.73	3.59	3.04	2.67	3.16	7.19	3.55	3.37	3.42	3.56	3.49	3.06	2.67
Annual Max Momentary Gage Height	11.61		m. (MSL.) ,			at 20.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	2.07		m. (MSL.) ,			River Bed	1.68	m. (MSL.)					
Left Bank Elevation		13.45	m. (MSL.) ,										
Right Bank Elevation		13.41	m. (MSL.) ,			Drainage Are	2,142	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.20	12.40	18.40	5.60	5.70	108.95	156.50	8.80	6.40	9.60	9.40	7.80		
2	14.00	11.20	18.20	5.90	20.80	109.95	130.90	8.20	8.20	9.60	9.40	7.60		
3	14.20	9.80	16.20	25.20	18.00	109.15	111.80	8.40	10.40	9.40	9.40	7.00		
4	14.40	9.80	14.40	44.70	9.60	113.20	96.00	9.40	10.60	9.40	9.40	6.40		
5	14.00	10.00	8.20	57.90	5.70	115.30	74.40	9.00	10.60	9.60	9.40	5.90		
6	13.80	10.00	4.40	54.90	4.40	114.10	73.20	8.20	10.40	9.60	9.40	5.90		
7	14.00	9.80	3.50	33.25	4.00	113.90	73.20	7.40	10.00	9.40	9.40	5.50		
8	14.20	10.00	3.20	20.20	4.30	112.10	68.40	6.60	9.80	9.80	9.40	5.20		
9	14.00	10.00	3.20	18.20	3.60	112.00	68.10	6.00	9.80	9.60	9.40	5.00		
10	13.80	10.00	3.20	13.40	5.60	110.95	66.30	5.80	9.40	9.20	9.20	4.80		
11	13.80	10.00	3.30	9.40	13.40	110.40	63.30	5.70	8.80	9.40	9.20	4.60		
12	13.60	10.80	3.40	5.80	19.20	110.55	56.10	7.20	8.40	9.60	9.20	4.40		
13	13.40	11.60	3.20	4.30	21.20	109.20	56.40	7.80	8.40	9.60	9.20	4.30		
14	13.60	11.40	4.40	3.30	18.80	110.45	57.60	7.60	8.20	9.60	9.20	4.40		
15	13.60	11.20	3.50	2.80	17.20	142.20	57.30	8.20	8.80	9.80	9.20	5.80		
16	13.40	11.20	4.50	2.70	15.60	131.80	52.50	8.80	9.80	9.80	9.00	5.50		
17	13.00	11.20	4.90	2.20	19.80	122.00	43.80	9.00	9.80	9.80	8.80	5.20		
18	13.20	12.60	8.20	2.10	34.50	123.40	35.75	9.40	10.40	9.60	8.80	4.90		
19	13.20	14.00	7.40	2.10	30.00	120.40	29.25	9.40	10.20	9.80	9.00	4.80		
20	13.00	14.00	4.70	2.10	29.50	128.50	24.80	9.20	9.60	9.60	9.00	4.60		
21	12.80	14.60	3.30	2.10	43.20	138.40	22.00	9.20	9.00	9.40	8.00	4.40		
22	12.80	16.80	3.20	2.10	43.50	218.70	19.60	9.00	10.40	9.60	8.60	4.10		
23	12.80	17.60	3.00	1.80	36.60	317.70	17.60	8.80	10.80	9.60	8.80	3.90		
24	12.80	17.20	2.80	0.65	38.10	318.80	15.60	8.60	10.60	9.80	8.80	3.70		
25	12.80	17.40	2.80	0.35	45.90	299.00	14.20	8.40	10.80	9.80	8.80	3.60		
26	12.80	17.40	2.50	0.70	96.40	265.00	13.40	8.20	10.60	9.80	8.80	3.50		
27	13.00	17.80	2.40	1.45	110.90	234.60	13.00	8.20	10.60	9.40	8.80	3.40		
28	13.20	17.60	2.70	4.70	103.20	214.50	12.60	8.20	10.20	9.20	8.40	3.40		
29	12.80	18.20	3.50	10.00	72.60	197.00	11.00	7.80	10.00	9.20	7.80	3.20		
30	12.60	18.80	5.00	16.20	57.90	180.40	9.80	6.80	9.80	9.40		2.80		
31		18.60		10.00	72.60		9.00		9.60	9.40		2.60		
<b>Total</b>	<b>402.80</b>	<b>413.00</b>	<b>171.60</b>	<b>366.10</b>	<b>1021.80</b>	<b>4712.60</b>	<b>1553.40</b>	<b>243.30</b>	<b>300.40</b>	<b>296.40</b>	<b>261.20</b>	<b>148.20</b>	<b>9890.80</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>13.43</b>	<b>13.32</b>	<b>5.72</b>	<b>11.81</b>	<b>32.96</b>	<b>157.09</b>	<b>50.11</b>	<b>8.11</b>	<b>9.69</b>	<b>9.56</b>	<b>9.01</b>	<b>4.78</b>	<b>27.02</b>	<b>CMS</b>
<b>Max</b>	<b>14.40</b>	<b>18.80</b>	<b>18.40</b>	<b>57.90</b>	<b>110.90</b>	<b>318.80</b>	<b>156.50</b>	<b>9.40</b>	<b>10.80</b>	<b>9.80</b>	<b>9.40</b>	<b>7.80</b>	<b>318.80</b>	<b>CMS</b>
<b>Min</b>	<b>12.60</b>	<b>9.80</b>	<b>2.40</b>	<b>0.35</b>	<b>3.60</b>	<b>108.95</b>	<b>9.00</b>	<b>5.70</b>	<b>6.40</b>	<b>9.20</b>	<b>7.80</b>	<b>2.60</b>	<b>0.35</b>	<b>CMS</b>
<b>Runoff</b>	<b>34.80</b>	<b>35.68</b>	<b>14.83</b>	<b>31.63</b>	<b>88.28</b>	<b>407.17</b>	<b>134.21</b>	<b>21.02</b>	<b>25.95</b>	<b>25.61</b>	<b>22.57</b>	<b>12.80</b>	<b>854.57</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>322.10</b>	<b>CMS, at 11.61 m. (MSL), at 20.00 Hours, on Sep 23, 2019</b>												
<b>Runoff Yield</b>	<b>12.65</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>150.36</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Prong at Ban Kaeng Sai , Sa Kao (Kgt.44)

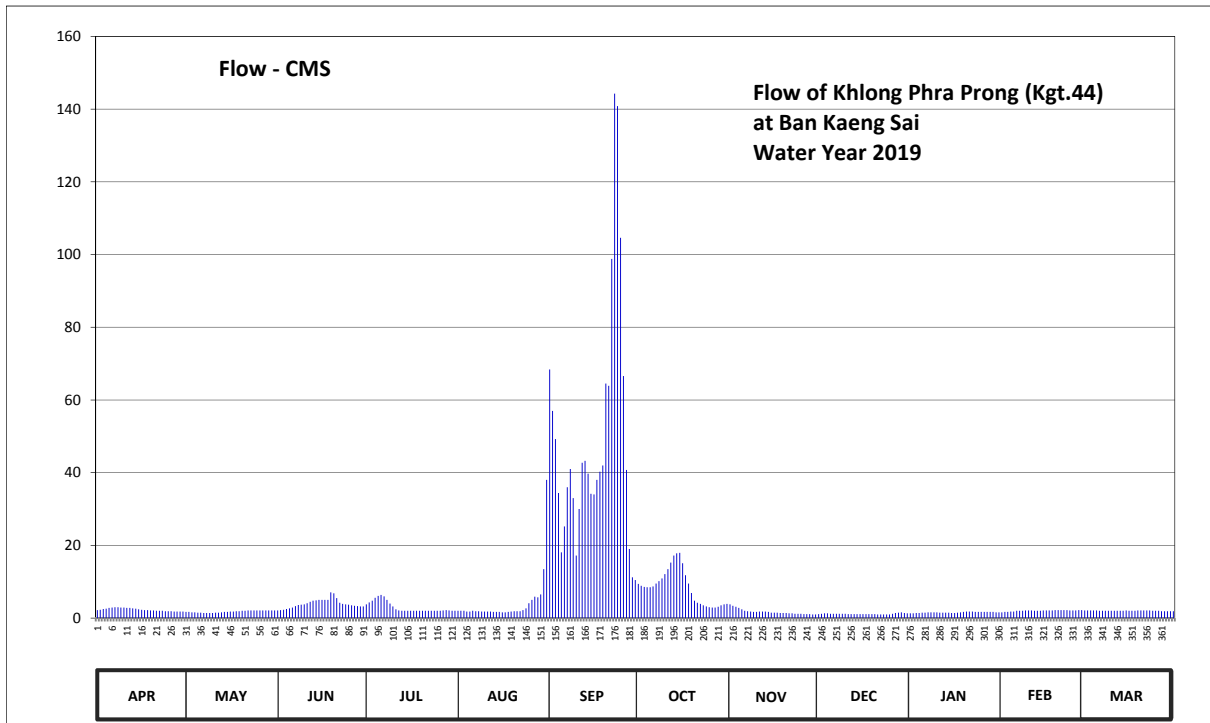
Lat 13 - 51 - 21 N Long 102 - 08 - 30 E

Location : on left bank at the bridge.

	<b>Ban Kaeng Sai</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	1,071 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+27.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+33.898 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2014 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2014 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2014 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 61 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.42	27.37	27.41	27.58	27.40	30.88	28.14	27.58	27.31	27.33	27.36	27.41	
2	27.43	27.37	27.42	27.63	27.40	30.50	28.09	27.54	27.32	27.33	27.37	27.41	
3	27.45	27.36	27.43	27.68	27.40	30.23	28.06	27.51	27.33	27.34	27.37	27.41	
4	27.46	27.36	27.45	27.76	27.38	29.62	28.05	27.48	27.33	27.34	27.38	27.41	
5	27.48	27.35	27.47	27.81	27.38	28.74	28.05	27.44	27.32	27.35	27.38	27.41	
6	27.49	27.35	27.49	27.84	27.40	29.16	28.07	27.40	27.32	27.35	27.40	27.40	
7	27.50	27.34	27.53	27.80	27.39	29.70	28.15	27.39	27.32	27.36	27.40	27.40	
8	27.50	27.34	27.56	27.70	27.39	29.90	28.21	27.38	27.32	27.36	27.40	27.40	
9	27.49	27.34	27.57	27.60	27.38	29.55	28.26	27.37	27.32	27.36	27.41	27.40	
10	27.49	27.34	27.58	27.52	27.38	28.68	28.34	27.37	27.32	27.36	27.41	27.40	
11	27.48	27.35	27.61	27.44	27.38	29.40	28.43	27.38	27.31	27.35	27.41	27.40	
12	27.48	27.35	27.65	27.41	27.38	29.97	28.55	27.38	27.31	27.35	27.40	27.40	
13	27.47	27.36	27.68	27.40	27.37	29.99	28.68	27.38	27.31	27.35	27.40	27.40	
14	27.46	27.37	27.69	27.40	27.37	29.85	28.72	27.37	27.31	27.35	27.40	27.40	
15	27.44	27.37	27.70	27.40	27.37	29.61	28.73	27.35	27.31	27.34	27.41	27.41	
16	27.43	27.38	27.70	27.40	27.36	29.60	28.54	27.35	27.31	27.34	27.41	27.40	
17	27.42	27.38	27.70	27.40	27.36	29.78	28.32	27.35	27.31	27.35	27.41	27.40	
18	27.42	27.39	27.70	27.40	27.37	29.87	28.15	27.34	27.31	27.36	27.41	27.40	
19	27.41	27.39	27.91	27.40	27.38	29.94	27.89	27.34	27.31	27.37	27.42	27.41	
20	27.41	27.40	27.88	27.40	27.39	30.75	27.68	27.34	27.31	27.38	27.42	27.41	
21	27.40	27.40	27.75	27.40	27.39	30.73	27.62	27.33	27.30	27.38	27.42	27.41	
22	27.40	27.41	27.62	27.40	27.39	31.70	27.59	27.33	27.30	27.38	27.42	27.41	
23	27.40	27.41	27.59	27.40	27.42	32.79	27.55	27.32	27.30	27.37	27.42	27.41	
24	27.39	27.41	27.58	27.40	27.47	32.71	27.52	27.32	27.30	27.37	27.41	27.40	
25	27.39	27.41	27.57	27.40	27.61	31.85	27.50	27.32	27.30	27.37	27.41	27.40	
26	27.39	27.41	27.55	27.40	27.70	30.82	27.49	27.31	27.32	27.37	27.41	27.40	
27	27.38	27.41	27.54	27.41	27.79	29.89	27.49	27.31	27.34	27.37	27.42	27.39	
28	27.38	27.41	27.53	27.42	27.77	28.80	27.51	27.31	27.35	27.37	27.42	27.39	
29	27.38	27.41	27.52	27.41	27.85	28.28	27.55	27.30	27.36	27.37	27.42	27.39	
30	27.38	27.41	27.52	27.40	28.43	28.23	27.58	27.30	27.34	27.36	27.41	27.39	
31		27.41		27.40	29.78		27.59		27.33	27.36		27.39	
Mean	27.43	27.38	27.60	27.50	27.56	30.05	28.00	27.37	27.32	27.36	27.40	27.40	
Max	27.50	27.41	27.91	27.84	29.78	32.79	28.73	27.58	27.36	27.38	27.42	27.41	32.79
Min	27.38	27.34	27.41	27.40	27.36	28.23	27.49	27.30	27.30	27.33	27.36	27.39	27.30
Annual Max Momentary Gage Height	32.90		m. (MSL.) ,				at 12.00 Hours, on Sep 23, 2019						
Zero Gage at Bottom Elevation	27.00		m. (MSL.) ,			River Bed	25.65	m. (MSL.)					
Left Bank Elevation		33.19		m. (MSL.) ,									
Right Bank Elevation		33.12		m. (MSL.) ,		Drainage Area	1,071	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	1.70	2.10	3.80	2.00	68.40	9.40	3.80	1.10	1.30	1.60	2.10	
2	2.30	1.70	2.20	4.30	2.00	57.00	8.90	3.40	1.20	1.30	1.70	2.10	
3	2.50	1.60	2.30	4.80	2.00	49.25	8.60	3.10	1.30	1.40	1.70	2.10	
4	2.60	1.60	2.50	5.60	1.80	34.40	8.50	2.80	1.30	1.40	1.80	2.10	
5	2.80	1.50	2.70	6.10	1.80	18.10	8.50	2.40	1.20	1.50	1.80	2.10	
6	2.90	1.50	2.90	6.40	2.00	25.20	8.70	2.00	1.20	1.50	2.00	2.00	
7	3.00	1.40	3.30	6.00	1.90	36.00	9.50	1.90	1.20	1.60	2.00	2.00	
8	3.00	1.40	3.60	5.00	1.90	41.00	10.15	1.80	1.20	1.60	2.00	2.00	
9	2.90	1.40	3.70	4.00	1.80	33.00	10.90	1.70	1.20	1.60	2.10	2.00	
10	2.90	1.40	3.80	3.20	1.80	17.20	12.10	1.70	1.20	1.60	2.10	2.00	
11	2.80	1.50	4.10	2.40	1.80	30.00	13.45	1.80	1.10	1.50	2.10	2.00	
12	2.80	1.50	4.50	2.10	1.80	42.75	15.25	1.80	1.10	1.50	2.00	2.00	
13	2.70	1.60	4.80	2.00	1.70	43.25	17.20	1.80	1.10	1.50	2.00	2.00	
14	2.60	1.70	4.90	2.00	1.70	39.75	17.80	1.70	1.10	1.50	2.00	2.00	
15	2.40	1.70	5.00	2.00	1.70	34.20	17.95	1.50	1.10	1.40	2.10	2.10	
16	2.30	1.80	5.00	2.00	1.60	34.00	15.10	1.50	1.10	1.40	2.10	2.00	
17	2.20	1.80	5.00	2.00	1.60	38.00	11.80	1.50	1.10	1.50	2.10	2.00	
18	2.20	1.90	5.00	2.00	1.70	40.25	9.50	1.40	1.10	1.60	2.10	2.00	
19	2.10	1.90	7.10	2.00	1.80	42.00	6.90	1.40	1.10	1.70	2.20	2.10	
20	2.10	2.00	6.80	2.00	1.90	64.50	4.80	1.40	1.10	1.80	2.20	2.10	
21	2.00	2.00	5.50	2.00	1.90	63.90	4.20	1.30	1.00	1.80	2.20	2.10	
22	2.00	2.10	4.20	2.00	1.90	98.80	3.90	1.30	1.00	1.80	2.20	2.10	
23	2.00	2.10	3.90	2.00	2.20	144.27	3.50	1.20	1.00	1.70	2.20	2.10	
24	1.90	2.10	3.80	2.00	2.70	140.83	3.20	1.20	1.00	1.70	2.10	2.00	
25	1.90	2.10	3.70	2.00	4.10	104.60	3.00	1.20	1.00	1.70	2.10	2.00	
26	1.90	2.10	3.50	2.00	5.00	66.60	2.90	1.10	1.20	1.70	2.10	2.00	
27	1.80	2.10	3.40	2.10	5.90	40.75	2.90	1.10	1.40	1.70	2.20	1.90	
28	1.80	2.10	3.30	2.20	5.70	19.00	3.10	1.10	1.50	1.70	2.20	1.90	
29	1.80	2.10	3.20	2.10	6.50	11.20	3.50	1.00	1.60	1.70	2.20	1.90	
30	1.80	2.10	3.20	2.00	13.45	10.45	3.80	1.00	1.40	1.60		1.90	
31		2.10		2.00	38.00		3.90		1.30	1.60		1.90	
<b>Total</b>	70.20	55.60	119.00	92.10	123.65	1488.65	262.90	51.90	36.50	48.90	59.20	62.60	2471.20 CMSDAY
<b>Mean</b>	2.34	1.79	3.97	2.97	3.99	49.62	8.48	1.73	1.18	1.58	2.04	2.02	6.75 CMS
<b>Max</b>	3.00	2.10	7.10	6.40	38.00	144.27	17.95	3.80	1.60	1.80	2.20	2.10	144.27 CMS
<b>Min</b>	1.80	1.40	2.10	2.00	1.60	10.45	2.90	1.00	1.00	1.30	1.60	1.90	1.00 CMS
<b>Runoff</b>	6.07	4.80	10.28	7.96	10.68	128.62	22.71	4.48	3.15	4.22	5.11	5.41	213.51 MCM
<b>Momentary Peak</b>	149.00	CMS, at 32.90 m. (MSL), at 12.00 Hours, on Sep 23, 2019											
<b>Runoff Yield</b>	6.32	Liters/Second/Square KM. Momentary Peak Yield 139.12 Liters/Second/Square KM.											



## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Ta Ruang Lang, Chanthaburi (Kgt.45)

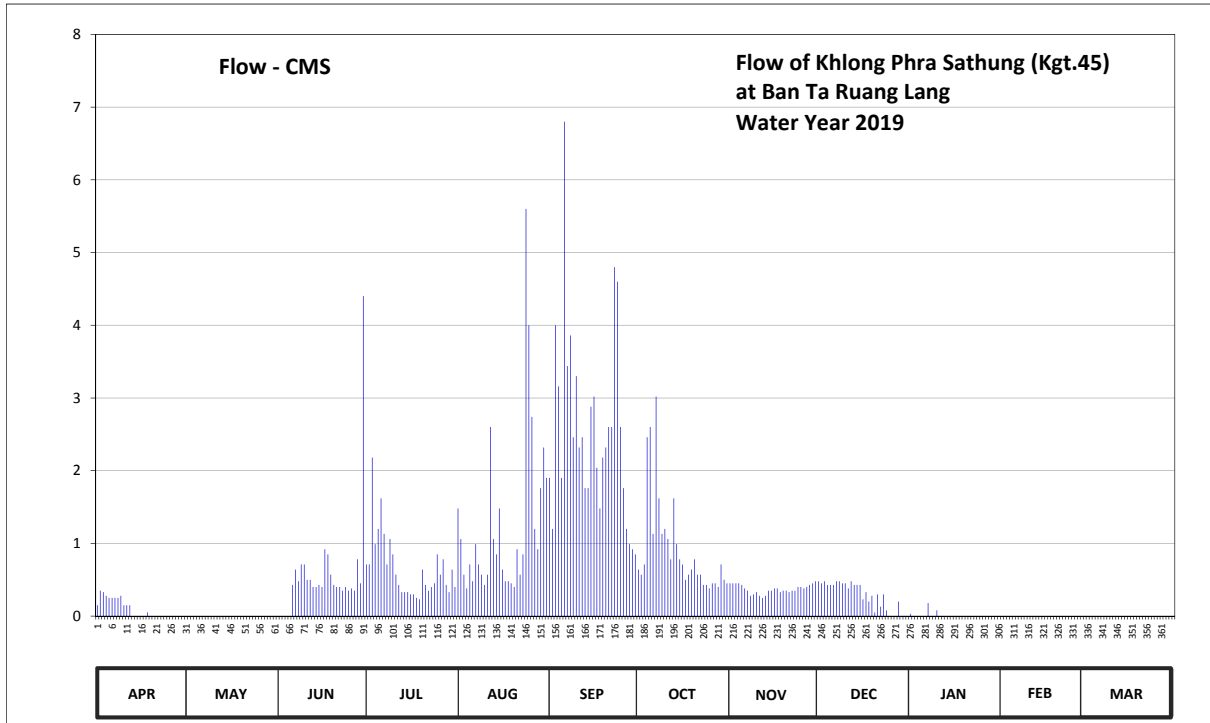
Lat 13 - 12 - 30 N Long 102 - 10 - 07 E

Location : on right bank at the bridge.

	<b>Ban</b> Ta Ruang Lang	<b>Amphoe</b> Soi Dao	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	103 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+167.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b> +172.248 m. (MSL.)	
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	168.96	168.40	167.88	169.13	169.22	169.25	169.12	169.08	169.09	168.91	167.00	167.00	
2	169.04	168.39	167.84	169.13	169.18	169.20	169.11	169.08	169.08	168.87	167.00	167.00	
3	169.03	168.30	167.86	169.27	169.11	169.40	169.13	169.08	169.09	168.87	167.00	167.00	
4	169.01	168.07	168.22	169.17	169.05	169.34	169.29	169.08	169.07	168.84	167.00	167.00	
5	169.00	167.94	168.89	169.20	169.13	169.25	169.30	169.07	169.07	168.86	167.00	167.00	
6	169.00	167.70	169.07	169.23	169.09	169.54	169.19	169.05	169.07	168.87	167.00	167.00	
7	169.00	167.50	169.12	169.19	169.17	169.36	169.33	169.04	169.09	168.97	167.00	167.00	
8	169.00	167.55	169.09	169.13	169.13	169.39	169.23	169.01	169.09	168.90	167.00	167.00	
9	169.01	167.45	169.13	169.18	169.11	169.29	169.19	169.02	169.08	168.88	167.00	167.00	
10	168.96	167.54	169.13	169.15	169.07	169.35	169.20	169.03	169.08	168.93	167.00	167.00	
11	168.96	167.56	169.10	169.11	169.11	169.28	169.18	169.01	169.05	168.90	167.00	167.00	
12	168.96	167.75	169.10	169.07	169.30	169.29	169.14	169.00	169.09	168.88	167.00	167.00	
13	168.85	167.90	169.06	169.03	169.18	169.24	169.23	169.01	169.07	168.81	167.00	167.00	
14	168.84	167.99	169.06	169.03	169.15	169.24	169.17	169.04	169.07	168.80	167.00	167.00	
15	168.87	168.07	169.07	169.03	169.22	169.32	169.14	169.04	169.07	168.80	167.00	167.00	
16	168.87	168.13	169.06	169.02	169.12	169.33	169.13	169.05	168.99	168.80	167.00	167.00	
17	168.89	167.99	169.16	169.02	169.09	169.26	169.10	169.05	169.03	168.79	167.00	167.00	
18	168.92	168.06	169.15	169.00	169.09	169.22	169.11	169.03	168.98	168.78	167.00	167.00	
19	168.86	168.05	169.11	168.99	169.08	169.27	169.12	169.04	169.01	168.80	167.00	167.00	
20	168.83	168.07	169.07	169.12	169.06	169.28	169.14	169.04	168.92	168.80	167.00	167.00	
21	168.74	168.09	169.06	169.07	169.16	169.30	169.11	169.03	169.02	168.77	167.00	167.00	
22	168.71	167.92	169.06	169.04	169.11	169.30	169.11	169.04	168.95	168.79	167.00	167.00	
23	168.81	167.84	169.04	169.06	169.15	169.44	169.07	169.04	169.02	168.80	167.00	167.00	
24	168.80	167.79	169.06	169.08	169.48	169.43	169.07	169.06	168.93	168.80	167.00	167.00	
25	168.80	167.87	169.04	169.15	169.40	169.30	169.05	169.06	168.87	168.80	167.00	167.00	
26	168.80	167.71	169.05	169.11	169.31	169.24	169.08	169.05	168.86	168.81	167.00	167.00	
27	168.78	167.74	169.04	169.14	169.20	169.20	169.08	169.06	168.90	168.81	167.00	167.00	
28	168.73	167.61	169.14	169.07	169.16	169.17	169.06	169.07	168.98	168.81	167.00	167.00	
29	168.55	167.66	169.08	169.03	169.24	169.16	169.13	169.08	168.89	168.81	167.00	167.00	
30	168.43	167.67	169.42	169.12	169.28	169.15	169.10	169.09	168.86	168.81	167.00	167.00	
31		167.76		169.06	169.25		169.08		168.90	168.83		167.00	
Mean	168.87	167.87	168.94	169.10	169.17	169.29	169.14	169.05	169.01	168.84	167.00	167.00	
Max	169.04	168.40	169.42	169.27	169.48	169.54	169.33	169.09	169.09	168.97	167.00	167.00	169.54
Min	168.43	167.45	167.84	168.99	169.05	169.15	169.05	169.00	168.86	168.77	167.00	167.00	167.00
Annual Max Momentary Gage Height	170.00		m. (MSL.) ,			at 18.00 Hours, on Aug 24, 2019							
Zero Gage at Bottom Elevation	167.00		m. (MSL.) ,			River Bed	167.56	m. (MSL.)					
Left Bank Elevation		174.86	m. (MSL.) ,										
Right Bank Elevation		175.00	m. (MSL.) ,			Drainage Are	103	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	0.00	0.00	0.71	1.48	1.90	0.64	0.45	0.48	0.03	0.00	0.00	
2	0.35	0.00	0.00	0.71	1.06	1.20	0.57	0.45	0.45	0.00	0.00	0.00	
3	0.33	0.00	0.00	2.18	0.57	4.00	0.71	0.45	0.48	0.00	0.00	0.00	
4	0.28	0.00	0.00	0.99	0.38	3.16	2.46	0.45	0.43	0.00	0.00	0.00	
5	0.25	0.00	0.00	1.20	0.71	1.90	2.60	0.43	0.43	0.00	0.00	0.00	
6	0.25	0.00	0.43	1.62	0.48	6.80	1.13	0.38	0.43	0.00	0.00	0.00	
7	0.25	0.00	0.64	1.13	0.99	3.44	3.02	0.35	0.48	0.18	0.00	0.00	
8	0.25	0.00	0.48	0.71	0.71	3.86	1.62	0.28	0.48	0.00	0.00	0.00	
9	0.28	0.00	0.71	1.06	0.57	2.46	1.13	0.30	0.45	0.00	0.00	0.00	
10	0.15	0.00	0.71	0.85	0.43	3.30	1.20	0.33	0.45	0.08	0.00	0.00	
11	0.15	0.00	0.50	0.57	0.57	2.32	1.06	0.28	0.38	0.00	0.00	0.00	
12	0.15	0.00	0.50	0.43	2.60	2.46	0.78	0.25	0.48	0.00	0.00	0.00	
13	0.00	0.00	0.40	0.33	1.06	1.76	1.62	0.28	0.43	0.00	0.00	0.00	
14	0.00	0.00	0.40	0.33	0.85	1.76	0.99	0.35	0.43	0.00	0.00	0.00	
15	0.00	0.00	0.43	0.33	1.48	2.88	0.78	0.35	0.43	0.00	0.00	0.00	
16	0.00	0.00	0.40	0.30	0.64	3.02	0.71	0.38	0.23	0.00	0.00	0.00	
17	0.00	0.00	0.92	0.30	0.48	2.04	0.50	0.38	0.33	0.00	0.00	0.00	
18	0.05	0.00	0.85	0.25	0.48	1.48	0.57	0.33	0.20	0.00	0.00	0.00	
19	0.00	0.00	0.57	0.23	0.45	2.18	0.64	0.35	0.28	0.00	0.00	0.00	
20	0.00	0.00	0.43	0.64	0.40	2.32	0.78	0.35	0.05	0.00	0.00	0.00	
21	0.00	0.00	0.40	0.43	0.92	2.60	0.57	0.33	0.30	0.00	0.00	0.00	
22	0.00	0.00	0.40	0.35	0.57	2.60	0.57	0.35	0.13	0.00	0.00	0.00	
23	0.00	0.00	0.35	0.40	0.85	4.80	0.43	0.35	0.30	0.00	0.00	0.00	
24	0.00	0.00	0.40	0.45	5.60	4.60	0.43	0.40	0.08	0.00	0.00	0.00	
25	0.00	0.00	0.35	0.85	4.00	2.60	0.38	0.40	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.38	0.57	2.74	1.76	0.45	0.38	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.35	0.78	1.20	1.20	0.45	0.40	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.78	0.43	0.92	0.99	0.40	0.43	0.20	0.00	0.00	0.00	
29	0.00	0.00	0.45	0.33	1.76	0.92	0.71	0.45	0.00	0.00	0.00	0.00	
30	0.00	0.00	4.40	0.64	2.32	0.85	0.50	0.48	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.40	1.90	0.45	0.45	0.45	0.00	0.00	0.00	0.00	0.00	
<b>Total</b>	2.89	0.00	16.63	20.50	39.17	77.16	28.85	11.14	8.81	0.29	0.00	0.00	205.44 CMSDAY
<b>Mean</b>	0.10	0.00	0.55	0.66	1.26	2.57	0.93	0.37	0.28	0.01	0.00	0.00	0.56 CMS
<b>Max</b>	0.35	0.00	4.40	2.18	5.60	6.80	3.02	0.48	0.48	0.18	0.00	0.00	6.80 CMS
<b>Min</b>	0.00	0.00	0.00	0.23	0.38	0.85	0.38	0.25	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.25	0.00	1.44	1.77	3.38	6.67	2.49	0.96	0.76	0.03	0.00	0.00	17.75 MCM
<b>Momentary Peak</b>	21.00	CMS, at 170.00 m. (MSL.), at 18.00 Hours, on Aug 24, 2019											
<b>Runoff Yield</b>	5.47	Liters/Second/Square KM.		Momentary Peak Yield		204.08	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Klong Phra Sathung at Ban Dan Chai Phatthana , Sa Kao (Kgt.47)

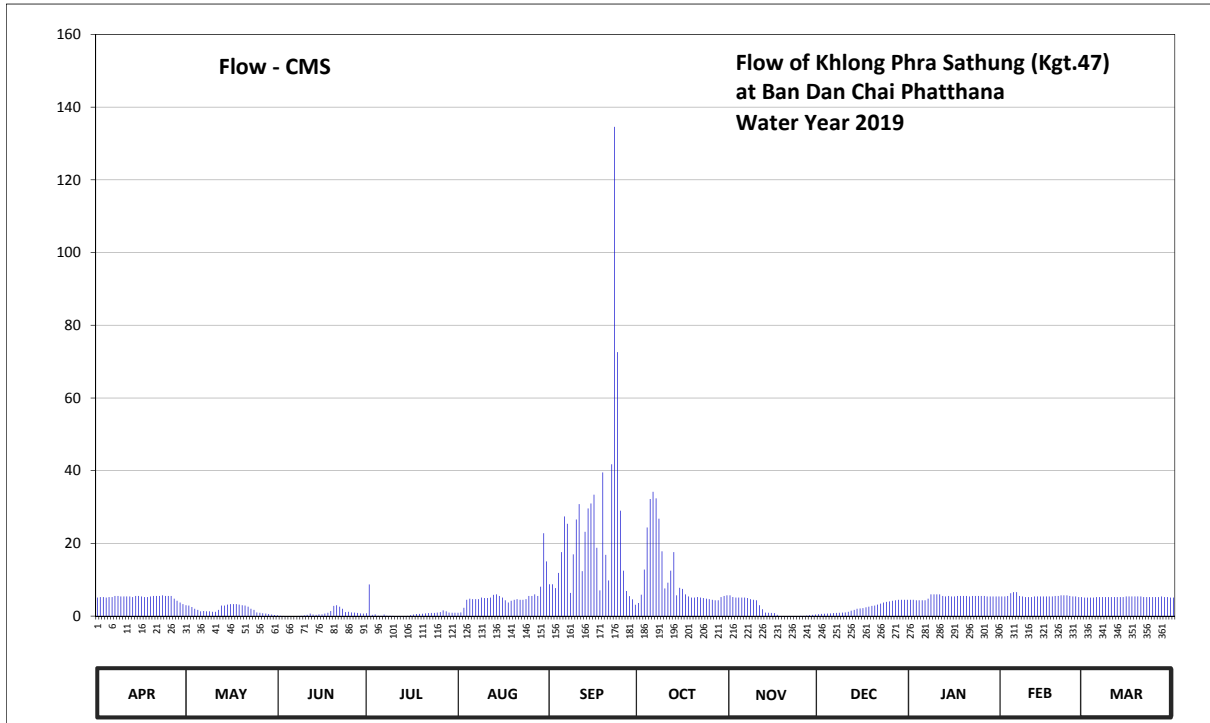
Lat 13 - 33 - 16 N Long 102 - 02 - 43 E

Location : on right bank at the bridge.

	<b>Ban</b> Dan Chaiphaththana	<b>Amphoe</b> Khao Chakan	<b>Changwat</b> Sa Kao
<b>Drainage Area</b>	1,436 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+52.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+62.000 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.94	54.80	53.80	54.40	54.54	53.85	53.36	54.98	54.13	54.90	54.96	54.94	
2	54.95	54.79	53.64	55.09	54.60	53.85	53.59	54.95	54.20	54.90	54.96	54.94	
3	54.95	54.75	53.39	53.97	54.73	53.77	54.12	54.94	54.26	54.89	54.97	54.94	
4	54.94	54.70	52.93	54.08	54.90	54.06	54.77	54.94	54.31	54.89	55.01	54.94	
5	54.95	54.67	52.85	53.74	54.92	54.43	55.16	54.94	54.36	54.89	55.02	54.95	
6	54.95	54.63	52.87	53.51	54.91	54.92	55.26	54.94	54.42	54.89	55.02	54.95	
7	54.97	54.64	52.84	54.02	54.91	54.82	55.17	54.93	54.47	54.92	54.97	54.95	
8	54.97	54.63	53.39	53.72	54.91	53.64	54.89	54.91	54.51	55.00	54.96	54.95	
9	54.96	54.63	53.68	53.73	54.94	54.40	54.44	54.90	54.55	55.00	54.95	54.95	
10	54.96	54.62	53.83	53.50	54.93	54.88	53.76	54.89	54.59	55.00	54.95	54.95	
11	54.96	54.62	53.95	53.37	54.93	55.09	53.88	54.80	54.62	55.00	54.95	54.95	
12	54.96	54.67	54.28	53.26	54.94	54.09	54.10	54.69	54.65	54.97	54.96	54.95	
13	54.95	54.79	54.04	53.23	54.99	54.71	54.43	54.58	54.67	54.96	54.96	54.95	
14	54.97	54.79	53.97	53.39	55.00	55.03	54.98	54.52	54.70	54.97	54.96	54.95	
15	54.97	54.81	54.06	53.68	54.97	55.10	55.06	54.47	54.71	54.96	54.96	54.96	
16	54.96	54.82	54.06	53.87	54.94	55.22	55.05	54.42	54.72	54.96	54.96	54.96	
17	54.95	54.82	54.29	54.02	54.89	54.49	55.00	53.95	54.74	54.97	54.96	54.96	
18	54.95	54.82	54.54	54.17	54.85	53.71	54.96	53.00	54.76	54.97	54.96	54.96	
19	54.96	54.81	54.64	54.22	54.88	55.50	54.94	52.99	54.78	54.97	54.97	54.96	
20	54.97	54.80	54.78	54.26	54.90	54.39	54.94	52.98	54.79	54.97	54.97	54.96	
21	54.97	54.79	54.80	54.33	54.91	53.92	54.95	53.00	54.81	54.96	54.98	54.95	
22	54.97	54.76	54.76	54.42	54.90	55.59	54.94	53.11	54.83	54.97	54.98	54.95	
23	54.98	54.70	54.70	54.46	54.90	58.49	54.93	53.27	54.85	54.97	54.98	54.95	
24	54.97	54.67	54.61	54.49	54.91	56.72	54.92	53.40	54.86	54.97	54.97	54.95	
25	54.97	54.60	54.62	54.55	54.97	55.00	54.91	53.54	54.87	54.97	54.96	54.95	
26	54.97	54.51	54.59	54.61	54.97	54.10	54.90	53.67	54.88	54.97	54.96	54.95	
27	54.92	54.40	54.55	54.66	55.00	53.69	54.89	53.78	54.89	54.96	54.95	54.96	
28	54.88	54.29	54.47	54.63	54.97	53.55	54.89	53.87	54.90	54.96	54.95	54.95	
29	54.85	54.18	54.35	54.57	55.07	53.46	54.95	53.96	54.90	54.96	54.95	54.95	
30	54.82	54.03	54.28	54.53	54.69	53.31	54.97	54.05	54.90	54.96	54.96	54.94	
31		53.92		54.52	54.27		54.98		54.90	54.96		54.94	
Mean	54.95	54.63	54.05	54.10	54.88	54.59	54.71	54.18	54.66	54.95	54.97	54.95	
Max	54.98	54.82	54.80	55.09	55.07	58.49	55.26	54.98	54.90	55.00	55.02	54.96	58.49
Min	54.82	53.92	52.84	53.23	54.27	53.31	53.36	52.98	54.13	54.89	54.95	54.94	52.84
Annual Max Momentary Gage Height	58.68		m. (MSL.) ,			at 06.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation		52.00	m. (MSL.) ,			River Bed	52.54	m. (MSL.)					
Left Bank Elevation		63.70	m. (MSL.) ,										
Right Bank Elevation		63.83	m. (MSL.) ,			Drainage Are	1,436	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.10	3.00	0.20	0.80	0.94	8.75	3.60	5.70	0.53	4.50	5.40	5.10	
2	5.25	2.90	0.09	8.70	1.00	8.75	5.90	5.25	0.60	4.50	5.40	5.10	
3	5.25	2.50	0.06	0.37	2.30	7.70	12.80	5.10	0.66	4.35	5.55	5.10	
4	5.10	2.00	0.01	0.48	4.50	11.90	24.40	5.10	0.71	4.35	6.30	5.10	
5	5.25	1.70	0.01	0.14	4.80	17.60	32.20	5.10	0.76	4.35	6.60	5.25	
6	5.25	1.30	0.01	0.07	4.65	27.40	34.20	5.10	0.82	4.35	6.60	5.25	
7	5.55	1.40	0.00	0.42	4.65	25.40	32.40	4.95	0.87	4.80	5.55	5.25	
8	5.55	1.30	0.06	0.12	4.65	6.40	26.80	4.65	0.91	6.00	5.40	5.25	
9	5.40	1.30	0.10	0.13	5.10	17.00	17.80	4.50	0.95	6.00	5.25	5.25	
10	5.40	1.20	0.23	0.07	4.95	26.60	7.60	4.35	0.99	6.00	5.25	5.25	
11	5.40	1.20	0.35	0.06	4.95	30.80	9.20	3.00	1.20	6.00	5.25	5.25	
12	5.40	1.70	0.68	0.05	5.10	12.35	12.50	1.90	1.50	5.55	5.40	5.25	
13	5.25	2.90	0.44	0.04	5.85	23.20	17.60	0.98	1.70	5.40	5.40	5.25	
14	5.55	2.90	0.37	0.06	6.00	29.60	5.70	0.92	2.00	5.55	5.40	5.25	
15	5.55	3.15	0.46	0.10	5.55	31.00	7.80	0.87	2.10	5.40	5.40	5.40	
16	5.40	3.30	0.46	0.27	5.10	33.40	7.50	0.82	2.20	5.40	5.40	5.40	
17	5.25	3.30	0.69	0.42	4.35	18.80	6.00	0.35	2.40	5.55	5.40	5.40	
18	5.25	3.30	0.94	0.57	3.75	7.10	5.40	0.02	2.60	5.55	5.40	5.40	
19	5.40	3.15	1.40	0.62	4.20	39.50	5.10	0.02	2.80	5.55	5.55	5.40	
20	5.55	3.00	2.80	0.66	4.50	16.85	5.10	0.02	2.90	5.55	5.55	5.40	
21	5.55	2.90	3.00	0.73	4.65	9.80	5.25	0.02	3.15	5.40	5.70	5.25	
22	5.55	2.60	2.60	0.82	4.50	41.75	5.10	0.03	3.45	5.55	5.70	5.25	
23	5.70	2.00	2.00	0.86	4.50	134.60	4.95	0.05	3.75	5.55	5.70	5.25	
24	5.55	1.70	1.10	0.89	4.65	72.60	4.80	0.06	3.90	5.55	5.55	5.25	
25	5.55	1.00	1.20	0.95	5.55	29.00	4.65	0.07	4.05	5.55	5.40	5.25	
26	5.55	0.91	0.99	1.10	5.55	12.50	4.50	0.09	4.20	5.55	5.40	5.25	
27	4.80	0.80	0.95	1.60	6.00	6.90	4.35	0.18	4.35	5.40	5.25	5.40	
28	4.20	0.69	0.87	1.30	5.55	5.50	4.35	0.27	4.50	5.40	5.25	5.25	
29	3.75	0.58	0.75	0.97	8.10	4.60	5.25	0.36	4.50	5.40	5.25	5.25	
30	3.30	0.43	0.68	0.93	22.80	3.10	5.55	0.45	4.50	5.40		5.10	
31		0.32		0.92	15.05		5.70		4.50	5.40		5.10	
Total	156.60	60.43	23.50	25.22	173.79	720.45	334.05	60.28	74.05	164.85	160.65	162.90	2116.77 CMSDAY
Mean	5.22	1.95	0.78	0.81	5.61	24.02	10.78	2.01	2.39	5.32	5.54	5.25	5.78 CMS
Max	5.70	3.30	3.00	8.70	22.80	134.60	34.20	5.70	4.50	6.00	6.60	5.40	134.60 CMS
Min	3.30	0.32	0.00	0.04	0.94	3.10	3.60	0.02	0.53	4.35	5.25	5.10	0.00 CMS
Runoff	13.53	5.22	2.03	2.18	15.02	62.25	28.86	5.21	6.40	14.24	13.88	14.07	182.89 MCM
Momentary Peak		142.20	CMS, at 58.68 m. (MSL), at 06.00 Hours, on Sep 23, 2019										
Runoff Yield		4.04	Liters/Second/Square KM. Momentary Peak Yield 98.98 Liters/Second/Square KM.										

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Hual Samong at Ban Kaeng Din So , Prachin Buri (Kgt.66)

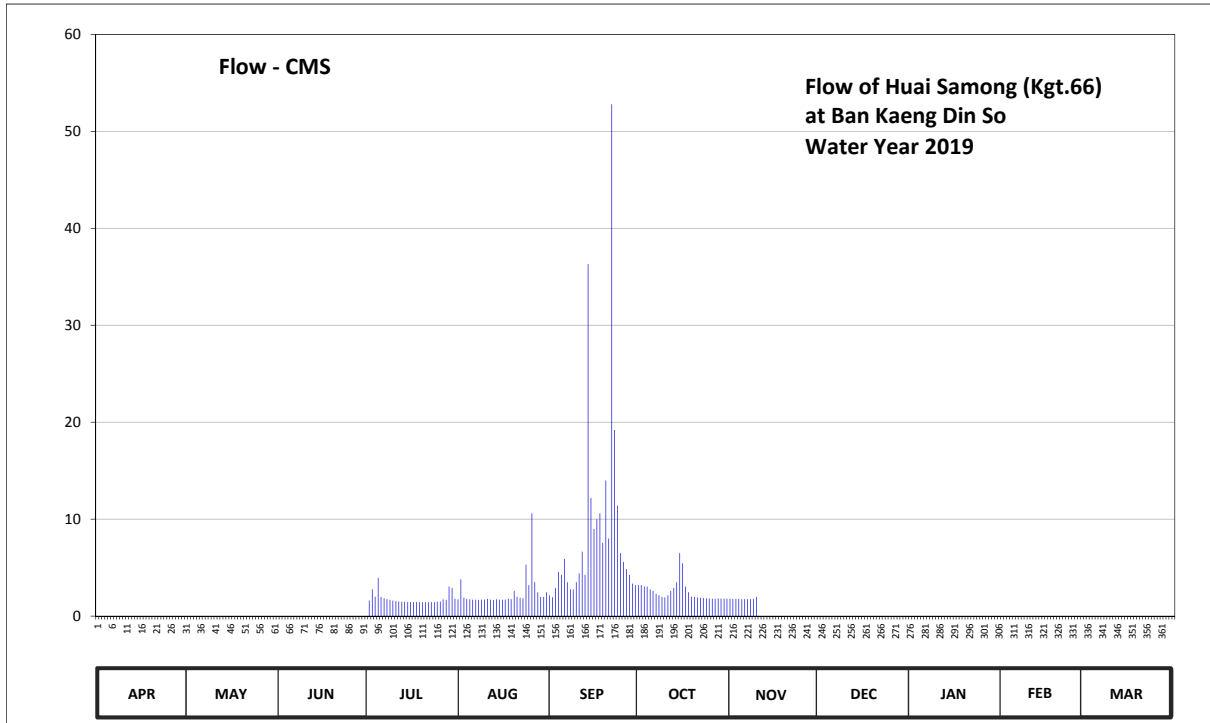
Lat 14 - 04 - 16 N Long 101 - 57 - 41 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Kaeng Din So</b>	<b>Amphoe</b>	<b>Na Di</b>	<b>Changwat</b>	<b>Prachin Buri</b>
<b>Drainage Area</b>	529	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+17.318 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the top staff gage.				<b>Elevation</b>	+25.000 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings					
<b>Period of Available Gage Records</b>	2018 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2018 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2018 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.64	18.61	18.87	17.69	17.69	17.81	17.88	17.72	18.29	18.50	18.52	18.47	
2	18.64	18.57	18.87	17.64	17.92	17.78	17.88	17.71	18.50	18.50	18.52	18.42	
3	18.65	18.57	18.72	17.85	17.76	17.86	17.87	17.71	18.50	18.50	18.51	18.37	
4	18.65	18.57	18.65	17.80	17.71	17.97	17.87	17.71	18.50	18.51	18.51	18.34	
5	18.64	18.57	18.20	17.93	17.69	17.95	17.85	17.70	18.50	18.51	18.51	18.32	
6	18.64	18.57	18.13	17.79	17.68	18.06	17.84	17.70	18.47	18.51	18.51	18.29	
7	18.64	18.57	18.08	17.74	17.68	17.90	17.82	17.70	18.47	18.51	18.51	18.27	
8	18.64	18.56	18.09	17.70	17.67	17.85	17.81	17.70	18.47	18.51	18.51	18.26	
9	18.64	18.56	18.09	17.67	17.68	17.85	17.79	17.71	18.47	18.51	18.50	18.24	
10	18.64	18.56	18.08	17.64	17.68	17.90	17.77	17.79	18.47	18.52	18.50	18.20	
11	18.64	18.56	18.07	17.62	17.71	17.96	17.81	17.98	18.47	18.54	18.50	18.22	
12	18.64	18.56	18.08	17.60	17.68	18.11	17.84	18.15	18.47	18.54	18.51	18.22	
13	18.64	18.56	18.08	17.59	17.66	17.95	17.86	18.14	18.47	18.54	18.51	18.22	
14	18.64	18.57	18.10	17.59	17.69	19.31	17.90	18.15	18.47	18.54	18.51	18.20	
15	18.64	18.57	18.09	17.58	17.68	18.41	18.10	18.22	18.48	18.54	18.52	18.19	
16	18.64	18.57	18.11	17.58	17.68	18.25	18.03	18.26	18.48	18.54	18.52	18.17	
17	18.64	18.58	18.15	17.57	17.68	18.30	17.87	18.31	18.50	18.54	18.52	18.16	
18	18.64	18.59	17.94	17.57	17.72	18.33	17.83	18.32	18.52	18.54	18.52	18.16	
19	18.64	18.75	17.86	17.57	17.70	18.17	17.80	18.32	18.52	18.53	18.52	18.16	
20	18.64	18.77	17.81	17.57	17.84	18.50	17.79	18.32	18.49	18.53	18.52	18.14	
21	18.64	18.77	17.74	17.57	17.80	18.20	17.77	18.32	18.54	18.53	18.52	18.14	
22	18.64	18.82	17.73	17.57	17.76	19.82	17.76	18.32	18.54	18.53	18.51	18.14	
23	18.64	18.82	17.73	17.57	17.73	18.74	17.75	18.32	18.54	18.53	18.51	18.14	
24	18.64	18.82	17.72	17.57	18.02	18.37	17.73	18.31	18.54	18.53	18.51	18.14	
25	18.64	18.82	17.72	17.60	17.88	18.10	17.73	18.31	18.54	18.53	18.51	18.14	
26	18.64	18.84	17.72	17.60	18.33	18.04	17.72	18.31	18.53	18.52	18.50	18.14	
27	18.64	18.85	17.78	17.69	17.90	17.99	17.72	18.31	18.51	18.52	18.50	18.14	
28	18.64	18.85	17.80	17.67	17.83	17.95	17.73	18.31	18.51	18.52	18.49	18.11	
29	18.64	18.86	17.77	17.87	17.79	17.89	17.72	18.26	18.50	18.52	18.49	17.96	
30	18.65	18.87	17.73	17.86	17.79	17.88	17.72	18.25	18.49	18.51	18.51	18.05	
31		18.86		17.72	17.83		17.72		18.48	18.51		18.05	
Mean	18.64	18.68	18.05	17.66	17.77	18.17	17.82	18.08	18.49	18.52	18.51	18.20	
Max	18.65	18.87	18.87	17.93	18.33	19.82	18.10	18.32	18.54	18.54	18.52	18.47	19.82
Min	18.64	18.56	17.72	17.57	17.66	17.78	17.72	17.70	18.29	18.50	18.49	17.96	17.57
Annual Max Momentary Gage Height	20.12		m. (MSL.) ,				at 12.00 Hours, on Sep 22, 2019						
Zero Gage at Bottom Elevation	17.32		m. (MSL.) ,			River Bed	15.00	m. (MSL.)					
Left Bank Elevation		23.02		m. (MSL.) ,									
Right Bank Elevation		22.60		m. (MSL.) ,		Drainage Are	529	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	1.73	2.15	3.20	1.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	1.60	3.80	1.95	3.20	1.78	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	2.75	1.90	2.90	3.05	1.78	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	2.00	1.78	4.55	3.05	1.78	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	3.95	1.73	4.25	2.75	1.75	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.98	1.70	5.90	2.60	1.75	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.85	1.70	3.50	2.30	1.75	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.75	1.68	2.75	2.15	1.75	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.68	1.70	2.75	1.98	1.78	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.60	1.70	3.50	1.93	1.98	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.55	1.78	4.40	2.15	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.50	1.70	6.65	2.60	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	1.48	1.65	4.25	2.90	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	1.48	1.73	36.30	3.50	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	1.45	1.70	12.20	6.50	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	1.45	1.70	9.00	5.45	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	1.43	1.70	10.00	3.05	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	1.43	1.80	10.60	2.45	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	1.43	1.75	7.55	2.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	1.43	2.60	14.00	1.98	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	1.43	2.00	8.00	1.93	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	1.43	1.90	52.80	1.90	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.43	1.83	19.20	1.88	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	1.43	5.30	11.40	1.83	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	1.50	3.20	6.50	1.83	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	1.50	10.60	5.60	1.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	1.73	3.50	4.85	1.80	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	1.68	2.45	4.25	1.83	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	3.05	1.98	3.35	1.80	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	2.90	1.98	3.20	1.80	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	1.80	2.45		1.80	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	0.00	53.67	74.72	268.30	78.99	17.90	0.00	0.00	0.00	0.00	493.58 CMSDAY
Mean	0.00	0.00	0.00	1.73	2.41	8.94	2.55	0.60	0.00	0.00	0.00	0.00	1.35 CMS
Max	0.00	0.00	0.00	3.95	10.60	52.80	6.50	1.98	0.00	0.00	0.00	0.00	52.80 CMS
Min	0.00	0.00	0.00	0.00	1.65	1.95	1.80	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	0.00	4.64	6.46	23.18	6.82	1.55	0.00	0.00	0.00	0.00	42.65 MCM
Momentary Peak	64.80	CMS, at 20.12 m. (MSL), at 12.00 Hours, on Sep 22, 2019											
Runoff Yield	2.56	Liters/Second/Square KM.		Momentary Peak Yield		122.50	Liters/Second/Square KM.						

## WATER YEAR : 2019

## 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

	<b>Ban</b>	<b>Khao Nang Buat</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Nakhon Nayok</b>
<b>Drainage Area</b>	521	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 200 meters from the staff gage.				<b>Elevation</b>	+8.758 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1973 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1973 - 1980 , 1991 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1973 - 1980 , 1991 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.59	4.35	3.88	4.35	4.17	4.89	4.36	4.22	4.22	4.28	4.43	4.51	
2	4.47	4.31	3.97	4.11	4.17	4.88	4.36	4.22	4.19	4.28	4.45	4.54	
3	4.08	4.14	4.02	5.07	4.24	5.29	4.39	4.21	4.08	4.43	4.49	4.38	
4	4.18	4.23	3.90	5.13	4.28	5.61	4.36	4.22	4.24	4.51	4.26	4.10	
5	4.43	4.39	3.77	4.59	4.27	5.04	4.47	4.13	4.28	4.60	3.98	3.93	
6	4.56	4.45	3.72	4.64	4.27	4.87	4.57	4.02	4.21	4.58	3.87	4.08	
7	4.60	4.29	3.71	4.67	4.23	4.72	4.61	4.18	4.34	4.28	4.17	4.37	
8	4.67	4.09	3.99	4.50	4.24	4.61	4.94	4.47	4.65	4.17	4.40	4.47	
9	4.48	4.16	4.34	4.42	4.34	5.08	5.01	4.48	4.76	3.82	4.54	4.53	
10	4.05	4.00	4.13	4.50	5.10	6.31	4.92	4.44	4.85	4.18	4.53	4.47	
11	4.23	4.14	4.02	4.52	5.28	6.25	4.84	4.43	4.57	4.53	4.48	4.09	
12	4.47	4.21	4.06	4.50	4.95	5.34	4.72	4.46	4.26	4.67	4.27	3.85	
13	4.51	4.21	3.92	4.45	4.62	4.92	4.80	4.43	4.49	4.69	3.92	4.00	
14	4.57	4.15	3.84	4.36	4.52	4.77	4.80	4.34	4.88	4.41	4.13	4.26	
15	4.66	4.06	3.97	4.37	5.42	4.71	4.72	4.36	4.87	4.07	4.41	4.45	
16	4.70	3.96	4.10	4.32	5.55	4.63	4.65	4.42	4.65	3.85	4.46	4.56	
17	4.74	3.89	4.25	4.27	7.02	4.69	4.59	4.44	4.32	4.15	4.52	4.44	
18	4.44	4.10	4.24	4.22	5.85	4.62	4.47	4.41	4.23	4.53	4.37	4.28	
19	4.58	4.12	4.06	4.19	5.20	4.51	4.36	4.36	4.36	4.73	4.03	4.10	
20	4.65	4.13	3.94	4.56	5.22	4.71	4.26	4.29	4.47	4.74	3.88	4.12	
21	4.69	4.00	3.94	4.48	5.31	5.24	4.17	4.27	4.52	4.47	4.15	4.33	
22	4.69	3.92	4.07	4.31	4.92	5.46	4.11	4.27	4.52	4.20	4.41	4.42	
23	4.40	3.94	4.30	4.30	5.10	4.92	4.06	4.32	4.39	3.96	4.50	4.47	
24	4.18	3.94	4.13	4.25	4.82	4.87	4.06	4.35	4.19	4.27	4.56	4.33	
25	4.22	4.01	4.14	4.27	4.67	4.66	4.16	4.34	3.97	4.56	4.36	4.13	
26	4.43	3.98	4.11	4.36	5.21	4.47	4.19	4.30	3.94	4.68	4.04	4.01	
27	4.55	3.86	4.09	4.40	5.01	4.45	4.21	4.33	4.39	4.74	3.90	4.09	
28	4.61	3.81	4.10	4.43	4.76	4.54	4.21	4.38	4.31	4.45	4.15	4.33	
29	4.61	3.79	4.27	4.44	4.57	4.49	4.12	4.39	4.28	3.94	4.40	4.42	
30	4.38	3.80	4.50	4.28	4.48	4.38	4.12	4.32	4.26	3.84	4.43	4.43	
31		3.79		4.23	4.60		4.17		4.22	4.19		4.25	
Mean	4.48	4.07	4.05	4.44	4.85	4.93	4.44	4.33	4.38	4.35	4.28	4.28	
Max	4.74	4.45	4.50	5.13	7.02	6.31	5.01	4.48	4.88	4.74	4.56	4.56	7.02
Min	4.05	3.79	3.71	4.11	4.17	4.38	4.06	4.02	3.94	3.82	3.87	3.85	3.71
Annual Max Momentary Gage Height	8.30		m. (MSL.) ,				at 09.00 Hours , on Aug 17, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.06	m. (MSL.)					
Left Bank Elevation		10.45	m. (MSL.) ,										
Right Bank Elevation		9.66	m. (MSL.) ,			Drainage Are	521	Square Kilometers					





## WATER YEAR : 2019

## BANG PAKONG RIVER BASIN

## Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)

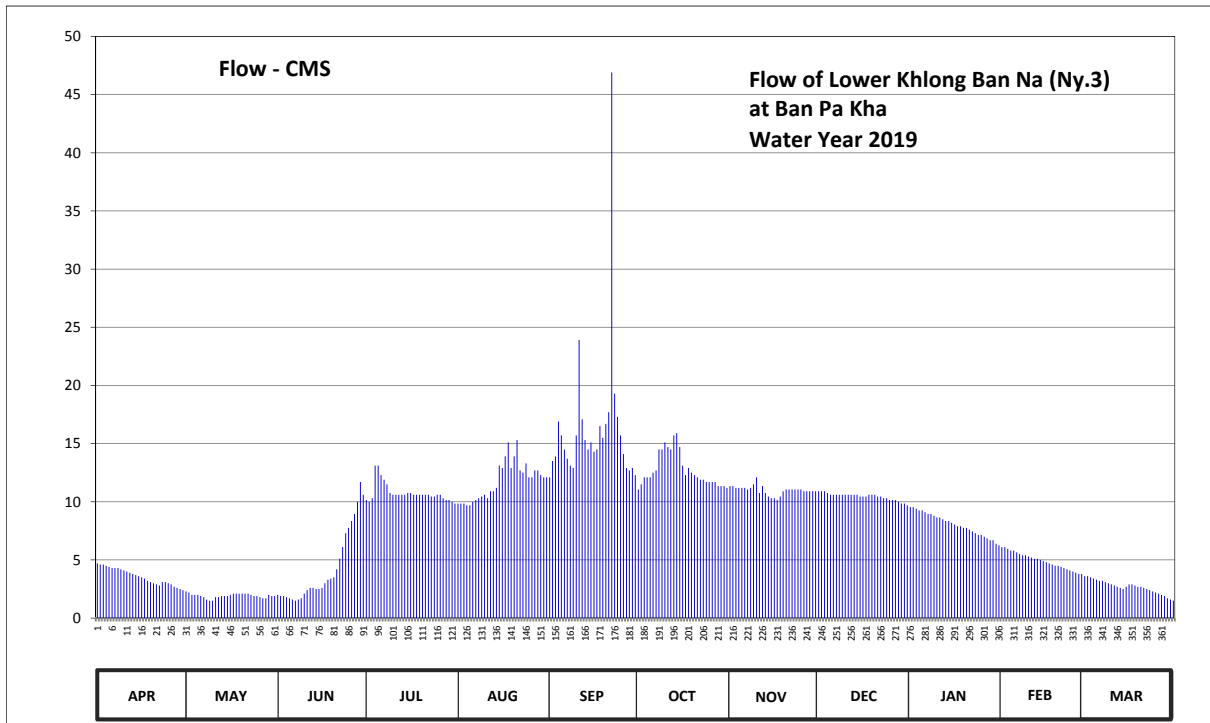
Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

	<b>Ban Pa Kha</b>	<b>Amphoe Ban Na</b>	<b>Changwat Nakhon Nayok</b>
<b>Drainage Area</b>	203 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.330 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 10 meters from the top staff gage.	<b>Elevation</b>	+12.695 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1977 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1977 - 1978 , 1980, 1988 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1977 - 1978 , 1980, 1988 to date		
<b>Stability of Channel Regimes</b>	Rather unstable with variable water surface slope.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +11.600 m.(MSL.), and is including overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.62	9.38	9.35	10.01	9.99	10.13	10.07	10.09	10.06	9.97	9.74	9.51	
2	9.61	9.37	9.34	10.00	9.99	10.20	10.10	10.09	10.06	9.97	9.74	9.51	
3	9.61	9.35	9.34	10.02	9.99	10.22	10.13	10.08	10.06	9.96	9.73	9.50	
4	9.60	9.35	9.33	10.18	9.98	10.37	10.13	10.08	10.05	9.95	9.72	9.49	
5	9.59	9.35	9.32	10.18	9.98	10.31	10.13	10.08	10.04	9.95	9.72	9.48	
6	9.58	9.34	9.31	10.14	10.00	10.25	10.15	10.08	10.04	9.94	9.71	9.47	
7	9.58	9.33	9.30	10.12	10.01	10.21	10.16	10.07	10.04	9.93	9.70	9.47	
8	9.58	9.31	9.31	10.10	10.02	10.18	10.25	10.08	10.04	9.93	9.69	9.46	
9	9.57	9.30	9.32	10.05	10.03	10.17	10.25	10.10	10.04	9.92	9.69	9.45	
10	9.56	9.30	9.36	10.04	10.04	10.31	10.28	10.13	10.04	9.91	9.68	9.44	
11	9.55	9.33	9.39	10.04	10.02	10.72	10.26	10.05	10.04	9.91	9.67	9.43	
12	9.54	9.33	9.41	10.04	10.06	10.38	10.25	10.09	10.04	9.90	9.66	9.42	
13	9.53	9.34	9.41	10.04	10.06	10.29	10.31	10.05	10.04	9.89	9.66	9.41	
14	9.52	9.34	9.40	10.04	10.08	10.25	10.32	10.03	10.04	9.89	9.65	9.40	
15	9.51	9.34	9.40	10.05	10.18	10.28	10.26	10.02	10.03	9.88	9.64	9.42	
16	9.50	9.35	9.41	10.05	10.17	10.24	10.18	10.02	10.03	9.87	9.63	9.44	
17	9.49	9.36	9.45	10.04	10.22	10.25	10.14	10.01	10.03	9.86	9.62	9.44	
18	9.47	9.36	9.48	10.04	10.28	10.35	10.17	10.03	10.04	9.86	9.61	9.43	
19	9.46	9.36	9.49	10.04	10.17	10.30	10.15	10.06	10.04	9.85	9.60	9.42	
20	9.45	9.36	9.50	10.04	10.22	10.36	10.14	10.07	10.04	9.85	9.60	9.42	
21	9.44	9.36	9.57	10.04	10.29	10.41	10.13	10.07	10.03	9.84	9.59	9.41	
22	9.43	9.36	9.66	10.04	10.16	11.63	10.12	10.07	10.03	9.83	9.58	9.40	
23	9.46	9.35	9.74	10.03	10.15	10.49	10.12	10.07	10.02	9.82	9.57	9.39	
24	9.46	9.34	9.82	10.03	10.19	10.39	10.11	10.07	10.02	9.81	9.56	9.38	
25	9.45	9.34	9.85	10.04	10.13	10.31	10.11	10.07	10.01	9.81	9.55	9.37	
26	9.44	9.33	9.89	10.04	10.13	10.23	10.11	10.06	10.01	9.80	9.54	9.36	
27	9.42	9.32	9.93	10.02	10.16	10.17	10.11	10.06	10.01	9.79	9.53	9.35	
28	9.41	9.32	10.00	10.01	10.16	10.16	10.09	10.06	10.00	9.78	9.53	9.34	
29	9.40	9.35	10.11	10.01	10.14	10.17	10.09	10.06	9.99	9.78	9.52	9.32	
30	9.39	9.34	10.04	10.00	10.13	10.14	10.09	10.06	9.99	9.76	9.51	9.31	
31		9.34		9.99	10.13		10.08		9.98	9.75		9.30	
Mean	9.51	9.34	9.54	10.05	10.11	10.33	10.16	10.07	10.03	9.87	9.64	9.42	
Max	9.62	9.38	10.11	10.18	10.29	11.63	10.32	10.13	10.06	9.97	9.74	9.51	11.63
Min	9.39	9.30	9.30	9.99	9.98	10.13	10.07	10.01	9.98	9.75	9.52	9.30	9.30
Annual Max Momentary Gage Height	12.08		m. (MSL.) ,			at 06.00 Hours ,	on Sep 22, 2019						
Zero Gage at Bottom Elevation	6.33		m. (MSL.) ,			River Bed	5.12	m. (MSL.)					
Left Bank Elevation	11.69		m. (MSL.) ,										
Right Bank Elevation	11.59		m. (MSL.) ,			Drainage Are	203	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.70	2.30	2.00	10.15	9.85	12.10	11.05	11.35	10.90	9.55	6.10	3.60	
2	4.60	2.20	1.90	10.00	9.85	13.50	11.50	11.35	10.90	9.55	6.10	3.60	
3	4.60	2.00	1.90	10.30	9.85	13.90	12.10	11.20	10.90	9.40	5.95	3.50	
4	4.50	2.00	1.80	13.10	9.70	16.90	12.10	11.20	10.75	9.25	5.80	3.40	
5	4.40	2.00	1.70	13.10	9.70	15.70	12.10	11.20	10.60	9.25	5.80	3.30	
6	4.30	1.90	1.60	12.30	10.00	14.50	12.50	11.20	10.60	9.10	5.65	3.20	
7	4.30	1.80	1.50	11.90	10.15	13.70	12.70	11.05	10.60	8.95	5.50	3.20	
8	4.30	1.60	1.60	11.50	10.30	13.10	14.50	11.20	10.60	8.95	5.40	3.10	
9	4.20	1.50	1.70	10.75	10.45	12.90	14.50	11.50	10.60	8.80	5.40	3.00	
10	4.10	1.50	2.10	10.60	10.60	15.70	15.10	12.10	10.60	8.65	5.30	2.90	
11	4.00	1.80	2.40	10.60	10.30	23.90	14.70	10.75	10.60	8.65	5.20	2.80	
12	3.90	1.80	2.60	10.60	10.90	17.10	14.50	11.35	10.60	8.50	5.10	2.70	
13	3.80	1.90	2.60	10.60	10.90	15.30	15.70	10.75	10.60	8.35	5.10	2.60	
14	3.70	1.90	2.50	10.60	11.20	14.50	15.90	10.45	10.60	8.35	5.00	2.50	
15	3.60	1.90	2.50	10.75	13.10	15.10	14.70	10.30	10.45	8.20	4.90	2.70	
16	3.50	2.00	2.60	10.75	12.90	14.30	13.10	10.30	10.45	8.05	4.80	2.90	
17	3.40	2.10	3.00	10.60	13.90	14.50	12.30	10.15	10.45	7.90	4.70	2.90	
18	3.20	2.10	3.30	10.60	15.10	16.50	12.90	10.45	10.60	7.90	4.60	2.80	
19	3.10	2.10	3.40	10.60	12.90	15.50	12.50	10.90	10.60	7.75	4.50	2.70	
20	3.00	2.10	3.50	10.60	13.90	16.70	12.30	11.05	10.60	7.75	4.50	2.70	
21	2.90	2.10	4.20	10.60	15.30	17.70	12.10	11.05	10.45	7.60	4.40	2.60	
22	2.80	2.10	5.10	10.60	12.70	46.90	11.90	11.05	10.45	7.45	4.30	2.50	
23	3.10	2.00	6.10	10.45	12.50	19.30	11.90	11.05	10.30	7.30	4.20	2.40	
24	3.10	1.90	7.30	10.45	13.30	17.30	11.70	11.05	10.30	7.15	4.10	2.30	
25	3.00	1.90	7.75	10.60	12.10	15.70	11.70	11.05	10.15	7.15	4.00	2.20	
26	2.90	1.80	8.35	10.60	12.10	14.10	11.70	10.90	10.15	7.00	3.90	2.10	
27	2.70	1.70	8.95	10.30	12.70	12.90	11.70	10.90	10.15	6.85	3.80	2.00	
28	2.60	1.70	10.00	10.15	12.70	12.70	11.35	10.90	10.00	6.70	3.80	1.90	
29	2.50	2.00	11.70	10.15	12.30	12.90	11.35	10.90	9.85	6.70	3.70	1.70	
30	2.40	1.90	10.60	10.00	12.10	12.30	11.35	10.90	9.85	6.40		1.60	
31		1.90		9.85	12.10		11.20		9.70	6.25		1.50	
Total	107.20	59.50	126.25	333.75	365.45	487.20	394.70	329.55	323.95	249.40	141.60	82.90	3001.45 CMSDAY
Mean	3.57	1.92	4.21	10.77	11.79	16.24	12.73	10.98	10.45	8.05	4.88	2.67	8.20 CMS
Max	4.70	2.30	11.70	13.10	15.30	46.90	15.90	12.10	10.90	9.55	6.10	3.60	46.90 CMS
Min	2.40	1.50	1.50	9.85	9.70	12.10	11.05	10.15	9.70	6.25	3.70	1.50	1.50 CMS
Runoff	9.26	5.14	10.91	28.84	31.57	42.09	34.10	28.47	27.99	21.55	12.23	7.16	259.33 MCM
Momentary Peak		61.80	CMS.	at 12.08 m. (MSL.)	at 06.00 Hours	, on Sep 22, 2019							
Runoff Yield		40.47	Liters/Second/Square KM.		Momentary Peak Yield	304.13	Liters/Second/Square KM.						

## WATER YEAR : 2019

## BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

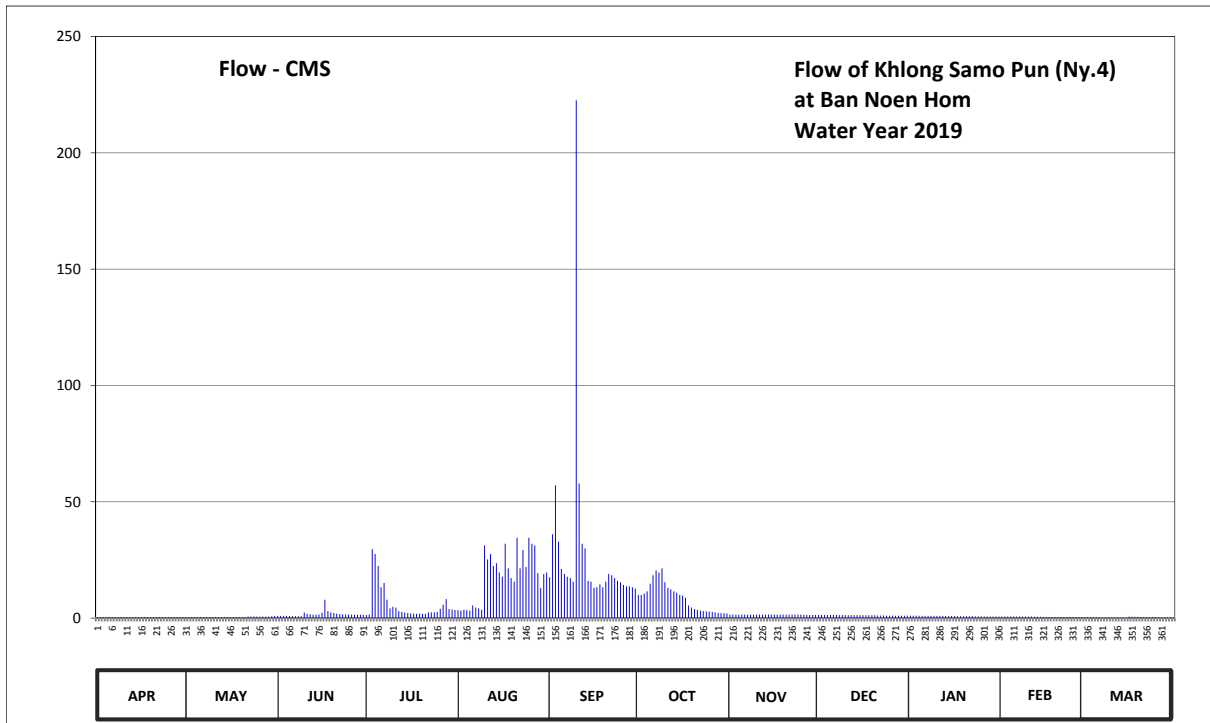
Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	<b>Ban</b>	<b>Noen Hom</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Prachin Buri</b>
<b>Drainage Area</b>	128	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+376.100 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	+382.580 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1986 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1986 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.30	376.30	376.39	376.48	376.74	377.35	377.10	376.50	376.47	376.40	376.34	376.29	
2	376.30	376.30	376.39	376.52	376.72	377.84	377.10	376.50	376.47	376.40	376.34	376.29	
3	376.30	376.30	376.39	377.69	376.76	378.20	377.12	376.50	376.47	376.40	376.34	376.28	
4	376.30	376.30	376.39	377.64	376.74	377.77	377.15	376.50	376.47	376.40	376.34	376.28	
5	376.30	376.30	376.38	377.51	376.72	377.47	377.26	376.50	376.47	376.39	376.34	376.27	
6	376.30	376.30	376.38	377.21	376.92	377.40	377.38	376.50	376.47	376.39	376.34	376.27	
7	376.30	376.30	376.37	377.27	376.85	377.36	377.45	376.50	376.47	376.39	376.34	376.26	
8	376.30	376.30	376.37	377.03	376.82	377.34	377.42	376.50	376.46	376.39	376.34	376.26	
9	376.30	376.30	376.37	376.82	376.76	377.29	377.48	376.50	376.46	376.39	376.33	376.26	
10	376.30	376.30	376.64	376.89	377.73	379.43	377.28	376.50	376.46	376.39	376.33	376.26	
11	376.30	376.30	376.57	376.85	377.58	378.21	377.20	376.50	376.46	376.39	376.33	376.25	
12	376.30	376.30	376.53	376.70	377.64	377.75	377.18	376.50	376.46	376.39	376.32	376.25	
13	376.30	376.30	376.50	376.67	377.51	377.70	377.15	376.50	376.46	376.39	376.32	376.25	
14	376.30	376.30	376.50	376.64	377.54	377.30	377.13	376.50	376.46	376.38	376.31	376.25	
15	376.30	376.30	376.51	376.62	377.42	377.29	377.10	376.50	376.45	376.38	376.31	376.25	
16	376.30	376.30	376.63	376.60	377.36	377.20	377.09	376.50	376.45	376.38	376.31	376.32	
17	376.30	376.30	377.03	376.58	377.75	377.21	377.06	376.50	376.45	376.37	376.30	376.32	
18	376.30	376.30	376.70	376.57	377.48	377.25	376.92	376.50	376.45	376.37	376.30	376.31	
19	376.30	376.30	376.65	376.57	377.34	377.21	376.85	376.50	376.45	376.36	376.30	376.31	
20	376.30	376.30	376.62	376.56	377.29	377.29	376.79	376.50	376.45	376.36	376.30	376.30	
21	376.30	376.30	376.59	376.57	377.81	377.40	376.75	376.50	376.42	376.36	376.29	376.30	
22	376.30	376.33	376.54	376.65	377.48	377.38	376.72	376.50	376.42	376.36	376.29	376.29	
23	376.30	376.34	376.51	376.65	377.68	377.34	376.70	376.50	376.42	376.35	376.29	376.29	
24	376.30	376.35	376.51	376.65	377.50	377.30	376.69	376.50	376.41	376.35	376.29	376.29	
25	376.30	376.34	376.50	376.67	377.81	377.28	376.68	376.50	376.41	376.35	376.29	376.28	
26	376.30	376.34	376.50	376.80	377.75	377.24	376.67	376.49	376.41	376.34	376.29	376.28	
27	376.30	376.34	376.49	376.94	377.73	377.22	376.65	376.48	376.41	376.34	376.29	376.27	
28	376.30	376.33	376.49	377.04	377.41	377.22	376.62	376.47	376.40	376.34	376.29	376.27	
29	376.30	376.34	376.49	376.79	377.20	377.21	376.61	376.47	376.40	376.34	376.29	376.27	
30	376.30	376.36	376.49	376.77	377.40	377.19	376.61	376.47	376.40	376.34	376.29	376.27	
31		376.39		376.75	377.42		376.60		376.40	376.34		376.27	
Mean	376.30	376.31	376.51	376.83	377.32	377.49	376.98	376.50	376.44	376.37	376.31	376.28	
Max	376.30	376.39	377.03	377.69	377.81	379.43	377.48	376.50	376.47	376.40	376.34	376.32	379.43
Min	376.30	376.30	376.37	376.48	376.72	377.19	376.60	376.47	376.40	376.34	376.29	376.25	376.25
Annual Max Momentary Gage Height	379.90		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	376.10		m. (MSL.) ,			River Bed	375.07	m. (MSL.)					
Left Bank Elevation		380.12		m. (MSL.) ,									
Right Bank Elevation		380.91		m. (MSL.) ,		Drainage Are	128	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.50	0.95	1.40	3.40	17.50	10.00	1.50	1.35	1.00	0.70	0.45	
2	0.50	0.50	0.95	1.60	3.20	36.00	10.00	1.50	1.35	1.00	0.70	0.45	
3	0.50	0.50	0.95	29.60	3.60	57.00	10.60	1.50	1.35	1.00	0.70	0.40	
4	0.50	0.50	0.95	27.60	3.40	32.80	11.50	1.50	1.35	1.00	0.70	0.40	
5	0.50	0.50	0.90	22.40	3.20	21.10	14.80	1.50	1.35	0.95	0.70	0.35	
6	0.50	0.50	0.90	13.30	5.40	19.00	18.40	1.50	1.35	0.95	0.70	0.35	
7	0.50	0.50	0.85	15.10	4.50	17.80	20.50	1.50	1.35	0.95	0.70	0.30	
8	0.50	0.50	0.85	7.90	4.20	17.20	19.60	1.50	1.30	0.95	0.70	0.30	
9	0.50	0.50	0.85	4.20	3.60	15.70	21.40	1.50	1.30	0.95	0.65	0.30	
10	0.50	0.50	2.40	4.90	31.20	222.50	15.40	1.50	1.30	0.95	0.65	0.30	
11	0.50	0.50	1.85	4.50	25.20	57.80	13.00	1.50	1.30	0.95	0.65	0.25	
12	0.50	0.50	1.65	3.00	27.60	32.00	12.40	1.50	1.30	0.95	0.60	0.25	
13	0.50	0.50	1.50	2.70	22.40	30.00	11.50	1.50	1.30	0.95	0.60	0.25	
14	0.50	0.50	1.50	2.40	23.60	16.00	10.90	1.50	1.30	0.90	0.55	0.25	
15	0.50	0.50	1.55	2.20	19.60	15.70	10.00	1.50	1.25	0.90	0.55	0.25	
16	0.50	0.50	2.30	2.00	17.80	13.00	9.70	1.50	1.25	0.90	0.55	0.60	
17	0.50	0.50	7.90	1.90	32.00	13.30	8.80	1.50	1.25	0.85	0.50	0.60	
18	0.50	0.50	3.00	1.85	21.40	14.50	5.40	1.50	1.25	0.85	0.50	0.55	
19	0.50	0.50	2.50	1.85	17.20	13.30	4.50	1.50	1.25	0.80	0.50	0.55	
20	0.50	0.50	2.20	1.80	15.70	15.70	3.90	1.50	1.25	0.80	0.50	0.50	
21	0.50	0.50	1.95	1.85	34.50	19.00	3.50	1.50	1.10	0.80	0.45	0.50	
22	0.50	0.65	1.70	2.50	21.40	18.40	3.20	1.50	1.10	0.80	0.45	0.45	
23	0.50	0.70	1.55	2.50	29.20	17.20	3.00	1.50	1.10	0.75	0.45	0.45	
24	0.50	0.75	1.55	2.50	22.00	16.00	2.90	1.50	1.05	0.75	0.45	0.45	
25	0.50	0.70	1.50	2.70	34.50	15.40	2.80	1.50	1.05	0.75	0.45	0.40	
26	0.50	0.70	1.50	4.00	32.00	14.20	2.70	1.45	1.05	0.70	0.45	0.40	
27	0.50	0.70	1.45	5.80	31.20	13.60	2.50	1.40	1.05	0.70	0.45	0.35	
28	0.50	0.65	1.45	8.20	19.30	13.60	2.20	1.35	1.00	0.70	0.45	0.35	
29	0.50	0.70	1.45	3.90	13.00	13.30	2.10	1.35	1.00	0.70	0.45	0.35	
30	0.50	0.80	1.45	3.70	19.00	12.70	2.10	1.35	1.00	0.70	0.45	0.35	
31	0.50	0.95	3.50	19.60	2.00	1.00	0.70	0.35	1.00	0.70	0.45	0.35	
Total	15.00	17.80	52.05	193.35	563.90	831.30	271.30	44.40	37.55	26.60	16.45	12.05	2081.75 CMSDAY
Mean	0.50	0.57	1.74	6.24	18.19	27.71	8.75	1.48	1.21	0.86	0.57	0.39	5.69 CMS
Max	0.50	0.95	7.90	29.60	34.50	222.50	21.40	1.50	1.35	1.00	0.70	0.60	222.50 CMS
Min	0.50	0.50	0.85	1.40	3.20	12.70	2.00	1.35	1.00	0.70	0.45	0.25	0.25 CMS
Runoff	1.30	1.54	4.50	16.71	48.72	71.82	23.44	3.84	3.24	2.30	1.42	1.04	179.86 MCM
Momentary Peak	500.00 CMS. at 379.90 m. (MSL.) at 06.00 Hours , on Sep 10, 2019												
Runoff Yield	44.49 Liters/Second/Square KM.			Momentary Peak Yield			3900.46 Liters/Second/Square KM.						

## WATER YEAR : 2019

## BANG PAKONG RIVER BASIN

## Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)

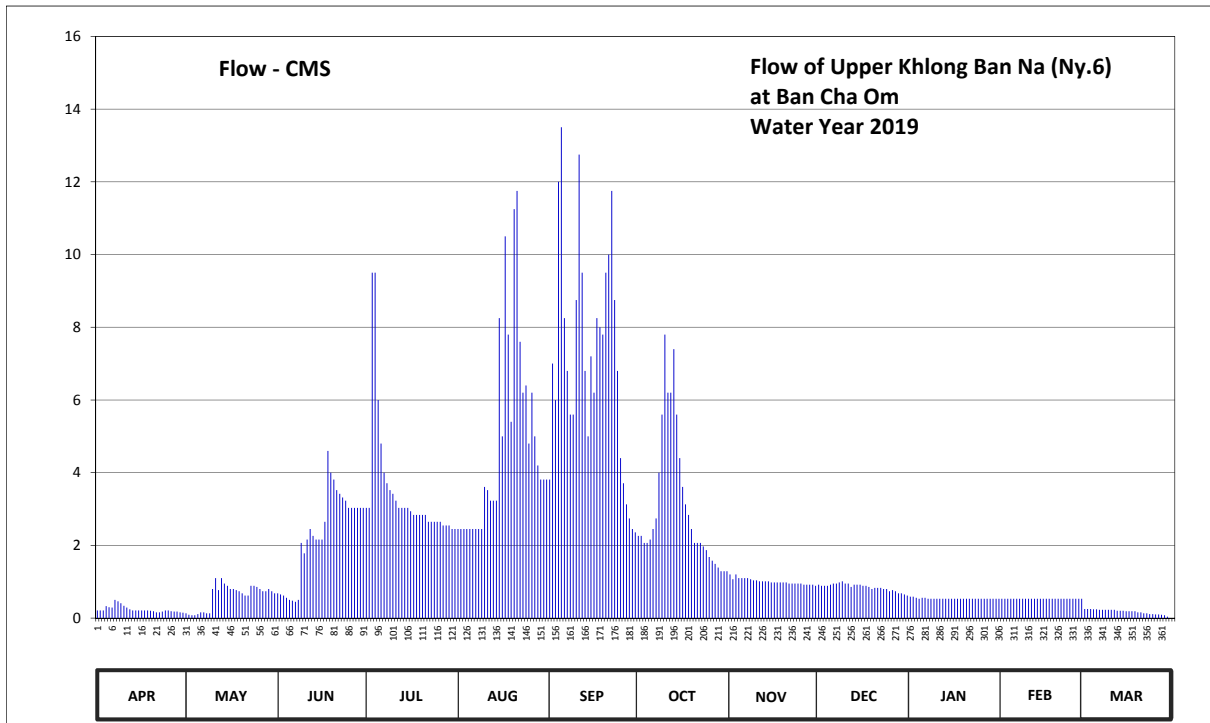
Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	Amphoe Kaeng Khoi	Changwat Saraburi
<b>Drainage Area</b>	126 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+29.600 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 50 meters from the top staff gage.	<b>Elevation</b>	+34.960 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1988 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1988 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1988 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.37	30.30	30.66	31.00	30.94	31.08	30.92	30.81	30.74	30.63	30.61	30.40	
2	30.37	30.27	30.65	31.00	30.94	31.25	30.92	30.79	30.73	30.63	30.61	30.40	
3	30.37	30.26	30.64	31.36	30.94	31.20	30.90	30.81	30.73	30.62	30.61	30.40	
4	30.46	30.26	30.62	31.36	30.94	31.46	30.90	30.80	30.73	30.61	30.61	30.39	
5	30.44	30.29	30.60	31.20	30.94	31.52	30.91	30.80	30.74	30.62	30.61	30.39	
6	30.43	30.33	30.58	31.14	30.94	31.31	30.94	30.80	30.75	30.62	30.61	30.38	
7	30.60	30.33	30.56	31.10	30.94	31.24	30.97	30.80	30.75	30.61	30.61	30.38	
8	30.57	30.30	30.60	31.07	30.94	31.18	31.10	30.79	30.76	30.61	30.61	30.38	
9	30.53	30.30	30.90	31.05	30.94	31.18	31.18	30.78	30.77	30.61	30.61	30.38	
10	30.47	30.70	30.87	31.04	31.06	31.33	31.29	30.78	30.75	30.61	30.61	30.38	
11	30.43	30.80	30.91	31.02	31.05	31.49	31.21	30.77	30.75	30.61	30.61	30.38	
12	30.39	30.69	30.94	31.00	31.02	31.36	31.21	30.77	30.72	30.61	30.61	30.36	
13	30.37	30.80	30.92	31.00	31.02	31.24	31.27	30.77	30.74	30.61	30.61	30.36	
14	30.37	30.75	30.91	31.00	31.02	31.15	31.18	30.77	30.74	30.61	30.61	30.36	
15	30.37	30.73	30.91	31.00	31.31	31.26	31.12	30.76	30.74	30.61	30.61	30.35	
16	30.37	30.70	30.91	30.99	31.15	31.21	31.06	30.76	30.73	30.61	30.61	30.35	
17	30.37	30.70	30.96	30.98	31.40	31.31	31.01	30.76	30.73	30.61	30.61	30.35	
18	30.37	30.69	31.13	30.98	31.29	31.30	30.98	30.76	30.72	30.61	30.61	30.35	
19	30.36	30.68	31.10	30.98	31.17	31.29	30.94	30.76	30.70	30.61	30.61	30.33	
20	30.35	30.66	31.08	30.98	31.43	31.36	30.90	30.76	30.71	30.61	30.61	30.33	
21	30.33	30.64	31.05	30.98	31.45	31.38	30.90	30.75	30.71	30.61	30.61	30.30	
22	30.33	30.64	31.04	30.96	31.28	31.45	30.90	30.75	30.71	30.61	30.61	30.30	
23	30.34	30.73	31.03	30.96	31.21	31.33	30.89	30.75	30.70	30.61	30.61	30.29	
24	30.37	30.73	31.02	30.96	31.22	31.24	30.88	30.75	30.70	30.61	30.61	30.29	
25	30.37	30.72	31.00	30.96	31.14	31.12	30.86	30.75	30.68	30.61	30.61	30.28	
26	30.35	30.70	31.00	30.96	31.21	31.07	30.85	30.74	30.69	30.61	30.61	30.28	
27	30.34	30.68	31.00	30.95	31.15	31.01	30.84	30.74	30.68	30.61	30.61	30.27	
28	30.34	30.68	31.00	30.95	31.11	30.97	30.83	30.74	30.66	30.61	30.61	30.26	
29	30.33	30.70	31.00	30.95	31.08	30.94	30.82	30.74	30.66	30.61	30.60	30.23	
30	30.32	30.68	31.00	30.94	31.08	30.93	30.82	30.73	30.65	30.61	30.61	30.20	
31		30.66		30.94	31.08		30.82		30.64	30.61		30.20	
Mean	30.39	30.58	30.89	31.02	31.11	31.24	30.98	30.77	30.72	30.61	30.61	30.33	
Max	30.60	30.80	31.13	31.36	31.45	31.52	31.29	30.81	30.77	30.63	30.61	30.40	31.52
Min	30.32	30.26	30.56	30.94	30.94	30.93	30.82	30.73	30.64	30.61	30.60	30.20	30.20
Annual Max Momentary Gage Height	31.60		m. (MSL.) ,			at 06.00 Hours ,	on Sep 5, 2019						
Zero Gage at Bottom Elevation	29.60		m. (MSL.) ,			River Bed	28.77	m. (MSL.)					
Left Bank Elevation		32.66		m. (MSL.) ,									
Right Bank Elevation		33.09		m. (MSL.) ,		Drainage Are	126	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.21	0.13	0.68	3.03	2.45	3.81	2.26	1.20	0.92	0.59	0.53	0.25	
2	0.21	0.09	0.65	3.03	2.45	7.00	2.26	1.07	0.89	0.59	0.53	0.25	
3	0.21	0.08	0.62	9.50	2.45	6.00	2.07	1.20	0.89	0.56	0.53	0.25	
4	0.33	0.08	0.56	9.50	2.45	12.00	2.07	1.10	0.89	0.53	0.53	0.24	
5	0.30	0.11	0.50	6.00	2.45	13.50	2.16	1.10	0.92	0.56	0.53	0.24	
6	0.29	0.16	0.48	4.80	2.45	8.25	2.45	1.10	0.95	0.56	0.53	0.23	
7	0.50	0.16	0.45	4.00	2.45	6.80	2.74	1.10	0.95	0.53	0.53	0.23	
8	0.46	0.13	0.50	3.71	2.45	5.60	4.00	1.07	0.98	0.53	0.53	0.23	
9	0.41	0.13	2.07	3.52	2.45	5.60	5.60	1.04	1.01	0.53	0.53	0.23	
10	0.34	0.80	1.78	3.42	3.61	8.75	7.80	1.04	0.95	0.53	0.53	0.23	
11	0.29	1.10	2.16	3.23	3.52	12.75	6.20	1.01	0.95	0.53	0.53	0.23	
12	0.24	0.77	2.45	3.03	3.23	9.50	6.20	1.01	0.86	0.53	0.53	0.20	
13	0.21	1.10	2.26	3.03	3.23	6.80	7.40	1.01	0.92	0.53	0.53	0.20	
14	0.21	0.95	2.16	3.03	3.23	5.00	5.60	1.01	0.92	0.53	0.53	0.20	
15	0.21	0.89	2.16	3.03	8.25	7.20	4.40	0.98	0.92	0.53	0.53	0.19	
16	0.21	0.80	2.16	2.94	5.00	6.20	3.61	0.98	0.89	0.53	0.53	0.19	
17	0.21	0.80	2.65	2.84	10.50	8.25	3.13	0.98	0.89	0.53	0.53	0.19	
18	0.21	0.77	4.60	2.84	7.80	8.00	2.84	0.98	0.86	0.53	0.53	0.19	
19	0.20	0.74	4.00	2.84	5.40	7.80	2.45	0.98	0.80	0.53	0.53	0.16	
20	0.19	0.68	3.81	2.84	11.25	9.50	2.07	0.98	0.83	0.53	0.53	0.16	
21	0.16	0.62	3.52	2.84	11.75	10.00	2.07	0.95	0.83	0.53	0.53	0.13	
22	0.16	0.62	3.42	2.65	7.60	11.75	2.07	0.95	0.83	0.53	0.53	0.13	
23	0.18	0.89	3.32	2.65	6.20	8.75	1.97	0.95	0.80	0.53	0.53	0.11	
24	0.21	0.89	3.23	2.65	6.40	6.80	1.87	0.95	0.80	0.53	0.53	0.11	
25	0.21	0.86	3.03	2.65	4.80	4.40	1.68	0.95	0.74	0.53	0.53	0.10	
26	0.19	0.80	3.03	2.65	6.20	3.71	1.58	0.92	0.77	0.53	0.53	0.10	
27	0.18	0.74	3.03	2.55	5.00	3.13	1.49	0.92	0.74	0.53	0.53	0.09	
28	0.18	0.74	3.03	2.55	4.20	2.74	1.39	0.92	0.68	0.53	0.53	0.08	
29	0.16	0.80	3.03	2.55	3.81	2.45	1.29	0.92	0.68	0.53	0.50	0.04	
30	0.15	0.74	3.03	2.45	3.81	2.36	1.29	0.89	0.65	0.53		0.00	
31		0.68		2.45	3.81		1.29		0.62	0.53		0.00	
<b>Total</b>	7.22	18.85	68.37	108.80	150.65	214.40	95.30	30.26	26.33	16.64	15.34	5.18	757.34 CMSDAY
<b>Mean</b>	0.24	0.61	2.28	3.51	4.86	7.15	3.07	1.01	0.85	0.54	0.53	0.17	2.07 CMS
<b>Max</b>	0.50	1.10	4.60	9.50	11.75	13.50	7.80	1.20	1.01	0.59	0.53	0.25	13.50 CMS
<b>Min</b>	0.15	0.08	0.45	2.45	2.45	2.36	1.29	0.89	0.62	0.53	0.50	0.00	0.00 CMS
<b>Runoff</b>	0.62	1.63	5.91	9.40	13.02	18.52	8.23	2.61	2.27	1.44	1.33	0.45	65.43 MCM
<b>Momentary Peak</b>	15.50	CMS. at 31.60 m. (MSL.) at 06.00 Hours , on Sep 5, 2019											
<b>Runoff Yield</b>	16.44	Liters/Second/Square KM. Momentary Peak Yield 122.79 Liters/Second/Square KM.											

## WATER YEAR : 2019

## TONLE SAP BASIN

## Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (TI.3)

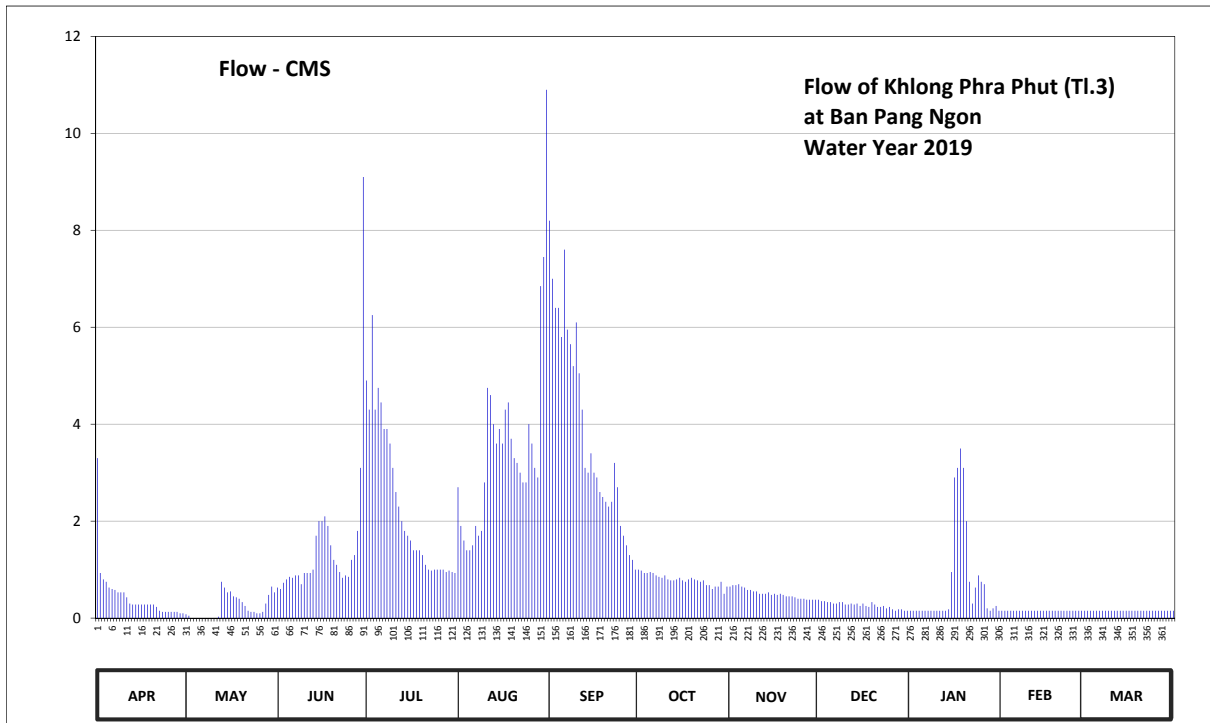
Lat 12 - 58 - 12 N Long 102 - 17 - 20 E

Location : on left bank downstream from the bridge of Pong Nam Ron -Wang Nam Yen Highway.

	Ban Pang Ngon	Amphoe Pong Nam Ron	Changwat Chanthaburi
<b>Drainage Area</b>	71 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+190.680 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+194.887 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.43	190.83	191.05	191.56	191.37	191.78	191.20	191.06	190.95	190.86	190.86	190.86	
2	191.17	190.82	191.04	191.52	191.29	191.70	191.19	191.07	190.94	190.86	190.86	190.86	
3	191.12	190.78	191.09	191.65	191.26	191.66	191.17	191.07	190.94	190.86	190.86	190.86	
4	191.10	190.78	191.12	191.52	191.24	191.66	191.17	191.08	190.93	190.86	190.86	190.86	
5	191.05	190.77	191.14	191.55	191.24	191.62	191.18	191.06	190.93	190.86	190.86	190.86	
6	191.04	190.77	191.13	191.53	191.25	191.74	191.17	191.05	190.92	190.86	190.86	190.86	
7	191.03	190.77	191.15	191.49	191.29	191.63	191.15	191.03	190.92	190.86	190.86	190.86	
8	191.01	190.76	191.15	191.49	191.27	191.61	191.14	191.03	190.93	190.86	190.86	190.86	
9	191.01	190.75	191.08	191.46	191.28	191.58	191.13	191.02	190.93	190.86	190.86	190.86	
10	191.01	190.73	191.17	191.41	191.38	191.64	191.15	191.02	190.91	190.86	190.86	190.86	
11	190.97	190.74	191.17	191.36	191.55	191.57	191.12	191.00	190.91	190.86	190.86	190.86	
12	190.92	190.81	191.17	191.33	191.54	191.52	191.11	191.00	190.92	190.86	190.86	190.86	
13	190.91	191.10	191.20	191.30	191.50	191.41	191.11	191.00	190.91	190.86	190.86	190.86	
14	190.91	191.05	191.27	191.28	191.46	191.40	191.12	191.01	190.92	190.87	190.86	190.86	
15	190.91	191.01	191.30	191.27	191.49	191.44	191.13	190.99	190.90	191.18	190.86	190.86	
16	190.91	191.02	191.30	191.26	191.46	191.40	191.11	191.00	190.92	191.39	190.86	190.86	
17	190.91	190.98	191.31	191.24	191.52	191.39	191.10	190.99	190.90	191.41	190.86	190.86	
18	190.91	190.97	191.29	191.24	191.53	191.36	191.12	191.00	190.89	191.45	190.86	190.86	
19	190.91	190.96	191.25	191.24	191.47	191.35	191.13	190.99	190.93	191.41	190.86	190.86	
20	190.91	190.93	191.22	191.23	191.43	191.34	191.12	190.98	190.91	191.30	190.86	190.86	
21	190.89	190.90	191.21	191.21	191.42	191.33	191.11	190.98	190.89	191.10	190.86	190.86	
22	190.86	190.86	191.18	191.20	191.40	191.34	191.10	190.98	190.89	190.92	190.86	190.86	
23	190.85	190.85	191.13	191.19	191.38	191.42	191.11	190.97	190.90	191.05	190.86	190.86	
24	190.85	190.85	191.15	191.20	191.38	191.37	191.07	190.96	190.88	191.15	190.86	190.86	
25	190.85	190.84	191.14	191.20	191.50	191.29	191.07	190.96	190.89	191.10	190.86	190.86	
26	190.85	190.84	191.22	191.20	191.46	191.27	191.04	190.96	190.87	191.08	190.86	190.86	
27	190.85	190.85	191.23	191.20	191.41	191.25	191.06	190.95	190.86	190.88	190.86	190.86	
28	190.85	190.92	191.28	191.18	191.39	191.23	191.06	190.95	190.87	190.86	190.86	190.86	
29	190.84	190.99	191.41	191.19	191.69	191.22	191.10	190.95	190.87	190.88	190.86	190.86	
30	190.84	191.06	191.83	191.18	191.73	191.20	191.00	190.95	190.86	190.90	190.86	190.86	
31		191.01		191.17	191.92		191.06		190.86	190.86		190.86	
Mean	190.96	190.88	191.21	191.32	191.44	191.46	191.12	191.00	190.90	191.00	190.86	190.86	
Max	191.43	191.10	191.83	191.65	191.92	191.78	191.20	191.08	190.95	191.45	190.86	190.86	191.92
Min	190.84	190.73	191.04	191.17	191.24	191.20	191.00	190.95	190.86	190.86	190.86	190.86	190.73
Annual Max Momentary Gage Height	192.20		m. (MSL.) ,				at 18.00 Hours ,						on Aug 29, 2019
Zero Gage at Bottom Elevation	190.68		m. (MSL.) ,			River Bed	190.77		m. (MSL.)				
Left Bank Elevation		195.58		m. (MSL.) ,									
Right Bank Elevation		195.57		m. (MSL.) ,		Drainage Are	71		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	0.08	0.63	4.90	2.70	8.20	1.00	0.65	0.38	0.15	0.15	0.15	
2	0.93	0.05	0.60	4.30	1.90	7.00	0.98	0.68	0.35	0.15	0.15	0.15	
3	0.80	0.00	0.73	6.25	1.60	6.40	0.93	0.68	0.35	0.15	0.15	0.15	
4	0.75	0.00	0.80	4.30	1.40	6.40	0.93	0.70	0.33	0.15	0.15	0.15	
5	0.63	0.00	0.85	4.75	1.40	5.80	0.95	0.65	0.33	0.15	0.15	0.15	
6	0.60	0.00	0.83	4.45	1.50	7.60	0.93	0.63	0.30	0.15	0.15	0.15	
7	0.58	0.00	0.88	3.90	1.90	5.95	0.88	0.58	0.30	0.15	0.15	0.15	
8	0.53	0.00	0.88	3.90	1.70	5.65	0.85	0.58	0.33	0.15	0.15	0.15	
9	0.53	0.00	0.70	3.60	1.80	5.20	0.83	0.55	0.33	0.15	0.15	0.15	
10	0.53	0.00	0.93	3.10	2.80	6.10	0.88	0.55	0.28	0.15	0.15	0.15	
11	0.43	0.00	0.93	2.60	4.75	5.05	0.80	0.50	0.28	0.15	0.15	0.15	
12	0.30	0.03	0.93	2.30	4.60	4.30	0.78	0.50	0.30	0.15	0.15	0.15	
13	0.28	0.75	1.00	2.00	4.00	3.10	0.78	0.50	0.28	0.15	0.15	0.15	
14	0.28	0.63	1.70	1.80	3.60	3.00	0.80	0.53	0.30	0.18	0.15	0.15	
15	0.28	0.53	2.00	1.70	3.90	3.40	0.83	0.48	0.25	0.95	0.15	0.15	
16	0.28	0.55	2.00	1.60	3.60	3.00	0.78	0.50	0.30	2.90	0.15	0.15	
17	0.28	0.45	2.10	1.40	4.30	2.90	0.75	0.48	0.25	3.10	0.15	0.15	
18	0.28	0.43	1.90	1.40	4.45	2.60	0.80	0.50	0.23	3.50	0.15	0.15	
19	0.28	0.40	1.50	1.40	3.70	2.50	0.83	0.48	0.33	3.10	0.15	0.15	
20	0.28	0.33	1.20	1.30	3.30	2.40	0.80	0.45	0.28	2.00	0.15	0.15	
21	0.23	0.25	1.10	1.10	3.20	2.30	0.78	0.45	0.23	0.75	0.15	0.15	
22	0.15	0.15	0.95	1.00	3.00	2.40	0.75	0.45	0.23	0.30	0.15	0.15	
23	0.13	0.13	0.83	0.98	2.80	3.20	0.78	0.43	0.25	0.63	0.15	0.15	
24	0.13	0.13	0.88	1.00	2.80	2.70	0.68	0.40	0.20	0.88	0.15	0.15	
25	0.13	0.10	0.85	1.00	4.00	1.90	0.68	0.40	0.23	0.75	0.15	0.15	
26	0.13	0.10	1.20	1.00	3.60	1.70	0.60	0.40	0.18	0.70	0.15	0.15	
27	0.13	0.13	1.30	1.00	3.10	1.50	0.65	0.38	0.15	0.20	0.15	0.15	
28	0.13	0.30	1.80	0.95	2.90	1.30	0.65	0.38	0.18	0.15	0.15	0.15	
29	0.10	0.48	3.10	0.98	6.85	1.20	0.75	0.38	0.18	0.20	0.15	0.15	
30	0.10	0.65	9.10	0.95	7.45	1.00	0.50	0.38	0.15	0.25	0.15	0.15	
31		0.53		0.93	10.90		0.65		0.15	0.15		0.15	
Total	13.51	7.18	44.20	71.84	109.50	115.75	24.58	15.22	8.21	22.64	4.35	4.65	441.63 CMSDAY
Mean	0.45	0.23	1.47	2.32	3.53	3.86	0.79	0.51	0.26	0.73	0.15	0.15	1.21 CMS
Max	3.30	0.75	9.10	6.25	10.90	8.20	1.00	0.70	0.38	3.50	0.15	0.15	10.90 CMS
Min	0.10	0.00	0.60	0.93	1.40	1.00	0.50	0.38	0.15	0.15	0.15	0.15	0.00 CMS
Runoff	1.17	0.62	3.82	6.21	9.46	10.00	2.12	1.32	0.71	1.96	0.38	0.40	38.16 MCM
Momentary Peak	17.00	CMS.	at 192.20 m. (MSL.)	at 18.00 Hours, on Aug 29, 2019									
Runoff Yield	16.95	Liters/Second/Square KM.		Momentary Peak Yield	238.20	Liters/Second/Square KM.							



## WATER YEAR : 2019

## TONLE SAP BASIN

## Khlong Ta Kong at Ban Khlong Ta Kong , Chanthaburi (T1.4)

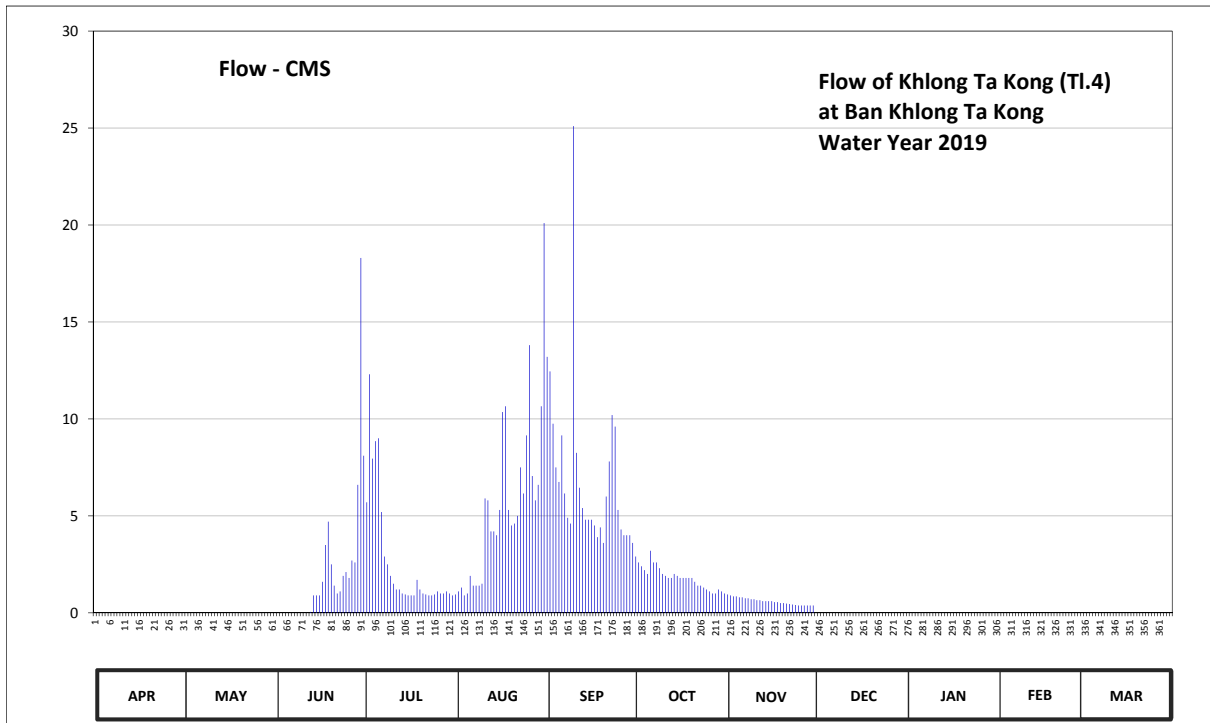
Lat 12 - 55 - 02 N Long 102 - 19 - 30 E

Location : on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron.

	<b>Ban Khlong Ta Kong</b>	<b>Amphoe Pong Nam Ron</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	86 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+176.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+184.723 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records good. Flow effected by the local weir. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.80	176.80	176.80	177.84	177.19	178.18	177.39	177.19	176.80	176.80	176.80	176.80	
2	176.80	176.80	176.80	177.67	177.21	178.13	177.36	177.18	176.80	176.80	176.80	176.80	
3	176.80	176.80	176.80	178.12	177.23	177.95	177.34	177.17	176.80	176.80	176.80	176.80	
4	176.80	176.80	176.80	177.83	177.18	177.80	177.32	177.17	176.80	176.80	176.80	176.80	
5	176.80	176.80	176.80	177.89	177.20	177.75	177.30	177.16	176.80	176.80	176.80	176.80	
6	176.80	176.80	176.80	177.90	177.29	177.91	177.42	177.16	176.80	176.80	176.80	176.80	
7	176.80	176.80	176.80	177.62	177.24	177.71	177.36	177.15	176.80	176.80	176.80	176.80	
8	176.80	176.80	176.80	177.39	177.24	177.59	177.36	177.15	176.80	176.80	176.80	176.80	
9	176.80	176.80	176.80	177.35	177.24	177.56	177.33	177.14	176.80	176.80	176.80	176.80	
10	176.80	176.80	176.80	177.29	177.25	178.83	177.30	177.14	176.80	176.80	176.80	176.80	
11	176.80	176.80	176.80	177.25	177.69	177.85	177.29	177.13	176.80	176.80	176.80	176.80	
12	176.80	176.80	176.80	177.22	177.68	177.73	177.28	177.13	176.80	176.80	176.80	176.80	
13	176.80	176.80	176.92	177.22	177.52	177.64	177.28	177.12	176.80	176.80	176.80	176.80	
14	176.80	176.80	177.18	177.20	177.52	177.58	177.30	177.12	176.80	176.80	176.80	176.80	
15	176.80	176.80	177.18	177.19	177.50	177.58	177.29	177.12	176.80	176.80	176.80	176.80	
16	176.80	176.80	177.18	177.18	177.63	177.58	177.28	177.12	176.80	176.80	176.80	176.80	
17	176.80	176.80	177.26	177.18	177.99	177.55	177.28	177.11	176.80	176.80	176.80	176.80	
18	176.80	176.80	177.45	177.18	178.01	177.49	177.28	177.11	176.80	176.80	176.80	176.80	
19	176.80	176.80	177.57	177.27	177.63	177.54	177.28	177.10	176.80	176.80	176.80	176.80	
20	176.80	176.80	177.35	177.22	177.55	177.46	177.28	177.10	176.80	176.80	176.80	176.80	
21	176.80	176.80	177.24	177.20	177.56	177.70	177.26	177.09	176.80	176.80	176.80	176.80	
22	176.80	176.80	177.20	177.19	177.60	177.82	177.24	177.08	176.80	176.80	176.80	176.80	
23	176.80	176.80	177.21	177.18	177.80	177.98	177.24	177.07	176.80	176.80	176.80	176.80	
24	176.80	176.80	177.29	177.18	177.71	177.94	177.23	177.06	176.80	176.80	176.80	176.80	
25	176.80	176.80	177.31	177.19	177.91	177.63	177.22	177.05	176.80	176.80	176.80	176.80	
26	176.80	176.80	177.28	177.21	178.22	177.53	177.21	177.05	176.80	176.80	176.80	176.80	
27	176.80	176.80	177.37	177.20	177.77	177.50	177.20	177.05	176.80	176.80	176.80	176.80	
28	176.80	176.80	177.36	177.20	177.68	177.50	177.20	177.05	176.80	176.80	176.80	176.80	
29	176.80	176.80	177.74	177.21	177.74	177.50	177.22	177.05	176.80	176.80	176.80	176.80	
30	176.80	176.80	178.49	177.20	178.01	177.46	177.21	177.05	176.80	176.80	176.80	176.80	
31		176.80		177.18	178.58		177.20		176.80	176.80		176.80	
Mean	176.80	176.80	177.14	177.36	177.60	177.73	177.28	177.11	176.80	176.80	176.80	176.80	
Max	176.80	176.80	178.49	178.12	178.58	178.83	177.42	177.19	176.80	176.80	176.80	176.80	178.83
Min	176.80	176.80	176.80	177.18	177.18	177.46	177.20	177.05	176.80	176.80	176.80	176.80	176.80
Annual Max Momentary Gage Height	180.00		m. (MSL.) ,				at 12.00 Hours ,						on Sep 10, 2019
Zero Gage at Bottom Elevation	176.80		m. (MSL.) ,			River Bed	177.31	m. (MSL.)					
Left Bank Elevation		184.82	m. (MSL.) ,										
Right Bank Elevation		184.50	m. (MSL.) ,		Drainage Are	86	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	8.10	0.95	13.20	2.90	0.95	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	5.70	1.10	12.45	2.60	0.90	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	12.30	1.30	9.75	2.40	0.85	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	7.95	0.90	7.50	2.20	0.85	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	8.85	1.00	6.75	2.00	0.80	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	9.00	1.90	9.15	3.20	0.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	5.20	1.40	6.15	2.60	0.75	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	2.90	1.40	4.90	2.60	0.75	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	2.50	1.40	4.60	2.30	0.70	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.90	1.50	25.10	2.00	0.70	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.50	5.90	8.25	1.90	0.65	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.20	5.80	6.45	1.80	0.65	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.05	1.20	4.20	5.40	1.80	0.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.90	1.00	4.20	4.80	2.00	0.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.90	0.95	4.00	4.80	1.90	0.60	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.90	0.90	5.30	4.80	1.80	0.60	0.00	0.00	0.00	0.00	
17	0.00	0.00	1.60	0.90	10.35	4.50	1.80	0.55	0.00	0.00	0.00	0.00	
18	0.00	0.00	3.50	0.90	10.65	3.90	1.80	0.55	0.00	0.00	0.00	0.00	
19	0.00	0.00	4.70	1.70	5.30	4.40	1.80	0.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	2.50	1.20	4.50	3.60	1.80	0.50	0.00	0.00	0.00	0.00	
21	0.00	0.00	1.40	1.00	4.60	6.00	1.60	0.48	0.00	0.00	0.00	0.00	
22	0.00	0.00	1.00	0.95	5.00	7.80	1.40	0.45	0.00	0.00	0.00	0.00	
23	0.00	0.00	1.10	0.90	7.50	10.20	1.40	0.43	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.90	0.90	6.15	9.60	1.30	0.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	2.10	0.95	9.15	5.30	1.20	0.38	0.00	0.00	0.00	0.00	
26	0.00	0.00	1.80	1.10	13.80	4.30	1.10	0.38	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.70	1.00	7.05	4.00	1.00	0.38	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.60	1.00	5.80	4.00	1.00	0.38	0.00	0.00	0.00	0.00	
29	0.00	0.00	6.60	1.10	6.60	4.00	1.20	0.38	0.00	0.00	0.00	0.00	
30	0.00	0.00	18.30	1.00	10.65	3.60	1.10	0.38	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.90	20.10	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	0.00	0.00	54.55	86.65	169.45	209.25	56.50	17.89	0.00	0.00	0.00	0.00	594.29 CMSDAY
Mean	0.00	0.00	1.82	2.80	5.47	6.98	1.82	0.60	0.00	0.00	0.00	0.00	1.62 CMS
Max	0.00	0.00	18.30	12.30	20.10	25.10	3.20	0.95	0.00	0.00	0.00	0.00	25.10 CMS
Min	0.00	0.00	0.00	0.90	0.90	3.60	1.00	0.38	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	4.71	7.49	14.64	18.08	4.88	1.55	0.00	0.00	0.00	0.00	51.35 MCM
Momentary Peak	53.50	CMS.	at 180.00 m. (MSL.)	at 12.00 Hours	, on Sep 10, 2019								
Runoff Yield	19.01	Liters/Second/Square KM.		Momentary Peak Yield	624.71	Liters/Second/Square KM.							

## WATER YEAR : 2019

## TONLE SAP BASIN

## Khlong Thung Krang at Ban Thung Krang , Chanthaburi (TI.6)

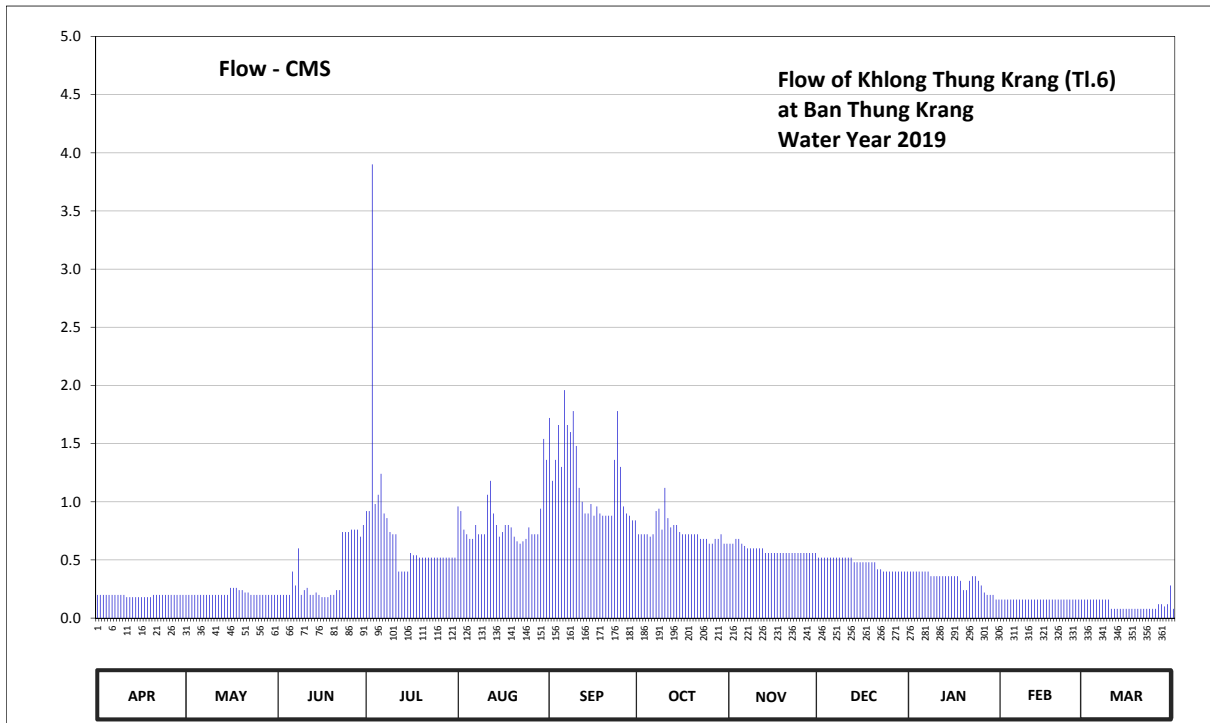
Lat 13 - 01 - 36 N Long 102 - 16 - 21 E

Location : on right bank at the bridge of Chanthaburi - Sa Kaeo Highway.

	<b>Ban</b> Thung Krang	<b>Amphoe</b> Pong Nam Ron	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	42 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+182.500 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 20 meters from the top staff gage.	<b>Elevation</b> +187.100 m. (MSL.)	
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

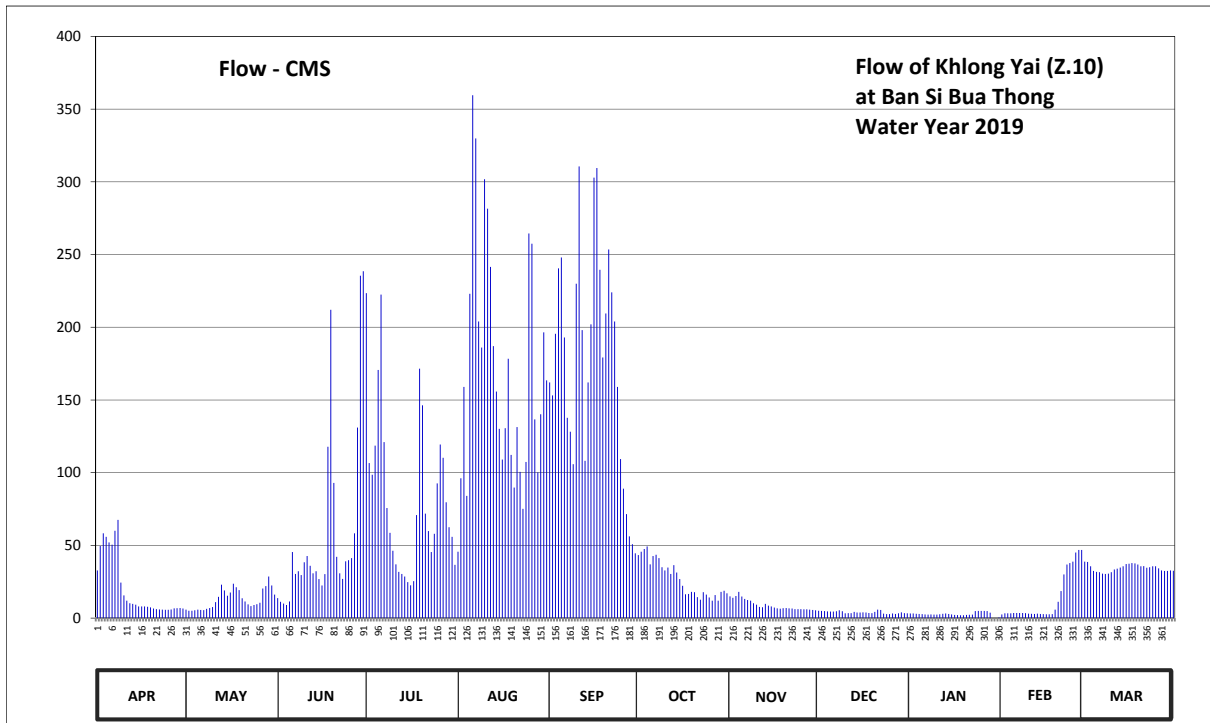
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.10	183.10	183.10	183.46	183.48	183.62	183.36	183.32	183.26	183.20	183.08	183.08	
2	183.10	183.10	183.10	183.46	183.46	183.53	183.36	183.32	183.26	183.20	183.08	183.08	
3	183.10	183.10	183.10	183.87	183.38	183.56	183.36	183.34	183.26	183.20	183.08	183.08	
4	183.10	183.10	183.10	183.49	183.36	183.61	183.36	183.34	183.26	183.20	183.08	183.08	
5	183.10	183.10	183.10	183.51	183.34	183.55	183.35	183.32	183.26	183.20	183.08	183.08	
6	183.10	183.10	183.20	183.54	183.34	183.66	183.36	183.31	183.26	183.20	183.08	183.08	
7	183.10	183.10	183.14	183.45	183.40	183.61	183.46	183.30	183.26	183.20	183.08	183.08	
8	183.10	183.10	183.30	183.43	183.36	183.60	183.47	183.30	183.26	183.18	183.08	183.08	
9	183.10	183.10	183.10	183.37	183.36	183.63	183.38	183.30	183.26	183.18	183.08	183.08	
10	183.10	183.10	183.12	183.36	183.36	183.58	183.52	183.30	183.26	183.18	183.08	183.04	
11	183.09	183.10	183.13	183.36	183.51	183.52	183.43	183.30	183.26	183.18	183.08	183.04	
12	183.09	183.10	183.10	183.20	183.53	183.50	183.39	183.30	183.26	183.18	183.08	183.04	
13	183.09	183.10	183.10	183.20	183.45	183.45	183.40	183.28	183.24	183.18	183.08	183.04	
14	183.09	183.10	183.11	183.20	183.40	183.45	183.40	183.28	183.24	183.18	183.08	183.04	
15	183.09	183.10	183.10	183.20	183.35	183.49	183.37	183.28	183.24	183.18	183.08	183.04	
16	183.09	183.13	183.09	183.28	183.37	183.44	183.36	183.28	183.24	183.18	183.08	183.04	
17	183.09	183.13	183.09	183.27	183.40	183.48	183.36	183.28	183.24	183.18	183.08	183.04	
18	183.09	183.13	183.09	183.27	183.40	183.45	183.36	183.28	183.24	183.16	183.08	183.04	
19	183.09	183.12	183.10	183.26	183.39	183.44	183.36	183.28	183.24	183.12	183.08	183.04	
20	183.10	183.12	183.10	183.26	183.35	183.44	183.36	183.28	183.24	183.12	183.08	183.04	
21	183.10	183.11	183.12	183.26	183.33	183.44	183.36	183.28	183.21	183.16	183.08	183.04	
22	183.10	183.11	183.12	183.26	183.32	183.44	183.34	183.28	183.21	183.18	183.08	183.04	
23	183.10	183.10	183.37	183.26	183.33	183.56	183.34	183.28	183.20	183.18	183.08	183.04	
24	183.10	183.10	183.37	183.26	183.34	183.63	183.34	183.28	183.20	183.16	183.08	183.04	
25	183.10	183.10	183.37	183.26	183.39	183.55	183.32	183.28	183.20	183.14	183.08	183.04	
26	183.10	183.10	183.38	183.26	183.36	183.48	183.32	183.28	183.20	183.11	183.08	183.06	
27	183.10	183.10	183.38	183.26	183.36	183.45	183.34	183.28	183.20	183.10	183.08	183.06	
28	183.10	183.10	183.38	183.26	183.36	183.44	183.34	183.28	183.20	183.10	183.08	183.05	
29	183.10	183.10	183.35	183.26	183.47	183.42	183.36	183.28	183.20	183.10	183.08	183.06	
30	183.10	183.10	183.40	183.26	183.59	183.42	183.32	183.28	183.20	183.08	183.08	183.14	
31		183.10		183.26	183.56		183.32		183.20	183.08		183.04	
Mean	183.10	183.10	183.19	183.33	183.40	183.51	183.37	183.29	183.23	183.16	183.08	183.06	
Max	183.10	183.13	183.40	183.87	183.59	183.66	183.52	183.34	183.26	183.20	183.08	183.14	183.87
Min	183.09	183.10	183.09	183.20	183.32	183.42	183.32	183.28	183.20	183.08	183.08	183.04	183.04
Annual Max Momentary Gage Height	183.87			m. (MSL.) ,				at 12.00 Hours ,					on Jul 3, 2019
Zero Gage at Bottom Elevation	182.50			m. (MSL.) ,		River Bed	182.42	m. (MSL.)					
Left Bank Elevation		186.13		m. (MSL.) ,									
Right Bank Elevation		183.92		m. (MSL.) ,		Drainage Are	42	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.20	0.20	0.92	0.96	1.72	0.72	0.64	0.52	0.40	0.16	0.16	
2	0.20	0.20	0.20	0.92	0.92	1.18	0.72	0.64	0.52	0.40	0.16	0.16	
3	0.20	0.20	0.20	3.90	0.76	1.36	0.72	0.68	0.52	0.40	0.16	0.16	
4	0.20	0.20	0.20	0.98	0.72	1.66	0.72	0.68	0.52	0.40	0.16	0.16	
5	0.20	0.20	0.20	1.06	0.68	1.30	0.70	0.64	0.52	0.40	0.16	0.16	
6	0.20	0.20	0.40	1.24	0.68	1.96	0.72	0.62	0.52	0.40	0.16	0.16	
7	0.20	0.20	0.28	0.90	0.80	1.66	0.92	0.60	0.52	0.40	0.16	0.16	
8	0.20	0.20	0.60	0.86	0.72	1.60	0.94	0.60	0.52	0.36	0.16	0.16	
9	0.20	0.20	0.20	0.74	0.72	1.78	0.76	0.60	0.52	0.36	0.16	0.16	
10	0.20	0.20	0.24	0.72	0.72	1.48	1.12	0.60	0.52	0.36	0.16	0.08	
11	0.18	0.20	0.26	0.72	1.06	1.12	0.86	0.60	0.52	0.36	0.16	0.08	
12	0.18	0.20	0.20	0.40	1.18	1.00	0.78	0.60	0.52	0.36	0.16	0.08	
13	0.18	0.20	0.20	0.40	0.90	0.90	0.80	0.56	0.48	0.36	0.16	0.08	
14	0.18	0.20	0.22	0.40	0.80	0.90	0.80	0.56	0.48	0.36	0.16	0.08	
15	0.18	0.20	0.20	0.40	0.70	0.98	0.74	0.56	0.48	0.36	0.16	0.08	
16	0.18	0.26	0.18	0.56	0.74	0.88	0.72	0.56	0.48	0.36	0.16	0.08	
17	0.18	0.26	0.18	0.54	0.80	0.96	0.72	0.56	0.48	0.36	0.16	0.08	
18	0.18	0.26	0.18	0.54	0.80	0.90	0.72	0.56	0.48	0.32	0.16	0.08	
19	0.18	0.24	0.20	0.52	0.78	0.88	0.72	0.56	0.48	0.24	0.16	0.08	
20	0.20	0.24	0.20	0.52	0.70	0.88	0.72	0.56	0.48	0.24	0.16	0.08	
21	0.20	0.22	0.24	0.52	0.66	0.88	0.72	0.56	0.42	0.32	0.16	0.08	
22	0.20	0.22	0.24	0.52	0.64	0.88	0.68	0.56	0.42	0.36	0.16	0.08	
23	0.20	0.20	0.74	0.52	0.66	1.36	0.68	0.56	0.40	0.36	0.16	0.08	
24	0.20	0.20	0.74	0.52	0.68	1.78	0.68	0.56	0.40	0.32	0.16	0.08	
25	0.20	0.20	0.74	0.52	0.78	1.30	0.64	0.56	0.40	0.28	0.16	0.08	
26	0.20	0.20	0.76	0.52	0.72	0.96	0.64	0.56	0.40	0.22	0.16	0.12	
27	0.20	0.20	0.76	0.52	0.72	0.90	0.68	0.56	0.40	0.20	0.16	0.12	
28	0.20	0.20	0.76	0.52	0.72	0.88	0.68	0.56	0.40	0.20	0.16	0.10	
29	0.20	0.20	0.70	0.52	0.94	0.84	0.72	0.56	0.40	0.20	0.16	0.12	
30	0.20	0.20	0.80	0.52	1.54	0.84	0.64	0.56	0.40	0.16		0.28	
31		0.20		0.52	1.36		0.64		0.40	0.16		0.08	
Total	5.82	6.50	11.22	22.96	25.56	35.72	23.02	17.58	14.52	9.98	4.64	3.54	181.06 CMSDAY
Mean	0.19	0.21	0.37	0.74	0.82	1.19	0.74	0.59	0.47	0.32	0.16	0.11	0.49 CMS
Max	0.20	0.26	0.80	3.90	1.54	1.96	1.12	0.68	0.52	0.40	0.16	0.28	3.90 CMS
Min	0.18	0.20	0.18	0.40	0.64	0.84	0.64	0.56	0.40	0.16	0.16	0.08	0.08 CMS
Runoff	0.50	0.56	0.97	1.98	2.21	3.09	1.99	1.52	1.25	0.86	0.40	0.31	15.64 MCM
Momentary Peak	3.90	CMS. at 183.87 m. (MSL.) at 12.00 Hours , on Jul 3, 2019											
Runoff Yield	11.89	Liters/Second/Square KM.		Momentary Peak Yield		93.46	Liters/Second/Square KM.						





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.80	5.80	13.80	223.50	45.70	162.10	43.30	15.00	5.00	3.20	2.50	38.80	
2	49.60	5.00	11.20	106.60	96.20	153.10	45.70	14.00	4.90	3.20	3.30	38.60	
3	58.30	5.00	10.00	98.60	158.95	195.50	47.50	15.20	4.80	3.00	3.30	35.60	
4	55.90	5.40	9.00	118.60	84.10	240.50	49.30	18.00	4.60	2.80	3.30	32.40	
5	52.00	5.80	11.40	170.65	223.00	248.00	37.00	14.80	4.50	2.70	3.50	31.80	
6	50.50	5.60	45.40	222.50	359.60	193.00	42.70	13.20	4.50	2.50	3.50	31.60	
7	60.10	5.50	30.40	121.00	329.90	137.80	43.60	12.40	4.70	2.40	3.50	30.60	
8	67.60	6.40	32.20	75.70	204.00	128.20	41.20	12.00	5.40	2.50	3.50	30.40	
9	24.40	6.90	29.60	58.60	186.00	105.80	35.00	10.20	4.70	2.40	3.40	30.60	
10	15.60	7.60	38.40	46.30	301.85	230.00	32.80	9.20	3.30	2.40	3.10	31.60	
11	12.00	11.00	42.70	37.00	281.50	310.65	34.80	7.70	3.40	2.60	3.00	33.40	
12	10.20	14.60	36.00	31.80	241.50	198.00	30.40	7.50	3.40	3.00	2.90	34.00	
13	9.80	23.00	30.80	30.40	187.00	108.20	36.40	9.80	4.30	3.20	3.10	34.80	
14	9.20	19.00	32.20	28.60	155.80	162.10	31.40	8.60	3.80	2.90	2.90	35.60	
15	8.00	15.40	26.80	24.80	130.20	202.00	26.80	8.00	3.80	2.50	2.70	37.20	
16	8.00	17.60	22.40	22.60	109.00	302.95	22.20	7.30	3.90	2.20	2.60	37.40	
17	8.00	23.60	30.20	25.40	130.60	309.55	16.40	6.70	3.80	2.10	2.60	37.80	
18	7.80	21.20	117.80	70.90	178.30	239.50	16.60	6.50	3.50	2.00	2.70	37.60	
19	7.40	19.20	212.00	171.55	112.20	179.20	18.00	6.80	3.40	2.00	5.80	36.80	
20	6.60	13.60	93.00	146.35	89.80	209.50	17.80	6.90	4.30	2.20	11.20	35.60	
21	6.20	11.40	42.10	71.80	131.40	253.50	14.40	6.70	5.80	2.30	18.60	35.80	
22	5.90	9.40	30.80	59.80	100.60	224.00	12.60	6.60	5.60	2.40	30.00	34.60	
23	5.80	8.20	27.00	45.40	75.10	204.00	17.80	6.20	3.10	4.80	36.80	35.00	
24	5.70	9.00	39.00	58.00	107.40	158.95	16.20	6.10	2.70	4.90	37.80	35.60	
25	5.70	9.60	39.80	92.60	264.50	109.40	14.20	6.10	2.70	4.90	38.80	35.60	
26	5.90	10.60	41.20	119.40	257.50	89.00	12.00	6.00	3.20	4.90	45.10	34.20	
27	6.70	20.40	58.30	110.20	136.60	71.50	15.80	6.00	2.90	4.80	46.90	32.80	
28	6.80	22.00	131.00	79.60	100.20	56.20	12.00	5.80	3.30	3.70	46.90	32.40	
29	6.90	28.60	235.50	62.50	140.20	50.80	18.00	5.60	4.00	0.00	40.60	32.40	
30	6.60	22.40	238.50	55.90	196.50	44.50	18.80	5.40	3.40	0.00		32.80	
31		16.20		36.60	163.45		17.00		3.30	0.40		32.60	
Total	616.00	405.00	1758.50	2623.25	5278.65	5277.50	837.70	270.30	124.00	84.90	413.90	1066.00	18755.70 CMSDAY
Mean	20.53	13.06	58.62	84.62	170.28	175.92	27.02	9.01	4.00	2.74	14.27	34.39	51.25 CMS
Max	67.60	28.60	238.50	223.50	359.60	310.65	49.30	18.00	5.80	4.90	46.90	38.80	359.60 CMS
Min	5.70	5.00	9.00	22.60	45.70	44.50	12.00	5.40	2.70	0.00	2.50	30.40	0.00 CMS
Runoff	53.22	34.99	151.93	226.65	456.08	455.98	72.38	23.35	10.71	7.34	35.76	92.10	1620.49 MCM
Momentary Peak	369.50	CMS, at 12.80 m. (MSL), at 15.00 Hours, on Aug 6, 2019											
Runoff Yield	65.99	Liters/Second/Square KM.			Momentary Peak Yield	474.55	Liters/Second/Square KM.						

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

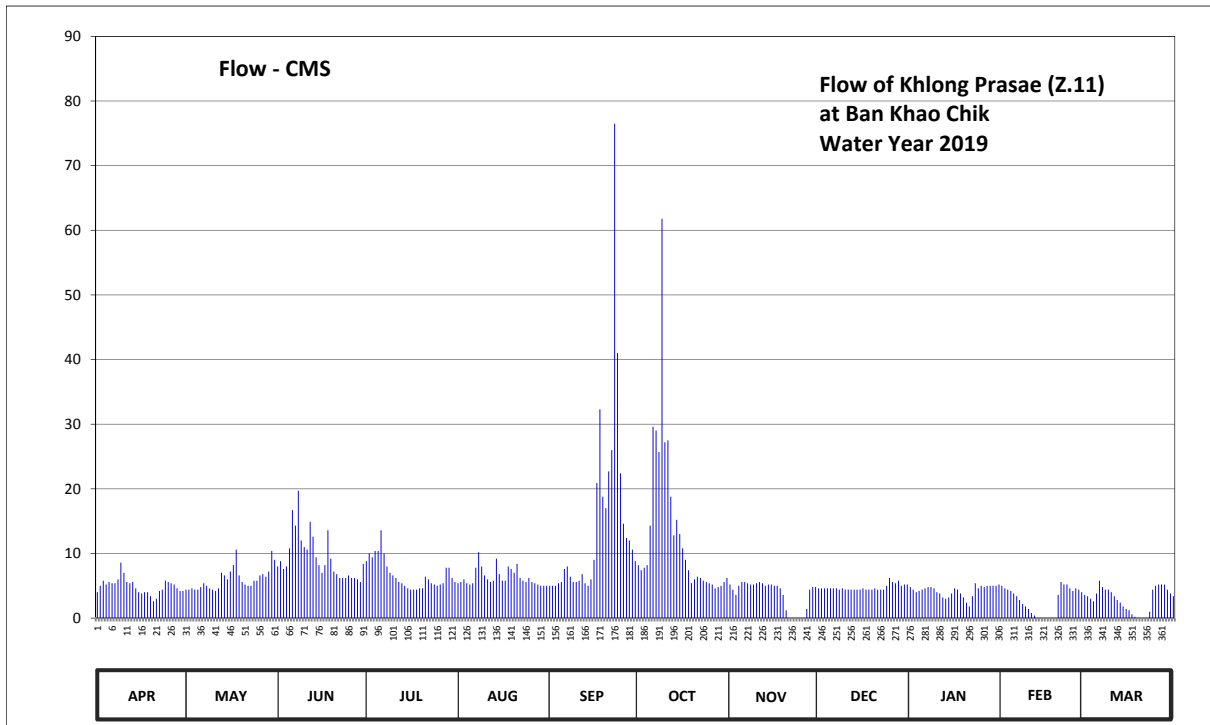
Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

	<b>Ban Khao Chik</b>	<b>Amphoe Klaeng</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	1,236 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+2.630 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the Meteorological Station.	<b>Elevation</b>	+13.420 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1965 - 1974 , 1989 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records good. Flow effectedn by the concrete weir about 7 kilometers downstream and 5 kilometers above gage site. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.60	4.62	4.80	4.84	4.67	4.65	4.81	4.66	4.63	4.64	4.65	4.58	
2	4.65	4.62	4.84	4.90	4.68	4.65	4.77	4.62	4.63	4.62	4.63	4.57	
3	4.69	4.63	4.78	4.87	4.70	4.65	4.79	4.58	4.63	4.60	4.62	4.55	
4	4.66	4.62	4.80	4.92	4.67	4.67	4.81	4.65	4.63	4.61	4.61	4.53	
5	4.68	4.62	4.94	4.92	4.66	4.68	5.11	4.68	4.63	4.62	4.59	4.59	
6	4.67	4.64	5.19	5.08	4.67	4.78	5.62	4.68	4.63	4.63	4.57	4.69	
7	4.67	4.67	5.11	4.90	4.79	4.80	5.60	4.67	4.63	4.64	4.54	4.64	
8	4.70	4.65	5.29	4.80	4.91	4.72	5.49	4.66	4.62	4.64	4.51	4.62	
9	4.83	4.63	5.00	4.75	4.80	4.68	6.47	4.66	4.63	4.63	4.49	4.62	
10	4.75	4.62	4.95	4.73	4.73	4.68	5.54	4.67	4.62	4.60	4.47	4.60	
11	4.68	4.61	4.93	4.71	4.70	4.69	5.55	4.68	4.62	4.59	4.44	4.57	
12	4.67	4.63	5.13	4.68	4.68	4.74	5.26	4.67	4.62	4.56	4.42	4.54	
13	4.68	4.75	5.03	4.67	4.69	4.67	5.04	4.65	4.62	4.55	4.40	4.52	
14	4.63	4.73	4.87	4.65	4.86	4.65	5.14	4.66	4.62	4.56	4.37	4.49	
15	4.60	4.70	4.81	4.63	4.74	4.70	5.05	4.66	4.62	4.59	4.35	4.47	
16	4.59	4.76	4.75	4.62	4.69	4.85	4.94	4.65	4.63	4.63	4.33	4.46	
17	4.60	4.81	4.81	4.62	4.69	5.33	4.85	4.65	4.62	4.62	4.30	4.43	
18	4.60	4.93	5.08	4.62	4.80	5.71	4.77	4.63	4.62	4.59	4.28	4.41	
19	4.57	4.73	4.86	4.63	4.78	5.26	4.67	4.58	4.62	4.56	4.33	4.39	
20	4.53	4.68	4.76	4.63	4.75	5.20	4.70	4.46	4.63	4.52	4.58	4.37	
21	4.55	4.66	4.74	4.72	4.82	5.39	4.72	4.37	4.62	4.49	4.68	4.35	
22	4.61	4.65	4.71	4.70	4.71	5.50	4.71	4.34	4.62	4.57	4.66	4.34	
23	4.62	4.65	4.71	4.67	4.69	6.83	4.69	4.32	4.62	4.67	4.66	4.45	
24	4.69	4.69	4.71	4.66	4.68	5.95	4.68	4.31	4.65	4.63	4.63	4.62	
25	4.68	4.69	4.73	4.65	4.71	5.38	4.67	4.33	4.71	4.65	4.61	4.65	
26	4.67	4.73	4.71	4.66	4.68	5.12	4.66	4.34	4.68	4.64	4.63	4.66	
27	4.66	4.74	4.71	4.67	4.67	5.02	4.63	4.47	4.67	4.65	4.62	4.66	
28	4.63	4.72	4.70	4.79	4.66	5.00	4.64	4.62	4.69	4.65	4.60	4.66	
29	4.61	4.76	4.68	4.79	4.65	4.93	4.65	4.64	4.65	4.65	4.59	4.62	
30	4.61	4.92	4.82	4.71	4.65	4.84	4.68	4.64	4.66	4.65	4.65	4.59	
31		4.85		4.68	4.65		4.71		4.66	4.66		4.57	
Mean	4.65	4.70	4.86	4.74	4.72	5.02	4.98	4.57	4.64	4.61	4.52	4.54	
Max	4.83	4.93	5.29	5.08	4.91	6.83	6.47	4.68	4.71	4.67	4.68	4.69	6.83
Min	4.53	4.61	4.68	4.62	4.65	4.65	4.63	4.31	4.62	4.49	4.28	4.34	4.28
Annual Max Momentary Gage Height	7.21		m. (MSL.) ,				at 12.00 Hours, on Sep 23, 2019						
Zero Gage at Bottom Elevation	2.63		m. (MSL.) ,				River Bed 3.51	m. (MSL.)					
Left Bank Elevation	9.94		m. (MSL.) ,										
Right Bank Elevation	9.85		m. (MSL.) ,				Drainage Are 1,236	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	4.40	8.00	8.80	5.40	5.00	8.20	5.20	4.60	4.80	5.00	3.60		
2	5.00	4.40	8.80	10.00	5.60	5.00	7.40	4.40	4.60	4.40	4.60	3.40		
3	5.80	4.60	7.60	9.40	6.00	5.00	7.80	3.60	4.60	4.00	4.40	3.00		
4	5.20	4.40	8.00	10.40	5.40	5.40	8.20	5.00	4.60	4.20	4.20	2.60		
5	5.60	4.40	10.80	10.40	5.20	5.60	14.30	5.60	4.60	4.40	3.80	3.80		
6	5.40	4.80	16.70	13.60	5.40	7.60	29.60	5.60	4.60	4.60	3.40	5.80		
7	5.40	5.40	14.30	10.00	7.80	8.00	29.00	5.40	4.60	4.80	2.80	4.80		
8	6.00	5.00	19.70	8.00	10.20	6.40	25.70	5.20	4.40	4.80	2.20	4.40		
9	8.60	4.60	12.00	7.00	8.00	5.60	61.80	5.20	4.60	4.60	1.80	4.40		
10	7.00	4.40	11.00	6.60	6.60	5.60	27.20	5.40	4.40	4.00	1.40	4.00		
11	5.60	4.20	10.60	6.20	6.00	5.80	27.50	5.60	4.40	3.80	0.80	3.40		
12	5.40	4.60	14.90	5.60	5.60	6.80	18.80	5.40	4.40	3.20	0.40	2.80		
13	5.60	7.00	12.60	5.40	5.80	5.40	12.80	5.00	4.40	3.00	0.00	2.40		
14	4.60	6.60	9.40	5.00	9.20	5.00	15.20	5.20	4.40	3.20	0.00	1.80		
15	4.00	6.00	8.20	4.60	6.80	6.00	13.00	5.20	4.40	3.80	0.00	1.40		
16	3.80	7.20	7.00	4.40	5.80	9.00	10.80	5.00	4.60	4.60	0.00	1.20		
17	4.00	8.20	8.20	4.40	5.80	20.90	9.00	5.00	4.40	4.40	0.00	0.60		
18	4.00	10.60	13.60	4.40	8.00	32.30	7.40	4.60	4.40	3.80	0.00	0.20		
19	3.40	6.60	9.20	4.60	7.60	18.80	5.40	3.60	4.40	3.20	0.00	0.00		
20	2.60	5.60	7.20	4.60	7.00	17.00	6.00	1.20	4.60	2.40	3.60	0.00		
21	3.00	5.20	6.80	6.40	8.40	22.70	6.40	0.00	4.40	1.80	5.60	0.00		
22	4.20	5.00	6.20	6.00	6.20	26.00	6.20	0.00	4.40	3.40	5.20	0.00		
23	4.40	5.00	6.20	5.40	5.80	76.50	5.80	0.00	4.40	5.40	5.20	1.00		
24	5.80	5.80	6.20	5.20	5.60	41.00	5.60	0.00	5.00	4.60	4.60	4.40		
25	5.60	5.80	6.60	5.00	6.20	22.40	5.40	0.00	6.20	5.00	4.20	5.00		
26	5.40	6.60	6.20	5.20	5.60	14.60	5.20	0.00	5.60	4.80	4.60	5.20		
27	5.20	6.80	6.20	5.40	5.40	12.40	4.60	1.40	5.40	5.00	4.40	5.20		
28	4.60	6.40	6.00	7.80	5.20	12.00	4.80	4.40	5.80	5.00	4.00	5.20		
29	4.20	7.20	5.60	7.80	5.00	10.60	5.00	4.80	5.00	5.00	3.80	4.40		
30	4.20	10.40	8.40	6.20	5.00	8.80	5.60	4.80	5.20	5.00		3.80		
31		9.00		5.60	5.00		6.20		5.20	5.20		3.40		
<b>Total</b>	<b>147.60</b>	<b>186.20</b>	<b>282.20</b>	<b>209.40</b>	<b>196.60</b>	<b>433.20</b>	<b>405.90</b>	<b>111.80</b>	<b>146.60</b>	<b>130.20</b>	<b>80.00</b>	<b>91.20</b>	<b>2420.90</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>4.92</b>	<b>6.01</b>	<b>9.41</b>	<b>6.75</b>	<b>6.34</b>	<b>14.44</b>	<b>13.09</b>	<b>3.73</b>	<b>4.73</b>	<b>4.20</b>	<b>2.76</b>	<b>2.94</b>	<b>6.61</b>	<b>CMS</b>
<b>Max</b>	<b>8.60</b>	<b>10.60</b>	<b>19.70</b>	<b>13.60</b>	<b>10.20</b>	<b>76.50</b>	<b>61.80</b>	<b>5.60</b>	<b>6.20</b>	<b>5.40</b>	<b>5.60</b>	<b>5.80</b>	<b>76.50</b>	<b>CMS</b>
<b>Min</b>	<b>2.60</b>	<b>4.20</b>	<b>5.60</b>	<b>4.40</b>	<b>5.00</b>	<b>5.00</b>	<b>4.60</b>	<b>0.00</b>	<b>4.40</b>	<b>1.80</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>CMS</b>
<b>Runoff</b>	<b>12.75</b>	<b>16.09</b>	<b>24.38</b>	<b>18.09</b>	<b>16.99</b>	<b>37.43</b>	<b>35.07</b>	<b>9.66</b>	<b>12.67</b>	<b>11.25</b>	<b>6.91</b>	<b>7.88</b>	<b>209.17</b>	<b>MCM</b>
<b>Momentary Peak</b>		<b>95.50</b>	<b>CMS, at 7.21 m. (MSL.), at 12.00 Hours, on Sep 23, 2019</b>											
<b>Runoff Yield</b>		<b>5.36</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>77.25</b>	<b>Liters/Second/Square KM.</b>							



## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Puk , Chanthaburi (Z.13)

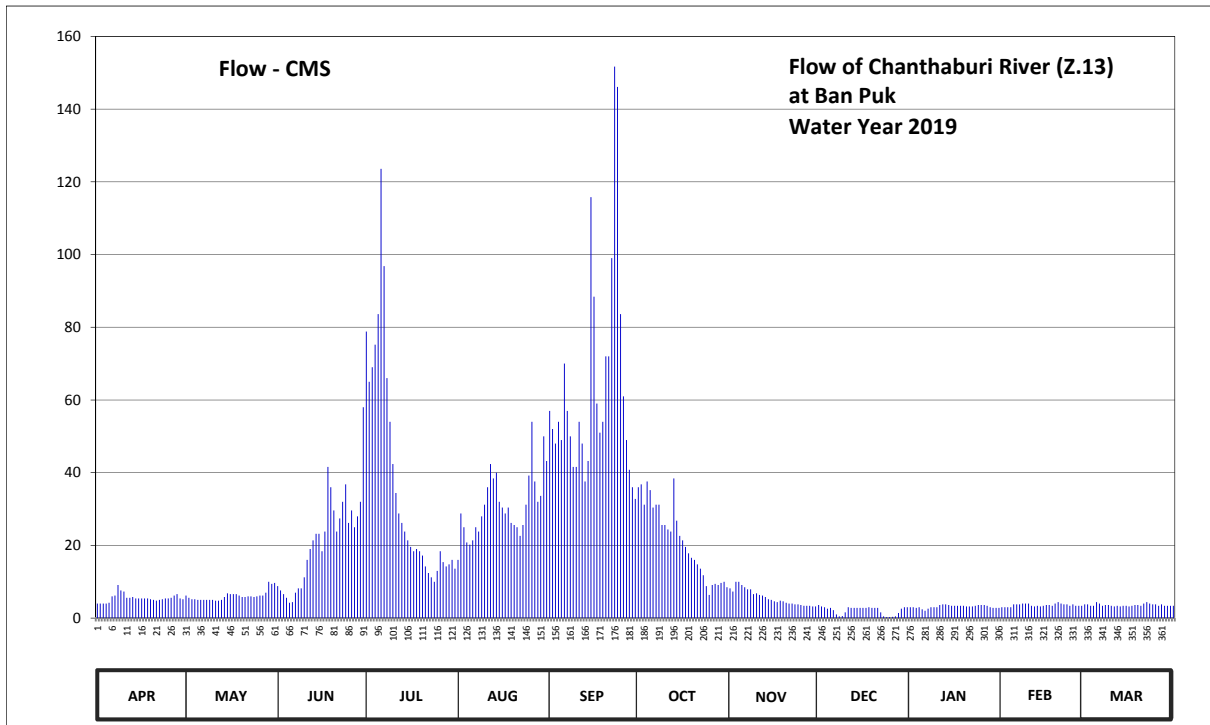
Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

	<b>Ban Puk</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	647 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.300 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +14.789 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1969 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1969 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.55	8.66	8.76	9.64	8.90	9.43	9.20	8.74	8.53	8.50	8.50	8.54	
2	8.55	8.63	8.72	9.51	9.11	9.38	9.21	8.71	8.51	8.50	8.50	8.54	
3	8.55	8.61	8.68	9.55	9.05	9.34	9.14	8.80	8.50	8.49	8.50	8.52	
4	8.55	8.61	8.63	9.61	8.98	9.40	9.22	8.80	8.48	8.50	8.50	8.52	
5	8.56	8.60	8.56	9.68	8.97	9.35	9.19	8.77	8.49	8.47	8.54	8.57	
6	8.65	8.60	8.57	10.26	8.99	9.56	9.13	8.75	8.46	8.45	8.54	8.55	
7	8.66	8.60	8.70	9.79	9.05	9.43	9.14	8.73	8.40	8.48	8.54	8.52	
8	8.77	8.60	8.74	9.52	9.03	9.36	9.14	8.73	8.30	8.50	8.55	8.53	
9	8.72	8.60	8.74	9.40	9.10	9.27	9.06	8.68	8.31	8.50	8.55	8.53	
10	8.71	8.60	8.82	9.28	9.14	9.27	9.06	8.69	8.43	8.50	8.55	8.52	
11	8.63	8.59	8.90	9.18	9.20	9.40	9.04	8.67	8.50	8.53	8.52	8.51	
12	8.63	8.59	8.95	9.11	9.28	9.34	9.03	8.66	8.49	8.54	8.51	8.52	
13	8.64	8.60	8.99	9.07	9.23	9.22	9.23	8.64	8.49	8.54	8.52	8.51	
14	8.62	8.64	9.02	9.03	9.25	9.29	9.08	8.61	8.49	8.53	8.51	8.52	
15	8.62	8.69	9.02	8.99	9.15	10.13	9.01	8.60	8.49	8.52	8.52	8.52	
16	8.62	8.68	8.94	8.96	9.13	9.72	8.99	8.58	8.49	8.52	8.53	8.51	
17	8.62	8.68	9.03	8.94	9.11	9.45	8.96	8.57	8.49	8.52	8.53	8.52	
18	8.62	8.68	9.27	8.95	9.13	9.37	8.93	8.59	8.50	8.52	8.52	8.53	
19	8.61	8.66	9.20	8.94	9.07	9.40	8.91	8.58	8.49	8.52	8.55	8.53	
20	8.60	8.64	9.12	8.92	9.06	9.58	8.90	8.56	8.49	8.51	8.57	8.52	
21	8.59	8.64	9.03	8.87	9.05	9.58	8.88	8.55	8.49	8.51	8.55	8.55	
22	8.60	8.65	9.09	8.84	9.01	9.82	8.86	8.55	8.43	8.51	8.54	8.57	
23	8.61	8.65	9.15	8.82	9.06	10.71	8.83	8.54	8.30	8.52	8.54	8.55	
24	8.62	8.64	9.21	8.80	9.14	10.63	8.76	8.54	8.25	8.53	8.52	8.54	
25	8.62	8.65	9.07	8.85	9.24	9.68	8.67	8.53	8.25	8.53	8.54	8.54	
26	8.63	8.66	9.12	8.94	9.40	9.47	8.77	8.52	8.27	8.53	8.52	8.52	
27	8.66	8.66	9.05	8.89	9.22	9.35	8.78	8.52	8.30	8.52	8.52	8.54	
28	8.68	8.70	9.10	8.87	9.15	9.26	8.77	8.52	8.42	8.50	8.52	8.52	
29	8.62	8.80	9.15	8.88	9.17	9.20	8.79	8.51	8.48	8.49	8.52	8.52	
30	8.61	8.78	9.44	8.90	9.36	9.16	8.80	8.51	8.50	8.49	8.50	8.52	
31		8.79		8.86	9.29		8.75		8.50	8.49		8.52	
Mean	8.62	8.65	8.96	9.16	9.13	9.52	8.98	8.63	8.44	8.51	8.53	8.53	
Max	8.77	8.80	9.44	10.26	9.40	10.71	9.23	8.80	8.53	8.54	8.57	8.57	10.71
Min	8.55	8.59	8.56	8.80	8.90	9.16	8.67	8.51	8.25	8.45	8.50	8.51	8.25
Annual Max Momentary Gage Height	11.11		m. (MSL.) ,			at 24.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	6.30		m. (MSL.) ,			River Bed	5.50	m. (MSL.)					
Left Bank Elevation		12.51	m. (MSL.) ,										
Right Bank Elevation		14.64	m. (MSL.) ,			Drainage Are	647	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	6.20	8.80	78.80	16.00	57.00	36.00	8.20	3.60	3.00	3.00	3.80	
2	4.00	5.60	7.60	65.00	28.80	52.00	36.80	7.30	3.20	3.00	3.00	3.80	
3	4.00	5.20	6.60	69.00	25.00	48.00	31.20	10.00	3.00	2.80	3.00	3.40	
4	4.00	5.20	5.60	75.20	20.80	54.00	37.60	10.00	2.60	3.00	3.00	3.40	
5	4.20	5.00	4.20	83.60	20.20	49.00	35.20	9.10	2.80	2.40	3.80	4.40	
6	6.00	5.00	4.40	123.60	21.40	70.00	30.40	8.50	2.20	2.00	3.80	4.00	
7	6.20	5.00	7.00	96.80	25.00	57.00	31.20	7.90	1.00	2.60	3.80	3.40	
8	9.10	5.00	8.20	66.00	23.80	50.00	31.20	7.90	0.50	3.00	4.00	3.60	
9	7.60	5.00	8.20	54.00	28.00	41.60	25.60	6.60	0.55	3.00	4.00	3.60	
10	7.30	5.00	11.20	42.40	31.20	41.60	25.60	6.80	1.60	3.00	4.00	3.40	
11	5.60	4.80	16.00	34.40	36.00	54.00	24.40	6.40	3.00	3.60	3.40	3.20	
12	5.60	4.80	19.00	28.80	42.40	48.00	23.80	6.20	2.80	3.80	3.20	3.40	
13	5.80	5.00	21.40	26.20	38.40	37.60	38.40	5.80	2.80	3.80	3.40	3.20	
14	5.40	5.80	23.20	23.80	40.00	43.20	26.80	5.20	2.80	3.60	3.20	3.40	
15	5.40	6.80	23.20	21.40	32.00	115.80	22.60	5.00	2.80	3.40	3.40	3.40	
16	5.40	6.60	18.40	19.60	30.40	88.40	21.40	4.60	2.80	3.40	3.60	3.20	
17	5.40	6.60	23.80	18.40	28.80	59.00	19.60	4.40	2.80	3.40	3.60	3.40	
18	5.40	6.60	41.60	19.00	30.40	51.00	17.80	4.80	3.00	3.40	3.40	3.60	
19	5.20	6.20	36.00	18.40	26.20	54.00	16.60	4.60	2.80	3.40	4.00	3.60	
20	5.00	5.80	29.60	17.20	25.60	72.00	16.00	4.20	2.80	3.20	4.40	3.40	
21	4.80	5.80	23.80	14.20	25.00	72.00	14.80	4.00	2.80	3.20	4.00	4.00	
22	5.00	6.00	27.40	12.40	22.60	99.00	13.60	4.00	1.60	3.20	3.80	4.40	
23	5.20	6.00	32.00	11.20	25.60	151.70	11.80	3.80	0.50	3.40	3.80	4.00	
24	5.40	5.80	36.80	10.00	31.20	146.10	8.80	3.80	0.25	3.60	3.40	3.80	
25	5.40	6.00	26.20	13.00	39.20	83.60	6.40	3.60	0.25	3.60	3.80	3.80	
26	5.60	6.20	29.60	18.40	54.00	61.00	9.10	3.40	0.35	3.60	3.40	3.40	
27	6.20	6.20	25.00	15.40	37.60	49.00	9.40	3.40	0.50	3.40	3.40	3.80	
28	6.60	7.00	28.00	14.20	32.00	40.80	9.10	3.40	1.40	3.00	3.40	3.40	
29	5.40	10.00	32.00	14.80	33.60	36.00	9.70	3.20	2.60	2.80	3.40	3.40	
30	5.20	9.40	58.00	16.00	50.00	32.80	10.00	3.20	3.00	2.80		3.40	
31		9.70		13.60	43.20		8.50		3.00	2.80		3.40	
Total	165.40	189.30	642.80	1134.80	964.40	1915.20	659.40	169.30	65.70	98.20	103.40	111.40	6219.30 CMSDAY
Mean	5.51	6.11	21.43	36.61	31.11	63.84	21.27	5.64	2.12	3.17	3.57	3.59	16.99 CMS
Max	9.10	10.00	58.00	123.60	54.00	151.70	38.40	10.00	3.60	3.80	4.40	4.40	151.70 CMS
Min	4.00	4.80	4.20	10.00	16.00	32.80	6.40	3.20	0.25	2.00	3.00	3.20	0.25 CMS
Runoff	14.29	16.36	55.54	98.05	83.32	165.47	56.97	14.63	5.68	8.48	8.93	9.62	537.35 MCM
Momentary Peak		181.90 CMS, at 11.11 m. (MSL), at 24.00 Hours, on Sep 23, 2019											
Runoff Yield		26.35 Liters/Second/Square KM.			Momentary Peak Yield	281.27 Liters/Second/Square KM.							

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

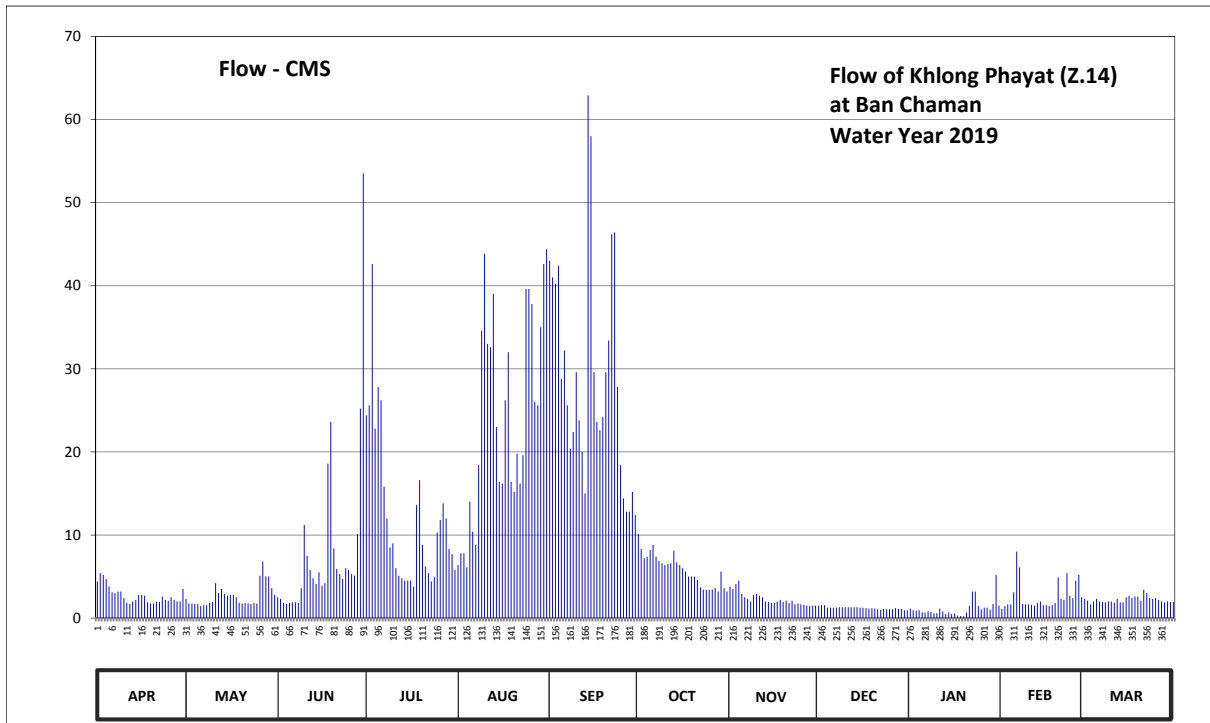
Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	<b>Ban Chaman</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	229 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+5.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 30 meters from the top staff gage.	<b>Elevation</b>	+13.690 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1968 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1986 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1986 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 10.650 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.74	6.53	6.55	8.07	6.94	9.00	7.31	6.68	6.40	6.33	6.32	6.53	
2	6.84	6.45	6.53	8.13	7.08	8.90	7.13	6.65	6.41	6.29	6.39	6.51	
3	6.82	6.45	6.47	8.98	7.08	8.86	7.02	6.71	6.41	6.28	6.43	6.43	
4	6.77	6.44	6.44	7.99	6.91	8.97	7.04	6.75	6.35	6.29	6.43	6.50	
5	6.68	6.44	6.46	8.24	7.55	8.29	7.12	6.59	6.35	6.24	6.61	6.53	
6	6.61	6.39	6.48	8.16	7.34	8.46	7.18	6.55	6.35	6.23	7.10	6.50	
7	6.60	6.41	6.48	7.64	7.18	8.13	7.04	6.53	6.35	6.26	6.91	6.49	
8	6.62	6.41	6.46	7.45	7.77	7.87	6.99	6.50	6.36	6.25	6.44	6.48	
9	6.62	6.47	6.66	7.15	8.58	7.97	6.96	6.58	6.36	6.21	6.43	6.50	
10	6.54	6.49	7.41	7.20	9.04	8.33	6.94	6.59	6.36	6.22	6.43	6.50	
11	6.47	6.72	7.05	6.90	8.50	8.04	6.95	6.57	6.36	6.33	6.42	6.47	
12	6.44	6.60	6.88	6.81	8.48	7.85	6.96	6.55	6.36	6.26	6.40	6.53	
13	6.50	6.65	6.78	6.78	8.80	7.60	7.11	6.50	6.36	6.20	6.47	6.48	
14	6.52	6.59	6.71	6.75	8.00	9.83	6.97	6.49	6.36	6.24	6.50	6.48	
15	6.58	6.57	6.85	6.75	7.67	9.64	6.94	6.47	6.35	6.19	6.41	6.55	
16	6.58	6.58	6.69	6.75	7.66	8.33	6.90	6.47	6.35	6.21	6.41	6.57	
17	6.57	6.58	6.72	6.68	8.16	8.03	6.86	6.50	6.34	6.12	6.39	6.54	
18	6.48	6.55	7.78	7.53	8.45	7.98	6.80	6.52	6.33	6.10	6.41	6.56	
19	6.45	6.47	8.03	7.68	7.67	8.06	6.80	6.49	6.34	6.09	6.46	6.56	
20	6.45	6.45	7.14	7.18	7.61	8.33	6.80	6.51	6.33	6.24	6.79	6.51	
21	6.49	6.46	6.89	6.92	7.84	8.52	6.76	6.46	6.31	6.39	6.53	6.64	
22	6.49	6.45	6.83	6.84	7.66	9.16	6.67	6.51	6.30	6.62	6.52	6.60	
23	6.56	6.44	6.77	6.74	7.83	9.17	6.64	6.43	6.32	6.62	6.84	6.54	
24	6.52	6.46	6.90	6.79	8.83	8.24	6.64	6.45	6.31	6.39	6.57	6.53	
25	6.51	6.45	6.88	7.33	8.83	7.77	6.64	6.43	6.31	6.31	6.54	6.54	
26	6.55	6.81	6.83	7.44	8.74	7.57	6.64	6.42	6.31	6.35	6.75	6.52	
27	6.52	6.98	6.81	7.54	8.15	7.49	6.66	6.40	6.34	6.35	6.82	6.50	
28	6.50	6.80	7.31	7.45	8.13	7.49	6.62	6.40	6.32	6.30	6.55	6.48	
29	6.50	6.80	8.11	7.13	8.60	7.61	6.86	6.40	6.32	6.44	6.48	6.50	
30	6.65	6.66	9.46	7.07	8.98	7.47	6.66	6.40	6.29	6.82	6.49	6.49	
31		6.58		6.88	9.07		6.62		6.29	6.40		6.49	
Mean	6.57	6.55	6.98	7.32	8.04	8.30	6.88	6.52	6.34	6.31	6.54	6.52	
Max	6.84	6.98	9.46	8.98	9.07	9.83	7.31	6.75	6.41	6.82	7.10	6.64	9.83
Min	6.44	6.39	6.44	6.68	6.91	7.47	6.62	6.40	6.29	6.09	6.32	6.43	6.09
Annual Max Momentary Gage Height	11.56		m. (MSL.) ,			at 15.00 Hours, on Jun 30, 2019							
Zero Gage at Bottom Elevation		5.40	m. (MSL.) ,			River Bed	5.57	m. (MSL.)					
Left Bank Elevation		10.64	m. (MSL.) ,										
Right Bank Elevation		10.64	m. (MSL.) ,			Drainage Are	229	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.40	2.30	2.50	24.40	6.40	43.00	10.10	3.80	1.50	1.15	1.10	2.30	
2	5.40	1.75	2.30	25.60	7.80	41.00	8.30	3.50	1.55	0.95	1.45	2.10	
3	5.20	1.75	1.85	42.60	7.80	40.20	7.20	4.10	1.55	0.90	1.65	1.65	
4	4.70	1.70	1.70	22.80	6.10	42.40	7.40	4.50	1.25	0.95	1.65	2.00	
5	3.80	1.70	1.80	27.80	14.00	28.80	8.20	2.90	1.25	0.70	3.10	2.30	
6	3.10	1.45	1.90	26.20	10.40	32.20	8.80	2.50	1.25	0.65	8.00	2.00	
7	3.00	1.55	1.90	15.80	8.80	25.60	7.40	2.30	1.25	0.80	6.10	1.95	
8	3.20	1.55	1.80	12.00	18.40	20.40	6.90	2.00	1.30	0.75	1.70	1.90	
9	3.20	1.85	3.60	8.50	34.60	22.40	6.60	2.80	1.30	0.55	1.65	2.00	
10	2.40	1.95	11.20	9.00	43.80	29.60	6.40	2.90	1.30	0.60	1.65	2.00	
11	1.85	4.20	7.50	6.00	33.00	23.80	6.50	2.70	1.30	1.15	1.60	1.85	
12	1.70	3.00	5.80	5.10	32.60	20.00	6.60	2.50	1.30	0.80	1.50	2.30	
13	2.00	3.50	4.80	4.80	39.00	15.00	8.10	2.00	1.30	0.50	1.85	1.90	
14	2.20	2.90	4.10	4.50	23.00	62.90	6.70	1.95	1.30	0.70	2.00	1.90	
15	2.80	2.70	5.50	4.50	16.40	58.00	6.40	1.85	1.25	0.48	1.55	2.50	
16	2.80	2.80	3.90	4.50	16.20	29.60	6.00	1.85	1.25	0.55	1.55	2.70	
17	2.70	2.80	4.20	3.80	26.20	23.60	5.60	2.00	1.20	0.30	1.45	2.40	
18	1.90	2.50	18.60	13.60	32.00	22.60	5.00	2.20	1.15	0.25	1.55	2.60	
19	1.75	1.85	23.60	16.60	16.40	24.20	5.00	1.95	1.20	0.23	1.80	2.60	
20	1.75	1.75	8.40	8.80	15.20	29.60	5.00	2.10	1.15	0.70	4.90	2.10	
21	1.95	1.80	5.90	6.20	19.80	33.40	4.60	1.80	1.05	1.45	2.30	3.40	
22	1.95	1.75	5.30	5.40	16.20	46.20	3.70	2.10	1.00	3.20	2.20	3.00	
23	2.60	1.70	4.70	4.40	19.60	46.40	3.40	1.65	1.10	3.20	5.40	2.40	
24	2.20	1.80	6.00	4.90	39.60	27.80	3.40	1.75	1.05	1.45	2.70	2.30	
25	2.10	1.75	5.80	10.30	39.60	18.40	3.40	1.65	1.05	1.05	2.40	2.40	
26	2.50	5.10	5.30	11.80	37.80	14.40	3.40	1.60	1.05	1.25	4.50	2.20	
27	2.20	6.80	5.10	13.80	26.00	12.80	3.60	1.50	1.20	1.25	5.20	2.00	
28	2.00	5.00	10.10	12.00	25.60	12.80	3.20	1.50	1.10	1.00	2.50	1.90	
29	2.00	5.00	25.20	8.30	35.00	15.20	5.60	1.50	1.10	1.70	1.90	2.00	
30	3.50	3.60	53.50	7.70	42.60	12.40	3.60	1.50	0.95	5.20		1.95	
31		2.80		5.80	44.40		3.20		0.95	1.50		1.95	
Total	82.85	82.65	243.85	377.50	754.30	874.70	179.30	68.95	37.50	35.91	76.90	68.55	2882.96 CMSDAY
Mean	2.76	2.67	8.13	12.18	24.33	29.16	5.78	2.30	1.21	1.16	2.65	2.21	7.88 CMS
Max	5.40	6.80	53.50	42.60	44.40	62.90	10.10	4.50	1.55	5.20	8.00	3.40	62.90 CMS
Min	1.70	1.45	1.70	3.80	6.10	12.40	3.20	1.50	0.95	0.23	1.10	1.65	0.23 CMS
Runoff	7.16	7.14	21.07	32.62	65.17	75.57	15.49	5.96	3.24	3.10	6.64	5.92	249.09 MCM
Momentary Peak	120.40	CMS, at 11.56 m. (MSL), at 15.00 Hours, on Jun 30, 2019											
Runoff Yield	34.48	Liters/Second/Square KM. Momentary Peak Yield 525.58 Liters/Second/Square KM.											

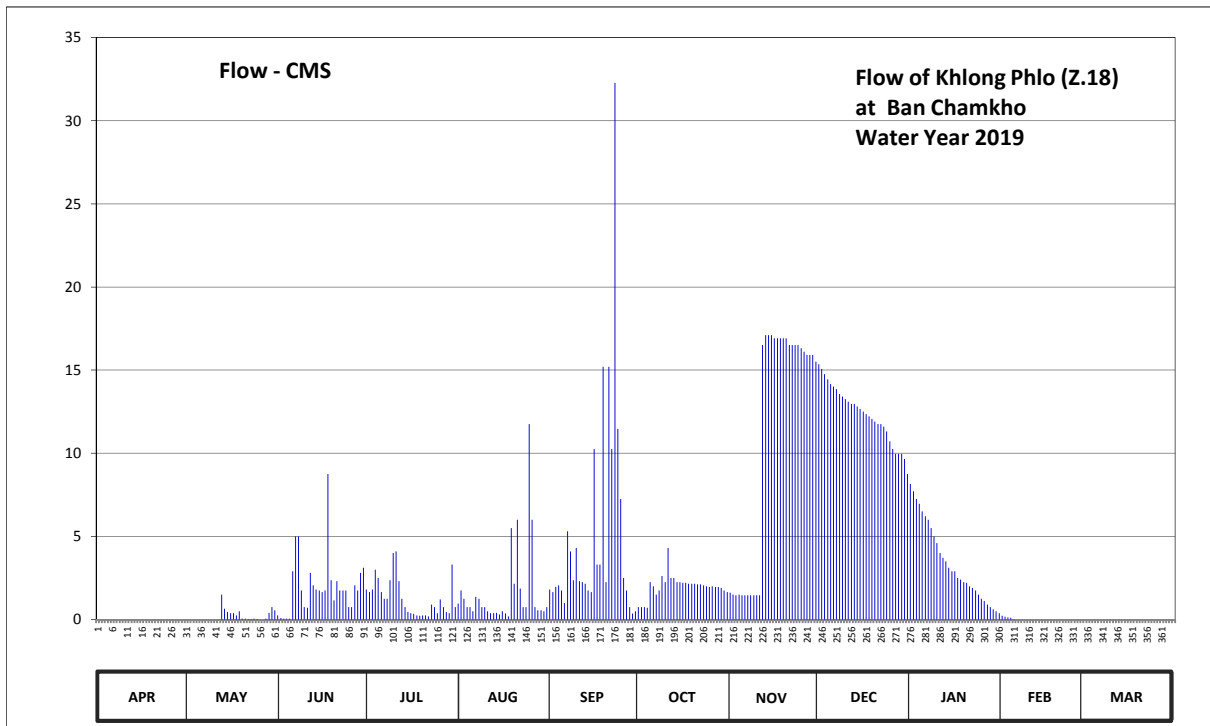
**WATER YEAR : 2019**  
**EAST COAST - GULF BASIN**  
**Khlong Phlo at Ban Chamkho , Rayong (Z.18)**  
 Lat 12 - 57 - 18 N Long 101 - 40 - 32 E

Location : on right bank at the bridge on road.

	<b>Ban Chamkho</b>	<b>Amphoe Khao Chamao</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	201 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+28.146 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.	<b>Elevation</b>	+35.314 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1982 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1983 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1983 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 8 discharge measurements made in 2019.		
<b>Ramark</b>	No record Apr. 2019, Mar. 2020		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			29.00	29.36	29.19	29.36	29.15	29.32	30.49	30.01	28.98		
2			28.86	29.33	29.35	29.33	29.15	29.30	30.47	29.98	28.93		
3			28.85	29.36	29.25	29.39	29.15	29.29	30.45	29.95	28.90		
4			28.85	29.55	29.15	29.41	29.14	29.30	30.43	29.93	28.88		
5			28.84	29.50	29.15	29.35	29.45	29.29	30.41	29.90	28.81		
6			29.54	29.33	29.10	29.20	29.40	29.29	30.40	29.87	28.75		
7			29.75	29.25	29.27	29.78	29.30	29.29	30.39	29.85	28.70		
8			29.75	29.25	29.25	29.66	29.35	29.29	30.37	29.80	28.63		
9			29.35	29.47	29.15	29.47	29.51	29.29	30.36	29.75	28.58		
10			29.15	29.65	29.15	29.68	29.45	29.29	30.35	29.71	28.53		
11			29.14	29.66	29.10	29.46	29.68	29.29	30.34	29.65	28.50		
12			29.53	29.46	29.05	29.45	29.50	30.55	30.33	29.62	28.44		
13		29.30	29.41	29.25	29.05	29.43	29.50	30.58	30.33	29.60	28.38		
14	29.13	29.36	29.15	29.06	29.35	29.45	30.58	30.32	29.56	28.33			
15	29.08	29.35	29.08	29.02	29.33	29.45	30.58	30.31	29.54	28.30			
16	29.05	29.33	29.05	29.10	30.15	29.44	30.57	30.30	29.54	28.26			
17	29.05	29.35	29.03	29.04	29.58	29.44	30.57	30.29	29.50				
18	28.99	30.05	29.00	28.95	29.58	29.43	30.57	30.28	29.48				
19	29.10	29.47	28.98	28.80	30.48	29.43	30.57	30.27	29.45				
20	28.85	29.23	29.00	29.43	29.45	29.43	30.57	30.26	29.44				
21	28.85	29.46	29.00	29.85	30.48	29.42	30.55	30.25	29.40				
22	28.83	29.35	28.95	29.37	30.15	29.42	30.55	30.25	29.38				
23	28.83	29.35	29.18	29.15	31.25	29.41	30.55	30.24	29.35				
24	28.84	29.35	29.15	29.15	30.23	29.40	30.55	30.22	29.30				
25	28.83	29.15	29.05	30.25	29.95	29.39	30.54	30.18	29.25				
26	28.80	29.15	29.24	29.85	29.50	29.40	30.53	30.15	29.22				
27	28.78	29.41	29.15	29.15	29.35	29.39	30.52	30.13	29.18				
28	28.85	29.35	29.08	29.11	29.15	29.39	30.52	30.13	29.15				
29	29.06	29.53	29.05	29.11	29.04	29.38	30.52	30.13	29.12				
30	29.15	29.56	29.58	29.10	29.10	29.35	30.50	30.11	29.10				
31	29.11		29.15	29.15		29.33		30.05	29.05				
Mean	28.97	29.33	29.24	29.25	29.64	29.39	30.09	30.29	29.54	28.62			
Max	29.30	30.05	29.66	30.25	31.25	29.68	30.58	30.49	30.01	28.98			31.25
Min	28.78	28.84	28.95	28.95	29.04	29.14	29.29	30.05	29.05	28.26			28.26
Annual Max Momentary Gage Height	31.25		m. (MSL.) ,			at 06.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	28.15		m. (MSL.) ,			River Bed 26.44		m. (MSL.)					
Left Bank Elevation	34.15		m. (MSL.) ,										
Right Bank Elevation	34.11		m. (MSL.) ,			Drainage Are 201		Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			0.25	1.80	0.95	1.80	0.75	1.60	15.35	8.15	0.23		
2			0.08	1.65	1.75	1.65	0.75	1.50	15.05	7.70	0.16		
3			0.06	1.80	1.25	1.95	0.75	1.45	14.75	7.25	0.13		
4			0.06	3.00	0.75	2.05	0.70	1.50	14.45	6.95	0.10		
5			0.05	2.50	0.75	1.75	2.25	1.45	14.15	6.50	0.01		
6			2.90	1.65	0.50	1.00	2.00	1.45	14.00	6.20	0.00		
7			5.00	1.25	1.35	5.30	1.50	1.45	13.85	6.00	0.00		
8			5.00	1.25	1.25	4.10	1.75	1.45	13.55	5.50	0.00		
9			1.75	2.35	0.75	2.35	2.60	1.45	13.40	5.00	0.00		
10			0.75	4.00	0.75	4.30	2.25	1.45	13.25	4.60	0.00		
11			0.70	4.10	0.50	2.30	4.30	1.45	13.10	4.00	0.00		
12			2.80	2.30	0.38	2.25	2.50	16.50	12.95	3.70	0.00		
13		1.50	2.05	1.25	0.38	2.15	2.50	17.10	12.95	3.50	0.00		
14		0.65	1.80	0.75	0.40	1.75	2.25	17.10	12.80	3.10	0.00		
15		0.45	1.75	0.45	0.30	1.65	2.25	17.10	12.65	2.90	0.00		
16		0.38	1.65	0.38	0.50	10.25	2.20	16.90	12.50	2.90	0.00		
17		0.38	1.75	0.33	0.35	3.30	2.20	16.90	12.35	2.50			
18		0.24	8.75	0.25	0.19	3.30	2.15	16.90	12.20	2.40			
19		0.50	2.35	0.23	5.50	15.20	2.15	16.90	12.05	2.25			
20		0.06	1.15	0.25	2.15	2.25	2.15	16.90	11.90	2.20			
21		0.06	2.30	0.25	6.00	15.20	2.10	16.50	11.75	2.00			
22		0.04	1.75	0.19	1.85	10.25	2.10	16.50	11.75	1.90			
23		0.04	1.75	0.90	0.75	32.25	2.05	16.50	11.60	1.75			
24		0.05	1.75	0.75	0.75	11.45	2.00	16.50	11.30	1.50			
25		0.04	0.75	0.38	11.75	7.25	1.95	16.30	10.70	1.25			
26		0.00	0.75	1.20	6.00	2.50	2.00	16.10	10.25	1.10			
27		0.00	2.05	0.75	0.75	1.75	1.95	15.90	9.95	0.90			
28		0.06	1.75	0.45	0.55	0.75	1.95	15.90	9.95	0.75			
29		0.40	2.80	0.38	0.55	0.35	1.90	15.90	9.95	0.60			
30		0.75	3.10	3.30	0.50	0.50	1.75	15.50	9.65	0.50			
31		0.55	0.75	0.75	0.75		1.65		8.75	0.38			
Total		6.15	59.40	40.84	50.90	152.90	61.35	330.10	382.85	105.93	0.63		1191.05 CMSDAY
Mean		0.32	1.98	1.32	1.64	5.10	1.98	11.00	12.35	3.42	0.04		4.25 CMS
Max		1.50	8.75	4.10	11.75	32.25	4.30	17.10	15.35	8.15	0.23		32.25 CMS
Min		0.00	0.05	0.19	0.19	0.35	0.70	1.45	8.75	0.38	0.00		0.00 CMS
Runoff		0.53	5.13	3.53	4.40	13.21	5.30	28.52	33.08	9.15	0.05		102.91 MCM
Momentary Peak		32.25	CMS, at 31.25 m. (MSL.), at 06.00 Hours, on Sep 23, 2019										
Runoff Yield		16.20	Liters/Second/Square KM.		Momentary Peak Yield	160.11	Liters/Second/Square KM.						

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlung Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

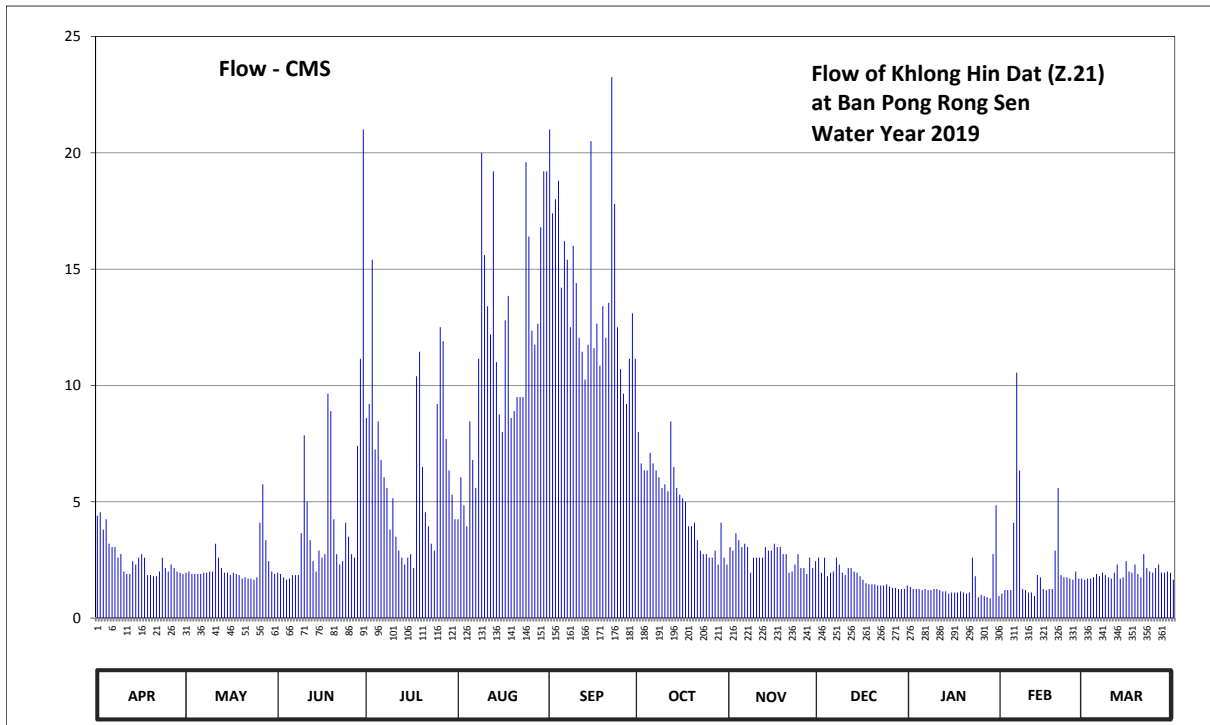
Lat 12 - 47 - 15 N Long 102 - 15 - 33 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Pong Rong Sen</b>	<b>Amphoe</b>	<b>Makham</b>	<b>Changwat</b>	<b>Chanthaburi</b>
<b>Drainage Area</b>	78	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+21.200 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 40 meters from the top staff gage.				<b>Elevation</b>	+29.932 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1983 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1984 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1984 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.16	21.99	21.99	22.44	22.15	23.14	22.40	22.07	22.04	21.87	21.81	21.93	
2	22.17	22.00	21.98	22.48	22.27	22.97	22.31	22.06	21.99	21.85	21.84	21.94	
3	22.12	21.98	21.95	22.87	22.19	23.00	22.29	22.11	22.04	21.85	21.84	21.94	
4	22.15	21.98	21.93	22.35	22.13	23.04	22.29	22.09	21.96	21.85	21.84	21.95	
5	22.08	21.98	21.94	22.43	22.43	22.81	22.34	22.07	21.99	21.84	22.14	21.98	
6	22.07	21.98	21.97	22.32	22.32	22.91	22.31	22.08	22.00	21.85	22.57	21.96	
7	22.07	21.99	21.97	22.27	22.24	22.87	22.29	22.07	22.04	21.84	22.29	21.99	
8	22.04	21.99	21.97	22.24	22.61	22.70	22.27	21.99	22.02	21.84	21.85	21.97	
9	22.05	22.00	22.11	22.12	23.10	22.90	22.24	22.04	21.99	21.85	21.84	21.95	
10	22.00	22.00	22.39	22.21	22.88	22.82	22.25	22.04	21.97	21.85	21.82	21.94	
11	21.98	22.08	22.20	22.10	22.76	22.67	22.23	22.04	22.01	21.84	21.82	21.99	
12	21.98	22.04	22.09	22.06	22.68	22.63	22.43	22.04	22.01	21.83	21.79	22.02	
13	22.03	22.01	22.03	22.04	23.06	22.55	22.30	22.07	22.00	21.83	21.97	21.94	
14	22.02	21.99	22.00	22.02	22.60	22.65	22.24	22.06	21.99	21.81	21.95	21.95	
15	22.04	21.99	22.06	22.04	22.45	23.12	22.22	22.06	21.96	21.82	21.85	22.03	
16	22.05	21.97	22.04	22.05	22.40	22.64	22.21	22.08	21.93	21.82	21.84	22.00	
17	22.04	21.99	22.05	22.01	22.72	22.71	22.20	22.07	21.90	21.82	21.85	21.99	
18	21.97	21.98	22.51	22.56	22.79	22.59	22.13	22.07	21.89	21.83	21.85	22.02	
19	21.97	21.97	22.46	22.63	22.44	22.76	22.13	22.05	21.89	21.82	22.06	21.98	
20	21.96	21.94	22.15	22.30	22.46	22.67	22.14	22.05	21.89	21.81	22.24	21.95	
21	21.96	21.95	22.05	22.17	22.50	22.77	22.09	21.99	21.88	21.82	21.97	22.05	
22	22.00	21.94	22.02	22.13	22.50	23.23	22.06	22.00	21.88	22.04	21.95	22.01	
23	22.04	21.94	22.03	22.08	22.50	22.99	22.05	22.02	21.88	21.96	21.95	22.00	
24	22.01	21.93	22.14	22.06	23.08	22.70	22.05	22.05	21.89	21.78	21.94	21.99	
25	22.00	21.95	22.10	22.48	22.92	22.58	22.04	22.01	21.87	21.80	21.93	22.01	
26	22.02	22.14	22.05	22.70	22.69	22.51	22.04	22.01	21.86	21.79	22.00	22.02	
27	22.01	22.25	22.04	22.66	22.65	22.48	22.06	21.98	21.86	21.78	21.94	21.99	
28	22.00	22.09	22.36	22.38	22.71	22.61	22.02	22.04	21.85	21.77	21.94	21.99	
29	21.99	22.03	22.61	22.29	22.94	22.74	22.14	22.01	21.85	22.05	21.96	22.00	
30	21.98	22.00	23.14	22.22	23.06	22.61	22.04	22.03	21.85	22.19	21.99	21.99	
31		21.98		22.15	23.06		22.02		21.88	21.79		21.93	
Mean	22.03	22.00	22.14	22.29	22.62	22.78	22.19	22.04	21.94	21.85	21.95	21.98	
Max	22.17	22.25	23.14	22.87	23.10	23.23	22.43	22.11	22.04	22.19	22.57	22.05	23.23
Min	21.96	21.93	21.93	22.01	22.13	22.48	22.02	21.98	21.85	21.77	21.79	21.93	21.77
Annual Max Momentary Gage Height	24.74		m. (MSL.) ,				at 12.00 Hours, on Jun 30, 2019						
Zero Gage at Bottom Elevation	21.20		m. (MSL.) ,			River Bed	20.87	m. (MSL.)					
Left Bank Elevation		28.73		m. (MSL.) ,									
Right Bank Elevation		28.64		m. (MSL.) ,		Drainage Are	78	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	1.95	1.95	8.60	4.25	21.00	8.00	3.05	2.60	1.35	1.05	1.65		
2	4.55	2.00	1.90	9.20	6.05	17.40	6.65	2.90	1.95	1.25	1.20	1.70		
3	3.80	1.90	1.75	15.40	4.85	18.00	6.35	3.65	2.60	1.25	1.20	1.70		
4	4.25	1.90	1.65	7.25	3.95	18.80	6.35	3.35	1.80	1.25	1.20	1.75		
5	3.20	1.90	1.70	8.45	8.45	14.20	7.10	3.05	1.95	1.20	4.10	1.90		
6	3.05	1.90	1.85	6.80	6.80	16.20	6.65	3.20	2.00	1.25	10.55	1.80		
7	3.05	1.95	1.85	6.05	5.60	15.40	6.35	3.05	2.60	1.20	6.35	1.95		
8	2.60	1.95	1.85	5.60	11.15	12.50	6.05	1.95	2.30	1.20	1.25	1.85		
9	2.75	2.00	3.65	3.80	20.00	16.00	5.60	2.60	1.95	1.25	1.20	1.75		
10	2.00	2.00	7.85	5.15	15.60	14.40	5.75	2.60	1.85	1.25	1.10	1.70		
11	1.90	3.20	5.00	3.50	13.40	12.05	5.45	2.60	2.15	1.20	1.10	1.95		
12	1.90	2.60	3.35	2.90	12.20	11.45	8.45	2.60	2.15	1.15	0.95	2.30		
13	2.45	2.15	2.45	2.60	19.20	10.25	6.50	3.05	2.00	1.15	1.85	1.70		
14	2.30	1.95	2.00	2.30	11.00	11.75	5.60	2.90	1.95	1.05	1.75	1.75		
15	2.60	1.95	2.90	2.60	8.75	20.50	5.30	2.90	1.80	1.10	1.25	2.45		
16	2.75	1.85	2.60	2.75	8.00	11.60	5.15	3.20	1.65	1.10	1.20	2.00		
17	2.60	1.95	2.75	2.15	12.80	12.65	5.00	3.05	1.50	1.10	1.25	1.95		
18	1.85	1.90	9.65	10.40	13.85	10.85	3.95	3.05	1.45	1.15	1.25	2.30		
19	1.85	1.85	8.90	11.45	8.60	13.40	3.95	2.75	1.45	1.10	2.90	1.90		
20	1.80	1.70	4.25	6.50	8.90	12.05	4.10	2.75	1.45	1.05	5.60	1.75		
21	1.80	1.75	2.75	4.55	9.50	13.55	3.35	1.95	1.40	1.10	1.85	2.75		
22	2.00	1.70	2.30	3.95	9.50	23.25	2.90	2.00	1.40	2.60	1.75	2.15		
23	2.60	1.70	2.45	3.20	9.50	17.80	2.75	2.30	1.40	1.80	1.75	2.00		
24	2.15	1.65	4.10	2.90	19.60	12.50	2.75	2.75	1.45	0.90	1.70	1.95		
25	2.00	1.75	3.50	9.20	16.40	10.70	2.60	2.15	1.35	1.00	1.65	2.15		
26	2.30	4.10	2.75	12.50	12.35	9.65	2.60	2.15	1.30	0.95	2.00	2.30		
27	2.15	5.75	2.60	11.90	11.75	9.20	2.90	1.90	1.30	0.90	1.70	1.95		
28	2.00	3.35	7.40	7.70	12.65	11.15	2.30	2.60	1.25	0.85	1.70	1.95		
29	1.95	2.45	11.15	6.35	16.80	13.10	4.10	2.15	1.25	2.75	1.80	2.00		
30	1.90	2.00	21.00	5.30	19.20	11.15	2.60	2.45	1.25	4.85		1.95		
31		1.90		4.25	19.20		2.30		1.40	0.95		1.65		
<b>Total</b>	<b>76.50</b>	<b>68.65</b>	<b>129.85</b>	<b>195.25</b>	<b>359.85</b>	<b>422.50</b>	<b>149.45</b>	<b>80.65</b>	<b>53.90</b>	<b>42.25</b>	<b>64.20</b>	<b>60.60</b>	<b>1703.65</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>2.55</b>	<b>2.21</b>	<b>4.33</b>	<b>6.30</b>	<b>11.61</b>	<b>14.08</b>	<b>4.82</b>	<b>2.69</b>	<b>1.74</b>	<b>1.36</b>	<b>2.21</b>	<b>1.95</b>	<b>4.65</b>	<b>CMS</b>
<b>Max</b>	<b>4.55</b>	<b>5.75</b>	<b>21.00</b>	<b>15.40</b>	<b>20.00</b>	<b>23.25</b>	<b>8.45</b>	<b>3.65</b>	<b>2.60</b>	<b>4.85</b>	<b>10.55</b>	<b>2.75</b>	<b>23.25</b>	<b>CMS</b>
<b>Min</b>	<b>1.80</b>	<b>1.65</b>	<b>1.65</b>	<b>2.15</b>	<b>3.95</b>	<b>9.20</b>	<b>2.30</b>	<b>1.90</b>	<b>1.25</b>	<b>0.85</b>	<b>0.95</b>	<b>1.65</b>	<b>0.85</b>	<b>CMS</b>
<b>Runoff</b>	<b>6.61</b>	<b>5.93</b>	<b>11.22</b>	<b>16.87</b>	<b>31.09</b>	<b>36.50</b>	<b>12.91</b>	<b>6.97</b>	<b>4.66</b>	<b>3.65</b>	<b>5.55</b>	<b>5.24</b>	<b>147.20</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>63.20</b>	<b>CMS, at 24.74 m. (MSL), at 12.00 Hours, on Jun 30, 2019</b>												
<b>Runoff Yield</b>	<b>59.97</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 812.03 Liters/Second/Square KM.</b>												



## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

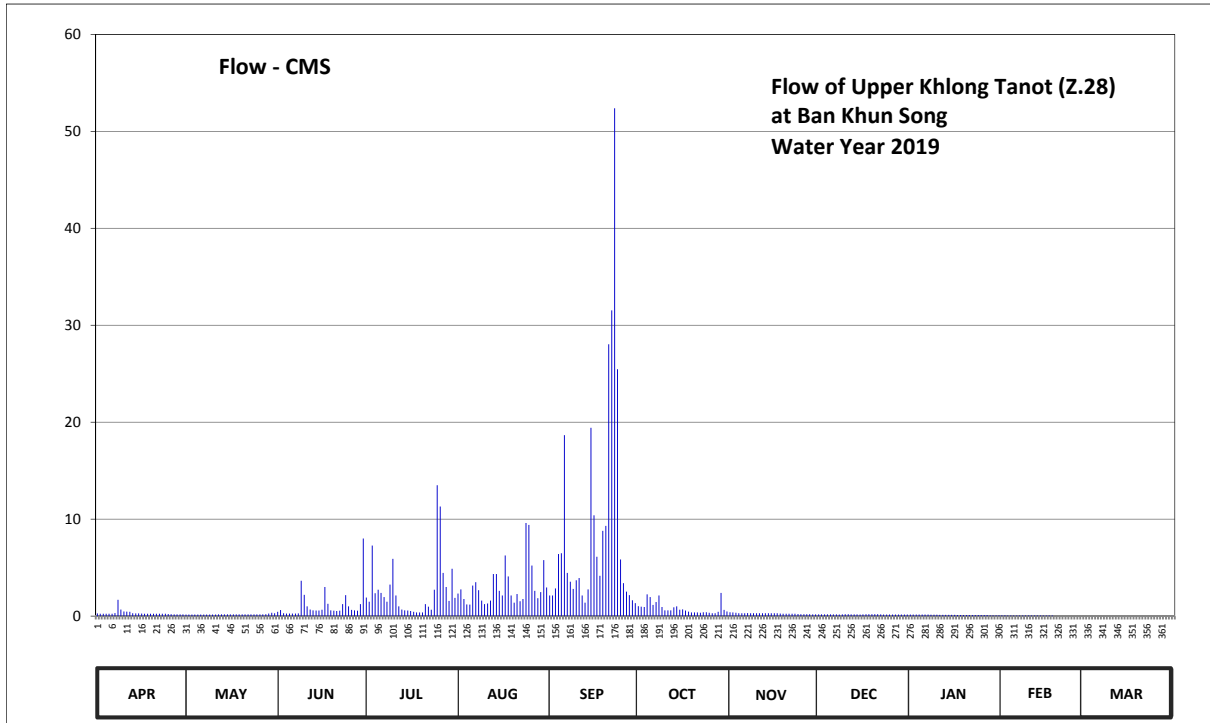
Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

Location : on right bank near Wat Khun Song.

	<b>Ban</b>	<b>Khun Song</b>	<b>Amphoe</b>	<b>Kaeng Hang Maeo</b>	<b>Changwat</b>	<b>Chanthaburi</b>
<b>Drainage Area</b>	280	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+32.600 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank about 10 meters from the top staff gage.				<b>Elevation</b>	+40.318 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1986 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1986 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1986 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2019.					
<b>Ramark</b>	No record Mar. 2020					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.28	33.17	33.37	33.88	33.98	33.93	33.61	33.35	33.18	33.16	33.08		
2	33.25	33.17	33.46	33.76	34.09	33.93	33.59	33.34	33.18	33.16	33.08		
3	33.25	33.17	33.29	34.81	33.84	34.11	33.58	33.32	33.18	33.16	33.07		
4	33.24	33.17	33.27	33.99	33.67	34.70	33.96	33.30	33.18	33.16	33.07		
5	33.24	33.17	33.27	34.08	33.66	34.71	33.89	33.30	33.18	33.16	33.07		
6	33.25	33.17	33.27	34.00	34.17	35.96	33.65	33.29	33.18	33.16	33.07		
7	33.31	33.17	33.27	33.89	34.24	34.41	33.75	33.31	33.18	33.16	33.07		
8	33.82	33.17	33.28	33.76	34.07	34.25	33.93	33.30	33.17	33.15	33.07		
9	33.49	33.17	34.27	34.19	33.80	34.10	33.58	33.30	33.18	33.15	33.07		
10	33.39	33.17	33.95	34.63	33.68	34.28	33.45	33.30	33.19	33.15	33.07		
11	33.38	33.17	33.60	33.93	33.70	34.32	33.45	33.30	33.19	33.13	33.07		
12	33.37	33.18	33.49	33.60	33.80	33.93	33.45	33.30	33.18	33.13	33.07		
13	33.30	33.18	33.45	33.49	34.39	33.73	33.57	33.30	33.18	33.13	33.07		
14	33.28	33.18	33.44	33.45	34.39	34.09	33.60	33.30	33.18	33.13	33.07		
15	33.28	33.18	33.44	33.44	34.05	36.03	33.48	33.30	33.17	33.13	33.07		
16	33.26	33.18	33.48	33.41	33.93	35.14	33.50	33.30	33.18	33.13	33.07		
17	33.25	33.18	34.14	33.37	34.68	34.66	33.44	33.29	33.19	33.12	33.07		
18	33.25	33.18	33.69	33.34	34.35	34.36	33.38	33.27	33.19	33.12	33.07		
19	33.25	33.18	33.45	33.34	33.93	34.98	33.34	33.25	33.19	33.12			
20	33.25	33.18	33.43	33.34	33.73	35.03	33.34	33.25	33.19	33.12			
21	33.24	33.18	33.41	33.68	33.97	36.71	33.34	33.24	33.19	33.12			
22	33.24	33.18	33.43	33.59	33.78	36.96	33.32	33.24	33.18	33.12			
23	33.24	33.18	33.68	33.48	33.84	38.31	33.35	33.24	33.17	33.12			
24	33.24	33.18	33.94	34.08	35.06	36.52	33.35	33.22	33.17	33.12			
25	33.22	33.18	33.60	35.45	35.04	34.62	33.32	33.20	33.17	33.12			
26	33.19	33.18	33.47	35.23	34.53	34.22	33.30	33.20	33.17	33.12			
27	33.18	33.18	33.45	34.41	34.05	34.03	33.30	33.19	33.17	33.11			
28	33.18	33.19	33.43	34.14	33.86	33.94	33.37	33.19	33.17	33.08			
29	33.18	33.27	33.68	33.79	34.02	33.81	34.00	33.18	33.17	33.08			
30	33.18	33.32	34.90	34.48	34.61	33.71	33.47	33.18	33.17	33.08			
31		33.30		33.87	34.13		33.39		33.17	33.08			
Mean	33.28	33.19	33.58	33.93	34.10	34.78	33.52	33.27	33.18	33.13	33.07		
Max	33.82	33.32	34.90	35.45	35.06	38.31	34.00	33.35	33.19	33.16	33.08		38.31
Min	33.18	33.17	33.27	33.34	33.66	33.71	33.30	33.18	33.17	33.08	33.07		33.07
Annual Max Momentary Gage Height	38.57		m. (MSL.) ,			at 23.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	32.60		m. (MSL.) ,			River Bed	33.00	m. (MSL.)					
Left Bank Elevation		38.95		m. (MSL.) ,									
Right Bank Elevation		38.95		m. (MSL.) ,		Drainage Are	280	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.17	0.44	1.92	2.32	2.12	1.03	0.40	0.18	0.16	0.08		
2	0.25	0.17	0.62	1.48	2.76	2.12	0.97	0.38	0.18	0.16	0.08		
3	0.25	0.17	0.29	7.28	1.76	2.85	0.94	0.34	0.18	0.16	0.07		
4	0.24	0.17	0.27	2.36	1.21	6.40	2.24	0.30	0.18	0.16	0.07		
5	0.24	0.17	0.27	2.72	1.18	6.48	1.96	0.30	0.18	0.16	0.07		
6	0.25	0.17	0.27	2.40	3.15	18.66	1.15	0.29	0.18	0.16	0.07		
7	0.32	0.17	0.27	1.96	3.50	4.46	1.45	0.32	0.18	0.16	0.07		
8	1.68	0.17	0.28	1.48	2.68	3.55	2.12	0.30	0.17	0.15	0.07		
9	0.68	0.17	3.65	3.25	1.60	2.80	0.94	0.30	0.18	0.15	0.07		
10	0.48	0.17	2.20	5.91	1.24	3.70	0.60	0.30	0.19	0.15	0.07		
11	0.46	0.17	1.00	2.12	1.30	3.92	0.60	0.30	0.19	0.13	0.07		
12	0.44	0.18	0.68	1.00	1.60	2.12	0.60	0.30	0.18	0.13	0.07		
13	0.30	0.18	0.60	0.68	4.34	1.39	0.91	0.30	0.18	0.13	0.07		
14	0.28	0.18	0.58	0.60	4.34	2.76	1.00	0.30	0.18	0.13	0.07		
15	0.28	0.18	0.58	0.58	2.60	19.43	0.66	0.30	0.17	0.13	0.07		
16	0.26	0.18	0.66	0.52	2.12	10.40	0.70	0.30	0.18	0.13	0.07		
17	0.25	0.18	3.00	0.44	6.26	6.12	0.58	0.29	0.19	0.12	0.07		
18	0.25	0.18	1.27	0.38	4.10	4.16	0.46	0.27	0.19	0.12	0.07		
19	0.25	0.18	0.60	0.38	2.12	8.80	0.38	0.25	0.19	0.12			
20	0.25	0.18	0.56	0.38	1.39	9.30	0.38	0.25	0.19	0.12			
21	0.24	0.18	0.52	1.24	2.28	28.04	0.38	0.24	0.19	0.12			
22	0.24	0.18	0.56	0.97	1.54	31.54	0.34	0.24	0.18	0.12			
23	0.24	0.18	1.24	0.66	1.76	52.38	0.40	0.24	0.17	0.12			
24	0.24	0.18	2.16	2.72	9.60	25.46	0.40	0.22	0.17	0.12			
25	0.22	0.18	1.00	13.50	9.40	5.84	0.34	0.20	0.17	0.12			
26	0.19	0.18	0.64	11.30	5.21	3.40	0.30	0.20	0.17	0.12			
27	0.18	0.18	0.60	4.46	2.60	2.52	0.30	0.19	0.17	0.11			
28	0.18	0.19	0.56	3.00	1.84	2.16	0.44	0.19	0.17	0.08			
29	0.18	0.27	1.24	1.57	2.48	1.64	2.40	0.18	0.17	0.08			
30	0.18	0.34	8.00	4.88	5.77	1.33	0.64	0.18	0.17	0.08			
31		0.30		1.88	2.95		0.48		0.17	0.08			
Total	9.78	5.85	34.61	84.02	97.00	275.85	26.09	8.17	5.54	3.98	1.28		552.17 CMSDAY
Mean	0.33	0.19	1.15	2.71	3.13	9.19	0.84	0.27	0.18	0.13	0.07		1.70 CMS
Max	1.68	0.34	8.00	13.50	9.60	52.38	2.40	0.40	0.19	0.16	0.08		52.38 CMS
Min	0.18	0.17	0.27	0.38	1.18	1.33	0.30	0.18	0.17	0.08	0.07		0.07 CMS
Runoff	0.84	0.51	2.99	7.26	8.38	23.83	2.25	0.71	0.48	0.34	0.11		47.71 MCM
Momentary Peak	57.06		CMS, at 38.57 m. (MSL), at 23.00 Hours, on Sep 23, 2019										
Runoff Yield	5.41		Liters/Second/Square KM.		Momentary Peak Yield	204.06							Liters/Second/Square KM.

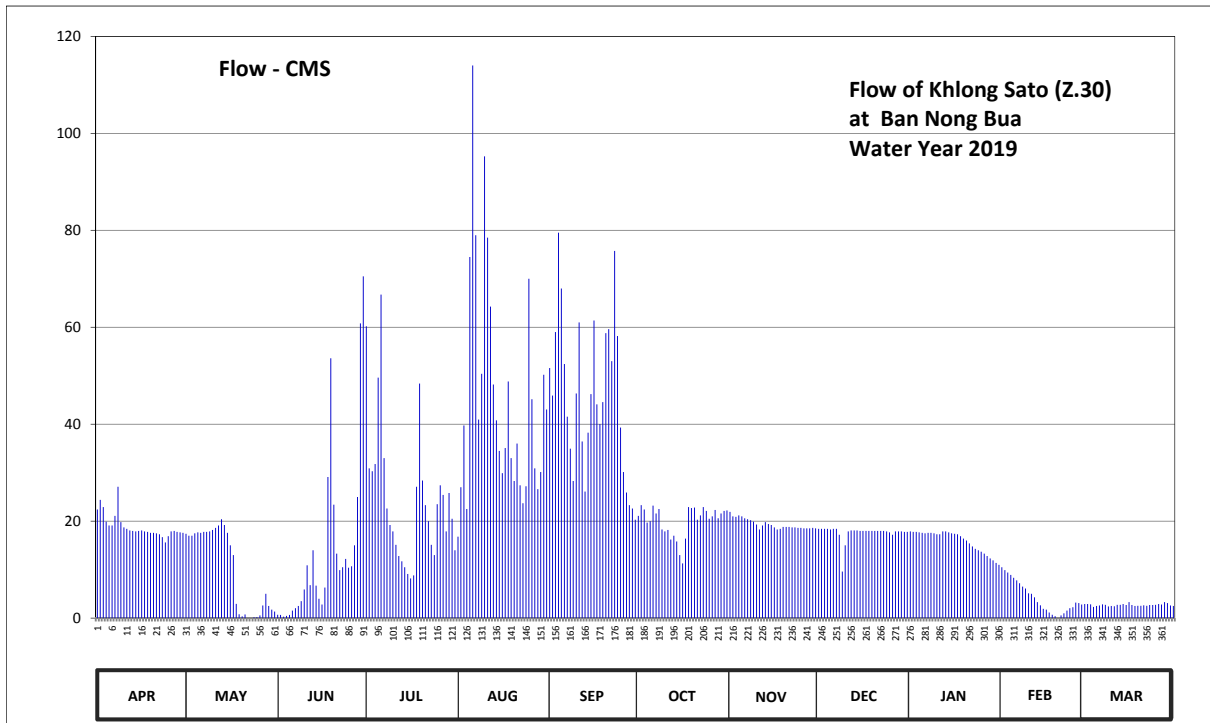
**WATER YEAR : 2019**  
**EAST COAST - GULF BASIN**  
**Khlong Sato at Ban Nong Bua , Trat (Z.30)**  
 Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

	<b>Ban Nong Bua</b>	<b>Amphoe Khao Saming</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	316 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+9.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank next tall pole for electric cable near dwelling.	<b>Elevation</b>	+20.777 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

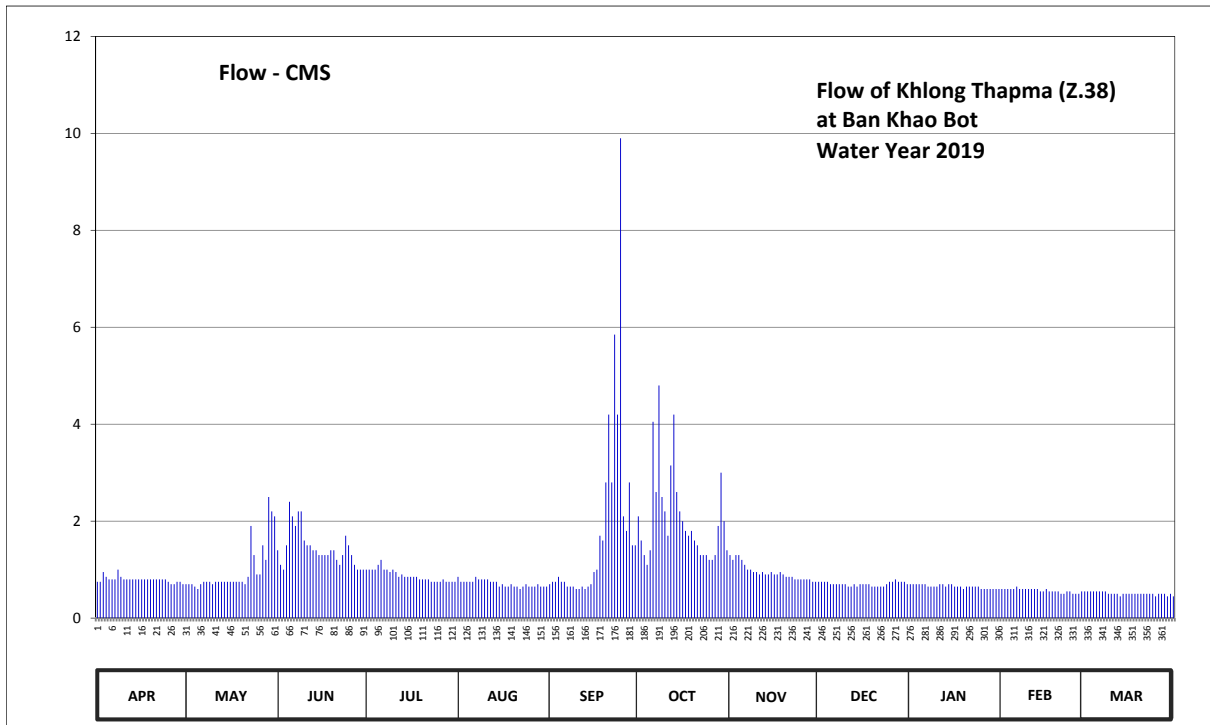
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.94	12.44	10.54	15.51	12.38	15.08	12.81	12.89	12.54	12.49	11.75	10.98	
2	13.14	12.40	10.53	13.76	13.40	14.76	13.03	12.80	12.54	12.48	11.69	10.98	
3	12.99	12.40	10.46	13.72	14.35	15.45	12.94	12.79	12.54	12.48	11.64	10.97	
4	12.69	12.45	10.49	13.82	12.95	16.32	12.67	12.82	12.54	12.47	11.59	10.86	
5	12.61	12.47	10.53	14.98	16.12	15.86	12.70	12.80	12.53	12.46	11.53	10.90	
6	12.61	12.46	10.71	15.81	17.60	15.12	13.02	12.76	12.54	12.45	11.48	10.92	
7	12.81	12.48	10.81	13.90	16.30	14.47	12.86	12.74	12.54	12.46	11.42	10.97	
8	13.41	12.48	10.90	12.96	14.43	14.03	12.95	12.72	12.42	12.46	11.35	10.95	
9	12.68	12.49	11.05	12.62	15.02	13.53	12.53	12.69	11.66	12.45	11.31	10.88	
10	12.57	12.52	11.29	12.49	16.95	14.79	12.49	12.63	12.20	12.43	11.21	10.90	
11	12.54	12.56	11.79	12.21	16.28	15.55	12.52	12.53	12.49	12.43	11.20	10.89	
12	12.51	12.61	11.38	11.98	15.71	14.13	12.32	12.61	12.51	12.49	11.13	10.95	
13	12.50	12.74	12.10	11.87	14.91	13.31	12.40	12.68	12.51	12.49	11.03	10.95	
14	12.49	12.62	11.37	11.75	14.42	14.25	12.28	12.64	12.51	12.47	10.93	10.98	
15	12.50	12.46	11.10	11.61	14.00	14.78	12.00	12.62	12.50	12.45	10.78	10.94	
16	12.51	12.20	10.96	11.52	13.69	15.57	11.83	12.57	12.50	12.44	10.75	11.03	
17	12.49	12.00	11.33	11.58	14.04	14.64	12.34	12.53	12.50	12.43	10.63	10.94	
18	12.48	10.99	13.61	13.41	14.94	14.37	12.99	12.54	12.50	12.39	10.54	10.90	
19	12.46	10.56	15.18	14.92	13.90	14.67	12.97	12.58	12.50	12.34	10.48	10.91	
20	12.46	10.47	13.04	13.54	13.53	15.44	12.98	12.58	12.50	12.30	10.38	10.91	
21	12.45	10.55	12.03	13.03	14.10	15.48	12.73	12.58	12.50	12.24	10.51	10.93	
22	12.43	10.36	11.69	12.70	13.44	15.15	12.82	12.57	12.50	12.18	10.60	10.91	
23	12.37	10.40	11.75	12.21	13.07	16.17	12.99	12.57	12.50	12.13	10.71	10.94	
24	12.26	10.43	11.92	12.00	13.42	15.41	12.91	12.56	12.49	12.10	10.81	10.94	
25	12.39	10.44	11.74	13.05	15.94	14.32	12.75	12.56	12.47	12.07	10.85	10.95	
26	12.49	10.51	11.77	13.44	14.71	13.71	12.80	12.55	12.42	12.03	11.02	10.98	
27	12.50	10.92	12.20	13.24	13.76	13.29	12.93	12.55	12.49	11.98	11.01	10.96	
28	12.48	11.20	13.20	12.49	13.36	13.03	12.76	12.55	12.49	11.93	10.96	11.03	
29	12.47	10.90	15.54	13.28	13.71	12.96	12.86	12.56	12.49	11.89	10.99	11.01	
30	12.46	10.75	15.96	12.75	15.01	12.73	12.91	12.55	12.48	11.84	10.92	10.92	
31		10.67		12.10	14.57		12.92		12.48	11.80		10.90	
Mean	12.59	11.64	11.90	13.04	14.52	14.61	12.71	12.64	12.46	12.29	11.04	10.94	
Max	13.41	12.74	15.96	15.81	17.60	16.32	13.03	12.89	12.54	12.49	11.75	11.03	17.60
Min	12.26	10.36	10.46	11.52	12.38	12.73	11.83	12.53	11.66	11.80	10.38	10.86	10.36
Annual Max Momentary Gage Height	17.87		m. (MSL.) ,				at 23.00 Hours, on Aug 5, 2019						
Zero Gage at Bottom Elevation		9.20	m. (MSL.) ,			River Bed	8.49	m. (MSL.)					
Left Bank Elevation		19.44	m. (MSL.) ,										
Right Bank Elevation		19.52	m. (MSL.) ,		Drainage Are	316	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.40	17.40	0.70	60.20	16.80	51.60	21.10	21.90	18.40	17.90	10.50	2.90	
2	24.40	17.00	0.65	30.90	27.00	45.90	23.30	21.00	18.40	17.80	9.90	2.90	
3	22.90	17.00	0.30	30.30	39.75	59.00	22.40	20.90	18.40	17.80	9.40	2.85	
4	19.90	17.50	0.45	31.80	22.50	79.50	19.70	21.20	18.40	17.70	8.90	2.30	
5	19.10	17.70	0.65	49.60	74.50	68.00	20.00	21.00	18.30	17.60	8.30	2.50	
6	19.10	17.60	1.55	66.75	114.00	52.40	23.20	20.60	18.40	17.50	7.80	2.60	
7	21.10	17.80	2.05	33.00	79.00	41.55	21.60	20.40	18.40	17.60	7.20	2.85	
8	27.10	17.80	2.50	22.60	40.95	34.95	22.50	20.20	17.20	17.60	6.50	2.75	
9	19.80	17.90	3.50	19.20	50.40	28.30	18.30	19.90	9.60	17.50	6.10	2.40	
10	18.70	18.20	5.90	17.90	95.25	46.35	17.90	19.30	15.00	17.30	5.10	2.50	
11	18.40	18.60	10.90	15.10	78.50	61.00	18.20	18.30	17.90	17.30	5.00	2.45	
12	18.10	19.10	6.80	12.80	64.25	36.45	16.20	19.10	18.10	17.90	4.30	2.75	
13	18.00	20.40	14.00	11.70	48.20	26.10	17.00	19.80	18.10	17.90	3.30	2.75	
14	17.90	19.20	6.70	10.50	40.80	38.25	15.80	19.40	18.10	17.70	2.65	2.90	
15	18.00	17.60	4.00	9.10	34.50	46.20	13.00	19.20	18.00	17.50	1.90	2.70	
16	18.10	15.00	2.80	8.20	29.90	61.40	11.30	18.70	18.00	17.40	1.75	3.30	
17	17.90	13.00	6.30	8.80	35.10	44.10	16.40	18.30	18.00	17.30	1.15	2.70	
18	17.80	2.95	29.10	27.10	48.80	40.05	22.90	18.40	18.00	16.90	0.70	2.50	
19	17.60	0.80	53.60	48.40	33.00	44.55	22.70	18.80	18.00	16.40	0.40	2.55	
20	17.60	0.35	23.40	28.40	28.30	58.80	22.80	18.80	18.00	16.00	0.00	2.55	
21	17.50	0.75	13.30	23.30	36.00	59.60	20.30	18.80	18.00	15.40	0.55	2.65	
22	17.30	0.00	9.90	20.00	27.40	53.00	21.20	18.70	18.00	14.80	1.00	2.55	
23	16.70	0.00	10.50	15.10	23.70	75.75	22.90	18.70	18.00	14.30	1.55	2.70	
24	15.60	0.15	12.20	13.00	27.20	58.20	22.10	18.60	17.90	14.00	2.05	2.70	
25	16.90	0.20	10.40	23.50	70.00	39.30	20.50	18.60	17.70	13.70	2.25	2.75	
26	17.90	0.55	10.70	27.40	45.15	30.15	21.00	18.50	17.20	13.30	3.20	2.90	
27	18.00	2.60	15.00	25.40	30.90	25.90	22.30	18.50	17.90	12.80	3.10	2.80	
28	17.80	5.00	25.00	17.90	26.60	23.30	20.60	18.50	17.90	12.30	2.80	3.30	
29	17.70	2.50	60.80	25.80	30.15	22.60	21.60	18.60	17.90	11.90	2.95	3.10	
30	17.60	1.75	70.50	20.50	50.20	20.30	22.10	18.50	17.80	11.40		2.60	
31		1.35		14.00	43.05		22.20		17.80	11.00		2.50	
<b>Total</b>	<b>566.90</b>	<b>317.75</b>	<b>414.15</b>	<b>768.25</b>	<b>1411.85</b>	<b>1372.55</b>	<b>623.10</b>	<b>581.20</b>	<b>546.80</b>	<b>493.50</b>	<b>120.30</b>	<b>84.25</b>	<b>7300.60</b> CMSDAY
<b>Mean</b>	<b>18.90</b>	<b>10.25</b>	<b>13.81</b>	<b>24.78</b>	<b>45.54</b>	<b>45.75</b>	<b>20.10</b>	<b>19.37</b>	<b>17.64</b>	<b>15.92</b>	<b>4.15</b>	<b>2.72</b>	<b>19.95</b> CMS
<b>Max</b>	<b>27.10</b>	<b>20.40</b>	<b>70.50</b>	<b>66.75</b>	<b>114.00</b>	<b>79.50</b>	<b>23.30</b>	<b>21.90</b>	<b>18.40</b>	<b>17.90</b>	<b>10.50</b>	<b>3.30</b>	<b>114.00</b> CMS
<b>Min</b>	<b>15.60</b>	<b>0.00</b>	<b>0.30</b>	<b>8.20</b>	<b>16.80</b>	<b>20.30</b>	<b>11.30</b>	<b>18.30</b>	<b>9.60</b>	<b>11.00</b>	<b>0.00</b>	<b>2.30</b>	<b>0.00</b> CMS
<b>Runoff</b>	<b>48.98</b>	<b>27.45</b>	<b>35.78</b>	<b>66.38</b>	<b>121.98</b>	<b>118.59</b>	<b>53.84</b>	<b>50.22</b>	<b>47.24</b>	<b>42.64</b>	<b>10.39</b>	<b>7.28</b>	<b>630.77</b> MCM
<b>Momentary Peak</b>	<b>122.45</b>	<b>CMS, at 17.87 m. (MSL), at 23.00 Hours, on Aug 5, 2019</b>											
<b>Runoff Yield</b>	<b>63.29</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>387.45</b>	<b>Liters/Second/Square KM.</b>							





Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.75	0.70	1.40	1.00	0.85	0.70	2.10	1.30	0.75	0.70	0.60	0.55	
2	0.75	0.70	1.10	1.00	0.75	0.75	1.60	1.20	0.75	0.70	0.60	0.55	
3	0.95	0.70	1.00	1.00	0.75	0.75	1.30	1.30	0.75	0.70	0.60	0.55	
4	0.85	0.65	1.50	1.00	0.75	0.85	1.10	1.30	0.75	0.70	0.60	0.55	
5	0.80	0.60	2.40	1.10	0.75	0.75	1.40	1.20	0.70	0.70	0.60	0.55	
6	0.80	0.70	2.10	1.20	0.75	0.75	4.05	1.10	0.70	0.70	0.65	0.55	
7	0.80	0.75	1.90	1.00	0.85	0.65	2.60	1.00	0.70	0.65	0.60	0.55	
8	1.00	0.75	2.20	1.00	0.80	0.65	4.80	1.00	0.70	0.65	0.60	0.55	
9	0.85	0.75	2.20	0.95	0.80	0.65	2.50	0.95	0.70	0.65	0.60	0.50	
10	0.80	0.70	1.60	1.00	0.80	0.60	2.20	0.95	0.70	0.65	0.60	0.50	
11	0.80	0.75	1.50	0.95	0.80	0.60	1.70	0.90	0.65	0.70	0.60	0.50	
12	0.80	0.75	1.50	0.85	0.75	0.65	3.15	0.95	0.65	0.70	0.60	0.50	
13	0.80	0.75	1.40	0.90	0.75	0.60	4.20	0.90	0.70	0.65	0.60	0.45	
14	0.80	0.75	1.40	0.85	0.75	0.65	2.60	0.90	0.65	0.70	0.55	0.50	
15	0.80	0.75	1.30	0.85	0.65	0.70	2.20	0.95	0.70	0.70	0.55	0.50	
16	0.80	0.75	1.30	0.85	0.70	0.95	2.00	0.90	0.70	0.65	0.60	0.50	
17	0.80	0.75	1.30	0.85	0.65	1.00	1.80	0.90	0.70	0.65	0.55	0.50	
18	0.80	0.75	1.30	0.85	0.65	1.70	1.70	0.95	0.70	0.65	0.55	0.50	
19	0.80	0.75	1.40	0.80	0.70	1.60	1.80	0.90	0.65	0.60	0.55	0.50	
20	0.80	0.75	1.40	0.80	0.65	2.80	1.60	0.85	0.65	0.65	0.55	0.50	
21	0.80	0.70	1.20	0.80	0.65	4.20	1.50	0.85	0.65	0.65	0.50	0.50	
22	0.80	0.85	1.10	0.80	0.60	2.80	1.30	0.85	0.65	0.65	0.50	0.50	
23	0.80	1.90	1.30	0.75	0.65	5.85	1.30	0.80	0.65	0.65	0.55	0.50	
24	0.80	1.30	1.70	0.75	0.70	4.20	1.30	0.80	0.70	0.65	0.55	0.50	
25	0.75	0.90	1.50	0.75	0.65	9.90	1.20	0.80	0.75	0.60	0.50	0.45	
26	0.70	0.90	1.30	0.75	0.65	2.10	1.20	0.80	0.75	0.60	0.50	0.50	
27	0.70	1.50	1.10	0.80	0.65	1.80	1.30	0.80	0.80	0.60	0.50	0.50	
28	0.75	1.20	1.00	0.75	0.70	2.80	1.90	0.80	0.75	0.60	0.55	0.50	
29	0.75	2.50	1.00	0.75	0.65	1.50	3.00	0.75	0.75	0.60	0.55	0.45	
30	0.70	2.20	1.00	0.75	0.65	1.50	2.00	0.75	0.75	0.60		0.50	
31		2.10		0.75	0.65		1.40		0.70	0.60		0.45	
<b>Total</b>	23.90	30.55	43.40	27.20	22.10	55.00	63.80	28.40	21.85	20.25	16.45	15.70	368.60 CMSDAY
<b>Mean</b>	0.80	0.99	1.45	0.88	0.71	1.83	2.06	0.95	0.70	0.65	0.57	0.51	1.01 CMS
<b>Max</b>	1.00	2.50	2.40	1.20	0.85	9.90	4.80	1.30	0.80	0.70	0.65	0.55	9.90 CMS
<b>Min</b>	0.70	0.60	1.00	0.75	0.60	0.60	1.10	0.75	0.65	0.60	0.50	0.45	0.45 CMS
<b>Runoff</b>	2.06	2.64	3.75	2.35	1.91	4.75	5.51	2.45	1.89	1.75	1.42	1.36	31.85 MCM
<b>Momentary Peak</b>	24.90	CMS, at 9.98 m. (MSL.), at 05.00 Hours, on Sep 25, 2019											
<b>Runoff Yield</b>	6.71	Liters/Second/Square KM.		<b>Momentary Peak Yield</b>		165.53	Liters/Second/Square KM.						

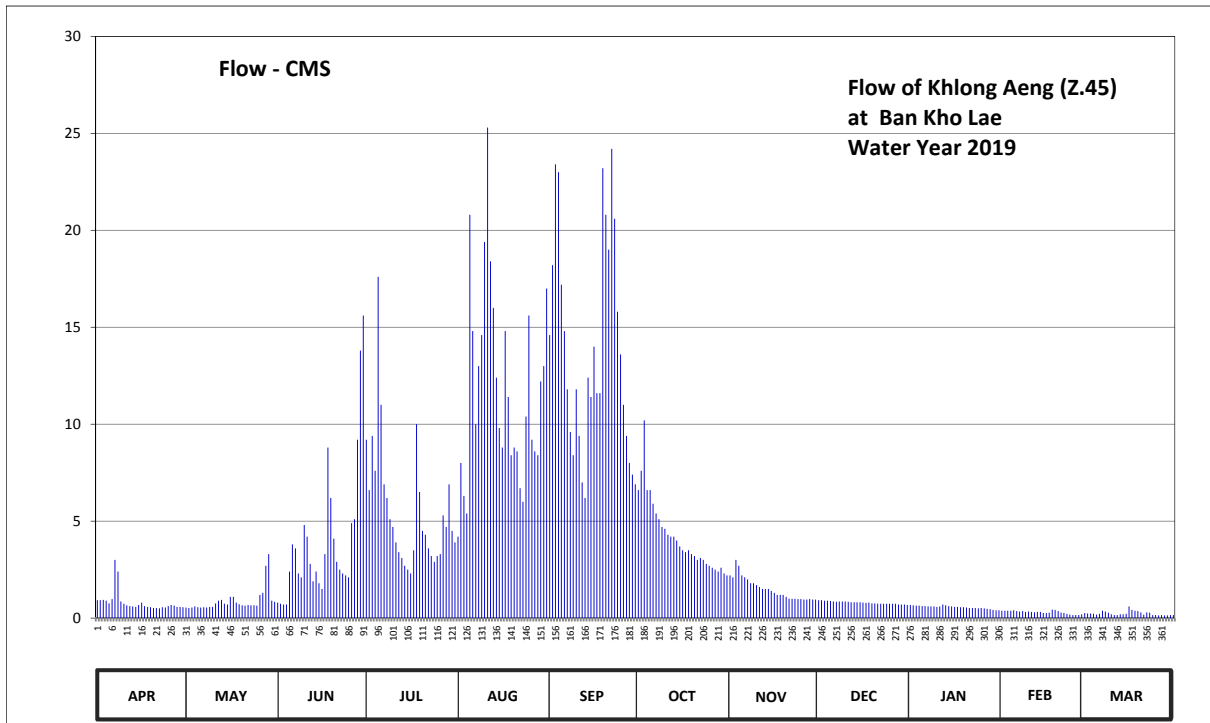
**WATER YEAR : 2019**  
**EAST COAST - GULF BASIN**  
**Khlong Aeng at Ban Kho Lae , Trat (Z.45)**  
 Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	<b>Ban Kho Lae</b>	<b>Amphoe Bo Rai</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	58	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+30.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 15 meters from the top staff gage.		<b>Elevation</b> +36.550 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1999 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1999 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.56	30.37	30.50	31.31	30.92	31.58	31.16	30.72	30.56	30.44	30.29	30.23	
2	30.56	30.36	30.47	31.16	31.25	31.76	31.23	30.71	30.56	30.43	30.29	30.22	
3	30.57	30.37	30.45	31.32	31.13	32.02	31.36	30.80	30.55	30.42	30.29	30.22	
4	30.55	30.40	30.45	31.23	31.04	32.00	31.16	30.77	30.55	30.42	30.29	30.21	
5	30.48	30.38	30.74	31.73	31.89	31.71	31.16	30.72	30.54	30.41	30.30	30.19	
6	30.59	30.37	30.88	31.40	31.59	31.59	31.09	30.71	30.53	30.41	30.28	30.21	
7	30.80	30.38	30.86	31.19	31.35	31.44	31.04	30.70	30.52	30.40	30.27	30.29	
8	30.74	30.37	30.73	31.12	31.50	31.33	31.01	30.68	30.53	30.40	30.28	30.27	
9	30.53	30.39	30.71	31.01	31.58	31.27	30.97	30.68	30.53	30.40	30.26	30.24	
10	30.47	30.39	30.98	30.97	31.82	31.44	30.96	30.67	30.53	30.39	30.27	30.20	
11	30.43	30.48	30.92	30.89	32.11	31.32	30.93	30.66	30.52	30.40	30.26	30.18	
12	30.41	30.55	30.78	30.84	31.77	31.20	30.92	30.65	30.51	30.45	30.25	30.18	
13	30.40	30.57	30.69	30.81	31.65	31.12	30.92	30.65	30.51	30.43	30.26	30.20	
14	30.39	30.47	30.74	30.77	31.47	31.47	30.90	30.65	30.51	30.41	30.26	30.20	
15	30.44	30.45	30.68	30.75	31.34	31.42	30.87	30.64	30.51	30.40	30.23	30.21	
16	30.50	30.61	30.65	30.73	31.29	31.55	30.85	30.63	30.50	30.39	30.23	30.40	
17	30.41	30.61	30.83	30.85	31.59	31.43	30.84	30.62	30.49	30.39	30.24	30.31	
18	30.39	30.50	31.29	31.35	31.42	31.43	30.85	30.62	30.50	30.38	30.32	30.29	
19	30.38	30.46	31.12	31.15	31.27	32.01	30.83	30.62	30.48	30.38	30.31	30.28	
20	30.36	30.43	30.91	30.95	31.29	31.89	30.82	30.61	30.48	30.37	30.28	30.25	
21	30.36	30.42	30.79	30.93	31.28	31.80	30.80	30.60	30.47	30.36	30.24	30.19	
22	30.35	30.44	30.75	30.86	31.17	32.06	30.81	30.60	30.47	30.36	30.23	30.25	
23	30.38	30.43	30.73	30.82	31.10	31.88	30.80	30.60	30.47	30.36	30.21	30.24	
24	30.37	30.43	30.72	30.79	31.37	31.64	30.78	30.59	30.47	30.35	30.19	30.18	
25	30.41	30.42	30.71	30.82	31.63	31.53	30.77	30.59	30.47	30.36	30.18	30.18	
26	30.44	30.62	30.99	30.83	31.31	31.40	30.76	30.58	30.47	30.35	30.18	30.17	
27	30.42	30.63	31.01	31.03	31.28	31.32	30.75	30.58	30.47	30.34	30.18	30.18	
28	30.39	30.77	31.31	30.97	31.27	31.25	30.74	30.59	30.45	30.33	30.20	30.17	
29	30.39	30.83	31.54	31.19	31.46	31.22	30.76	30.58	30.45	30.31	30.21	30.17	
30	30.38	30.55	31.63	30.95	31.50	31.19	30.73	30.58	30.45	30.30		30.18	
31		30.52		30.89	31.70		30.72		30.44	30.30		30.18	
Mean	30.46	30.48	30.85	31.02	31.43	31.54	30.91	30.65	30.50	30.38	30.25	30.22	
Max	30.80	30.83	31.63	31.73	32.11	32.06	31.36	30.80	30.56	30.45	30.32	30.40	32.11
Min	30.35	30.36	30.45	30.73	30.92	31.12	30.72	30.58	30.44	30.30	30.18	30.17	30.17
Annual Max Momentary Gage Height	34.76		m. (MSL.) ,				at 19.00 Hours, on Sep 19, 2019						
Zero Gage at Bottom Elevation	30.00		m. (MSL.) ,			River Bed	28.39	m. (MSL.)					
Left Bank Elevation		34.82		m. (MSL.) ,									
Right Bank Elevation		34.83		m. (MSL.) ,		Drainage Are	58	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.54	0.80	9.20	4.20	14.60	6.60	2.20	0.92	0.68	0.38	0.26	
2	0.92	0.52	0.74	6.60	8.00	18.20	7.60	2.10	0.92	0.66	0.38	0.24	
3	0.94	0.54	0.70	9.40	6.30	23.40	10.20	3.00	0.90	0.64	0.38	0.24	
4	0.90	0.60	0.70	7.60	5.40	23.00	6.60	2.70	0.90	0.64	0.38	0.22	
5	0.76	0.56	2.40	17.60	20.80	17.20	6.60	2.20	0.88	0.62	0.40	0.18	
6	0.98	0.54	3.80	11.00	14.80	14.80	5.90	2.10	0.86	0.62	0.36	0.22	
7	3.00	0.56	3.60	6.90	10.00	11.80	5.40	2.00	0.84	0.60	0.34	0.38	
8	2.40	0.54	2.30	6.20	13.00	9.60	5.10	1.80	0.86	0.60	0.36	0.34	
9	0.86	0.58	2.10	5.10	14.60	8.40	4.70	1.80	0.86	0.60	0.32	0.28	
10	0.74	0.58	4.80	4.70	19.40	11.80	4.60	1.70	0.86	0.58	0.34	0.20	
11	0.66	0.76	4.20	3.90	25.30	9.40	4.30	1.60	0.84	0.60	0.32	0.16	
12	0.62	0.90	2.80	3.40	18.40	7.00	4.20	1.50	0.82	0.70	0.30	0.16	
13	0.60	0.94	1.90	3.10	16.00	6.20	4.20	1.50	0.82	0.66	0.32	0.20	
14	0.58	0.74	2.40	2.70	12.40	12.40	4.00	1.50	0.82	0.62	0.32	0.20	
15	0.68	0.70	1.80	2.50	9.80	11.40	3.70	1.40	0.82	0.60	0.26	0.22	
16	0.80	1.10	1.50	2.30	8.80	14.00	3.50	1.30	0.80	0.58	0.26	0.60	
17	0.62	1.10	3.30	3.50	14.80	11.60	3.40	1.20	0.78	0.58	0.28	0.42	
18	0.58	0.80	8.80	10.00	11.40	11.60	3.50	1.20	0.80	0.56	0.44	0.38	
19	0.56	0.72	6.20	6.50	8.40	23.20	3.30	1.20	0.76	0.56	0.42	0.36	
20	0.52	0.66	4.10	4.50	8.80	20.80	3.20	1.10	0.76	0.54	0.36	0.30	
21	0.52	0.64	2.90	4.30	8.60	19.00	3.00	1.00	0.74	0.52	0.28	0.18	
22	0.50	0.68	2.50	3.60	6.70	24.20	3.10	1.00	0.74	0.52	0.26	0.30	
23	0.56	0.66	2.30	3.20	6.00	20.60	3.00	1.00	0.74	0.52	0.22	0.28	
24	0.54	0.66	2.20	2.90	10.40	15.80	2.80	0.98	0.74	0.50	0.18	0.16	
25	0.62	0.64	2.10	3.20	15.60	13.60	2.70	0.98	0.74	0.52	0.16	0.16	
26	0.68	1.20	4.90	3.30	9.20	11.00	2.60	0.96	0.74	0.50	0.16	0.14	
27	0.64	1.30	5.10	5.30	8.60	9.40	2.50	0.96	0.74	0.48	0.16	0.16	
28	0.58	2.70	9.20	4.70	8.40	8.00	2.40	0.98	0.70	0.46	0.20	0.14	
29	0.58	3.30	13.80	6.90	12.20	7.40	2.60	0.96	0.70	0.42	0.22	0.14	
30	0.56	0.90	15.60	4.50	13.00	6.90	2.30	0.96	0.70	0.40		0.16	
31		0.84		3.90	17.00		2.20		0.68	0.40		0.16	
Total	24.42	27.50	119.54	172.50	366.30	416.30	129.80	44.88	24.78	17.48	8.76	7.54	1359.80 CMSDAY
Mean	0.81	0.89	3.98	5.56	11.82	13.88	4.19	1.50	0.80	0.56	0.30	0.24	3.72 CMS
Max	3.00	3.30	15.60	17.60	25.30	24.20	10.20	3.00	0.92	0.70	0.44	0.60	25.30 CMS
Min	0.50	0.52	0.70	2.30	4.20	6.20	2.20	0.96	0.68	0.40	0.16	0.14	0.14 CMS
Runoff	2.11	2.38	10.33	14.90	31.65	35.97	11.21	3.88	2.14	1.51	0.76	0.65	117.49 MCM
Momentary Peak	176.00	CMS, at 34.76 m. (MSL), at 19.00 Hours, on Sep 19, 2019											
Runoff Yield	63.76	Liters/Second/Square KM.		Momentary Peak Yield		3012.15	Liters/Second/Square KM.						



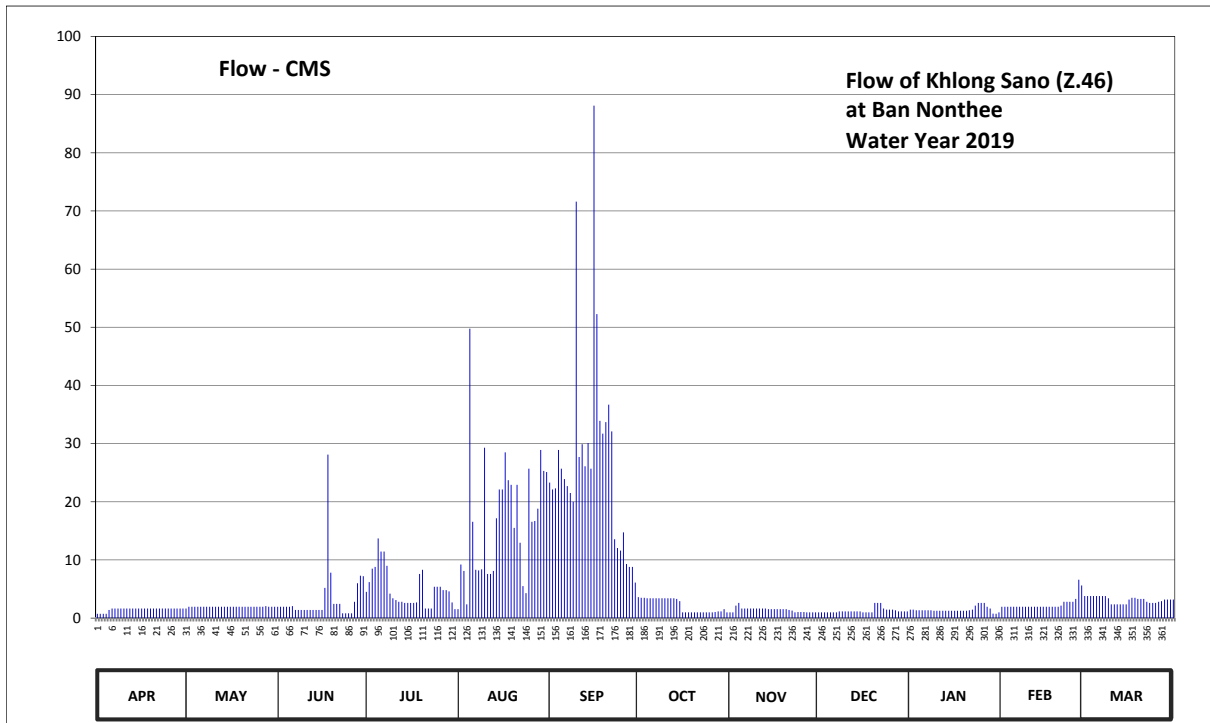
**WATER YEAR : 2019**  
**EAST COAST - GULF BASIN**  
**Khlong Sano at Ban Nonthee , Trat (Z.46)**  
 Lat 12 - 31 - 05 N Long 102 - 35 - 00 E

Location : on right bank at Ban Nonthee.

	<b>Ban Nonthee</b>	<b>Amphoe Bo Rai</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	92 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+19.130 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 50 meters from the top staff gage.		<b>Elevation</b> +27.928 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	1997 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 40 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.89	20.13	20.19	20.50	20.11	21.89	20.41	19.99	19.99	20.09	20.19	20.43	
2	19.89	20.19	20.19	20.67	20.97	21.83	20.40	19.99	19.99	20.09	20.19	20.43	
3	19.89	20.19	20.19	20.90	20.86	21.84	20.40	20.23	19.99	20.07	20.19	20.43	
4	19.89	20.19	20.19	20.93	20.27	22.17	20.39	20.31	19.99	20.07	20.19	20.43	
5	20.08	20.19	20.19	21.28	23.13	22.01	20.39	20.13	19.99	20.07	20.19	20.43	
6	20.13	20.19	20.21	21.13	21.47	21.92	20.39	20.13	19.99	20.07	20.19	20.43	
7	20.13	20.19	20.08	21.13	20.88	21.86	20.39	20.13	20.00	20.07	20.19	20.43	
8	20.13	20.19	20.08	20.95	20.87	21.80	20.39	20.13	20.03	20.07	20.19	20.43	
9	20.13	20.19	20.08	20.47	20.89	21.70	20.39	20.13	20.03	20.05	20.19	20.39	
10	20.13	20.19	20.08	20.39	22.19	23.97	20.39	20.13	20.03	20.05	20.19	20.27	
11	20.13	20.19	20.08	20.36	20.81	22.11	20.39	20.13	20.03	20.05	20.19	20.27	
12	20.13	20.19	20.08	20.33	20.81	22.22	20.39	20.13	20.03	20.05	20.19	20.27	
13	20.13	20.19	20.08	20.33	20.86	22.03	20.39	20.13	20.03	20.05	20.19	20.27	
14	20.13	20.19	20.08	20.31	21.51	22.23	20.38	20.11	20.03	20.05	20.19	20.27	
15	20.13	20.19	20.08	20.31	21.83	22.01	20.34	20.11	20.03	20.05	20.19	20.27	
16	20.13	20.19	20.08	20.31	21.83	24.52	19.99	20.11	19.99	20.05	20.19	20.37	
17	20.13	20.19	20.57	20.31	22.15	23.23	19.99	20.11	19.99	20.05	20.19	20.40	
18	20.13	20.19	22.13	20.32	21.91	22.42	19.99	20.11	19.99	20.05	20.19	20.40	
19	20.13	20.19	20.83	20.81	21.87	22.31	19.99	20.11	19.99	20.05	20.19	20.38	
20	20.13	20.19	20.29	20.88	21.40	22.41	19.99	20.11	20.31	20.05	20.19	20.38	
21	20.13	20.19	20.29	20.13	21.87	22.56	19.99	20.08	20.31	20.07	20.23	20.38	
22	20.13	20.19	20.29	20.13	21.23	22.33	19.99	20.06	20.31	20.09	20.33	20.33	
23	20.13	20.19	19.93	20.13	20.60	21.27	19.99	20.00	20.13	20.23	20.33	20.31	
24	20.13	20.19	19.93	20.59	20.48	21.17	19.99	20.01	20.09	20.31	20.33	20.31	
25	20.13	20.19	19.93	20.59	22.01	21.14	19.99	20.01	20.09	20.31	20.33	20.31	
26	20.13	20.19	19.93	20.59	21.47	21.35	19.99	20.01	20.09	20.31	20.38	20.33	
27	20.13	20.19	20.33	20.53	21.48	20.98	20.01	19.99	20.07	20.19	20.71	20.34	
28	20.13	20.21	20.65	20.53	21.62	20.93	20.03	19.99	20.03	20.13	20.61	20.37	
29	20.13	20.19	20.78	20.51	22.17	20.93	20.03	19.99	20.03	19.91	20.43	20.37	
30	20.13	20.19	20.77	20.32	21.99	20.66	20.11	19.99	20.03	19.89	20.19	20.37	
31		20.19		20.11	21.98		19.99		20.03	20.00		20.37	
Mean	20.10	20.19	20.29	20.54	21.40	21.99	20.19	20.09	20.05	20.09	20.26	20.36	
Max	20.13	20.21	22.13	21.28	23.13	24.52	20.41	20.31	20.31	20.31	20.71	20.43	24.52
Min	19.89	20.13	19.93	20.11	20.11	20.66	19.99	19.99	19.99	19.89	20.19	20.27	19.89
Annual Max Momentary Gage Height	25.00												
Zero Gage at Bottom Elevation	19.13						19.06						
Left Bank Elevation		28.02											
Right Bank Elevation		26.92											
Drainage Area						92							



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	1.65	1.95	4.50	1.55	23.30	3.60	0.98	0.98	1.45	1.95	3.80	
2	0.73	1.95	1.95	6.20	9.20	22.10	3.50	0.98	0.98	1.45	1.95	3.80	
3	0.73	1.95	1.95	8.50	8.10	22.30	3.50	2.15	0.98	1.35	1.95	3.80	
4	0.73	1.95	1.95	8.80	2.35	28.90	3.40	2.60	0.98	1.35	1.95	3.80	
5	1.40	1.95	1.95	13.70	49.75	25.70	3.40	1.65	0.98	1.35	1.95	3.80	
6	1.65	1.95	2.05	11.45	16.55	23.90	3.40	1.65	0.98	1.35	1.95	3.80	
7	1.65	1.95	1.40	11.45	8.30	22.70	3.40	1.65	1.00	1.35	1.95	3.80	
8	1.65	1.95	1.40	9.00	8.20	21.50	3.40	1.65	1.15	1.35	1.95	3.80	
9	1.65	1.95	1.40	4.20	8.40	20.00	3.40	1.65	1.15	1.25	1.95	3.40	
10	1.65	1.95	1.40	3.40	29.30	71.60	3.40	1.65	1.15	1.25	1.95	2.35	
11	1.65	1.95	1.40	3.10	7.60	27.70	3.40	1.65	1.15	1.25	1.95	2.35	
12	1.65	1.95	1.40	2.80	7.60	29.90	3.40	1.65	1.15	1.25	1.95	2.35	
13	1.65	1.95	1.40	2.80	8.10	26.10	3.40	1.65	1.15	1.25	1.95	2.35	
14	1.65	1.95	1.40	2.60	17.15	30.10	3.30	1.55	1.15	1.25	1.95	2.35	
15	1.65	1.95	1.40	2.60	22.10	25.70	2.90	1.55	1.15	1.25	1.95	2.35	
16	1.65	1.95	1.40	2.60	22.10	88.10	0.98	1.55	0.98	1.25	1.95	3.20	
17	1.65	1.95	5.20	2.60	28.50	52.25	0.98	1.55	0.98	1.25	1.95	3.50	
18	1.65	1.95	28.10	2.70	23.70	33.90	0.98	1.55	0.98	1.25	1.95	3.50	
19	1.65	1.95	7.80	7.60	22.90	31.70	0.98	1.55	0.98	1.25	1.95	3.30	
20	1.65	1.95	2.45	8.30	15.50	33.70	0.98	1.55	2.60	1.25	1.95	3.30	
21	1.65	1.95	2.45	1.65	22.90	36.70	0.98	1.40	2.60	1.35	2.15	3.30	
22	1.65	1.95	2.45	1.65	12.95	32.10	0.98	1.30	2.60	1.45	2.80	2.80	
23	1.65	1.95	0.83	1.65	5.50	13.55	0.98	1.00	1.65	2.15	2.80	2.60	
24	1.65	1.95	0.83	5.40	4.30	12.05	0.98	1.05	1.45	2.60	2.80	2.60	
25	1.65	1.95	0.83	5.40	25.70	11.60	0.98	1.05	1.45	2.60	2.80	2.60	
26	1.65	1.95	0.83	5.40	16.55	14.75	0.98	1.05	1.45	2.60	3.30	2.80	
27	1.65	1.95	2.80	4.80	16.70	9.30	1.05	0.98	1.35	1.95	6.60	2.90	
28	1.65	2.05	6.00	4.80	18.80	8.80	1.15	0.98	1.15	1.65	5.60	3.20	
29	1.65	1.95	7.30	4.60	28.90	8.80	1.15	0.98	1.15	0.78	3.80	3.20	
30	1.65	1.95	7.20	2.70	25.30	6.10	1.55	0.98	1.15	0.73		3.20	
31		1.95		1.55	25.10		0.98		1.15	1.00		3.20	
Total	45.57	60.25	100.87	158.50	519.65	814.90	67.46	43.18	39.75	44.86	71.65	97.10	2063.74
Mean	1.52	1.94	3.36	5.11	16.76	27.16	2.18	1.44	1.28	1.45	2.47	3.13	5.64
Max	1.65	2.05	28.10	13.70	49.75	88.10	3.60	2.60	2.60	2.60	6.60	3.80	88.10
Min	0.73	1.65	0.83	1.55	1.55	6.10	0.98	0.98	0.98	0.73	1.95	2.35	0.73
Runoff	3.94	5.21	8.72	13.69	44.90	70.41	5.83	3.73	3.43	3.88	6.19	8.39	178.31
Momentary Peak	103.50	CMS, at 25.00 m. (MSL), at 06.00 Hours, on Sep 16, 2019											
Runoff Yield	61.25	Liters/Second/Square KM. Momentary Peak Yield 1121.22 Liters/Second/Square KM.											

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47A)

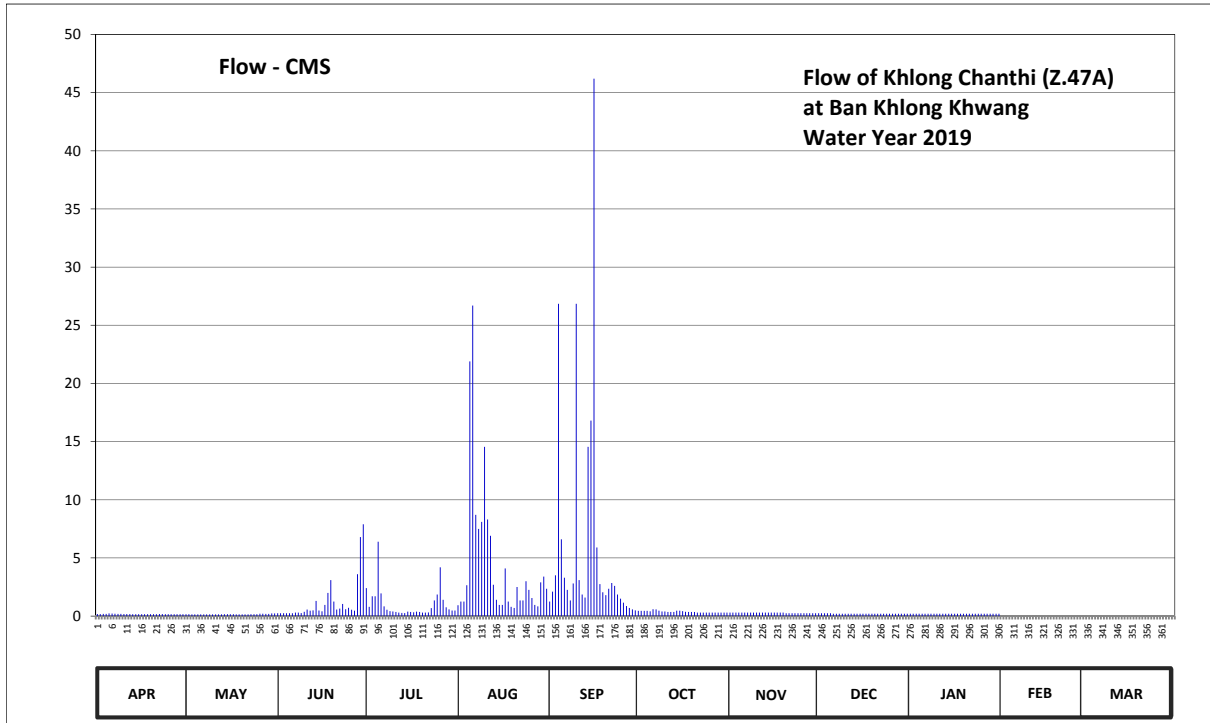
Lat 12 - 20 - 00 N Long 102 - 38 - 37 E

Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

	Ban Khlong Khwang	Amphoe Mueang	Changwat Trat
<b>Drainage Area</b>	27 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+18.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.	<b>Elevation</b>	+23.608 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2019.		
<b>Ramark</b>	No record Feb., Mar. 2020		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.38	18.36	18.45	19.28	18.97	19.05	18.65	18.50	18.45	18.40			
2	18.38	18.36	18.45	18.90	19.05	19.22	18.65	18.50	18.45	18.40			
3	18.39	18.35	18.45	19.14	19.05	19.45	18.65	18.50	18.45	18.40			
4	18.39	18.35	18.45	19.14	19.33	21.19	18.65	18.50	18.45	18.40			
5	18.43	18.35	18.45	19.74	20.86	19.76	18.61	18.50	18.45	18.40			
6	18.42	18.35	18.45	19.19	21.18	19.43	18.79	18.50	18.40	18.40			
7	18.40	18.35	18.50	18.92	19.97	19.25	18.77	18.50	18.40	18.40			
8	18.39	18.35	18.50	18.75	19.85	19.07	18.67	18.50	18.40	18.40			
9	18.39	18.35	18.46	18.63	19.91	19.36	18.60	18.50	18.40	18.40			
10	18.38	18.35	18.57	18.60	20.37	21.19	18.60	18.50	18.40	18.40			
11	18.38	18.35	18.76	18.55	19.93	19.41	18.55	18.50	18.40	18.40			
12	18.38	18.35	18.67	18.50	19.79	19.17	18.55	18.50	18.40	18.40			
13	18.37	18.35	18.69	18.48	19.34	19.12	18.56	18.50	18.40	18.40			
14	18.37	18.37	19.06	18.46	19.08	20.37	18.67	18.50	18.40	18.40			
15	18.37	18.37	18.68	18.59	18.98	20.52	18.67	18.50	18.40	18.40			
16	18.36	18.36	18.61	18.55	18.98	22.16	18.62	18.50	18.40	18.40			
17	18.36	18.36	18.98	18.53	19.51	19.69	18.57	18.50	18.40	18.40			
18	18.36	18.35	19.20	18.59	19.05	19.35	18.55	18.50	18.40	18.40			
19	18.36	18.35	19.41	18.55	18.90	19.21	18.55	18.50	18.40	18.40			
20	18.36	18.35	19.05	18.50	18.85	19.16	18.55	18.45	18.40	18.40			
21	18.37	18.35	18.76	18.50	19.30	19.27	18.50	18.45	18.40	18.40			
22	18.38	18.35	18.82	18.52	19.07	19.37	18.50	18.45	18.40	18.40			
23	18.38	18.36	19.01	18.84	19.07	19.32	18.50	18.45	18.40	18.40			
24	18.37	18.36	18.79	19.07	19.40	19.17	18.50	18.45	18.40	18.40			
25	18.37	18.36	18.86	19.17	19.25	19.10	18.50	18.45	18.40	18.40			
26	18.36	18.40	18.75	19.52	19.11	19.03	18.50	18.45	18.40	18.40			
27	18.36	18.40	18.67	19.08	18.98	18.93	18.50	18.45	18.40	18.40			
28	18.36	18.39	19.46	18.88	18.92	18.85	18.50	18.45	18.40	18.40			
29	18.36	18.39	19.78	18.77	19.38	18.77	18.50	18.45	18.40	18.40			
30	18.36	18.43	19.89	18.68	19.44	18.70	18.50	18.45	18.40	18.40			
31		18.43		18.68	19.27		18.50		18.40	18.40			
Mean	18.38	18.36	18.82	18.82	19.42	19.52	18.58	18.48	18.41	18.40			
Max	18.43	18.43	19.89	19.74	21.18	22.16	18.79	18.50	18.45	18.40			22.16
Min	18.36	18.35	18.45	18.46	18.85	18.70	18.50	18.45	18.40	18.40			18.35
Annual Max Momentary Gage Height	23.10		m. (MSL.) ,			at 12.00 Hours, on Aug 6, 2019							
Zero Gage at Bottom Elevation	18.00		m. (MSL.) ,			River Bed 18.42		m. (MSL.)					
Left Bank Elevation		23.46		m. (MSL.) ,									
Right Bank Elevation		23.12		m. (MSL.) ,		Drainage Are	27	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.16	0.25	2.40	0.94	1.25	0.45	0.30	0.25	0.20			
2	0.18	0.16	0.25	0.80	1.25	2.10	0.45	0.30	0.25	0.20			
3	0.19	0.15	0.25	1.70	1.25	3.50	0.45	0.30	0.25	0.20			
4	0.19	0.15	0.25	1.70	2.65	26.85	0.45	0.30	0.25	0.20			
5	0.23	0.15	0.25	6.40	21.90	6.60	0.41	0.30	0.25	0.20			
6	0.22	0.15	0.25	1.95	26.70	3.30	0.59	0.30	0.20	0.20			
7	0.20	0.15	0.30	0.84	8.70	2.25	0.57	0.30	0.20	0.20			
8	0.19	0.15	0.30	0.55	7.50	1.35	0.47	0.30	0.20	0.20			
9	0.19	0.15	0.26	0.43	8.10	2.80	0.40	0.30	0.20	0.20			
10	0.18	0.15	0.37	0.40	14.55	26.85	0.40	0.30	0.20	0.20			
11	0.18	0.15	0.56	0.35	8.30	3.10	0.35	0.30	0.20	0.20			
12	0.18	0.15	0.47	0.30	6.90	1.85	0.35	0.30	0.20	0.20			
13	0.17	0.15	0.49	0.28	2.70	1.60	0.36	0.30	0.20	0.20			
14	0.17	0.17	1.30	0.26	1.40	14.55	0.47	0.30	0.20	0.20			
15	0.17	0.17	0.48	0.39	0.96	16.80	0.47	0.30	0.20	0.20			
16	0.16	0.16	0.41	0.35	0.96	46.20	0.42	0.30	0.20	0.20			
17	0.16	0.16	0.96	0.33	4.10	5.90	0.37	0.30	0.20	0.20			
18	0.16	0.15	2.00	0.39	1.25	2.75	0.35	0.30	0.20	0.20			
19	0.16	0.15	3.10	0.35	0.80	2.05	0.35	0.30	0.20	0.20			
20	0.16	0.15	1.25	0.30	0.70	1.80	0.35	0.25	0.20	0.20			
21	0.17	0.15	0.56	0.30	2.50	2.35	0.30	0.25	0.20	0.20			
22	0.18	0.15	0.64	0.32	1.35	2.85	0.30	0.25	0.20	0.20			
23	0.18	0.16	1.05	0.68	1.35	2.60	0.30	0.25	0.20	0.20			
24	0.17	0.16	0.59	1.35	3.00	1.85	0.30	0.25	0.20	0.20			
25	0.17	0.16	0.72	1.85	2.25	1.50	0.30	0.25	0.20	0.20			
26	0.16	0.20	0.55	4.20	1.55	1.15	0.30	0.25	0.20	0.20			
27	0.16	0.20	0.47	1.40	0.96	0.86	0.30	0.25	0.20	0.20			
28	0.16	0.19	3.60	0.76	0.84	0.70	0.30	0.25	0.20	0.20			
29	0.16	0.19	6.80	0.57	2.90	0.57	0.30	0.25	0.20	0.20			
30	0.16	0.23	7.90	0.48	3.40	0.50	0.30	0.25	0.20	0.20			
31		0.23		0.48	2.35		0.30		0.20	0.20			
<b>Total</b>	5.29	5.10	36.63	32.86	144.06	188.38	11.78	8.45	6.45	6.20			445.20 CMSDAY
<b>Mean</b>	0.18	0.16	1.22	1.06	4.65	6.28	0.38	0.28	0.21	0.20			1.45 CMS
<b>Max</b>	0.23	0.23	7.90	6.40	26.70	46.20	0.59	0.30	0.25	0.20			46.20 CMS
<b>Min</b>	0.16	0.15	0.25	0.26	0.70	0.50	0.30	0.25	0.20	0.20			0.15 CMS
<b>Runoff</b>	0.46	0.44	3.16	2.84	12.45	16.28	1.02	0.73	0.56	0.54			38.47 MCM
<b>Momentary Peak</b>	69.50	CMS, at 23.10 m. (MSL), at 12.00 Hours, on Aug 6, 2019											
<b>Runoff Yield</b>	45.24	Liters/Second/Square KM.			Momentary Peak Yield	2577.89	Liters/Second/Square KM.						

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlung Pran Bun at Ban Khlung Yai Tai , Chanthaburi (Z.52)

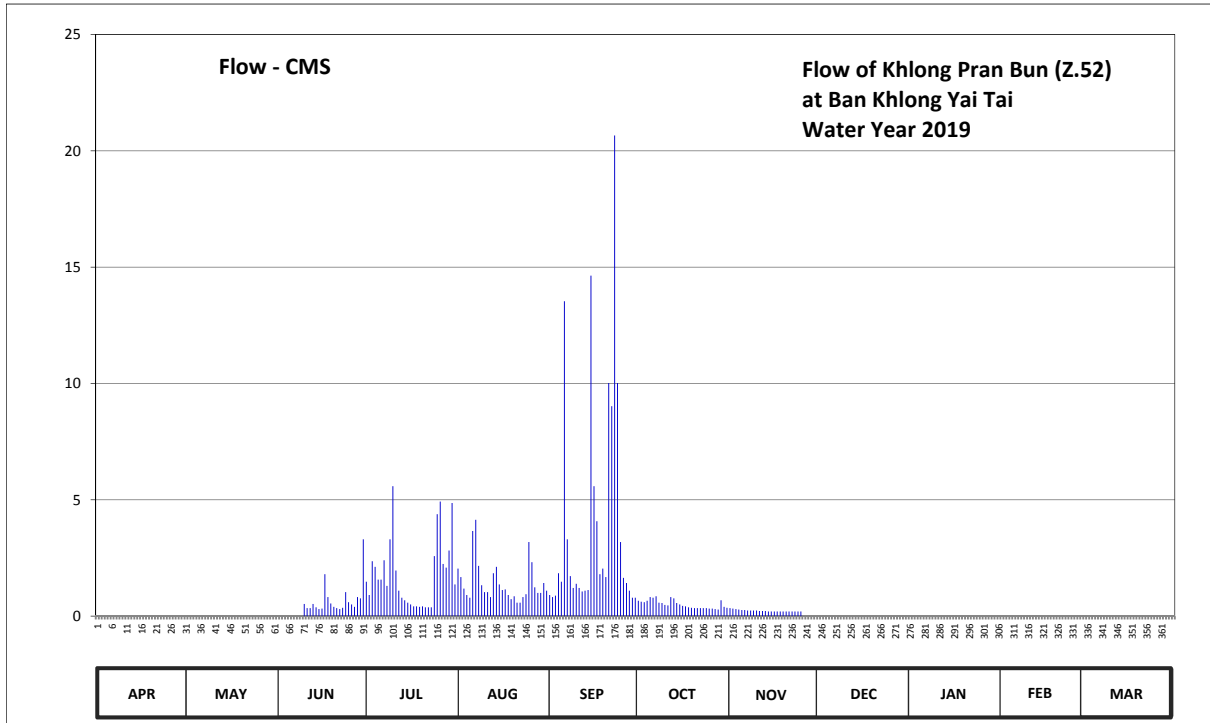
Lat 13 - 05 - 10 N Long 101 - 56 - 25 E

Location : on left bank at Ban Khlung Yai Tai.

	<b>Ban</b> Khlung Yai Tai	<b>Amphoe</b> Kaeng Hang Maeo	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	60 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+37.740 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+42.415 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00,12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2001 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2001 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2001 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		
<b>Ramark</b>	No record Apr.- May., Dec 2019, Jan. - Mar. 2020		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				38.26	38.41	38.07	37.98	37.82					
2				38.07	38.32	38.04	37.96	37.81					
3				38.49	38.16	38.06	37.95	37.80					
4				38.43	38.07	38.36	37.98	37.79					
5				38.29	38.03	38.26	38.04	37.78					
6				38.29	38.71	40.04	38.03	37.78					
7				38.50	38.79	38.65	38.05	37.77					
8				38.20	38.44	38.33	37.94	37.77					
9				38.65	38.21	38.17	37.93	37.77					
10			37.91	39.03	38.11	38.23	37.89	37.77					
11			37.82	38.39	38.11	38.17	37.88	37.76					
12			37.82	38.13	38.04	38.12	38.04	37.76					
13			37.91	38.03	38.36	38.13	38.02	37.76					
14			37.84	37.99	38.43	38.14	37.93	37.75					
15			37.80	37.94	38.22	40.16	37.90	37.75					
16			37.81	37.90	38.14	39.03	37.87	37.75					
17			38.35	37.86	38.15	38.78	37.86	37.75					
18			38.04	37.86	38.07	38.35	37.84	37.75					
19			37.92	37.85	38.01	38.41	37.83	37.75					
20			37.85	37.86	38.05	38.32	37.82	37.75					
21			37.82	37.84	37.94	39.65	37.82	37.75					
22			37.80	37.84	37.94	39.52	37.82	37.75					
23			37.83	37.84	38.04	40.76	37.82	37.75					
24			38.11	38.53	38.08	39.65	37.82	37.75					
25			37.95	38.83	38.63	38.63	37.81	37.75					
26			37.90	38.92	38.48	38.31	37.81						
27			37.85	38.46	38.18	38.24	37.80						
28			38.04	38.42	38.10	38.13	37.79						
29			38.02	38.57	38.10	38.03	37.99						
30			38.65	38.91	38.24	38.03	37.85						
31				38.22	38.13		37.83						
Mean			37.95	38.27	38.22	38.63	37.90	37.77					
Max			38.65	39.03	38.79	40.76	38.05	37.82					40.76
Min			37.80	37.84	37.94	38.03	37.79	37.75					37.75
Annual Max Momentary Gage Height	41.11		m. (MSL.) ,			at 06.00 Hours, on Sep 23, 2019							
Zero Gage at Bottom Elevation	37.74		m. (MSL.) ,			River Bed	38.49	m. (MSL.)					
Left Bank Elevation		41.19	m. (MSL.) ,										
Right Bank Elevation		41.24	m. (MSL.) ,			Drainage Are	60	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1				1.48	2.04	0.91	0.66	0.34					
2				0.91	1.68	0.82	0.62	0.32					
3				2.36	1.18	0.88	0.60	0.30					
4				2.12	0.91	1.84	0.66	0.28					
5				1.57	0.79	1.48	0.82	0.26					
6				1.57	3.66	13.53	0.79	0.26					
7				2.40	4.14	3.30	0.85	0.24					
8				1.30	2.16	1.72	0.58	0.24					
9				3.30	1.33	1.21	0.56	0.24					
10			0.52	5.58	1.03	1.39	0.48	0.24					
11			0.34	1.96	1.03	1.21	0.46	0.22					
12			0.34	1.09	0.82	1.06	0.82	0.22					
13			0.52	0.79	1.84	1.09	0.76	0.22					
14			0.38	0.68	2.12	1.12	0.56	0.20					
15			0.30	0.58	1.36	14.63	0.50	0.20					
16			0.32	0.50	1.12	5.58	0.44	0.20					
17			1.80	0.42	1.15	4.08	0.42	0.20					
18			0.82	0.42	0.91	1.80	0.38	0.20					
19			0.54	0.40	0.73	2.04	0.36	0.20					
20			0.40	0.42	0.85	1.68	0.34	0.20					
21			0.34	0.38	0.58	10.02	0.34	0.20					
22			0.30	0.38	0.58	9.02	0.34	0.20					
23			0.36	0.38	0.82	20.66	0.34	0.20					
24			1.03	2.58	0.94	10.02	0.34	0.20					
25			0.60	4.38	3.18	3.18	0.32	0.20					
26			0.50	4.92	2.32	1.64	0.32						
27			0.40	2.24	1.24	1.42	0.30						
28			0.82	2.08	1.00	1.09	0.28						
29			0.76	2.82	1.00	0.79	0.68						
30			3.30	4.86	1.42	0.79	0.40						
31				1.36	1.09		0.36						
Total			14.69	56.23	45.02	120.00	15.68	5.78					257.40 CMSDAY
Mean			0.70	1.81	1.45	4.00	0.51	0.23					1.52 CMS
Max			3.30	5.58	4.14	20.66	0.85	0.34					20.66 CMS
Min			0.30	0.38	0.58	0.79	0.28	0.20					0.20 CMS
Runoff			1.27	4.86	3.89	10.37	1.35	0.50					22.24 MCM
Momentary Peak	24.51	CMS, at 41.11 m. (MSL.), at 06.00 Hours, on Sep 23, 2019											
Runoff Yield	11.85	Liters/Second/Square KM.		Momentary Peak Yield		411.86	Liters/Second/Square KM.						

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Thung Ta In , Chanthaburi (Z.53)

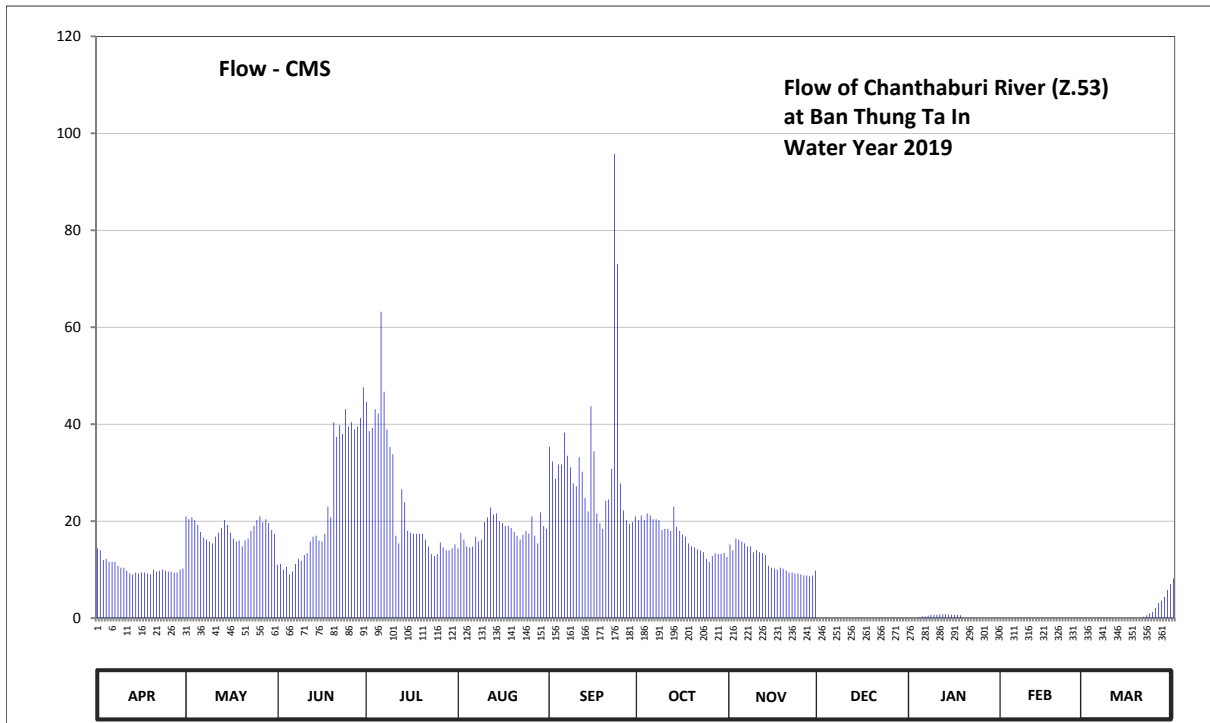
Lat 12 - 50 - 23 N Long 102 - 05 - 04 E

Location : on left bank at the bridge on highway.

	<b>Ban Thung Ta In</b>	<b>Amphoe</b> Khao Kitchakut	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	475 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+14.260 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+21.404 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 3 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		
<b>Ramark</b>	No record Feb. 2020		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.87	16.20	15.70	17.02	15.87	16.71	16.16	15.91	14.44	14.47			
2	15.85	16.17	15.71	16.82	16.03	16.61	16.21	15.85	14.46	14.64			
3	15.75	16.19	15.65	16.84	15.96	16.49	16.16	15.97	14.47	14.79			
4	15.76	16.16	15.68	16.97	15.89	16.59	16.23	15.96	14.49	14.83			
5	15.73	16.11	15.60	16.94	15.88	16.59	16.21	15.94	14.48	14.87			
6	15.73	16.04	15.63	17.64	15.89	16.81	16.17	15.92	14.51	14.87			
7	15.73	15.98	15.71	17.09	15.99	16.65	16.17	15.89	14.57	14.90			
8	15.69	15.96	15.76	16.83	15.94	16.57	16.16	15.89	14.67	14.93			
9	15.67	15.94	15.74	16.71	15.96	16.46	16.06	15.83	14.67	14.93			
10	15.67	15.92	15.80	16.66	16.14	16.44	16.07	15.85	14.54	14.93			
11	15.64	15.99	15.82	16.00	16.19	16.64	16.07	15.83	14.47	14.95			
12	15.61	16.03	15.94	15.92	16.29	16.54	16.05	15.82	14.48	14.96			
13	15.60	16.08	15.99	16.42	16.22	16.36	16.30	15.80	14.48	14.96			
14	15.62	16.16	16.00	16.33	16.23	16.25	16.09	15.69	14.48	14.95			
15	15.61	16.11	15.95	16.05	16.15	16.99	16.05	15.67	14.48	14.94			14.44
16	15.62	16.03	15.94	16.03	16.13	16.68	16.01	15.66	14.48	14.94			14.48
17	15.62	15.97	16.02	16.02	16.10	16.23	15.99	15.65	14.48	14.94			14.57
18	15.61	15.94	16.30	16.02	16.10	16.13	15.92	15.67	14.47	14.92			14.67
19	15.60	15.95	16.19	16.02	16.08	16.07	15.89	15.66	14.48	14.49			14.73
20	15.65	15.89	16.88	16.02	16.04	16.34	15.88	15.64	14.48	14.46			14.79
21	15.63	15.95	16.78	15.96	16.00	16.35	15.86	15.62	14.47	14.45			14.85
22	15.64	15.97	16.86	15.89	15.96	16.56	15.85	15.62	14.54	14.45			14.92
23	15.65	16.05	16.80	15.81	16.01	18.52	15.83	15.61	14.67	14.46			14.99
24	15.64	16.10	16.97	15.79	16.05	17.95	15.76	15.61	14.72	14.47			15.03
25	15.63	16.16	16.85	15.81	16.02	16.46	15.73	15.60	14.73	14.48			15.11
26	15.63	16.20	16.88	15.93	16.20	16.26	15.79	15.59	14.71	14.48			15.21
27	15.62	16.14	16.83	15.88	16.00	16.16	15.82	15.59	14.40	14.47			15.26
28	15.62	16.17	16.85	15.85	15.92	16.12	15.81	15.58	14.31	14.45			15.34
29	15.65	16.13	16.91	15.85	16.24	16.14	15.81	15.59	14.27	14.43			15.44
30	15.66	16.06	17.12	15.87	16.10	16.20	15.82	15.64	14.28	14.43			15.50
31		16.02		15.91	16.07		15.78		14.28	14.43			15.56
Mean	15.67	16.06	16.23	16.29	16.05	16.56	15.99	15.74	14.50	14.70		14.99	
Max	15.87	16.20	17.12	17.64	16.29	18.52	16.30	15.97	14.73	14.96		15.56	18.52
Min	15.60	15.89	15.60	15.79	15.87	16.07	15.73	15.58	14.27	14.43		14.44	14.27
Annual Max Momentary Gage Height	19.44												
Zero Gage at Bottom Elevation	14.26						13.18						
Left Bank Elevation		20.32											
Right Bank Elevation		20.64											
Drainage Area						475							



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.40	21.00	11.00	44.60	14.40	35.30	20.20	15.20	0.00	0.00			
2	14.00	20.40	11.20	38.60	17.60	32.30	21.20	14.00	0.00	0.00			
3	12.00	20.80	10.00	39.20	16.20	28.70	20.20	16.40	0.00	0.00			
4	12.20	20.20	10.60	43.10	14.80	31.70	21.60	16.20	0.00	0.15			
5	11.60	19.20	9.00	42.20	14.60	31.70	21.20	15.80	0.00	0.35			
6	11.60	17.80	9.60	63.20	14.80	38.30	20.40	15.40	0.00	0.35			
7	11.60	16.60	11.20	46.70	16.80	33.50	20.40	14.80	0.00	0.50			
8	10.80	16.20	12.20	38.90	15.80	31.10	20.20	14.80	0.00	0.65			
9	10.40	15.80	11.80	35.30	16.20	27.80	18.20	13.60	0.00	0.65			
10	10.40	15.40	13.00	33.80	19.80	27.20	18.40	14.00	0.00	0.65			
11	9.80	16.80	13.40	17.00	20.80	33.20	18.40	13.60	0.00	0.75			
12	9.20	17.60	15.80	15.40	22.80	30.20	18.00	13.40	0.00	0.80			
13	9.00	18.60	16.80	26.60	21.40	24.80	23.00	13.00	0.00	0.80			
14	9.40	20.20	17.00	23.90	21.60	22.00	18.80	10.80	0.00	0.75			
15	9.20	19.20	16.00	18.00	20.00	43.70	18.00	10.40	0.00	0.70		0.00	
16	9.40	17.60	15.80	17.60	19.60	34.40	17.20	10.20	0.00	0.70		0.00	
17	9.40	16.40	17.40	17.40	19.00	21.60	16.80	10.00	0.00	0.70		0.00	
18	9.20	15.80	23.00	17.40	19.00	19.60	15.40	10.40	0.00	0.60		0.00	
19	9.00	16.00	20.80	17.40	18.60	18.40	14.80	10.20	0.00	0.00		0.00	
20	10.00	14.80	40.40	17.40	17.80	24.20	14.60	9.80	0.00	0.00		0.00	
21	9.60	16.00	37.40	16.20	17.00	24.50	14.20	9.40	0.00	0.00		0.25	
22	9.80	16.40	39.80	14.80	16.20	30.80	14.00	9.40	0.00	0.00		0.60	
23	10.00	18.00	38.00	13.20	17.20	95.80	13.60	9.20	0.00	0.00		0.95	
24	9.80	19.00	43.10	12.80	18.00	73.00	12.20	9.20	0.00	0.00		1.30	
25	9.60	20.20	39.50	13.20	17.40	27.80	11.60	9.00	0.00	0.00		2.10	
26	9.60	21.00	40.40	15.60	21.00	22.20	12.80	8.80	0.00	0.00		3.10	
27	9.40	19.80	38.90	14.60	17.00	20.20	13.40	8.80	0.00	0.00		3.60	
28	9.40	20.40	39.50	14.00	15.40	19.40	13.20	8.60	0.00	0.00		4.40	
29	10.00	19.60	41.30	14.00	21.80	19.80	13.20	8.80	0.00	0.00		5.80	
30	10.20	18.20	47.60	14.40	19.00	21.00	13.40	9.80	0.00	0.00		7.00	
31		17.40		15.20	18.40		12.60		0.00	0.00		8.20	
<b>Total</b>	310.00	562.40	711.50	771.70	560.00	944.20	521.20	353.00	0.00	9.10		37.30	4780.40 CMSDAY
<b>Mean</b>	10.33	18.14	23.72	24.89	18.06	31.47	16.81	11.77	0.00	0.29		2.19	14.80 CMS
<b>Max</b>	14.40	21.00	47.60	63.20	22.80	95.80	23.00	16.40	0.00	0.80		8.20	95.80 CMS
<b>Min</b>	9.00	14.80	9.00	12.80	14.40	18.40	11.60	8.60	0.00	0.00		0.00	0.00 CMS
<b>Runoff</b>	26.78	48.59	61.47	66.67	48.38	81.58	45.03	30.50	0.00	0.79		3.22	413.03 MCM
<b>Momentary Peak</b>	133.00	CMS, at 19.44 m. (MSL.), at 18.00 Hours, on Sep 23, 2019											
<b>Runoff Yield</b>	27.57	Liters/Second/Square KM.					280.00	Liters/Second/Square KM.					



## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Wang Cha Ai , Chanthaburi (Z.55)

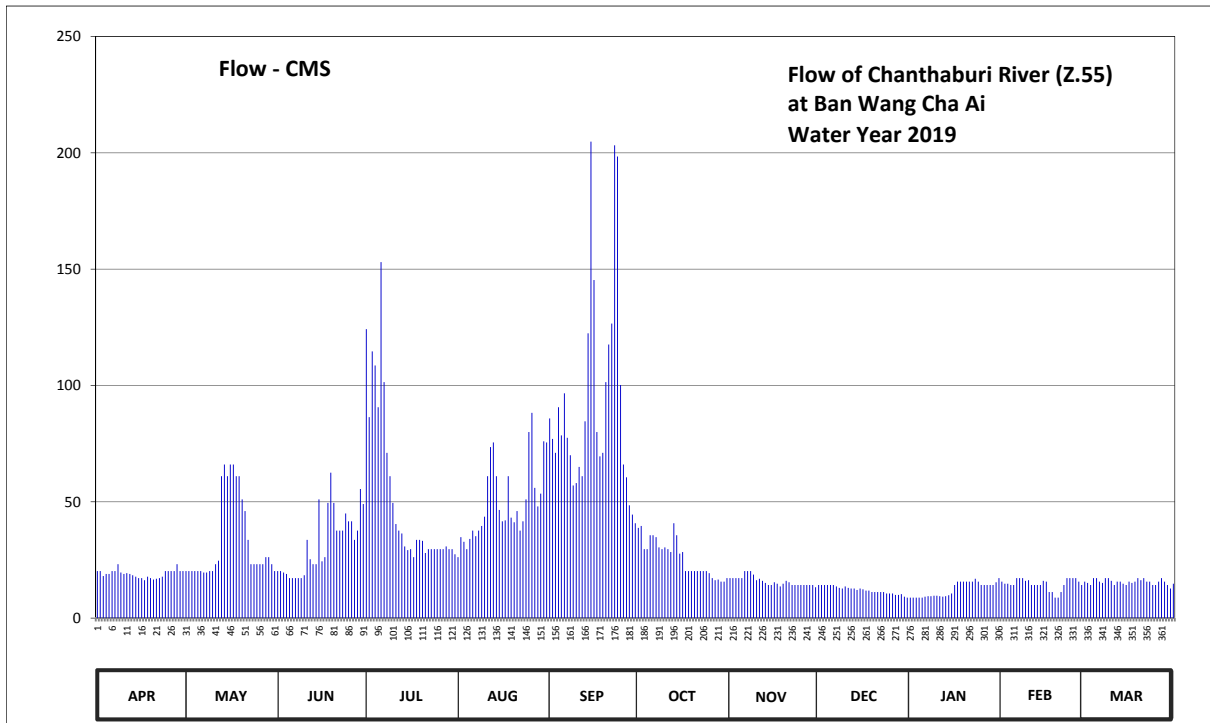
Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

Location : on left bank at the bridge on highway.

	<b>Ban</b>	<b>Bang Cha Ai</b>	<b>Amphoe</b>	<b>Makham</b>	<b>Changwat</b>	<b>Chanthaburi</b>
<b>Drainage Area</b>	956	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+1.739	m. (MSL.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage site.				<b>Elevation</b>	+9.723 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00,12.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings					
<b>Period of Available Gage Records</b>	2008 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2008 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2008 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.74	2.74	2.74	4.87	2.94	4.23	3.27	2.64	2.54	2.34	2.59	2.59	
2	2.74	2.74	2.74	4.24	3.17	4.06	3.29	2.64	2.54	2.34	2.56	2.57	
3	2.67	2.74	2.72	4.71	3.12	3.94	3.04	2.64	2.54	2.34	2.56	2.54	
4	2.70	2.74	2.70	4.61	3.04	4.31	3.04	2.64	2.54	2.34	2.54	2.64	
5	2.70	2.74	2.64	4.31	3.15	4.09	3.19	2.64	2.54	2.34	2.54	2.64	
6	2.74	2.74	2.64	5.30	3.24	4.41	3.19	2.74	2.54	2.36	2.64	2.59	
7	2.74	2.72	2.64	4.49	3.18	4.07	3.17	2.74	2.52	2.37	2.64	2.57	
8	2.84	2.72	2.64	3.94	3.24	3.92	3.06	2.74	2.50	2.37	2.64	2.64	
9	2.72	2.74	2.64	3.74	3.29	3.66	3.04	2.69	2.49	2.38	2.60	2.64	
10	2.70	2.74	2.68	3.51	3.39	3.68	3.06	2.61	2.52	2.38	2.61	2.60	
11	2.71	2.84	3.14	3.31	3.74	3.82	3.04	2.63	2.50	2.37	2.54	2.54	
12	2.70	2.89	2.91	3.24	3.99	3.74	3.01	2.60	2.49	2.36	2.54	2.59	
13	2.68	3.74	2.84	3.21	4.03	4.21	3.32	2.57	2.49	2.37	2.54	2.59	
14	2.66	3.84	2.84	3.07	3.74	4.84	3.19	2.54	2.47	2.39	2.54	2.56	
15	2.64	3.74	3.54	3.03	3.45	6.01	2.99	2.54	2.49	2.42	2.60	2.54	
16	2.64	3.84	2.88	3.04	3.34	5.19	3.01	2.58	2.48	2.54	2.59	2.59	
17	2.61	3.84	2.94	2.94	3.35	4.12	2.74	2.56	2.46	2.59	2.44	2.57	
18	2.66	3.74	3.51	3.14	3.74	3.91	2.74	2.52	2.46	2.59	2.44	2.59	
19	2.64	3.74	3.77	3.14	3.38	3.94	2.74	2.56	2.44	2.59	2.34	2.64	
20	2.62	3.54	3.51	3.13	3.33	4.49	2.74	2.60	2.44	2.59	2.34	2.61	
21	2.63	3.44	3.24	3.00	3.44	4.76	2.74	2.58	2.44	2.59	2.44	2.64	
22	2.64	3.14	3.24	3.04	3.24	4.91	2.74	2.54	2.44	2.59	2.54	2.59	
23	2.66	2.84	3.24	3.04	3.34	5.99	2.74	2.54	2.44	2.63	2.64	2.59	
24	2.74	2.84	3.42	3.04	3.54	5.93	2.74	2.54	2.42	2.59	2.64	2.54	
25	2.74	2.84	3.34	3.04	4.12	4.47	2.71	2.54	2.42	2.54	2.64	2.54	
26	2.74	2.84	3.34	3.04	4.27	3.84	2.64	2.54	2.42	2.54	2.64	2.59	
27	2.74	2.84	3.14	3.04	3.64	3.73	2.61	2.54	2.40	2.54	2.59	2.64	
28	2.84	2.94	3.24	3.07	3.48	3.49	2.62	2.54	2.40	2.54	2.54	2.59	
29	2.74	2.94	3.63	3.04	3.59	3.41	2.59	2.54	2.41	2.54	2.64	2.54	
30	2.74	2.84	3.50	3.04	4.04	3.32	2.59	2.51	2.36	2.58	2.58	2.49	
31		2.74		2.98	4.03		2.64		2.34	2.64		2.56	
Mean	2.70	3.08	3.07	3.49	3.50	4.28	2.91	2.59	2.47	2.47	2.56	2.59	
Max	2.84	3.84	3.77	5.30	4.27	6.01	3.32	2.74	2.54	2.64	2.64	2.64	6.01
Min	2.61	2.72	2.64	2.94	2.94	3.32	2.59	2.51	2.34	2.34	2.34	2.49	2.34
Annual Max Momentary Gage Height	6.14		m. (MSL.) ,				at 06.00 Hours, on Sep 15, 2019						
Zero Gage at Bottom Elevation	1.74		m. (MSL.) ,			River Bed	-1.26	m. (MSL.)					
Left Bank Elevation		8.59	m. (MSL.) ,										
Right Bank Elevation		9.17	m. (MSL.) ,			Drainage Are	956	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.20	20.20	20.20	124.20	26.20	85.80	38.80	17.20	14.20	8.80	15.70	15.70	
2	20.20	20.20	20.20	86.40	34.80	77.00	39.60	17.20	14.20	8.80	14.80	15.10	
3	18.10	20.20	19.60	114.60	32.80	71.00	29.60	17.20	14.20	8.80	14.80	14.20	
4	19.00	20.20	19.00	108.60	29.60	90.60	29.60	17.20	14.20	8.80	14.20	17.20	
5	19.00	20.20	17.20	90.60	34.00	78.50	35.60	17.20	14.20	8.80	14.20	17.20	
6	20.20	20.20	17.20	153.00	37.60	96.60	35.60	20.20	14.20	9.20	17.20	15.70	
7	20.20	19.60	17.20	101.40	35.20	77.50	34.80	20.20	13.60	9.40	17.20	15.10	
8	23.20	19.60	17.20	71.00	37.60	70.00	30.40	20.20	13.00	9.40	17.20	17.20	
9	19.60	20.20	17.20	61.00	39.60	57.00	29.60	18.70	12.70	9.60	16.00	17.20	
10	19.00	20.20	18.40	49.50	43.60	58.00	30.40	16.30	13.60	9.60	16.30	16.00	
11	19.30	23.20	33.60	40.40	61.00	65.00	29.60	16.90	13.00	9.40	14.20	14.20	
12	19.00	24.70	25.30	37.60	73.50	61.00	28.40	16.00	12.70	9.20	14.20	15.70	
13	18.40	61.00	23.20	36.40	75.50	84.60	40.80	15.10	12.70	9.40	14.20	15.70	
14	17.80	66.00	23.20	30.80	61.00	122.40	35.60	14.20	12.10	9.80	14.20	14.80	
15	17.20	61.00	51.00	29.20	46.50	204.80	27.70	14.20	12.70	10.60	16.00	14.20	
16	17.20	66.00	24.40	29.60	41.60	145.30	28.40	15.40	12.40	14.20	15.70	15.70	
17	16.30	66.00	26.20	26.20	42.00	80.00	20.20	14.80	11.80	15.70	11.20	15.10	
18	17.80	61.00	49.50	33.60	61.00	69.50	20.20	13.60	11.80	15.70	11.20	15.70	
19	17.20	61.00	62.50	33.60	43.20	71.00	20.20	14.80	11.20	15.70	8.80	17.20	
20	16.60	51.00	49.50	33.20	41.20	101.40	20.20	16.00	11.20	15.70	8.80	16.30	
21	16.90	46.00	37.60	28.00	46.00	117.60	20.20	15.40	11.20	15.70	11.20	17.20	
22	17.20	33.60	37.60	29.60	37.60	126.60	20.20	14.20	11.20	15.70	14.20	15.70	
23	17.80	23.20	37.60	29.60	41.60	203.20	20.20	14.20	11.20	16.90	17.20	15.70	
24	20.20	23.20	45.00	29.60	51.00	198.40	20.20	14.20	10.60	15.70	17.20	14.20	
25	20.20	23.20	41.60	29.60	80.00	100.20	19.30	14.20	10.60	14.20	17.20	14.20	
26	20.20	23.20	41.60	29.60	88.20	66.00	17.20	14.20	10.60	14.20	17.20	15.70	
27	20.20	23.20	33.60	29.60	56.00	60.50	16.30	14.20	10.00	14.20	15.70	17.20	
28	23.20	26.20	37.60	30.80	48.00	48.50	16.60	14.20	10.00	14.20	14.20	15.70	
29	20.20	26.20	55.50	29.60	53.50	44.50	15.70	14.20	10.30	14.20	17.20	14.20	
30	20.20	23.20	49.00	29.60	76.00	40.80	15.70	13.30	9.20	15.40		12.70	
31		20.20		27.40	75.50		17.20		8.80	17.20		14.80	
<b>Total</b>	571.80	1033.10	968.50	1613.90	1550.90	2773.30	804.10	474.90	373.40	384.20	427.40	482.50	11458.00 CMSDAY
<b>Mean</b>	19.06	33.33	32.28	52.06	50.03	92.44	25.94	15.83	12.05	12.39	14.74	15.56	31.31 CMS
<b>Max</b>	23.20	66.00	62.50	153.00	88.20	204.80	40.80	20.20	14.20	17.20	17.20	204.80	CMS
<b>Min</b>	16.30	19.60	17.20	26.20	26.20	40.80	15.70	13.30	8.80	8.80	8.80	12.70	8.80 CMS
<b>Runoff</b>	49.40	89.26	83.68	139.44	134.00	239.61	69.47	41.03	32.26	33.19	36.93	41.69	989.97 MCM
<b>Momentary Peak</b>		215.20	CMS, at 6.14 m. (MSL.), at 06.00 Hours, on Sep 15, 2019										
<b>Runoff Yield</b>		32.82	Liters/Second/Square KM.			Momentary Peak Yield		224.99	Liters/Second/Square KM.				

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Thung Plae at Ban Ta Bok Tia , Chanthaburi (Z.56)

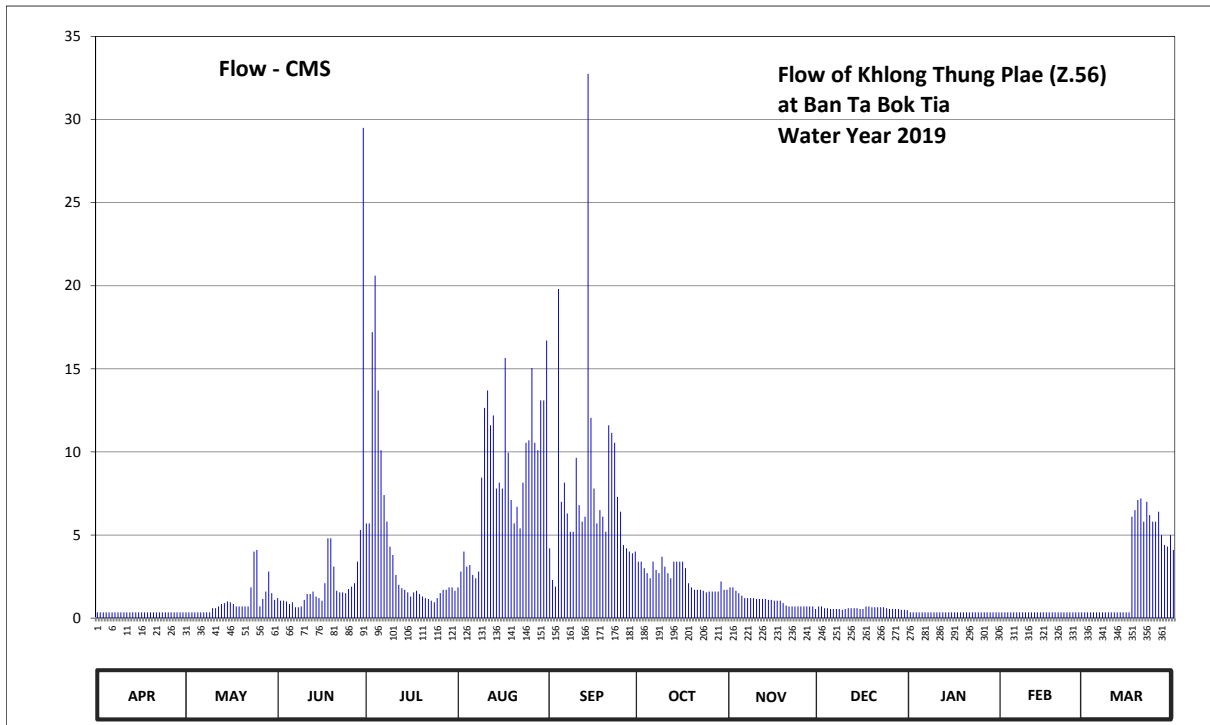
Lat 12 - 49 - 09 N Long 102 - 14 - 20 E

Location : on left bank at the bridge on highway.

	<b>Ban Ta Bok Tia</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	100 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+24.743 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+32.738 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.74	24.74	24.94	25.47	25.07	25.32	25.24	25.07	24.84	24.74	24.74	24.74	
2	24.74	24.74	24.91	25.47	25.18	25.13	25.24	25.07	24.84	24.74	24.74	24.74	
3	24.74	24.74	24.91	26.31	25.30	25.08	25.20	25.03	24.82	24.74	24.74	24.74	
4	24.74	24.74	24.90	26.48	25.21	26.44	25.17	25.00	24.82	24.74	24.74	24.74	
5	24.74	24.74	24.87	26.08	25.22	25.60	25.14	24.97	24.81	24.74	24.74	24.74	
6	24.74	24.74	24.89	25.84	25.16	25.71	25.24	24.94	24.81	24.74	24.74	24.74	
7	24.74	24.74	24.83	25.64	25.14	25.53	25.19	24.94	24.81	24.74	24.74	24.74	
8	24.74	24.74	24.83	25.48	25.18	25.42	25.17	24.94	24.81	24.74	24.74	24.74	
9	24.74	24.74	24.84	25.33	25.73	25.42	25.27	24.94	24.80	24.74	24.74	24.74	
10	24.74	24.82	24.92	25.28	26.01	25.81	25.21	24.93	24.81	24.74	24.74	24.74	
11	24.74	24.82	24.99	25.16	26.08	25.58	25.17	24.93	24.82	24.74	24.74	24.74	
12	24.74	24.84	24.99	25.10	25.94	25.48	25.14	24.93	24.82	24.74	24.74	24.74	
13	24.74	24.87	25.02	25.06	25.98	25.51	25.24	24.93	24.82	24.74	24.74	24.74	
14	24.74	24.88	24.96	25.04	25.68	27.01	25.24	24.92	24.82	24.74	24.74	24.74	
15	24.74	24.90	24.94	25.01	25.71	25.97	25.24	24.92	24.81	24.74	24.74	24.74	
16	24.74	24.89	24.91	24.96	25.68	25.68	25.24	24.91	24.81	24.74	24.74	24.74	
17	24.74	24.87	25.11	25.01	26.21	25.47	25.20	24.91	24.84	24.74	24.74	25.51	
18	24.74	24.84	25.38	25.03	25.83	25.55	25.11	24.91	24.84	24.74	24.74	25.55	
19	24.74	24.84	25.38	24.99	25.61	25.51	25.07	24.88	24.83	24.74	24.74	25.61	
20	24.74	24.84	25.21	24.96	25.47	25.42	25.04	24.85	24.83	24.74	24.74	25.62	
21	24.74	24.84	25.03	24.94	25.57	25.94	25.04	24.84	24.83	24.74	24.74	25.48	
22	24.74	24.84	25.01	24.93	25.44	25.91	25.04	24.84	24.83	24.74	24.74	25.60	
23	24.74	25.07	25.01	24.91	25.71	25.87	25.03	24.84	24.83	24.74	24.74	25.52	
24	24.74	25.30	25.00	24.89	25.87	25.63	25.01	24.84	24.82	24.74	24.74	25.48	
25	24.74	25.31	25.05	24.94	25.88	25.54	25.02	24.84	24.81	24.74	24.74	25.48	
26	24.74	24.84	25.08	25.00	26.17	25.34	25.02	24.84	24.81	24.74	24.74	25.54	
27	24.74	24.93	25.11	25.04	25.87	25.32	25.02	24.84	24.81	24.74	24.74	25.40	
28	24.74	25.02	25.24	25.04	25.84	25.30	25.02	24.84	24.81	24.74	24.74	25.34	
29	24.74	25.18	25.43	25.07	26.04	25.29	25.12	24.84	24.80	24.74	24.74	25.33	
30	24.74	25.00	26.88	25.07	26.04	25.30	25.04	24.81	24.80	24.74	24.74	25.40	
31		24.92		25.03	26.28		25.04		24.79	24.74		25.31	
Mean	24.74	24.88	25.09	25.24	25.68	25.60	25.13	24.91	24.82	24.74	24.74	25.10	
Max	24.74	25.31	26.88	26.48	26.28	27.01	25.27	25.07	24.84	24.74	24.74	25.62	27.01
Min	24.74	24.74	24.83	24.89	25.07	25.08	25.01	24.81	24.79	24.74	24.74	24.74	24.74
Annual Max Momentary Gage Height	27.94		m. (MSL.) ,				at 06.00 Hours, on Sep 14, 2019						
Zero Gage at Bottom Elevation	24.74		m. (MSL.) ,			River Bed	24.52	m. (MSL.)					
Left Bank Elevation		31.59		m. (MSL.) ,									
Right Bank Elevation		30.83		m. (MSL.) ,		Drainage Are	100	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.35	0.35	1.20	5.70	1.85	4.20	3.40	1.85	0.70	0.35	0.35	0.35	
2	0.35	0.35	1.05	5.70	2.80	2.30	3.40	1.85	0.70	0.35	0.35	0.35	
3	0.35	0.35	1.05	17.20	4.00	1.90	3.00	1.65	0.60	0.35	0.35	0.35	
4	0.35	0.35	1.00	20.60	3.10	19.80	2.70	1.50	0.60	0.35	0.35	0.35	
5	0.35	0.35	0.85	13.70	3.20	7.00	2.40	1.35	0.55	0.35	0.35	0.35	
6	0.35	0.35	0.95	10.10	2.60	8.15	3.40	1.20	0.55	0.35	0.35	0.35	
7	0.35	0.35	0.65	7.40	2.40	6.30	2.90	1.20	0.55	0.35	0.35	0.35	
8	0.35	0.35	0.65	5.80	2.80	5.20	2.70	1.20	0.55	0.35	0.35	0.35	
9	0.35	0.35	0.70	4.30	8.45	5.20	3.70	1.20	0.50	0.35	0.35	0.35	
10	0.35	0.60	1.10	3.80	12.65	9.65	3.10	1.15	0.55	0.35	0.35	0.35	
11	0.35	0.60	1.45	2.60	13.70	6.80	2.70	1.15	0.60	0.35	0.35	0.35	
12	0.35	0.70	1.45	2.00	11.60	5.80	2.40	1.15	0.60	0.35	0.35	0.35	
13	0.35	0.85	1.60	1.80	12.20	6.10	3.40	1.15	0.60	0.35	0.35	0.35	
14	0.35	0.90	1.30	1.70	7.80	32.75	3.40	1.10	0.60	0.35	0.35	0.35	
15	0.35	1.00	1.20	1.55	8.15	12.05	3.40	1.10	0.55	0.35	0.35	0.35	
16	0.35	0.95	1.05	1.30	7.80	7.80	3.40	1.05	0.55	0.35	0.35	0.35	
17	0.35	0.85	2.10	1.55	15.65	5.70	3.00	1.05	0.70	0.35	0.35	6.10	
18	0.35	0.70	4.80	1.65	9.95	6.50	2.10	1.05	0.70	0.35	0.35	6.50	
19	0.35	0.70	4.80	1.45	7.10	6.10	1.85	0.90	0.65	0.35	0.35	7.10	
20	0.35	0.70	3.10	1.30	5.70	5.20	1.70	0.75	0.65	0.35	0.35	7.20	
21	0.35	0.70	1.65	1.20	6.70	11.60	1.70	0.70	0.65	0.35	0.35	5.80	
22	0.35	0.70	1.55	1.15	5.40	11.15	1.70	0.70	0.65	0.35	0.35	7.00	
23	0.35	1.85	1.55	1.05	8.15	10.55	1.65	0.70	0.65	0.35	0.35	6.20	
24	0.35	4.00	1.50	0.95	10.55	7.30	1.55	0.70	0.60	0.35	0.35	5.80	
25	0.35	4.10	1.75	1.20	10.70	6.40	1.60	0.70	0.55	0.35	0.35	5.80	
26	0.35	0.70	1.90	1.50	15.05	4.40	1.60	0.70	0.55	0.35	0.35	6.40	
27	0.35	1.15	2.10	1.70	10.55	4.20	1.60	0.70	0.55	0.35	0.35	5.00	
28	0.35	1.60	3.40	1.70	10.10	4.00	1.60	0.70	0.55	0.35	0.35	4.40	
29	0.35	2.80	5.30	1.85	13.10	3.90	2.20	0.70	0.50	0.35	0.35	4.30	
30	0.35	1.50	29.50	1.85	13.10	4.00	1.70	0.55	0.50	0.35		5.00	
31		1.10		1.65	16.70		1.70		0.48	0.35		4.10	
<b>Total</b>	<b>10.50</b>	<b>31.90</b>	<b>82.25</b>	<b>127.00</b>	<b>263.60</b>	<b>232.00</b>	<b>76.65</b>	<b>31.45</b>	<b>18.28</b>	<b>10.85</b>	<b>10.15</b>	<b>92.30</b>	<b>986.93</b> CMSDAY
<b>Mean</b>	<b>0.35</b>	<b>1.03</b>	<b>2.74</b>	<b>4.10</b>	<b>8.50</b>	<b>7.73</b>	<b>2.47</b>	<b>1.05</b>	<b>0.59</b>	<b>0.35</b>	<b>0.35</b>	<b>2.98</b>	<b>2.70</b> CMS
<b>Max</b>	<b>0.35</b>	<b>4.10</b>	<b>29.50</b>	<b>20.60</b>	<b>16.70</b>	<b>32.75</b>	<b>3.70</b>	<b>1.85</b>	<b>0.70</b>	<b>0.35</b>	<b>0.35</b>	<b>7.20</b>	<b>32.75</b> CMS
<b>Min</b>	<b>0.35</b>	<b>0.35</b>	<b>0.65</b>	<b>0.95</b>	<b>1.85</b>	<b>1.90</b>	<b>1.55</b>	<b>0.55</b>	<b>0.48</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b>	<b>0.35</b> CMS
<b>Runoff</b>	<b>0.91</b>	<b>2.76</b>	<b>7.11</b>	<b>10.97</b>	<b>22.78</b>	<b>20.04</b>	<b>6.62</b>	<b>2.72</b>	<b>1.58</b>	<b>0.94</b>	<b>0.88</b>	<b>7.97</b>	<b>85.27</b> MCM
<b>Momentary Peak</b>	<b>68.00</b>	<b>CMS, at 27.94 m. (MSL), at 06.00 Hours, on Sep 14, 2019</b>											
<b>Runoff Yield</b>	<b>27.12</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 682.11 Liters/Second/Square KM.</b>											

**WATER YEAR : 2019****EAST COAST - GULF BASIN****Khlong Nak at Ban Bo Rai , Trat (Z.59)**

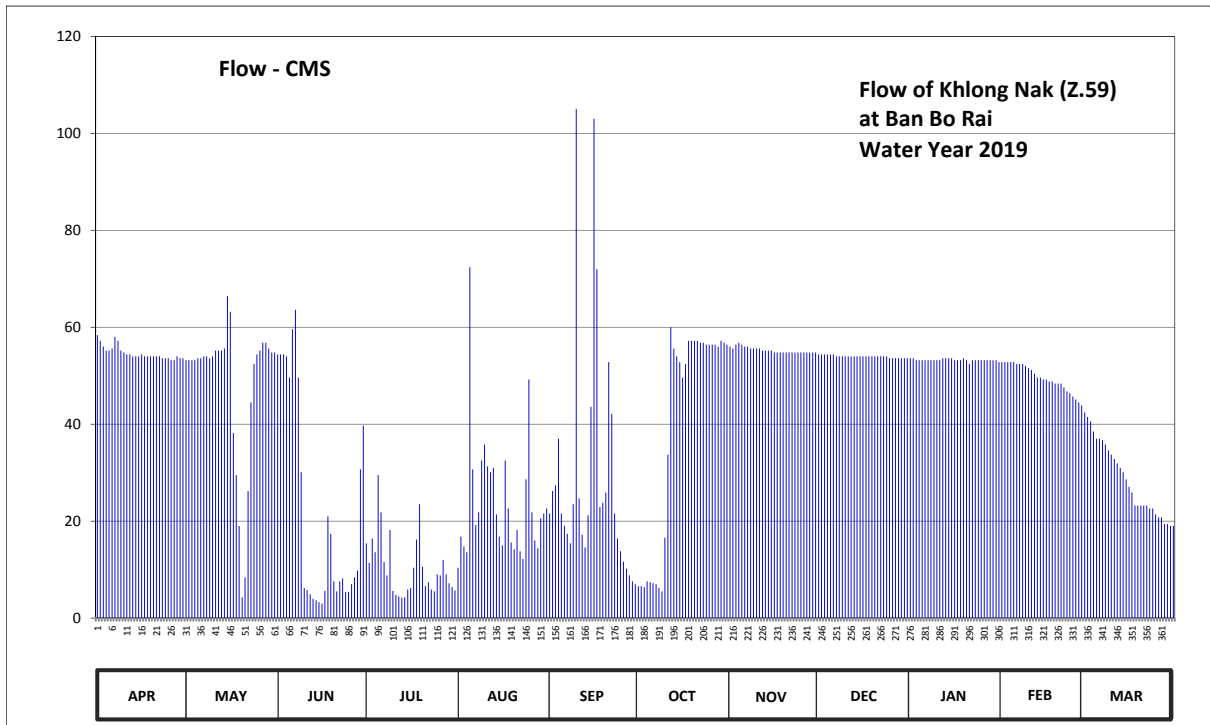
Lat 12 - 21 - 45 N Long 102 - 32 - 38 E

Location : on left bank at the bridge on highway.

	<b>Ban Bo Rai</b>	<b>Amphoe Bo Rai</b>	<b>Changwat Trat</b>
<b>Drainage Area</b>	87 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+16.570 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.		<b>Elevation</b> +25.570 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2010 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2010 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2010 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 24.350 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.01	21.88	21.91	20.57	20.32	20.88	20.13	21.95	21.91	21.89	21.87	21.58	
2	21.98	21.88	21.91	20.37	20.64	21.04	20.13	21.94	21.91	21.89	21.87	21.55	
3	21.95	21.88	21.91	20.62	20.54	21.08	20.12	21.96	21.91	21.88	21.87	21.52	
4	21.93	21.88	21.90	20.48	20.48	21.40	20.18	21.97	21.91	21.88	21.87	21.45	
5	21.93	21.89	21.79	21.15	22.36	20.88	20.17	21.96	21.91	21.88	21.87	21.40	
6	21.94	21.89	22.04	20.89	21.19	20.75	20.16	21.95	21.91	21.88	21.86	21.40	
7	22.00	21.90	22.14	20.38	20.76	20.67	20.15	21.95	21.90	21.88	21.86	21.39	
8	21.98	21.90	21.79	20.24	20.89	20.57	20.11	21.94	21.90	21.88	21.86	21.36	
9	21.93	21.89	21.17	20.71	21.25	20.95	20.05	21.94	21.90	21.88	21.85	21.32	
10	21.92	21.90	20.11	20.06	21.36	23.10	20.63	21.94	21.90	21.88	21.84	21.29	
11	21.91	21.93	20.08	19.98	21.21	20.99	21.29	21.94	21.90	21.88	21.83	21.26	
12	21.91	21.93	19.99	19.95	21.17	20.66	22.05	21.93	21.90	21.89	21.81	21.23	
13	21.90	21.93	19.90	19.92	21.20	20.53	21.94	21.93	21.90	21.89	21.79	21.20	
14	21.90	21.94	19.87	19.93	20.87	20.86	21.90	21.93	21.90	21.89	21.79	21.17	
15	21.90	22.21	19.83	20.09	20.64	21.62	21.87	21.93	21.90	21.89	21.78	21.12	
16	21.91	22.13	19.80	20.11	20.55	23.06	21.79	21.92	21.90	21.88	21.78	21.07	
17	21.90	21.44	20.06	20.32	21.25	22.35	21.86	21.92	21.90	21.88	21.77	21.03	
18	21.90	21.15	20.85	20.61	20.92	20.93	21.98	21.92	21.90	21.88	21.77	20.94	
19	21.90	20.75	20.67	20.95	20.58	20.96	21.98	21.92	21.90	21.89	21.76	20.94	
20	21.90	19.93	20.18	20.33	20.51	21.03	21.98	21.92	21.90	21.88	21.76	20.94	
21	21.90	20.22	20.05	20.13	20.71	21.87	21.98	21.92	21.90	21.86	21.76	20.94	
22	21.90	21.04	20.18	20.17	20.49	21.57	21.97	21.92	21.90	21.88	21.74	20.94	
23	21.89	21.65	20.21	20.09	20.41	20.88	21.97	21.92	21.90	21.88	21.72	20.92	
24	21.89	21.86	20.04	20.05	21.12	20.62	21.96	21.92	21.90	21.88	21.71	20.92	
25	21.89	21.91	20.04	20.25	21.78	20.49	21.96	21.92	21.89	21.88	21.69	20.87	
26	21.88	21.93	20.15	20.24	20.89	20.38	21.96	21.92	21.89	21.88	21.67	20.84	
27	21.88	21.97	20.22	20.40	20.60	20.31	21.96	21.92	21.89	21.88	21.65	20.84	
28	21.90	21.97	20.29	20.25	20.52	20.24	21.95	21.92	21.89	21.88	21.63	20.77	
29	21.89	21.94	21.19	20.16	20.83	20.18	21.98	21.92	21.89	21.88	21.60	20.77	
30	21.89	21.92	21.49	20.12	20.88	20.15	21.97	21.92	21.89	21.88		20.75	
31		21.92		20.07	20.92		21.96		21.89	21.87		20.75	
Mean	21.92	21.70	20.73	20.31	20.90	21.03	21.36	21.93	21.90	21.88	21.78	21.11	
Max	22.01	22.21	22.14	21.15	22.36	23.10	22.05	21.97	21.91	21.89	21.87	21.58	23.10
Min	21.88	19.93	19.80	19.92	20.32	20.15	20.05	21.92	21.89	21.86	21.60	20.75	19.80
Annual Max Momentary Gage Height	24.52		m. (MSL.) ,				at 06.00 Hours, on Sep 10, 2019						
Zero Gage at Bottom Elevation	16.57		m. (MSL.) ,			River Bed	16.21	m. (MSL.)					
Left Bank Elevation		24.73		m. (MSL.) ,									
Right Bank Elevation		24.34		m. (MSL.) ,		Drainage Area	87	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	58.40	53.20	54.40	15.40	10.40	21.60	6.60	56.00	54.40	53.60	52.80	42.40		
2	57.20	53.20	54.40	11.40	16.80	26.20	6.60	55.60	54.40	53.60	52.80	41.50		
3	56.00	53.20	54.40	16.40	14.80	27.40	6.40	56.40	54.40	53.20	52.80	40.60		
4	55.20	53.20	54.00	13.60	13.60	37.00	7.60	56.80	54.40	53.20	52.80	38.50		
5	55.20	53.60	49.60	29.50	72.40	21.60	7.40	56.40	54.40	53.20	52.80	37.00		
6	55.60	53.60	59.60	21.80	30.70	19.00	7.20	56.00	54.40	53.20	52.40	37.00		
7	58.00	54.00	63.60	11.60	19.20	17.40	7.00	56.00	54.00	53.20	52.40	36.70		
8	57.20	54.00	49.60	8.80	21.80	15.40	6.20	55.60	54.00	53.20	52.40	35.80		
9	55.20	53.60	30.10	18.20	32.50	23.50	5.50	55.60	54.00	53.20	52.00	34.60		
10	54.80	54.00	6.20	5.60	35.80	105.00	16.60	55.60	54.00	53.20	51.60	33.70		
11	54.40	55.20	5.80	4.80	31.30	24.70	33.70	55.60	54.00	53.20	51.20	32.80		
12	54.40	55.20	4.90	4.50	30.10	17.20	60.00	55.20	54.00	53.60	50.40	31.90		
13	54.00	55.20	4.00	4.20	31.00	14.60	55.60	55.20	54.00	53.60	49.60	31.00		
14	54.00	55.60	3.70	4.30	21.40	21.20	54.00	55.20	54.00	53.60	49.60	30.10		
15	54.00	66.40	3.30	5.90	16.80	43.60	52.80	55.20	54.00	53.60	49.20	28.60		
16	54.40	63.20	3.00	6.20	15.00	103.00	49.60	54.80	54.00	53.20	49.20	27.10		
17	54.00	38.20	5.60	10.40	32.50	72.00	52.40	54.80	54.00	53.20	48.80	25.90		
18	54.00	29.50	21.00	16.20	22.60	22.90	57.20	54.80	54.00	53.20	48.80	23.20		
19	54.00	19.00	17.40	23.50	15.60	23.80	57.20	54.80	54.00	53.60	48.40	23.20		
20	54.00	4.30	7.60	10.60	14.20	25.90	57.20	54.80	54.00	53.20	48.40	23.20		
21	54.00	8.40	5.50	6.60	18.20	52.80	57.20	54.80	54.00	52.40	48.40	23.20		
22	54.00	26.20	7.60	7.40	13.80	42.10	56.80	54.80	54.00	53.20	47.60	23.20		
23	53.60	44.50	8.20	5.90	12.20	21.60	56.80	54.80	54.00	53.20	46.80	22.60		
24	53.60	52.40	5.40	5.50	28.60	16.40	56.40	54.80	54.00	53.20	46.40	22.60		
25	53.60	54.40	5.40	9.00	49.20	13.80	56.40	54.80	53.60	53.20	45.70	21.40		
26	53.20	55.20	7.00	8.80	21.80	11.60	56.40	54.80	53.60	53.20	45.10	20.80		
27	53.20	56.80	8.40	12.00	16.00	10.20	56.40	54.80	53.60	53.20	44.50	20.80		
28	54.00	56.80	9.80	9.00	14.40	8.80	56.00	54.80	53.60	53.20	43.90	19.40		
29	53.60	55.60	30.70	7.20	20.60	7.60	57.20	54.80	53.60	53.20	43.00	19.40		
30	53.60	54.80	39.70	6.40	21.60	7.00	56.80	54.80	53.60	53.20	43.00	19.00		
31		54.80		5.70	22.60		56.40		53.60	52.80		19.00		
<b>Total</b>	1640.40	1497.30	679.90	326.40	737.50	874.90	1229.60	1658.40	1673.60	1650.80	1429.80	886.20	14284.80	CMSDAY
<b>Mean</b>	54.68	48.30	22.66	10.53	23.79	29.16	39.66	55.28	53.99	53.25	49.30	28.59	39.03	CMS
<b>Max</b>	58.40	66.40	63.60	29.50	72.40	105.00	60.00	56.80	54.40	53.60	52.80	42.40	105.00	CMS
<b>Min</b>	53.20	4.30	3.00	4.20	10.40	7.00	5.50	54.80	53.60	52.40	43.00	19.00	3.00	CMS
<b>Runoff</b>	141.73	129.37	58.74	28.20	63.72	75.59	106.24	143.29	144.60	142.63	123.53	76.57	1234.21	MCM
<b>Momentary Peak</b>		182.20	CMS, at 24.52 m. (MSL), at 06.00 Hours, on Sep 10, 2019											
<b>Runoff Yield</b>		448.61	Liters/Second/Square KM.											
								2088.49	Liters/Second/Square KM.					

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Yai at Ban Khai , Rayong (Z.62)

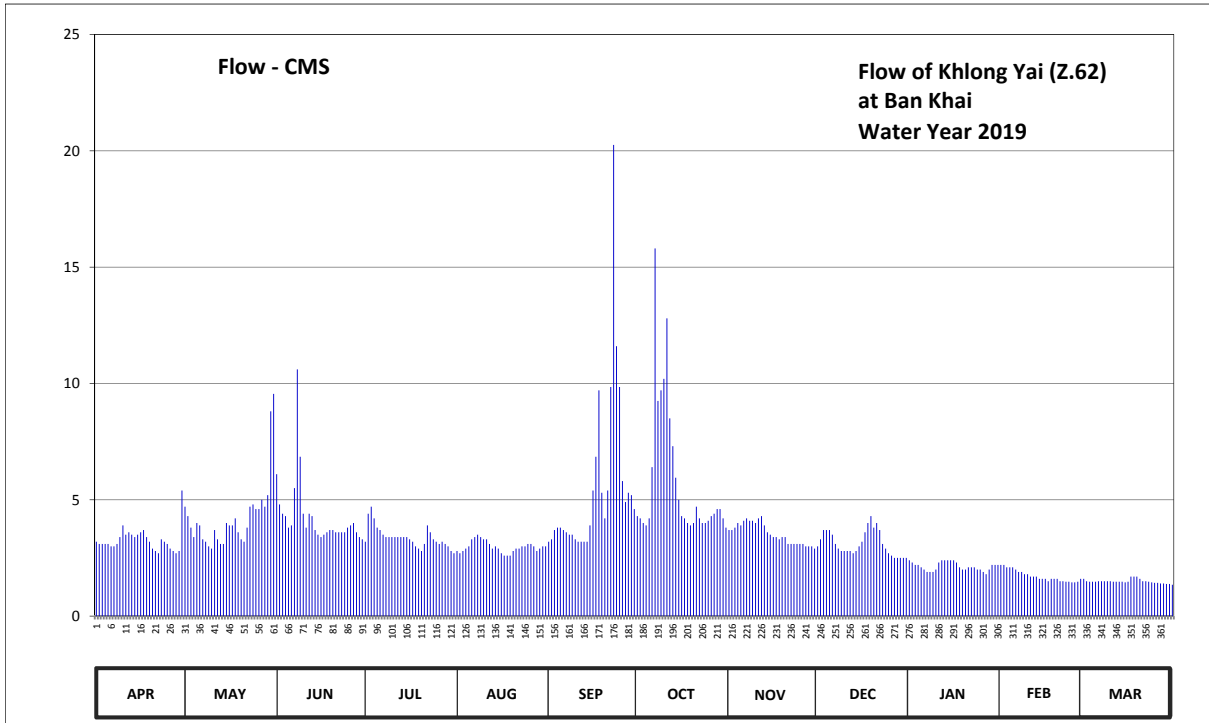
Lat 12 - 47 - 01 N Long 101 - 17 - 45 E

Location : on right bank at the bridge on highway.

	<b>Ban Khai</b>	<b>Amphoe Ban Khai</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	1,220 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+3.373 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.		<b>Elevation</b> +11.134 m. (MSL.)
<b>Gage Reading Frequency</b>	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 3 readings		
<b>Period of Available Gage Records</b>	2015 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2015 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2015 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 3 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.77	5.92	6.04	5.77	5.73	5.77	5.88	5.82	5.75	5.69	5.67	5.61	
2	5.76	5.88	5.93	5.89	5.72	5.78	5.87	5.82	5.78	5.68	5.67	5.60	
3	5.76	5.83	5.89	5.92	5.73	5.82	5.85	5.83	5.82	5.67	5.66	5.59	
4	5.76	5.79	5.88	5.87	5.74	5.83	5.84	5.85	5.82	5.67	5.66	5.59	
5	5.76	5.85	5.83	5.83	5.75	5.83	5.87	5.84	5.82	5.66	5.66	5.59	
6	5.75	5.84	5.84	5.82	5.78	5.82	6.06	5.86	5.80	5.65	5.65	5.60	
7	5.75	5.78	6.00	5.80	5.79	5.81	6.59	5.87	5.76	5.64	5.64	5.60	
8	5.76	5.77	6.33	5.79	5.80	5.80	6.25	5.86	5.74	5.64	5.64	5.60	
9	5.79	5.75	6.09	5.79	5.79	5.80	6.28	5.86	5.73	5.64	5.63	5.60	
10	5.84	5.74	5.89	5.79	5.78	5.78	6.31	5.85	5.73	5.65	5.63	5.60	
11	5.80	5.82	5.83	5.79	5.78	5.77	6.44	5.87	5.73	5.68	5.62	5.59	
12	5.81	5.78	5.89	5.79	5.76	5.77	6.20	5.88	5.73	5.69	5.62	5.59	
13	5.80	5.76	5.88	5.79	5.74	5.77	6.12	5.84	5.72	5.69	5.62	5.59	
14	5.79	5.76	5.82	5.79	5.75	5.77	6.03	5.81	5.73	5.69	5.61	5.59	
15	5.80	5.85	5.80	5.79	5.74	5.84	5.95	5.80	5.75	5.69	5.61	5.58	
16	5.81	5.84	5.79	5.78	5.72	5.99	5.88	5.79	5.77	5.69	5.61	5.59	
17	5.82	5.84	5.80	5.77	5.71	6.09	5.87	5.79	5.81	5.68	5.60	5.62	
18	5.79	5.87	5.81	5.75	5.71	6.28	5.85	5.78	5.85	5.66	5.61	5.62	
19	5.77	5.81	5.82	5.74	5.71	5.98	5.84	5.79	5.88	5.65	5.61	5.62	
20	5.74	5.78	5.82	5.73	5.73	5.87	5.85	5.79	5.83	5.65	5.61	5.61	
21	5.73	5.77	5.81	5.76	5.74	5.99	5.92	5.76	5.85	5.66	5.60	5.60	
22	5.72	5.83	5.81	5.84	5.74	6.29	5.87	5.76	5.82	5.66	5.60	5.60	
23	5.78	5.92	5.81	5.81	5.75	6.77	5.85	5.76	5.76	5.66	5.59	5.59	
24	5.77	5.93	5.81	5.78	5.75	6.38	5.85	5.76	5.74	5.65	5.59	5.58	
25	5.76	5.91	5.83	5.77	5.76	6.29	5.86	5.76	5.72	5.65	5.58	5.57	
26	5.74	5.91	5.84	5.76	5.76	6.02	5.88	5.76	5.71	5.64	5.58	5.57	
27	5.73	5.95	5.85	5.77	5.75	5.94	5.89	5.75	5.70	5.63	5.59	5.56	
28	5.72	5.92	5.81	5.76	5.73	5.98	5.91	5.75	5.70	5.65	5.61	5.56	
29	5.73	5.97	5.79	5.75	5.74	5.97	5.91	5.75	5.70	5.67	5.61	5.55	
30	5.99	6.22	5.78	5.73	5.75	5.91	5.87	5.74	5.70	5.67	5.67	5.55	
31		6.27		5.72	5.75		5.83		5.70	5.67		5.54	
Mean	5.78	5.87	5.87	5.79	5.75	5.96	5.98	5.81	5.76	5.66	5.62	5.59	
Max	5.99	6.27	6.33	5.92	5.80	6.77	6.59	5.88	5.88	5.69	5.67	5.62	6.77
Min	5.72	5.74	5.78	5.72	5.71	5.77	5.83	5.74	5.70	5.63	5.58	5.54	5.54
Annual Max Momentary Gage Height	6.83		m. (MSL.) ,				at 04.00 Hours, on Sep 23, 2019						
Zero Gage at Bottom Elevation	3.37		m. (MSL.) ,			River Bed	2.82	m. (MSL.)					
Left Bank Elevation		10.62	m. (MSL.) ,										
Right Bank Elevation		9.97	m. (MSL.) ,			Drainage Area	1,220	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	4.70	6.10	3.20	2.80	3.20	4.30	3.70	3.00	2.40	2.20	1.60	
2	3.10	4.30	4.80	4.40	2.70	3.30	4.20	3.70	3.30	2.30	2.20	1.50	
3	3.10	3.80	4.40	4.70	2.80	3.70	4.00	3.80	3.70	2.20	2.10	1.48	
4	3.10	3.40	4.30	4.20	2.90	3.80	3.90	4.00	3.70	2.20	2.10	1.48	
5	3.10	4.00	3.80	3.80	3.00	3.80	4.20	3.90	3.70	2.10	2.10	1.48	
6	3.00	3.90	3.90	3.70	3.30	3.70	6.40	4.10	3.50	2.00	2.00	1.50	
7	3.00	3.30	5.50	3.50	3.40	3.60	15.80	4.20	3.10	1.90	1.90	1.50	
8	3.10	3.20	10.60	3.40	3.50	3.50	9.25	4.10	2.90	1.90	1.90	1.50	
9	3.40	3.00	6.85	3.40	3.40	3.50	9.70	4.10	2.80	1.90	1.80	1.50	
10	3.90	2.90	4.40	3.40	3.30	3.30	10.20	4.00	2.80	2.00	1.80	1.50	
11	3.50	3.70	3.80	3.40	3.30	3.20	12.80	4.20	2.80	2.30	1.70	1.48	
12	3.60	3.30	4.40	3.40	3.10	3.20	8.50	4.30	2.80	2.40	1.70	1.48	
13	3.50	3.10	4.30	3.40	2.90	3.20	7.30	3.90	2.70	2.40	1.70	1.48	
14	3.40	3.10	3.70	3.40	3.00	3.20	5.95	3.60	2.80	2.40	1.60	1.48	
15	3.50	4.00	3.50	3.40	2.90	3.90	5.00	3.50	3.00	2.40	1.60	1.45	
16	3.60	3.90	3.40	3.30	2.70	5.40	4.30	3.40	3.20	2.40	1.60	1.48	
17	3.70	3.90	3.50	3.20	2.60	6.85	4.20	3.40	3.60	2.30	1.50	1.70	
18	3.40	4.20	3.60	3.00	2.60	9.70	4.00	3.30	4.00	2.10	1.60	1.70	
19	3.20	3.60	3.70	2.90	2.60	5.30	3.90	3.40	4.30	2.00	1.60	1.70	
20	2.90	3.30	3.70	2.80	2.80	4.20	4.00	3.40	3.80	2.00	1.60	1.60	
21	2.80	3.20	3.60	3.10	2.90	5.40	4.70	3.10	4.00	2.10	1.50	1.50	
22	2.70	3.80	3.60	3.90	2.90	9.85	4.20	3.10	3.70	2.10	1.50	1.50	
23	3.30	4.70	3.60	3.60	3.00	20.25	4.00	3.10	3.10	2.10	1.48	1.48	
24	3.20	4.80	3.60	3.30	3.00	11.60	4.00	3.10	2.90	2.00	1.48	1.45	
25	3.10	4.60	3.80	3.20	3.10	9.85	4.10	3.10	2.70	2.00	1.45	1.43	
26	2.90	4.60	3.90	3.10	3.10	5.80	4.30	3.10	2.60	1.90	1.45	1.43	
27	2.80	5.00	4.00	3.20	3.00	4.90	4.40	3.00	2.50	1.80	1.48	1.40	
28	2.70	4.70	3.60	3.10	2.80	5.30	4.60	3.00	2.50	2.00	1.60	1.40	
29	2.80	5.20	3.40	3.00	2.90	5.20	4.60	3.00	2.50	2.20	1.60	1.38	
30	5.40	8.80	3.30	2.80	3.00	4.60	4.20	2.90	2.50	2.20		1.38	
31		9.55		2.70	3.00		3.80		2.50	2.20		1.35	
<b>Total</b>	<b>98.00</b>	<b>131.55</b>	<b>128.65</b>	<b>104.90</b>	<b>92.30</b>	<b>166.30</b>	<b>178.80</b>	<b>106.50</b>	<b>97.00</b>	<b>66.20</b>	<b>49.84</b>	<b>46.29</b>	<b>1266.33</b> CMSDAY
<b>Mean</b>	<b>3.27</b>	<b>4.24</b>	<b>4.29</b>	<b>3.38</b>	<b>2.98</b>	<b>5.54</b>	<b>5.77</b>	<b>3.55</b>	<b>3.13</b>	<b>2.14</b>	<b>1.72</b>	<b>1.49</b>	<b>3.46</b> CMS
<b>Max</b>	<b>5.40</b>	<b>9.55</b>	<b>10.60</b>	<b>4.70</b>	<b>3.50</b>	<b>20.25</b>	<b>15.80</b>	<b>4.30</b>	<b>4.30</b>	<b>2.40</b>	<b>2.20</b>	<b>1.70</b>	<b>20.25</b> CMS
<b>Min</b>	<b>2.70</b>	<b>2.90</b>	<b>3.30</b>	<b>2.70</b>	<b>2.60</b>	<b>3.20</b>	<b>3.80</b>	<b>2.90</b>	<b>2.50</b>	<b>1.80</b>	<b>1.45</b>	<b>1.35</b>	<b>1.35</b> CMS
<b>Runoff</b>	<b>8.47</b>	<b>11.37</b>	<b>11.12</b>	<b>9.06</b>	<b>7.97</b>	<b>14.37</b>	<b>15.45</b>	<b>9.20</b>	<b>8.38</b>	<b>5.72</b>	<b>4.31</b>	<b>4.00</b>	<b>109.41</b> MCM
<b>Momentary Peak</b>	<b>21.90</b>	CMS, at 6.83 m. (MSL.), at 04.00 Hours, on Sep 23, 2019											
<b>Runoff Yield</b>	<b>2.84</b>	Liters/Second/Square KM.											
					<b>Momentary Peak Yield</b>	<b>17.95</b>	Liters/Second/Square KM.						



## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Wang Suan Luang at Ban Pra Gad , Chanthaburi (Z.63)

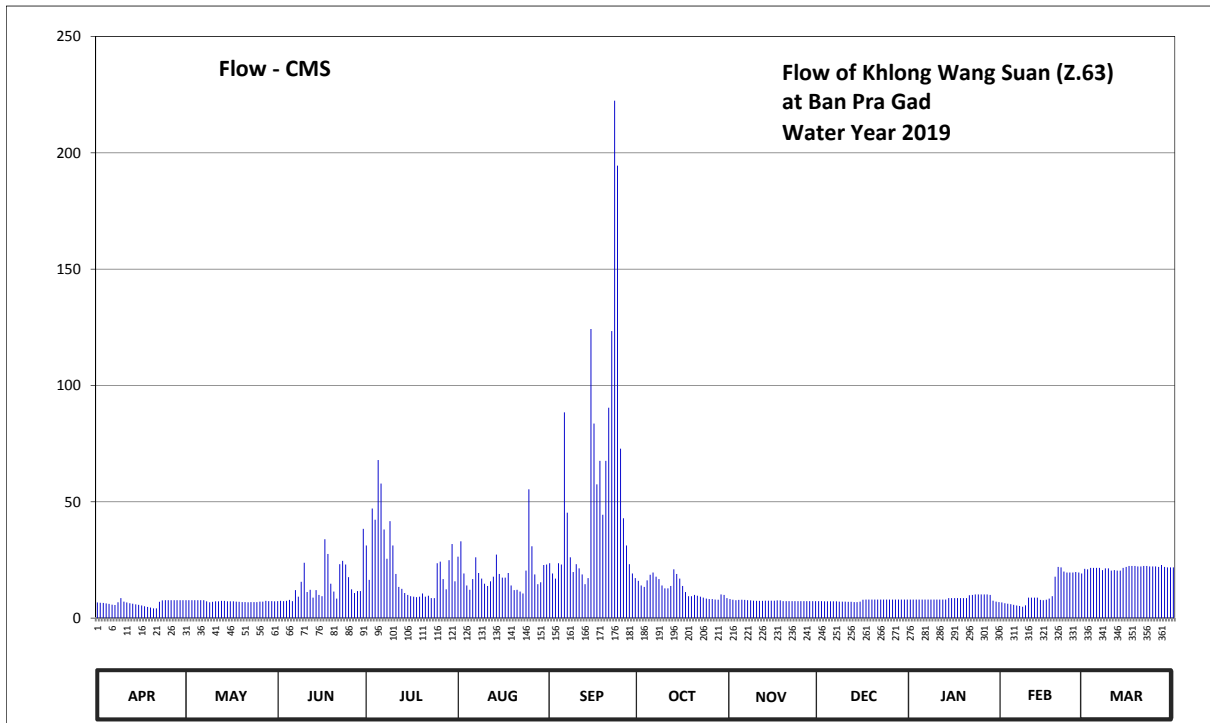
Lat 12 - 56 - 47 N Long 101 - 52 - 30 E

Location : on right bank at the bridge on highway.

	<b>Ban Pra Gad</b>	<b>Amphoe</b> Kaeng Hang Maeo	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	1,106 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+7.000 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (A.D.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.17	1.27	1.23	2.34	2.18	2.08	1.70	1.31	1.23	1.30	1.17	1.96	
2	1.16	1.27	1.24	1.72	2.40	1.86	1.60	1.29	1.23	1.30	1.14	1.95	
3	1.15	1.27	1.23	2.87	1.86	1.75	1.57	1.27	1.22	1.30	1.12	1.98	
4	1.13	1.27	1.24	2.71	1.60	2.08	1.71	1.28	1.22	1.30	1.10	1.98	
5	1.11	1.27	1.28	3.47	1.51	2.05	1.83	1.29	1.22	1.30	1.07	1.98	
6	1.08	1.27	1.23	3.18	1.74	4.01	1.88	1.28	1.22	1.30	1.04	1.98	
7	1.06	1.27	1.50	2.57	2.17	2.81	1.79	1.27	1.22	1.30	1.02	1.93	
8	1.18	1.22	1.36	2.15	1.87	2.17	1.74	1.26	1.21	1.30	0.99	1.97	
9	1.33	1.18	1.68	2.69	1.75	1.89	1.60	1.25	1.21	1.30	1.05	1.97	
10	1.21	1.20	2.09	2.34	1.64	2.06	1.54	1.24	1.21	1.30	1.34	1.92	
11	1.17	1.22	1.46	1.85	1.59	1.97	1.54	1.24	1.20	1.30	1.34	1.93	
12	1.14	1.22	1.51	1.57	1.69	1.84	1.59	1.24	1.20	1.30	1.34	1.92	
13	1.12	1.24	1.34	1.53	1.79	1.63	1.95	1.25	1.19	1.30	1.34	1.92	
14	1.09	1.24	1.50	1.44	2.21	1.76	1.85	1.25	1.19	1.33	1.28	1.98	
15	1.07	1.22	1.40	1.40	1.85	4.85	1.75	1.25	1.21	1.33	1.27	2.00	
16	1.04	1.22	1.37	1.37	1.77	3.89	1.59	1.25	1.29	1.33	1.29	2.02	
17	1.01	1.22	2.43	1.36	1.77	3.17	1.46	1.26	1.30	1.33	1.32	2.02	
18	0.98	1.21	2.22	1.35	1.87	3.46	1.37	1.26	1.30	1.33	1.37	2.02	
19	0.95	1.20	1.64	1.36	1.60	2.78	1.37	1.23	1.30	1.33	1.79	2.01	
20	0.92	1.19	1.47	1.43	1.50	3.46	1.40	1.23	1.30	1.33	2.00	2.01	
21	0.92	1.19	1.32	1.36	1.51	4.06	1.38	1.23	1.30	1.39	1.99	2.02	
22	1.20	1.18	2.06	1.38	1.47	4.83	1.36	1.23	1.30	1.40	1.90	2.02	
23	1.26	1.19	2.12	1.33	1.43	6.78	1.34	1.23	1.30	1.41	1.88	2.01	
24	1.27	1.19	2.05	1.33	1.92	6.27	1.32	1.23	1.30	1.41	1.88	2.01	
25	1.27	1.19	1.78	2.08	3.11	3.61	1.31	1.23	1.30	1.41	1.88	2.01	
26	1.27	1.21	1.52	2.11	2.33	2.73	1.31	1.23	1.30	1.41	1.89	2.00	
27	1.27	1.21	1.44	1.74	1.84	2.34	1.30	1.23	1.30	1.41	1.88	2.04	
28	1.27	1.24	1.48	1.52	1.63	2.06	1.29	1.23	1.30	1.40	1.86	2.00	
29	1.27	1.23	1.48	2.13	1.67	1.86	1.41	1.23	1.30	1.25	1.95	1.99	
30	1.27	1.23	2.58	2.36	2.04	1.76	1.40	1.23	1.30	1.21	1.99	1.99	
31		1.22		1.69	2.05		1.33		1.30	1.19		1.99	
Mean	1.14	1.22	1.61	1.93	1.85	2.93	1.53	1.25	1.26	1.33	1.47	1.98	
Max	1.33	1.27	2.58	3.47	3.11	6.78	1.95	1.31	1.30	1.41	2.00	2.04	6.78
Min	0.92	1.18	1.23	1.33	1.43	1.63	1.29	1.23	1.19	1.19	0.99	1.92	0.92
Annual Max Momentary Gage Height	6.89												at 22.00 Hours, on Sep 23, 2019
Zero Gage at Bottom Elevation	0.00						River Bed 1.78						m. (A.D.)
Left Bank Elevation		11.16											m. (A.D.)
Right Bank Elevation		11.19					Drainage Are 1,106						Square Kilometers



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.70	7.70	7.30	31.20	26.40	23.60	16.00	8.20	7.30	8.00	6.70	21.20	
2	6.60	7.70	7.40	16.40	33.00	19.20	14.00	7.90	7.30	8.00	6.40	21.00	
3	6.50	7.70	7.30	47.10	19.20	17.00	13.40	7.70	7.20	8.00	6.20	21.60	
4	6.30	7.70	7.40	42.30	14.00	23.60	16.20	7.80	7.20	8.00	6.00	21.60	
5	6.10	7.70	7.80	67.95	12.20	23.00	18.60	7.90	7.20	8.00	5.70	21.60	
6	5.80	7.70	7.30	57.80	16.80	88.40	19.60	7.80	7.20	8.00	5.40	21.60	
7	5.60	7.70	12.00	38.10	26.10	45.30	17.80	7.70	7.20	8.00	5.20	20.60	
8	6.80	7.20	9.20	25.50	19.40	26.10	16.80	7.60	7.10	8.00	4.90	21.40	
9	8.60	6.80	15.60	41.70	17.00	19.80	14.00	7.50	7.10	8.00	5.50	21.40	
10	7.10	7.00	23.80	31.20	14.80	23.20	12.80	7.40	7.10	8.00	8.80	20.40	
11	6.70	7.20	11.20	19.00	13.80	21.40	12.80	7.40	7.00	8.00	8.80	20.60	
12	6.40	7.20	12.20	13.40	15.80	18.80	13.80	7.40	7.00	8.00	8.80	20.40	
13	6.20	7.40	8.80	12.60	17.80	14.60	21.00	7.50	6.90	8.00	8.80	20.40	
14	5.90	7.40	12.00	10.80	27.30	17.20	19.00	7.50	6.90	8.60	7.80	21.60	
15	5.70	7.20	10.00	10.00	19.00	124.25	17.00	7.50	7.10	8.60	7.70	22.00	
16	5.40	7.20	9.40	9.40	17.40	83.60	13.80	7.50	7.90	8.60	7.90	22.40	
17	5.10	7.20	33.90	9.20	17.40	57.45	11.20	7.60	8.00	8.60	8.40	22.40	
18	4.80	7.10	27.60	9.00	19.40	67.60	9.40	7.60	8.00	8.60	9.40	22.40	
19	4.50	7.00	14.80	9.20	14.00	44.40	9.40	7.30	8.00	8.60	17.80	22.20	
20	4.20	6.90	11.40	10.60	12.00	67.60	10.00	7.30	8.00	8.60	22.00	22.20	
21	4.20	6.90	8.40	9.20	12.20	90.40	9.60	7.30	8.00	9.80	21.80	22.40	
22	7.00	6.80	23.20	9.60	11.40	123.35	9.20	7.30	8.00	10.00	20.00	22.40	
23	7.60	6.90	24.60	8.60	10.60	222.40	8.80	7.30	8.00	10.20	19.60	22.20	
24	7.70	6.90	23.00	8.60	20.40	194.50	8.40	7.30	8.00	10.20	19.60	22.20	
25	7.70	6.90	17.60	23.60	55.35	72.85	8.20	7.30	8.00	10.20	19.60	22.20	
26	7.70	7.10	12.40	24.30	30.90	42.90	8.20	7.30	8.00	10.20	19.80	22.00	
27	7.70	7.10	10.80	16.80	18.80	31.20	8.00	7.30	8.00	10.20	19.60	22.80	
28	7.70	7.40	11.60	12.40	14.60	23.20	7.90	7.30	8.00	10.00	19.20	22.00	
29	7.70	7.30	11.60	24.90	15.40	19.20	10.20	7.30	8.00	7.50	21.00	21.80	
30	7.70	7.30	38.40	31.80	22.80	17.20	10.00	7.30	8.00	7.10		21.80	
31		7.20		15.80	23.00		8.60		8.00	6.90		21.80	
Total	193.70	224.50	438.00	698.05	608.25	1663.30	393.70	225.10	234.70	266.50	348.40	672.60	5966.80 CMSDAY
Mean	6.46	7.24	14.60	22.52	19.62	55.44	12.70	7.50	7.57	8.60	12.01	21.70	16.30 CMS
Max	8.60	7.70	38.40	67.95	55.35	222.40	21.00	8.20	8.00	10.20	22.00	22.80	222.40 CMS
Min	4.20	6.80	7.30	8.60	10.60	14.60	7.90	7.30	6.90	4.90	20.40	4.20	4.20 CMS
Runoff	16.74	19.40	37.84	60.31	52.55	143.71	34.02	19.45	20.28	23.03	30.10	58.11	515.53 MCM
Momentary Peak		228.45	CMS, at 6.89 m. (A.D.), at 22.00 Hours, on Sep 23, 2019										
Runoff Yield		14.67	Liters/Second/Square KM.		Momentary Peak Yield	205.04	Liters/Second/Square KM.						

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Tha Luang , Chanthaburi (Z.64)

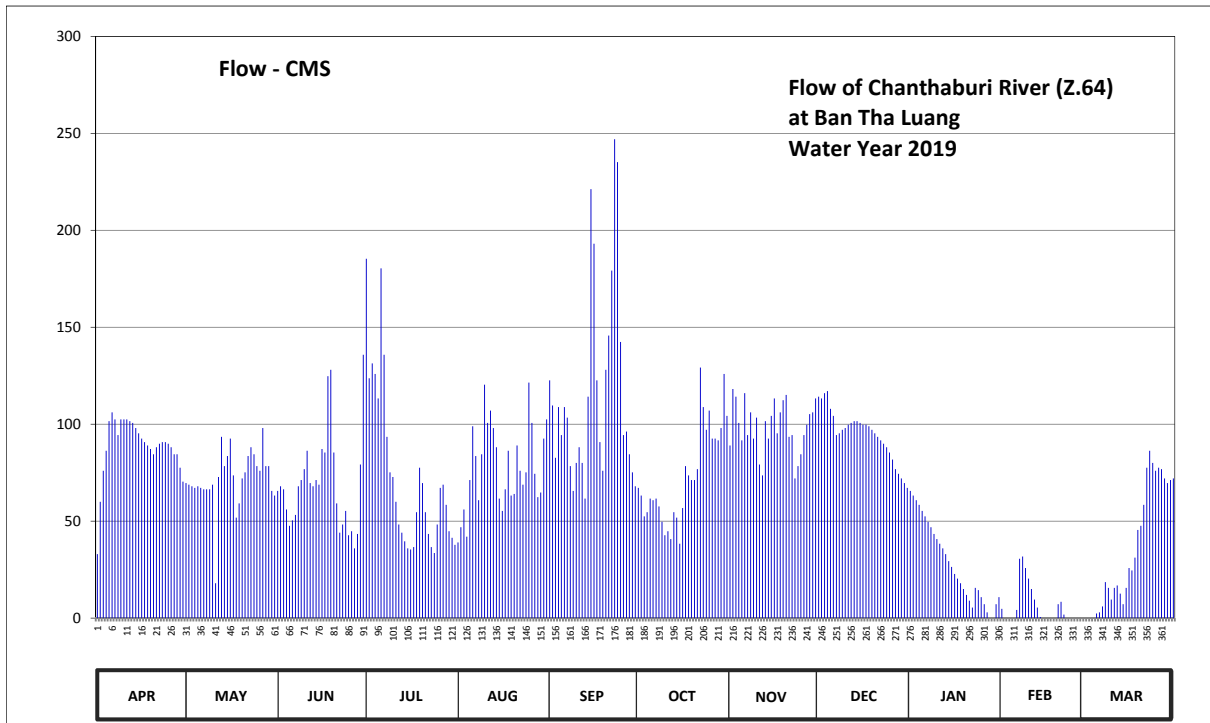
Lat 12 - 39 - 26 N Long 102 - 09 - 15 E

Location : on right bank at the bridge on highway.

	Ban Tha Luang	Amphoe Makham	Changwat Chanthaburi
<b>Drainage Area</b>	968 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the gage site.	<b>Elevation</b>	+9.000 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (A.D.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.95	3.47	3.42	4.61	3.05	4.06	3.44	3.70	3.98	3.42	2.48	2.29	
2	3.35	3.46	3.45	4.07	3.17	3.93	3.39	4.02	3.97	3.39	2.40	2.22	
3	3.55	3.45	3.43	4.14	3.30	3.63	3.25	3.98	4.00	3.36	2.32	2.15	
4	3.67	3.44	3.30	4.09	3.10	3.92	3.28	3.83	4.01	3.33	2.24	2.27	
5	3.84	3.45	3.18	3.97	3.49	3.76	3.37	3.73	3.91	3.29	2.18	2.44	
6	3.89	3.44	3.22	4.57	3.81	3.92	3.36	4.00	3.87	3.25	2.47	2.45	
7	3.85	3.43	3.26	4.18	3.64	3.86	3.37	3.76	3.76	3.21	2.91	2.50	
8	3.76	3.43	3.45	3.75	3.36	3.58	3.32	3.89	3.77	3.17	2.93	2.71	
9	3.85	3.43	3.49	3.54	3.65	3.42	3.21	3.74	3.79	3.12	2.83	2.66	
10	3.85	3.46	3.56	3.51	4.04	3.60	3.11	3.86	3.80	3.08	2.74	2.56	
11	3.85	2.70	3.67	3.35	3.83	3.69	3.14	3.59	3.82	3.04	2.65	2.66	
12	3.84	3.51	3.47	3.19	3.90	3.60	3.08	3.52	3.83	3.00	2.56	2.68	
13	3.83	3.75	3.45	3.13	3.80	3.37	3.28	3.84	3.84	2.95	2.49	2.61	
14	3.80	3.58	3.49	3.06	3.69	3.98	3.24	3.74	3.84	2.89	2.41	2.52	
15	3.77	3.64	3.46	3.00	3.37	4.88	3.04	3.87	3.83	2.84	2.32	2.66	
16	3.74	3.74	3.68	2.99	3.29	4.67	3.31	3.97	3.82	2.78	2.24	2.83	
17	3.72	3.52	3.66	3.01	3.43	4.06	3.58	3.77	3.82	2.74	2.16	2.81	
18	3.70	3.24	4.08	3.28	3.67	3.72	3.52	3.89	3.81	2.70	2.14	2.92	
19	3.68	3.34	4.11	3.57	3.39	3.55	3.49	3.96	3.79	2.65	2.12	3.15	
20	3.65	3.50	3.66	3.47	3.40	4.11	3.49	3.99	3.77	2.60	2.52	3.18	
21	3.69	3.54	3.34	3.28	3.70	4.27	3.56	3.75	3.75	2.55	2.54	3.33	
22	3.71	3.64	3.13	3.12	3.55	4.56	4.12	3.76	3.73	2.49	2.43	3.57	
23	3.72	3.69	3.19	3.01	3.46	5.06	3.92	3.50	3.71	2.66	2.34	3.67	
24	3.72	3.65	3.29	2.96	3.54	4.98	3.79	3.58	3.69	2.64	2.24	3.60	
25	3.71	3.58	3.11	3.19	4.05	4.24	3.90	3.65	3.66	2.58	2.16	3.55	
26	3.69	3.55	3.14	3.44	3.83	3.76	3.74	3.76	3.62	2.52	2.17	3.57	
27	3.65	3.80	3.00	3.46	3.53	3.78	3.74	3.82	3.56	2.45	2.33	3.56	
28	3.65	3.58	3.12	3.33	3.38	3.65	3.73	3.88	3.53	2.38	2.26	3.50	
29	3.57	3.58	3.59	3.14	3.41	3.54	3.80	3.89	3.50	2.33	2.21	3.47	
30	3.48	3.42	4.18	3.09	3.74	3.45	4.09	3.97	3.47	2.52	2.12	3.49	
31		3.39		3.03	3.85		3.87		3.44	2.58		3.50	
Mean	3.69	3.50	3.45	3.47	3.56	3.95	3.50	3.81	3.76	2.86	2.41	2.94	
Max	3.89	3.80	4.18	4.61	4.05	5.06	4.12	4.02	4.01	3.42	2.93	3.67	5.06
Min	2.95	2.70	3.00	2.96	3.05	3.37	3.04	3.50	3.44	2.33	2.12	2.15	2.12
Annual Max Momentary Gage Height	5.14												at 22.00 Hours, on Sep 23, 2019
Zero Gage at Bottom Elevation	0.00												River Bed -2.39 m. (A.D.)
Left Bank Elevation		7.46											m. (A.D.)
Right Bank Elevation		7.90											Drainage Area 968 Square Kilometers



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.00	69.60	65.60	185.30	39.00	122.60	67.20	89.00	114.20	65.60	4.80	0.00	
2	60.00	68.80	68.00	123.70	46.90	109.70	63.20	118.20	113.30	63.20	0.00	0.00	
3	76.00	68.00	66.40	131.40	56.00	82.70	52.50	114.20	116.00	60.80	0.00	0.00	
4	86.30	67.20	56.00	125.90	42.00	108.80	54.60	100.70	117.10	58.40	0.00	0.00	
5	101.60	68.00	47.60	113.30	71.20	94.40	61.60	91.70	107.90	55.30	0.00	2.40	
6	106.10	67.20	50.40	180.40	98.90	108.80	60.80	116.00	104.30	52.50	4.20	3.00	
7	102.50	66.40	53.20	135.80	83.60	103.40	61.60	94.40	94.40	49.70	30.60	6.00	
8	94.40	66.40	68.00	93.50	60.80	78.40	57.60	106.10	95.30	46.90	31.80	18.60	
9	102.50	66.40	71.20	75.20	84.50	65.60	49.70	92.60	97.10	43.40	25.80	15.60	
10	102.50	68.80	76.80	72.80	120.40	80.00	42.70	103.40	98.00	40.80	20.40	9.60	
11	102.50	18.00	86.30	60.00	100.70	88.10	44.80	79.20	99.80	38.40	15.00	15.60	
12	101.60	72.80	69.60	48.30	107.00	80.00	40.80	73.60	100.70	36.00	9.60	16.80	
13	100.70	93.50	68.00	44.10	98.00	61.60	54.60	101.60	101.60	33.00	5.40	12.60	
14	98.00	78.40	71.20	39.60	88.10	114.20	51.80	92.60	101.60	29.40	0.60	7.20	
15	95.30	83.60	68.80	36.00	61.60	221.20	38.40	104.30	100.70	26.40	0.00	15.60	
16	92.60	92.60	87.20	35.40	55.30	193.10	56.80	113.30	99.80	22.80	0.00	25.80	
17	90.80	73.60	85.40	36.60	66.40	122.60	78.40	95.30	99.80	20.40	0.00	24.60	
18	89.00	51.80	124.80	54.60	86.30	90.80	73.60	106.10	98.90	18.00	0.00	31.20	
19	87.20	59.20	128.10	77.60	63.20	76.00	71.20	112.40	97.10	15.00	0.00	45.50	
20	84.50	72.00	85.40	69.60	64.00	128.10	71.20	115.10	95.30	12.00	7.20	47.60	
21	88.10	75.20	59.20	54.60	89.00	145.70	76.80	93.50	93.50	9.00	8.40	58.40	
22	89.90	83.60	44.10	43.40	76.00	179.20	129.20	94.40	91.70	5.40	1.80	77.60	
23	90.80	88.10	48.30	36.60	68.80	247.00	108.80	72.00	89.90	15.60	0.00	86.30	
24	90.80	84.50	55.30	33.60	75.20	235.20	97.10	78.40	88.10	14.40	0.00	80.00	
25	89.90	78.40	42.70	48.30	121.50	142.40	107.00	84.50	85.40	10.80	0.00	76.00	
26	88.10	76.00	44.80	67.20	100.70	94.40	92.60	94.40	81.80	7.20	0.00	77.60	
27	84.50	98.00	36.00	68.80	74.40	96.20	92.60	99.80	76.80	3.00	0.00	76.80	
28	84.50	78.40	43.40	58.40	62.40	84.50	91.70	105.20	74.40	0.00	0.00	72.00	
29	77.60	78.40	79.20	44.80	64.80	75.20	98.00	106.10	72.00	0.00	0.00	69.60	
30	70.40	65.60	135.80	41.40	92.60	68.00	125.90	113.30	69.60	7.20		71.20	
31		63.20		37.80	102.50		104.30		67.20	10.80		72.00	
Total	2661.70	2241.70	2086.80	2274.00	2421.80	3497.90	2277.10	2961.40	2943.30	871.40	165.60	1115.20	25517.90 CMSDAY
Mean	88.72	72.31	69.56	73.35	78.12	116.60	73.45	98.71	94.95	28.11	5.71	35.97	69.72 CMS
Max	106.10	98.00	135.80	185.30	121.50	247.00	129.20	118.20	117.10	65.60	31.80	86.30	247.00 CMS
Min	33.00	18.00	36.00	33.60	39.00	61.60	38.40	72.00	67.20	0.00	0.00	0.00	0.00 CMS
Runoff	229.97	193.68	180.30	196.47	209.24	302.22	196.74	255.86	254.30	75.29	14.31	96.35	2204.75 MCM
Momentary Peak	259.00	CMS, at 5.14 m. (A.D.), at 22.00 Hours, on Sep 23, 2019											
Runoff Yield	71.54	Liters/Second/Square KM.			Momentary Peak Yield	265.02	Liters/Second/Square KM.						

## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)

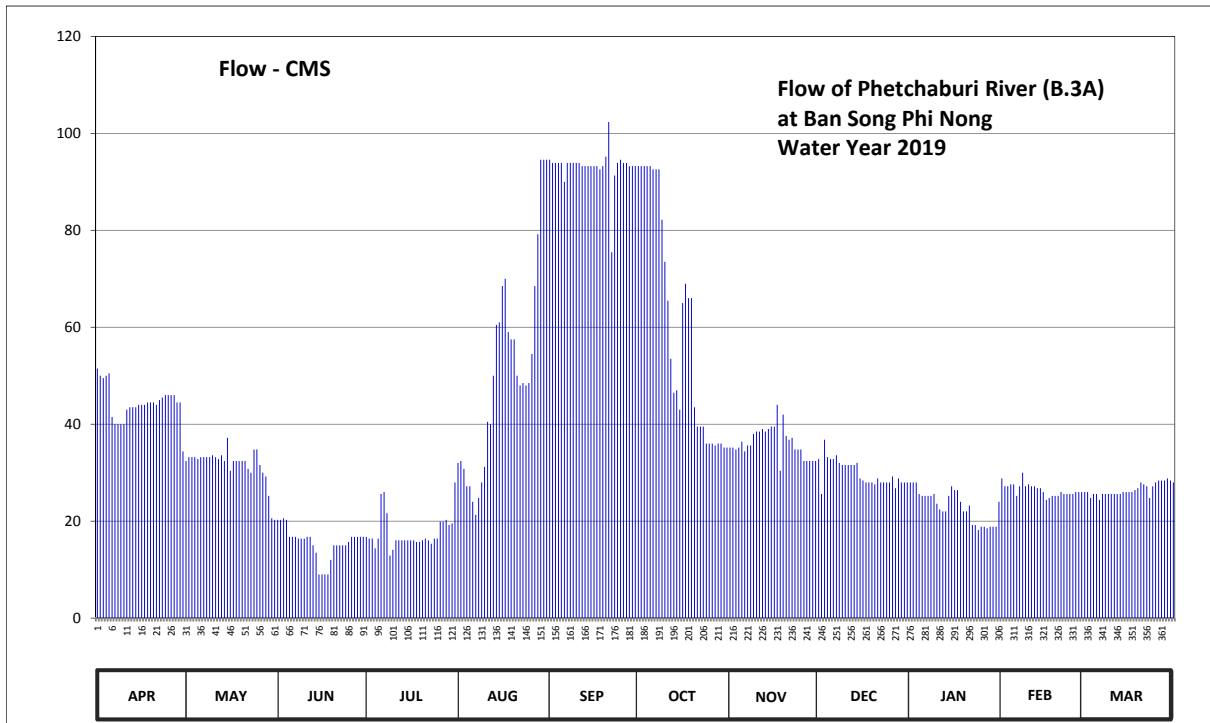
Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	<b>Ban</b>	<b>Song Phi Nong</b>	<b>Amphoe</b>	<b>Kaeng Krachan</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	2,244	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+41.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 24 meters from the top staff gage.				<b>Elevation</b>	+49.188 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1930 - 1942 , 1954 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1954 - 1959 , 1968 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1954 - 1959 , 1968 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Flow regulated by Kaeng Krachan Reservoir. Stage-discharge relation defined by 35 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.77	42.36	42.05	41.95	42.35	43.57	43.55	42.43	42.37	42.25	42.27	42.20	
2	42.74	42.38	42.05	41.94	42.36	43.56	43.55	42.43	42.19	42.25	42.23	42.20	
3	42.73	42.38	42.06	41.94	42.32	43.56	43.55	42.42	42.47	42.25	42.23	42.17	
4	42.74	42.38	42.05	41.88	42.23	43.56	43.55	42.43	42.38	42.19	42.24	42.19	
5	42.75	42.37	41.95	41.94	42.23	43.56	43.55	42.46	42.37	42.18	42.24	42.19	
6	42.57	42.38	41.95	42.19	42.15	43.50	43.54	42.41	42.37	42.18	42.18	42.16	
7	42.54	42.38	41.95	42.20	42.08	43.56	43.54	42.44	42.39	42.18	42.23	42.19	
8	42.54	42.38	41.94	42.09	42.17	43.56	43.54	42.44	42.35	42.18	42.30	42.19	
9	42.54	42.38	41.94	41.83	42.25	43.56	43.37	42.50	42.34	42.19	42.23	42.19	
10	42.54	42.39	41.94	41.87	42.33	43.56	43.21	42.51	42.34	42.14	42.24	42.19	
11	42.60	42.38	41.95	41.93	42.55	43.56	43.05	42.51	42.34	42.11	42.23	42.19	
12	42.61	42.37	41.95	41.93	42.54	43.55	42.81	42.52	42.34	42.10	42.23	42.19	
13	42.61	42.39	41.90	41.93	42.74	43.55	42.67	42.51	42.34	42.10	42.22	42.19	
14	42.61	42.36	41.85	41.93	42.95	43.55	42.68	42.52	42.35	42.18	42.22	42.20	
15	42.62	42.48	41.68	41.93	42.96	43.55	42.60	42.53	42.27	42.23	42.20	42.20	
16	42.62	42.31	41.68	41.93	43.11	43.55	43.04	42.53	42.26	42.21	42.16	42.20	
17	42.62	42.36	41.68	41.93	43.14	43.55	43.12	42.62	42.25	42.21	42.17	42.20	
18	42.63	42.36	41.68	41.92	42.92	43.54	43.06	42.31	42.25	42.15	42.18	42.21	
19	42.63	42.36	41.80	41.92	42.89	43.55	43.06	42.58	42.25	42.10	42.18	42.22	
20	42.63	42.36	41.90	41.93	42.89	43.58	42.61	42.49	42.24	42.10	42.18	42.25	
21	42.62	42.36	41.90	41.94	42.74	43.69	42.53	42.47	42.27	42.13	42.20	42.24	
22	42.64	42.32	41.90	41.93	42.70	43.25	42.53	42.48	42.25	42.02	42.19	42.23	
23	42.65	42.30	41.90	41.91	42.71	43.52	42.53	42.42	42.25	42.02	42.19	42.17	
24	42.66	42.42	41.90	41.94	42.70	43.56	42.45	42.42	42.25	41.99	42.19	42.23	
25	42.66	42.42	41.92	41.94	42.71	43.57	42.45	42.42	42.25	42.01	42.19	42.25	
26	42.66	42.34	41.95	42.04	42.83	43.56	42.45	42.36	42.28	42.01	42.20	42.26	
27	42.66	42.30	41.95	42.04	43.11	43.56	42.44	42.36	42.22	42.00	42.20	42.26	
28	42.63	42.28	41.95	42.05	43.32	43.55	42.45	42.36	42.27	42.01	42.20	42.26	
29	42.63	42.18	41.95	42.02	43.57	43.55	42.45	42.36	42.25	42.01	42.20	42.27	
30	42.41	42.06	41.95	42.03	43.57	43.55	42.43	42.36	42.25	42.01	42.26	42.26	
31		42.05		42.25	43.57		42.43		42.25	42.15	42.25	42.25	
Mean	42.63	42.34	41.91	41.97	42.73	43.55	42.93	42.45	42.30	42.12	42.21	42.21	
Max	42.77	42.48	42.06	42.25	43.57	43.69	43.55	42.62	42.47	42.25	42.30	42.27	43.69
Min	42.41	42.05	41.68	41.83	42.08	43.25	42.43	42.31	42.19	41.99	42.16	42.16	41.68
Annual Max Momentary Gage Height	44.07		m. (MSL.) ,				at 19.00 Hours ,						
Zero Gage at Bottom Elevation	41.00		m. (MSL.) ,				River Bed 40.49		m. (MSL.)				
Left Bank Elevation		49.00		m. (MSL.) ,									
Right Bank Elevation		49.02		m. (MSL.) ,		Drainage Are	2,244		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.50	32.40	20.25	16.75	32.00	94.55	93.25	35.20	32.80	28.00	28.80	26.00	
2	50.00	33.20	20.25	16.40	32.40	93.90	93.25	35.20	25.60	28.00	27.20	26.00	
3	49.50	33.20	20.60	16.40	30.80	93.90	93.25	34.80	36.80	28.00	27.20	24.80	
4	50.00	33.20	20.25	14.40	27.20	93.90	93.25	35.20	33.20	25.60	27.60	25.60	
5	50.50	32.80	16.75	16.40	27.20	93.90	93.25	36.40	32.80	25.20	27.60	25.60	
6	41.50	33.20	16.75	25.60	24.00	90.00	92.60	34.40	32.80	25.20	25.20	24.40	
7	40.00	33.20	16.75	26.00	21.30	93.90	92.60	35.60	33.60	25.20	27.20	25.60	
8	40.00	33.20	16.40	21.65	24.80	93.90	92.60	35.60	32.00	25.20	30.00	25.60	
9	40.00	33.20	16.40	12.90	28.00	93.90	82.20	38.00	31.60	25.60	27.20	25.60	
10	40.00	33.60	16.40	14.10	31.20	93.90	73.50	38.50	31.60	23.60	27.60	25.60	
11	43.00	33.20	16.75	16.05	40.50	93.90	65.50	38.50	31.60	22.40	27.20	25.60	
12	43.50	32.80	16.75	16.05	40.00	93.25	53.50	39.00	31.60	22.00	27.20	25.60	
13	43.50	33.60	15.00	16.05	50.00	93.25	46.50	38.50	31.60	22.00	26.80	25.60	
14	43.50	32.40	13.50	16.05	60.50	93.25	47.00	39.00	32.00	25.20	26.80	26.00	
15	44.00	37.20	9.00	16.05	61.00	93.25	43.00	39.50	28.80	27.20	26.00	26.00	
16	44.00	30.40	9.00	16.05	68.50	93.25	65.00	39.50	28.40	26.40	24.40	26.00	
17	44.00	32.40	9.00	16.05	70.00	93.25	69.00	44.00	28.00	26.40	24.80	26.00	
18	44.50	32.40	9.00	15.70	59.00	92.60	66.00	30.40	28.00	24.00	25.20	26.40	
19	44.50	32.40	12.00	15.70	57.50	93.25	66.00	42.00	28.00	22.00	25.20	26.80	
20	44.50	32.40	15.00	16.05	57.50	95.20	43.50	37.60	27.60	22.00	25.20	28.00	
21	44.00	32.40	15.00	16.40	50.00	102.35	39.50	36.80	28.80	23.20	26.00	27.60	
22	45.00	30.80	15.00	16.05	48.00	75.50	39.50	37.20	28.00	19.20	25.60	27.20	
23	45.50	30.00	15.00	15.35	48.50	91.30	39.50	34.80	28.00	19.20	25.60	24.80	
24	46.00	34.80	15.00	16.40	48.00	93.90	36.00	34.80	28.00	18.15	25.60	27.20	
25	46.00	34.80	15.70	16.40	48.50	94.55	36.00	34.80	28.00	18.85	25.60	28.00	
26	46.00	31.60	16.75	19.90	54.50	93.90	36.00	32.40	29.20	18.85	26.00	28.40	
27	46.00	30.00	16.75	19.90	68.50	93.90	35.60	32.40	26.80	18.50	26.00	28.40	
28	44.50	29.20	16.75	20.25	79.20	93.25	36.00	32.40	28.80	18.85	26.00	28.40	
29	44.50	25.20	16.75	19.20	94.55	93.25	36.00	32.40	28.00	18.85	26.00	28.80	
30	34.40	20.60	16.75	19.55	94.55	93.25	35.20	32.40	28.00	18.85		28.40	
31		20.25		28.00	94.55		35.20		28.00	24.00		28.00	
Total	1333.90	980.05	465.25	547.80	1572.25	2795.35	1869.25	1087.30	928.00	715.70	766.80	822.00	13883.65 CMSDAY
Mean	44.46	31.61	15.51	17.67	50.72	93.18	60.30	36.24	29.94	23.09	26.44	26.52	37.93 CMS
Max	51.50	37.20	20.60	28.00	94.55	102.35	93.25	44.00	36.80	28.00	30.00	28.80	102.35 CMS
Min	34.40	20.25	9.00	12.90	21.30	75.50	35.20	30.40	25.60	18.15	24.40	24.40	9.00 CMS
Runoff	115.25	84.68	40.20	47.33	135.84	241.52	161.50	93.94	80.18	61.84	66.25	71.02	1199.55 MCM
Momentary Peak		129.95 CMS.		at 44.07 m. (MSL.)		at 19.00 Hours		on Sep 21, 2019					
Runoff Yield		16.95		Liters/Second/Square KM.		Momentary Peak Yield	57.91		Liters/Second/Square KM.				

## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan) , Phetchaburi (B.6A)

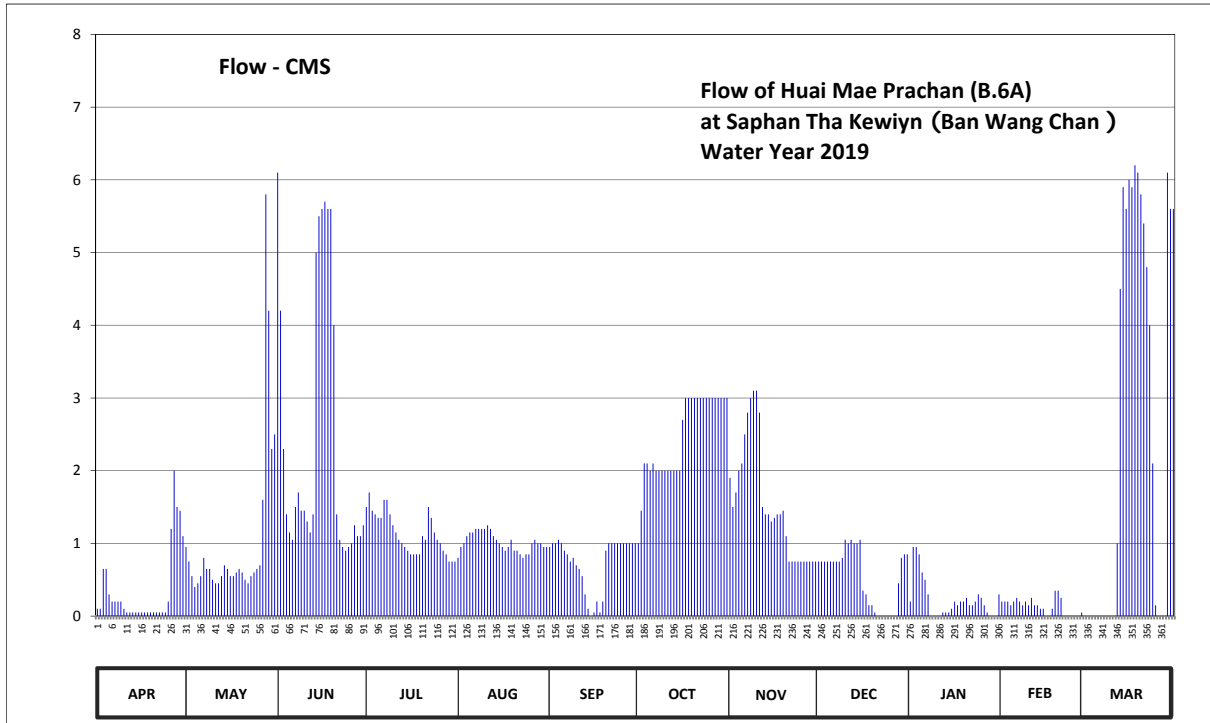
Lat 12 - 57 - 50 N Long 99 - 45 - 52 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	<b>Ban</b> Saphan Tha Kewiyn(Ban Wang Chan)	<b>Amphoe</b> Kaeng Krachan	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	1,003 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+26.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage buiding.	<b>Elevation</b>	+37.402 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2017 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2017 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	2017 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.22	27.39	27.96	27.50	27.36	27.39	27.40	27.54	27.35	27.24	27.24	27.15	
2	27.22	27.35	27.77	27.52	27.39	27.40	27.49	27.50	27.35	27.39	27.24	27.14	
3	27.33	27.31	27.58	27.49	27.40	27.40	27.56	27.52	27.35	27.39	27.24	27.14	
4	27.33	27.28	27.48	27.48	27.42	27.41	27.56	27.55	27.35	27.37	27.23	27.09	
5	27.26	27.29	27.43	27.47	27.43	27.40	27.55	27.56	27.35	27.32	27.24	27.04	
6	27.24	27.31	27.41	27.47	27.43	27.38	27.56	27.60	27.35	27.30	27.25	27.02	
7	27.24	27.36	27.50	27.51	27.44	27.37	27.55	27.63	27.35	27.26	27.24	27.00	
8	27.24	27.33	27.52	27.51	27.44	27.35	27.55	27.65	27.35	27.18	27.23	26.96	
9	27.24	27.33	27.49	27.48	27.44	27.36	27.55	27.66	27.36	27.14	27.24	26.91	
10	27.22	27.30	27.49	27.45	27.44	27.34	27.55	27.66	27.41	27.11	27.23	26.98	
11	27.21	27.29	27.46	27.43	27.45	27.33	27.55	27.63	27.40	27.12	27.25	27.20	
12	27.21	27.29	27.43	27.41	27.44	27.31	27.55	27.50	27.41	27.21	27.23	27.40	
13	27.21	27.31	27.48	27.40	27.42	27.26	27.55	27.48	27.40	27.21	27.23	27.80	
14	27.21	27.34	27.85	27.39	27.41	27.22	27.55	27.48	27.40	27.21	27.22	27.94	
15	27.21	27.33	27.90	27.38	27.40	27.20	27.55	27.46	27.41	27.22	27.22	27.91	
16	27.21	27.31	27.91	27.37	27.39	27.21	27.62	27.47	27.27	27.24	27.20	27.95	
17	27.21	27.31	27.92	27.37	27.38	27.24	27.65	27.48	27.26	27.23	27.20	27.94	
18	27.21	27.32	27.91	27.37	27.39	27.21	27.65	27.48	27.23	27.24	27.22	27.97	
19	27.21	27.33	27.91	27.37	27.41	27.24	27.65	27.49	27.23	27.24	27.27	27.96	
20	27.21	27.32	27.75	27.42	27.38	27.38	27.65	27.42	27.21	27.25	27.27	27.93	
21	27.21	27.30	27.48	27.41	27.38	27.40	27.65	27.35	27.19	27.23	27.25	27.89	
22	27.21	27.29	27.41	27.50	27.37	27.40	27.65	27.35	27.17	27.23	27.19	27.83	
23	27.21	27.31	27.39	27.47	27.36	27.40	27.65	27.35	27.17	27.24	27.12	27.75	
24	27.21	27.32	27.38	27.43	27.37	27.40	27.65	27.35	27.16	27.26	27.09	27.56	
25	27.24	27.33	27.39	27.41	27.37	27.40	27.65	27.35	27.11	27.25	27.06	27.23	
26	27.44	27.34	27.40	27.40	27.40	27.40	27.65	27.35	27.08	27.23	27.03	27.11	
27	27.55	27.51	27.45	27.38	27.41	27.40	27.65	27.35	27.13	27.21	27.07	26.98	
28	27.50	27.93	27.42	27.37	27.40	27.40	27.65	27.35	27.29	27.20	27.21	27.18	
29	27.49	27.77	27.42	27.35	27.40	27.40	27.65	27.35	27.36	27.19	27.19	27.96	
30	27.42	27.58	27.45	27.35	27.39	27.40	27.65	27.35	27.37	27.19	27.19	27.91	
31		27.60		27.35	27.39		27.65		27.37	27.26		27.91	
Mean	27.27	27.38	27.58	27.43	27.40	27.35	27.59	27.48	27.30	27.24	27.20	27.48	
Max	27.55	27.93	27.96	27.52	27.45	27.41	27.65	27.66	27.41	27.39	27.27	27.97	27.97
Min	27.21	27.28	27.38	27.35	27.36	27.20	27.40	27.35	27.08	27.11	27.03	26.91	26.91
Annual Max Momentary Gage Height	28.07		m. (MSL.) ,				at 01.00 Hours ,		on May 28 , 2019				
Zero Gage at Bottom Elevation	26.80		m. (MSL.) ,			River Bed	26.81		m. (MSL.)				
Left Bank Elevation	37.25		m. (MSL.) ,										
Right Bank Elevation	37.21		m. (MSL.) ,			Drainage Are	1,003		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.95	6.10	1.50	0.80	0.95	1.00	1.90	0.75	0.20	0.20	0.00	
2	0.10	0.75	4.20	1.70	0.95	1.00	1.45	1.50	0.75	0.95	0.20	0.00	
3	0.65	0.55	2.30	1.45	1.00	1.00	2.10	1.70	0.75	0.95	0.20	0.00	
4	0.65	0.40	1.40	1.40	1.10	1.05	2.10	2.00	0.75	0.85	0.15	0.00	
5	0.30	0.45	1.15	1.35	1.15	1.00	2.00	2.10	0.75	0.60	0.20	0.00	
6	0.20	0.55	1.05	1.35	1.15	0.90	2.10	2.50	0.75	0.50	0.25	0.00	
7	0.20	0.80	1.50	1.60	1.20	0.85	2.00	2.80	0.75	0.30	0.20	0.00	
8	0.20	0.65	1.70	1.60	1.20	0.75	2.00	3.00	0.75	0.00	0.15	0.00	
9	0.20	0.65	1.45	1.40	1.20	0.80	2.00	3.10	0.80	0.00	0.20	0.00	
10	0.10	0.50	1.45	1.25	1.20	0.70	2.00	3.10	1.05	0.00	0.15	0.00	
11	0.05	0.45	1.30	1.15	1.25	0.65	2.00	2.80	1.00	0.00	0.25	0.00	
12	0.05	0.45	1.15	1.05	1.20	0.55	2.00	1.50	1.05	0.05	0.15	1.00	
13	0.05	0.55	1.40	1.00	1.10	0.30	2.00	1.40	1.00	0.05	0.15	4.50	
14	0.05	0.70	5.00	0.95	1.05	0.10	2.00	1.40	1.00	0.05	0.10	5.90	
15	0.05	0.65	5.50	0.90	1.00	0.00	2.00	1.30	1.05	0.10	0.10	5.60	
16	0.05	0.55	5.60	0.85	0.95	0.05	2.70	1.35	0.35	0.20	0.00	6.00	
17	0.05	0.55	5.70	0.85	0.90	0.20	3.00	1.40	0.30	0.15	0.00	5.90	
18	0.05	0.60	5.60	0.85	0.95	0.05	3.00	1.40	0.15	0.20	0.10	6.20	
19	0.05	0.65	5.60	0.85	1.05	0.20	3.00	1.45	0.15	0.20	0.35	6.10	
20	0.05	0.60	4.00	1.10	0.90	0.90	3.00	1.10	0.05	0.25	0.35	5.80	
21	0.05	0.50	1.40	1.05	0.90	1.00	3.00	0.75	0.00	0.15	0.25	5.40	
22	0.05	0.45	1.05	1.50	0.85	1.00	3.00	0.75	0.00	0.15	0.00	4.80	
23	0.05	0.55	0.95	1.35	0.80	1.00	3.00	0.75	0.00	0.20	0.00	4.00	
24	0.05	0.60	0.90	1.15	0.85	1.00	3.00	0.75	0.00	0.30	0.00	2.10	
25	0.20	0.65	0.95	1.05	0.85	1.00	3.00	0.75	0.00	0.25	0.00	0.15	
26	1.20	0.70	1.00	1.00	1.00	1.00	3.00	0.75	0.00	0.15	0.00	0.00	
27	2.00	1.60	1.25	0.90	1.05	1.00	3.00	0.75	0.00	0.05	0.00	0.00	
28	1.50	5.80	1.10	0.85	1.00	1.00	3.00	0.75	0.45	0.00	0.05	0.00	
29	1.45	4.20	1.10	0.75	1.00	1.00	3.00	0.75	0.80	0.00	0.00	6.10	
30	1.10	2.30	1.25	0.75	0.95	1.00	3.00	0.75	0.85	0.00	0.00	5.60	
31		2.50		0.75	0.95		3.00		0.85	0.30		5.60	
Total	10.85	31.85	74.10	35.25	31.50	22.00	76.45	46.30	16.90	7.15	3.75	80.75	436.85 CMSDAY
Mean	0.36	1.03	2.47	1.14	1.02	0.73	2.47	1.54	0.55	0.23	0.13	2.60	1.19 CMS
Max	2.00	5.80	6.10	1.70	1.25	1.05	3.00	3.10	1.05	0.95	0.35	6.20	6.20 CMS
Min	0.05	0.40	0.90	0.75	0.80	0.00	1.00	0.75	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.94	2.75	6.40	3.05	2.72	1.90	6.61	4.00	1.46	0.62	0.32	6.98	37.74 MCM
Momentary Peak	7.20	CMS. at 28.07 m. (MSL.) at 01.00 Hours , on May 28 , 2019											
Runoff Yield	1.73	Liters/Second/Square KM. Momentary Peak Yield 10.42 Liters/Second/Square KM.											



## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)

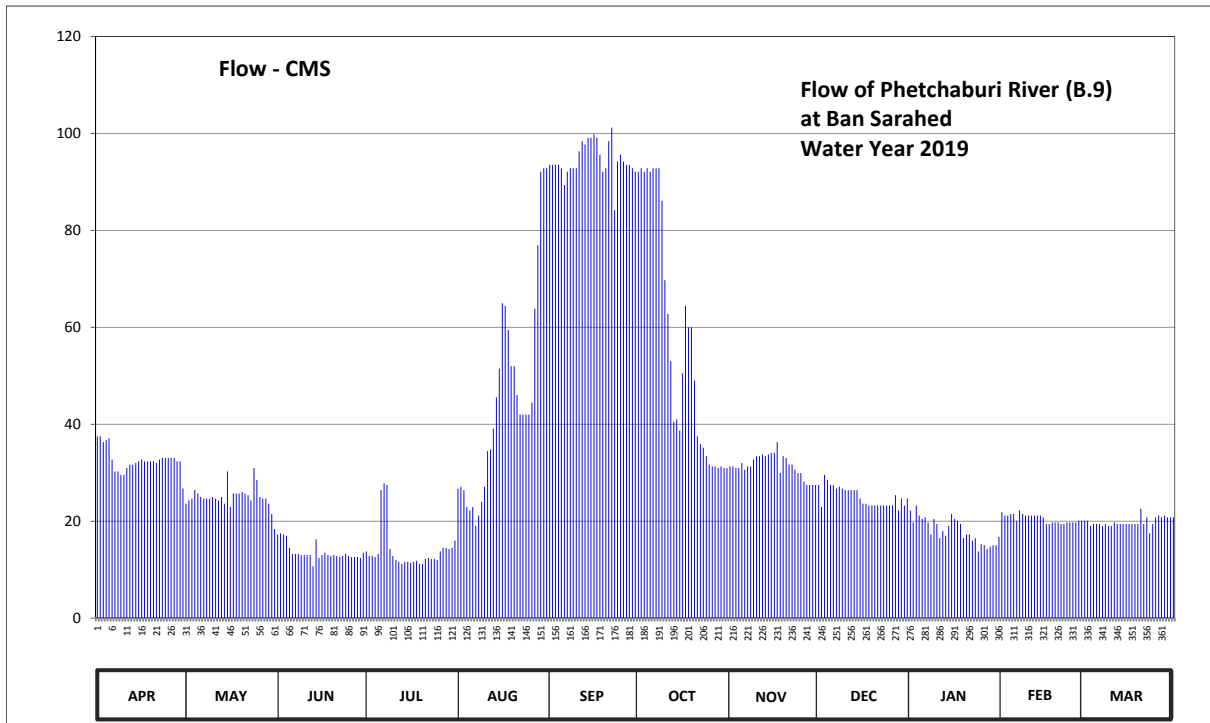
Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

	<b>Ban Sarahed</b>	<b>Amphoe Tha Yang</b>	<b>Changwat Phetchaburi</b>
<b>Drainage Area</b>	2,617 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+25.200 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+32.653 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.05	27.66	27.47	27.33	27.75	29.05	29.03	27.88	27.77	27.62	27.61	27.56	
2	28.05	27.68	27.48	27.29	27.76	29.05	29.04	27.88	27.64	27.55	27.59	27.56	
3	28.02	27.69	27.47	27.29	27.74	29.05	29.03	27.87	27.83	27.65	27.59	27.53	
4	28.03	27.74	27.46	27.28	27.64	29.05	29.04	27.87	27.80	27.59	27.60	27.54	
5	28.04	27.72	27.36	27.31	27.62	29.04	29.03	27.90	27.77	27.57	27.60	27.54	
6	27.92	27.70	27.31	27.74	27.64	28.99	29.04	27.86	27.77	27.58	27.56	27.54	
7	27.85	27.69	27.31	27.78	27.53	29.03	29.04	27.88	27.75	27.55	27.62	27.53	
8	27.85	27.69	27.31	27.77	27.59	29.04	29.04	27.88	27.76	27.47	27.60	27.54	
9	27.83	27.69	27.30	27.35	27.67	29.04	28.94	27.92	27.75	27.57	27.59	27.53	
10	27.83	27.70	27.30	27.29	27.76	29.04	28.67	27.94	27.74	27.54	27.59	27.53	
11	27.87	27.69	27.30	27.25	27.97	29.09	28.55	27.94	27.74	27.44	27.59	27.55	
12	27.89	27.68	27.30	27.23	27.98	29.12	28.37	27.95	27.74	27.50	27.59	27.54	
13	27.89	27.70	27.18	27.21	28.09	29.11	28.12	27.94	27.74	27.46	27.59	27.54	
14	27.90	27.66	27.43	27.23	28.22	29.13	28.13	27.95	27.74	27.53	27.59	27.54	
15	27.91	27.85	27.27	27.23	28.34	29.13	28.08	27.96	27.69	27.60	27.58	27.54	
16	27.92	27.64	27.30	27.22	28.59	29.14	28.32	27.96	27.66	27.57	27.54	27.54	
17	27.91	27.72	27.32	27.23	28.58	29.13	28.58	28.02	27.66	27.56	27.54	27.54	
18	27.91	27.72	27.30	27.24	28.49	29.08	28.50	27.84	27.65	27.54	27.55	27.54	
19	27.91	27.72	27.29	27.21	28.35	29.03	28.50	27.94	27.65	27.44	27.55	27.54	
20	27.91	27.73	27.30	27.21	28.35	29.04	28.29	27.93	27.65	27.47	27.55	27.63	
21	27.90	27.72	27.29	27.26	28.23	29.12	28.05	27.89	27.65	27.47	27.54	27.54	
22	27.92	27.71	27.28	27.27	28.15	29.16	28.01	27.89	27.65	27.42	27.54	27.58	
23	27.93	27.68	27.29	27.26	28.15	28.91	27.99	27.86	27.65	27.44	27.55	27.48	
24	27.93	27.87	27.31	27.26	28.15	29.06	27.94	27.84	27.65	27.33	27.55	27.54	
25	27.93	27.80	27.29	27.25	28.15	29.08	27.89	27.84	27.65	27.39	27.55	27.58	
26	27.93	27.70	27.28	27.33	28.20	29.06	27.88	27.79	27.65	27.38	27.55	27.59	
27	27.93	27.69	27.28	27.36	28.57	29.05	27.88	27.77	27.71	27.35	27.56	27.58	
28	27.91	27.69	27.28	27.36	28.79	29.05	27.87	27.77	27.62	27.37	27.56	27.59	
29	27.91	27.66	27.27	27.35	29.03	29.04	27.88	27.77	27.69	27.38	27.56	27.58	
30	27.75	27.60	27.32	27.36	29.04	29.03	27.87	27.77	27.65	27.38	27.58	27.58	
31		27.51		27.42	29.04		27.87		27.69	27.45	27.58	27.58	
Mean	27.92	27.70	27.32	27.33	28.17	29.06	28.40	27.88	27.70	27.49	27.57	27.55	
Max	28.05	27.87	27.48	27.78	29.04	29.16	29.04	28.02	27.83	27.65	27.62	27.63	29.16
Min	27.75	27.51	27.18	27.21	27.53	28.91	27.87	27.77	27.62	27.33	27.54	27.48	27.18
Annual Max Momentary Gage Height	29.71		m. (MSL.) ,				at 02.00 Hours , on Sep 22 , 2019						
Zero Gage at Bottom Elevation	25.20		m. (MSL.) ,			River Bed	25.38	m. (MSL.)					
Left Bank Elevation	31.15		m. (MSL.) ,										
Right Bank Elevation	32.54		m. (MSL.) ,			Drainage Are	2,617	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	37.50	23.60	17.25	13.75	26.75	93.50	92.10	31.30	27.45	22.20	21.85	20.10		
2	37.50	24.30	17.50	12.80	27.10	93.50	92.80	31.30	22.90	19.75	21.15	20.10		
3	36.30	24.65	17.25	12.80	26.40	93.50	92.10	30.95	29.55	23.25	21.15	19.05		
4	36.70	26.40	17.00	12.60	22.90	93.50	92.80	30.95	28.50	21.15	21.50	19.40		
5	37.10	25.70	14.50	13.25	22.20	92.80	92.10	32.00	27.45	20.45	21.50	19.40		
6	32.70	25.00	13.25	26.40	22.90	89.35	92.80	30.60	27.45	20.80	20.10	19.40		
7	30.25	24.65	13.25	27.80	19.05	92.10	92.80	31.30	26.75	19.75	22.20	19.05		
8	30.25	24.65	13.25	27.45	21.15	92.80	92.80	31.30	27.10	17.25	21.50	19.40		
9	29.55	24.65	13.00	14.25	23.95	92.80	86.10	32.70	26.75	20.45	21.15	19.05		
10	29.55	25.00	13.00	12.80	27.10	92.80	69.70	33.40	26.40	19.40	21.15	19.05		
11	30.95	24.65	13.00	12.00	34.45	96.30	62.75	33.40	26.40	16.50	21.15	19.75		
12	31.65	24.30	13.00	11.60	34.80	98.40	53.00	33.75	26.40	18.00	21.15	19.40		
13	31.65	25.00	10.70	11.20	39.10	97.70	40.50	33.40	26.40	17.00	21.15	19.40		
14	32.00	23.60	16.25	11.60	45.50	99.10	41.00	33.75	26.40	19.05	21.15	19.40		
15	32.35	30.25	12.40	11.60	51.50	99.10	38.70	34.10	24.65	21.50	20.80	19.40		
16	32.70	22.90	13.00	11.40	64.95	99.80	50.50	34.10	23.60	20.45	19.40	19.40		
17	32.35	25.70	13.50	11.60	64.40	99.10	64.40	36.30	23.60	20.10	19.40	19.40		
18	32.35	25.70	13.00	11.80	59.45	95.60	60.00	29.90	23.25	19.40	19.75	19.40		
19	32.35	25.70	12.80	11.20	52.00	92.10	60.00	33.40	23.25	16.50	19.75	19.40		
20	32.35	26.05	13.00	11.20	52.00	92.80	49.00	33.05	23.25	17.25	19.75	22.55		
21	32.00	25.70	12.80	12.20	46.00	98.40	37.50	31.65	23.25	17.25	19.40	19.40		
22	32.70	25.35	12.60	12.40	42.00	101.20	35.90	31.65	23.25	16.00	19.40	20.80		
23	33.05	24.30	12.80	12.20	42.00	84.15	35.15	30.60	23.25	16.50	19.75	17.50		
24	33.05	30.95	13.25	12.20	42.00	94.20	33.40	29.90	23.25	13.75	19.75	19.40		
25	33.05	28.50	12.80	12.00	42.00	95.60	31.65	29.90	23.25	15.25	19.75	20.80		
26	33.05	25.00	12.60	13.75	44.50	94.20	31.30	28.15	23.25	15.00	19.75	21.15		
27	33.05	24.65	12.60	14.50	63.85	93.50	31.30	27.45	25.35	14.25	20.10	20.80		
28	32.35	24.65	12.60	14.50	76.90	93.50	30.95	27.45	22.20	14.75	20.10	21.15		
29	32.35	23.60	12.40	14.25	92.10	92.80	31.30	27.45	24.65	15.00	20.10	20.80		
30	26.75	21.50	13.50	14.50	92.80	92.10	30.95	27.45	23.25	15.00		20.80		
31		18.35		16.00	92.80		30.95		24.65	16.75		20.80		
<b>Total</b>	<b>979.50</b>	<b>775.00</b>	<b>407.85</b>	<b>437.60</b>	<b>1414.60</b>	<b>2836.30</b>	<b>1776.30</b>	<b>942.60</b>	<b>777.10</b>	<b>559.70</b>	<b>594.80</b>	<b>614.90</b>	<b>12116.25</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>32.65</b>	<b>25.00</b>	<b>13.60</b>	<b>14.12</b>	<b>45.63</b>	<b>94.54</b>	<b>57.30</b>	<b>31.42</b>	<b>25.07</b>	<b>18.05</b>	<b>20.51</b>	<b>19.84</b>	<b>33.10</b>	<b>CMS</b>
<b>Max</b>	<b>37.50</b>	<b>30.95</b>	<b>17.50</b>	<b>27.80</b>	<b>92.80</b>	<b>101.20</b>	<b>92.80</b>	<b>36.30</b>	<b>29.55</b>	<b>23.25</b>	<b>22.20</b>	<b>22.55</b>	<b>101.20</b>	<b>CMS</b>
<b>Min</b>	<b>26.75</b>	<b>18.35</b>	<b>10.70</b>	<b>11.20</b>	<b>19.05</b>	<b>84.15</b>	<b>30.95</b>	<b>27.45</b>	<b>22.20</b>	<b>13.75</b>	<b>19.40</b>	<b>17.50</b>	<b>10.70</b>	<b>CMS</b>
<b>Runoff</b>	<b>84.63</b>	<b>66.96</b>	<b>35.24</b>	<b>37.81</b>	<b>122.22</b>	<b>245.06</b>	<b>153.47</b>	<b>81.44</b>	<b>67.14</b>	<b>48.36</b>	<b>51.39</b>	<b>53.13</b>	<b>1046.84</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>144.80</b>	<b>CMS.</b>	<b>at 29.71 m. (MSL.)</b>	<b>at 02.00 Hours</b>	<b>on Sep 22, 2019</b>									
<b>Runoff Yield</b>	<b>12.68</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>55.33</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)

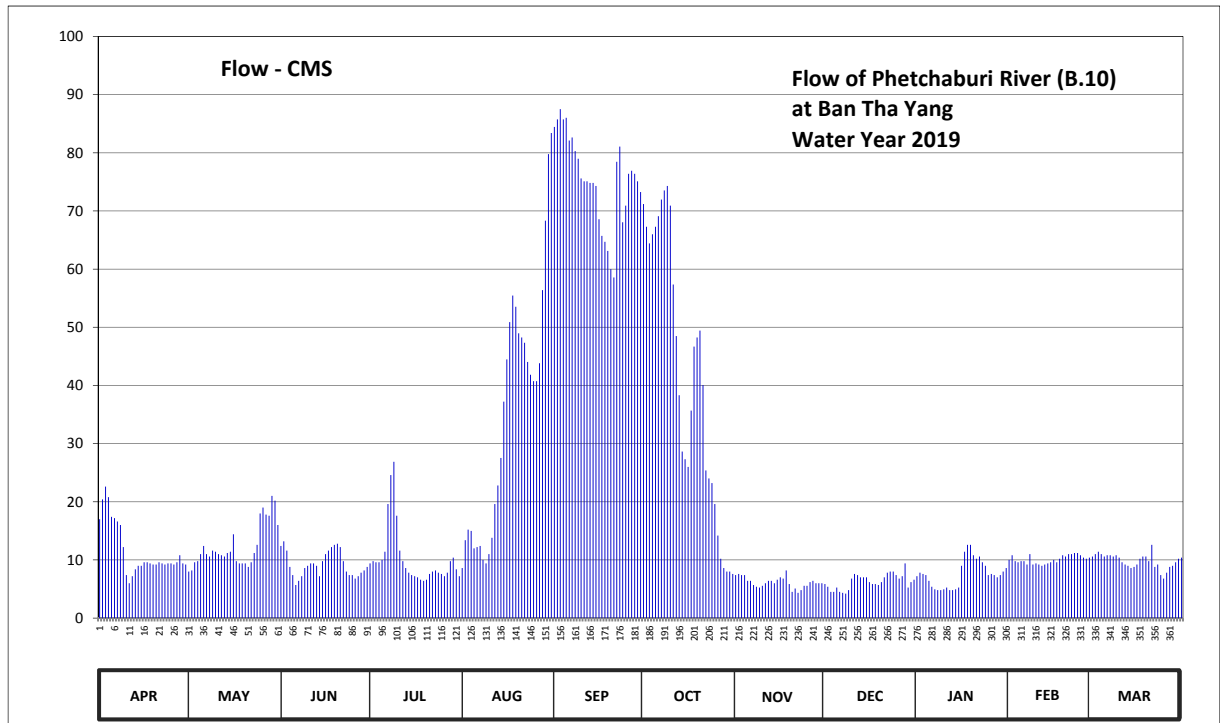
Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

Location : on left bank at the bridge of Ban Tha Yang.

	<b>Ban</b> Tha Yang	<b>Amphoe</b> Tha Yang	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	4,076 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+5.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 2 meters from the top staff gage.	<b>Elevation</b>	+16.332 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1983 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1985 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1985 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow regulated by Phet Dam. Stage-discharge relation defined by 39 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.35	5.90	6.12	5.97	5.93	9.24	8.73	5.87	5.79	5.86	6.00	6.03	
2	6.52	5.91	6.16	5.99	6.17	9.29	8.58	5.88	5.76	5.89	6.04	6.05	
3	6.63	5.98	6.08	5.98	6.26	9.35	8.47	5.87	5.70	5.88	5.99	6.07	
4	6.54	5.99	5.94	5.98	6.25	9.29	8.53	5.87	5.70	5.87	5.98	6.05	
5	6.37	6.05	5.87	6.00	6.10	9.30	8.58	5.82	5.75	5.82	5.99	6.03	
6	6.36	6.12	5.78	6.07	6.11	9.15	8.65	5.82	5.70	5.76	5.99	6.04	
7	6.33	6.05	5.82	6.48	6.12	9.17	8.76	5.78	5.69	5.73	5.96	6.04	
8	6.30	6.03	5.86	6.73	6.00	9.08	8.82	5.76	5.68	5.72	6.05	6.03	
9	6.11	6.08	5.93	6.84	5.97	9.03	8.85	5.75	5.72	5.72	5.96	6.04	
10	5.87	6.07	5.95	6.38	6.05	8.90	8.72	5.77	5.84	5.73	5.97	6.02	
11	5.80	6.05	5.97	6.08	6.19	8.88	8.19	5.80	5.88	5.75	5.96	5.98	
12	5.86	6.04	5.97	5.99	6.48	8.88	7.82	5.82	5.87	5.72	5.95	5.96	
13	5.92	6.03	5.95	5.93	6.64	8.87	7.36	5.82	5.85	5.72	5.96	5.95	
14	5.95	6.06	5.86	5.89	6.87	8.87	6.92	5.80	5.85	5.73	5.97	5.93	
15	5.95	6.07	5.99	5.87	7.31	8.85	6.86	5.83	5.85	5.75	5.98	5.94	
16	5.98	6.22	6.05	5.86	7.64	8.63	6.80	5.85	5.81	5.95	6.00	5.96	
17	5.98	5.99	6.08	5.85	7.92	8.52	7.24	5.84	5.79	6.07	5.98	6.01	
18	5.97	5.97	6.11	5.83	8.11	8.48	7.74	5.91	5.79	6.13	6.01	6.03	
19	5.96	5.97	6.13	5.82	8.03	8.42	7.81	5.79	5.78	6.13	6.04	6.03	
20	5.96	5.97	6.14	5.83	7.84	8.30	7.86	5.70	5.81	6.04	6.03	5.99	
21	5.98	5.94	6.11	5.88	7.81	8.24	7.44	5.74	5.85	6.01	6.05	6.13	
22	5.97	5.98	5.99	5.90	7.77	9.01	6.77	5.69	5.89	6.03	6.05	5.94	
23	5.96	6.06	5.90	5.91	7.62	9.11	6.70	5.72	5.90	5.98	6.06	5.96	
24	5.97	6.13	5.87	5.89	7.52	8.61	6.66	5.77	5.90	5.95	6.06	5.87	
25	5.97	6.40	5.87	5.88	7.47	8.72	6.48	5.77	5.87	5.87	6.04	5.84	
26	5.96	6.45	5.84	5.86	7.47	8.93	6.21	5.81	5.84	5.88	6.02	5.89	
27	5.98	6.39	5.86	5.89	7.61	8.95	6.01	5.82	5.86	5.87	6.01	5.94	
28	6.04	6.38	5.89	5.99	8.15	8.93	5.93	5.80	5.97	5.85	6.02	5.95	
29	5.97	6.55	5.91	6.02	8.62	8.88	5.90	5.80	5.75	5.87	6.02	5.98	
30	5.96	6.51	5.94	5.92	9.06	8.81	5.90	5.80	5.81	5.90	6.01	6.01	
31		6.30		5.86	9.20		5.88		5.83	5.93		6.02	
Mean	6.08	6.12	5.96	6.01	7.17	8.89	7.46	5.80	5.81	5.87	6.00	5.99	
Max	6.63	6.55	6.16	6.84	9.20	9.35	8.85	5.91	5.97	6.13	6.06	6.13	9.35
Min	5.80	5.90	5.78	5.82	5.93	8.24	5.88	5.69	5.68	5.72	5.95	5.84	5.68
Annual Max Momentary Gage Height	9.40		m. (MSL.) ,			at 16.00 Hours , on Sep 3 , 2019							
Zero Gage at Bottom Elevation	5.40		m. (MSL.) ,		River Bed	4.99		m. (MSL.)					
Left Bank Elevation	14.98		m. (MSL.) ,										
Right Bank Elevation	14.91		m. (MSL.) ,		Drainage Are	4,076		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.00	8.00	12.40	9.40	8.60	84.44	71.18	7.40	5.85	7.20	10.00	10.60	
2	20.40	8.20	13.20	9.80	13.40	85.74	67.28	7.60	5.40	7.80	10.80	11.00	
3	22.60	9.60	11.60	9.60	15.20	87.50	64.42	7.40	4.50	7.60	9.80	11.40	
4	20.80	9.80	8.80	9.60	15.00	85.74	65.98	7.40	4.50	7.40	9.60	11.00	
5	17.40	11.00	7.40	10.00	12.00	86.00	67.28	6.40	5.25	6.40	9.80	10.60	
6	17.20	12.40	5.70	11.40	12.20	82.10	69.10	6.40	4.50	5.40	9.80	10.80	
7	16.60	11.00	6.40	19.60	12.40	82.62	71.96	5.70	4.35	4.95	9.20	10.80	
8	16.00	10.60	7.20	24.60	10.00	80.28	73.52	5.40	4.20	4.80	11.00	10.60	
9	12.20	11.60	8.60	26.88	9.40	78.98	74.30	5.25	4.80	4.80	9.20	10.80	
10	7.40	11.40	9.00	17.60	11.00	75.60	70.92	5.55	6.80	4.95	9.40	10.40	
11	6.00	11.00	9.40	11.60	13.80	75.08	57.36	6.00	7.60	5.25	9.20	9.60	
12	7.20	10.80	9.40	9.80	19.60	75.08	48.48	6.40	7.40	4.80	9.00	9.20	
13	8.40	10.60	9.00	8.60	22.80	74.82	38.32	6.40	7.00	4.80	9.20	9.00	
14	9.00	11.20	7.20	7.80	27.54	74.82	28.64	6.00	7.00	4.95	9.40	8.60	
15	9.00	11.40	9.80	7.40	37.22	74.30	27.32	6.60	7.00	5.25	9.60	8.80	
16	9.60	14.40	11.00	7.20	44.48	68.58	26.00	7.00	6.20	9.00	10.00	9.20	
17	9.60	9.80	11.60	7.00	50.88	65.72	35.68	6.80	5.85	11.40	9.60	10.20	
18	9.40	9.40	12.20	6.60	55.44	64.68	46.68	8.20	5.85	12.60	10.20	10.60	
19	9.20	9.40	12.60	6.40	53.52	63.12	48.24	5.85	5.70	12.60	10.80	10.60	
20	9.20	9.40	12.80	6.60	48.96	60.00	49.44	4.50	6.20	10.80	10.60	9.80	
21	9.60	8.80	12.20	7.60	48.24	58.56	40.08	5.10	7.00	10.20	11.00	12.60	
22	9.40	9.60	9.80	8.00	47.34	78.46	25.40	4.35	7.80	10.60	11.00	8.80	
23	9.20	11.20	8.00	8.20	44.04	81.06	24.00	4.80	8.00	9.60	11.20	9.20	
24	9.40	12.60	7.40	7.80	41.84	68.06	23.20	5.55	8.00	9.00	11.20	7.40	
25	9.40	18.00	7.40	7.60	40.74	70.92	19.60	5.55	7.40	7.40	10.80	6.80	
26	9.20	19.00	6.80	7.20	40.74	76.38	14.20	6.20	6.80	7.60	10.40	7.80	
27	9.60	17.80	7.20	7.80	43.82	76.90	10.20	6.40	7.20	7.40	10.20	8.80	
28	10.80	17.60	7.80	9.80	56.40	76.38	8.60	6.00	9.40	7.00	10.40	9.00	
29	9.40	21.00	8.20	10.40	68.32	75.08	8.00	6.00	5.25	7.40	10.40	9.60	
30	9.20	20.20	8.80	8.40	79.76	73.26	8.00	6.00	6.20	8.00		10.20	
31		16.00		7.20	83.40		7.60		6.60	8.60		10.40	
Total	349.40	382.80	278.90	317.48	1088.08	2260.26	1290.98	184.20	195.60	235.55	292.80	304.20	7180.25 CMSDAY
Mean	11.65	12.35	9.30	10.24	35.10	75.34	41.64	6.14	6.31	7.60	10.10	9.81	19.62 CMS
Max	22.60	21.00	13.20	26.88	83.40	87.50	74.30	8.20	9.40	12.60	11.20	12.60	87.50 CMS
Min	6.00	8.00	5.70	6.40	8.60	58.56	7.60	4.35	4.20	4.80	9.00	6.80	4.20 CMS
Runoff	30.19	33.07	24.10	27.43	94.01	195.29	111.54	15.91	16.90	20.35	25.30	26.28	620.37 MCM
Momentary Peak		89.00		CMS. at 9.40 m. (MSL.)		at 16.00 Hours , on Sep 3 , 2019							
Runoff Yield		4.83		Liters/Second/Square KM.		Momentary Peak Yield	21.84						Liters/Second/Square KM.

## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

## Phetchaburi River at Ban Lat Bridge , Phetchaburi (B.16)

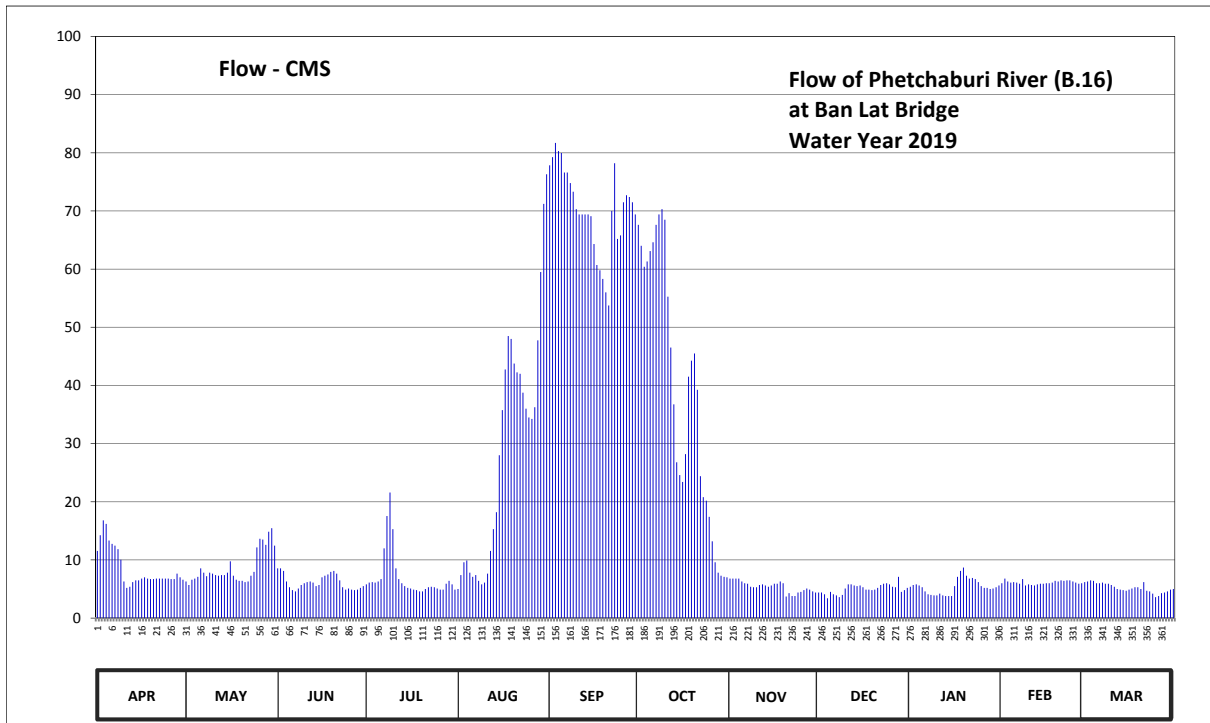
Lat 13 - 02 - 56 N Long 99 - 55 - 06 E

Location : on right bank at the bridge .

	<b>Ban -</b>	<b>Amphoe</b> Ban Lat	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	4,470	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)	
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage buiding.		<b>Elevation</b> +11.440 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2018 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2018 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2018 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.27	2.88	3.07	2.83	2.75	6.11	5.77	2.93	2.69	2.79	2.85	2.87	
2	3.45	2.82	3.07	2.86	2.99	6.15	5.65	2.93	2.69	2.82	2.93	2.88	
3	3.62	2.91	3.04	2.87	3.14	6.22	5.53	2.93	2.66	2.83	2.88	2.90	
4	3.58	2.93	2.88	2.86	3.16	6.18	5.56	2.93	2.59	2.81	2.86	2.89	
5	3.39	2.96	2.78	2.88	3.02	6.17	5.62	2.88	2.70	2.78	2.87	2.85	
6	3.35	3.07	2.73	2.92	2.96	6.07	5.67	2.85	2.66	2.71	2.86	2.85	
7	3.33	3.02	2.71	3.30	2.99	6.07	5.77	2.84	2.64	2.66	2.84	2.86	
8	3.29	2.97	2.76	3.67	2.89	6.01	5.83	2.79	2.61	2.65	2.92	2.84	
9	3.17	3.02	2.82	3.88	2.83	5.96	5.86	2.78	2.65	2.64	2.81	2.84	
10	2.88	3.01	2.85	3.52	2.86	5.86	5.80	2.78	2.76	2.64	2.83	2.82	
11	2.77	2.99	2.87	3.07	3.01	5.83	5.35	2.82	2.83	2.67	2.82	2.79	
12	2.79	2.98	2.88	2.92	3.27	5.83	5.00	2.83	2.83	2.64	2.81	2.75	
13	2.87	2.99	2.86	2.85	3.52	5.83	4.61	2.81	2.81	2.63	2.83	2.74	
14	2.90	2.99	2.80	2.80	3.71	5.83	4.14	2.79	2.80	2.63	2.84	2.73	
15	2.90	3.02	2.82	2.77	4.20	5.82	4.03	2.81	2.81	2.63	2.84	2.72	
16	2.93	3.15	2.95	2.76	4.57	5.66	3.97	2.84	2.78	2.80	2.85	2.74	
17	2.95	2.98	2.98	2.74	4.85	5.54	4.21	2.84	2.74	2.96	2.85	2.76	
18	2.93	2.91	3.00	2.73	5.08	5.51	4.80	2.88	2.74	3.04	2.86	2.78	
19	2.92	2.89	3.03	2.71	5.06	5.46	4.91	2.85	2.73	3.08	2.89	2.78	
20	2.92	2.89	3.04	2.71	4.89	5.38	4.96	2.62	2.74	2.98	2.88	2.75	
21	2.93	2.87	3.01	2.75	4.83	5.29	4.71	2.68	2.77	2.93	2.90	2.87	
22	2.93	2.88	2.90	2.78	4.82	5.85	4.02	2.63	2.82	2.94	2.89	2.72	
23	2.93	2.98	2.78	2.79	4.69	6.12	3.84	2.63	2.84	2.92	2.90	2.71	
24	2.93	3.03	2.74	2.78	4.58	5.69	3.81	2.69	2.85	2.87	2.90	2.67	
25	2.93	3.31	2.76	2.76	4.52	5.71	3.66	2.70	2.83	2.80	2.88	2.61	
26	2.92	3.41	2.74	2.74	4.51	5.90	3.38	2.73	2.79	2.77	2.86	2.63	
27	2.92	3.40	2.73	2.74	4.59	5.94	3.14	2.76	2.78	2.77	2.84	2.68	
28	3.01	3.34	2.74	2.84	5.05	5.93	3.02	2.74	2.96	2.75	2.85	2.69	
29	2.95	3.49	2.77	2.89	5.50	5.90	2.98	2.71	2.70	2.76	2.86	2.71	
30	2.91	3.53	2.80	2.83	5.89	5.83	2.96	2.69	2.73	2.78	2.78	2.74	
31		3.33		2.74	6.06		2.95		2.77	2.81		2.75	
Mean	3.05	3.06	2.86	2.91	4.09	5.86	4.56	2.79	2.75	2.79	2.86	2.77	
Max	3.62	3.53	3.07	3.88	6.06	6.22	5.86	2.93	2.96	3.08	2.93	2.90	6.22
Min	2.77	2.82	2.71	2.71	2.75	5.29	2.95	2.62	2.59	2.63	2.81	2.61	2.59
Annual Max Momentary Gage Height	6.24		m. (MSL.) ,			at 17.00 Hours ,	on Sep 3 , 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.50	m. (MSL.)					
Left Bank Elevation		8.95	m. (MSL.) ,										
Right Bank Elevation		9.45	m. (MSL.) ,			Drainage Are	4,470	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.55	6.30	8.55	5.80	5.00	77.85	67.60	6.80	4.40	5.40	6.00	6.20		
2	14.25	5.70	8.55	6.10	7.40	79.25	64.00	6.80	4.40	5.70	6.80	6.30		
3	16.80	6.60	8.10	6.20	9.60	81.70	60.40	6.80	4.10	5.80	6.30	6.50		
4	16.20	6.80	6.30	6.10	9.90	80.30	61.30	6.80	3.40	5.60	6.10	6.40		
5	13.35	7.10	5.30	6.30	7.80	79.95	63.10	6.30	4.50	5.30	6.20	6.00		
6	12.75	8.55	4.80	6.70	7.10	76.60	64.60	6.00	4.10	4.60	6.10	6.00		
7	12.45	7.80	4.60	12.00	7.40	76.60	67.60	5.90	3.90	4.10	5.90	6.10		
8	11.85	7.20	5.10	17.55	6.40	74.80	69.40	5.40	3.60	4.00	6.70	5.90		
9	10.05	7.80	5.70	21.60	5.80	73.30	70.30	5.30	4.00	3.90	5.60	5.90		
10	6.30	7.65	6.00	15.30	6.10	70.30	68.50	5.30	5.10	3.90	5.80	5.70		
11	5.20	7.40	6.20	8.55	7.65	69.40	55.25	5.70	5.80	4.20	5.70	5.40		
12	5.40	7.30	6.30	6.70	11.55	69.40	46.50	5.80	5.80	3.90	5.60	5.00		
13	6.20	7.40	6.10	6.00	15.30	69.40	36.75	5.60	5.60	3.80	5.80	4.90		
14	6.50	7.40	5.50	5.50	18.20	69.40	26.80	5.40	5.50	3.80	5.90	4.80		
15	6.50	7.80	5.70	5.20	28.00	69.10	24.60	5.60	5.60	3.80	5.90	4.70		
16	6.80	9.75	7.00	5.10	35.75	64.30	23.40	5.90	5.30	5.50	6.00	4.90		
17	7.00	7.30	7.30	4.90	42.75	60.70	28.20	5.90	4.90	7.10	6.00	5.10		
18	6.80	6.60	7.50	4.80	48.50	59.80	41.50	6.30	4.90	8.10	6.10	5.30		
19	6.70	6.40	7.95	4.60	48.00	58.30	44.25	6.00	4.80	8.70	6.40	5.30		
20	6.70	6.40	8.10	4.60	43.75	56.00	45.50	3.70	4.90	7.30	6.30	5.00		
21	6.80	6.20	7.65	5.00	42.25	53.75	39.25	4.30	5.20	6.80	6.50	6.20		
22	6.80	6.30	6.50	5.30	42.00	70.00	24.40	3.80	5.70	6.90	6.40	4.70		
23	6.80	7.30	5.30	5.40	38.75	78.20	20.80	3.80	5.90	6.70	6.50	4.60		
24	6.80	7.95	4.90	5.30	36.00	65.20	20.20	4.40	6.00	6.20	6.50	4.20		
25	6.80	12.15	5.10	5.10	34.50	65.80	17.40	4.50	5.80	5.50	6.30	3.60		
26	6.70	13.65	4.90	4.90	34.25	71.50	13.20	4.80	5.40	5.20	6.10	3.80		
27	6.70	13.50	4.80	4.90	36.25	72.70	9.60	5.10	5.30	5.20	5.90	4.30		
28	7.65	12.60	4.90	5.90	47.75	72.40	7.80	4.90	7.10	5.00	6.00	4.40		
29	7.00	14.85	5.20	6.40	59.50	71.50	7.30	4.60	4.50	5.10	6.10	4.60		
30	6.60	15.45	5.50	5.80	71.20	69.40	7.10	4.40	4.80	5.30		4.90		
31		12.45		4.90	76.30		7.00		5.20	5.60		5.00		
<b>Total</b>	<b>258.00</b>	<b>267.65</b>	<b>185.40</b>	<b>218.50</b>	<b>890.70</b>	<b>2106.90</b>	<b>1203.60</b>	<b>161.90</b>	<b>155.50</b>	<b>168.00</b>	<b>177.50</b>	<b>161.70</b>	<b>5955.35</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>8.60</b>	<b>8.63</b>	<b>6.18</b>	<b>7.05</b>	<b>28.73</b>	<b>70.23</b>	<b>38.83</b>	<b>5.40</b>	<b>5.02</b>	<b>5.42</b>	<b>6.12</b>	<b>5.22</b>	<b>16.27</b>	<b>CMS</b>
<b>Max</b>	<b>16.80</b>	<b>15.45</b>	<b>8.55</b>	<b>21.60</b>	<b>76.30</b>	<b>81.70</b>	<b>70.30</b>	<b>6.80</b>	<b>7.10</b>	<b>8.70</b>	<b>6.80</b>	<b>6.50</b>	<b>81.70</b>	<b>CMS</b>
<b>Min</b>	<b>5.20</b>	<b>5.70</b>	<b>4.60</b>	<b>4.60</b>	<b>5.00</b>	<b>53.75</b>	<b>7.00</b>	<b>3.70</b>	<b>3.40</b>	<b>3.80</b>	<b>5.60</b>	<b>3.60</b>	<b>3.40</b>	<b>CMS</b>
<b>Runoff</b>	<b>22.29</b>	<b>23.12</b>	<b>16.02</b>	<b>18.88</b>	<b>76.96</b>	<b>182.04</b>	<b>103.99</b>	<b>13.99</b>	<b>13.44</b>	<b>14.52</b>	<b>15.34</b>	<b>13.97</b>	<b>514.54</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>82.40 CMS. at 6.24 m. (MSL.) at 17.00 Hours , on Sep 3 , 2019</b>													
<b>Runoff Yield</b>	<b>3.65 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>18.43 Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7)

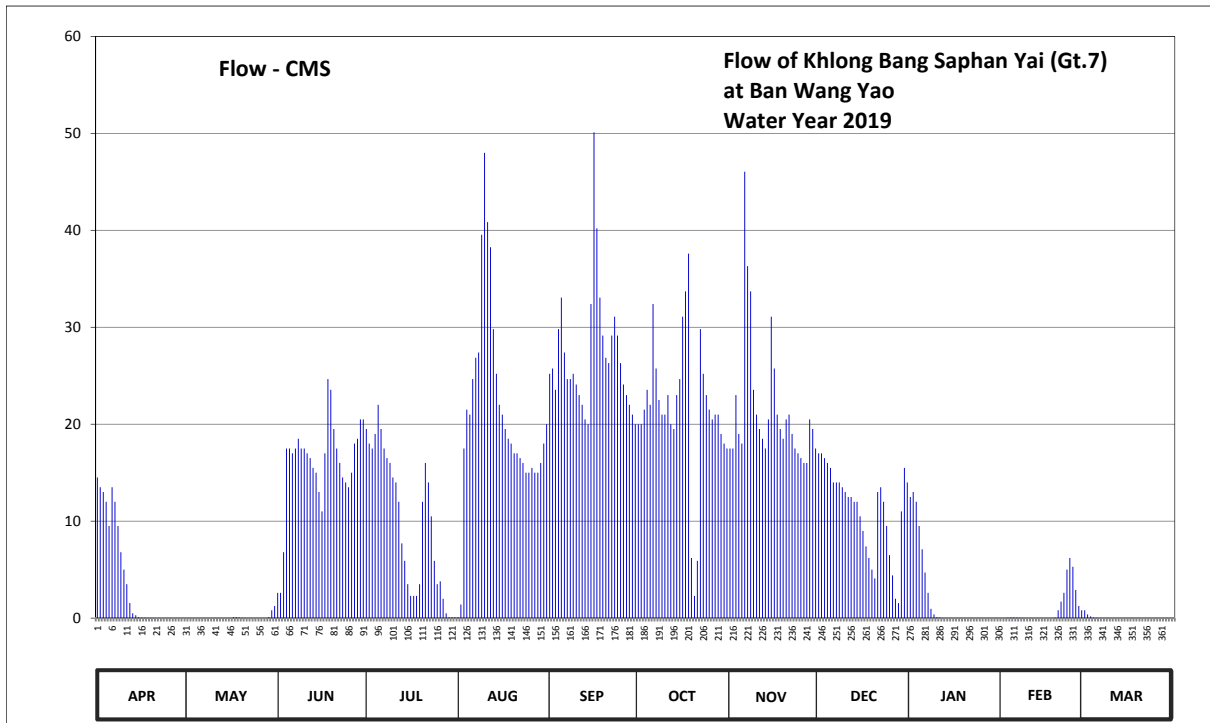
Lat 11 - 14 - 02 N Long 99 - 26 - 35 E

Location : on left bank near the bridge of Phet Kasem Highway at Ban Wang Yao.

	Ban Wang Yao	Amphoe	Bang Saphan	Changwat	Prachuap Khiri Khan
<b>Drainage Area</b>	346 sq.km.				
<b>Type of Gage</b>	Water - stage recorder.				
<b>Zero Gage at Bottom</b>	+11.800 m. (MSL.)				
<b>Bench Mark</b>	B.M.- Highways Dept.				
<b>Location BM</b>	on left bank at the abutment of the bridge.			<b>Elevation</b>	+19.908 m. (MSL.)
<b>Gage Reading Frequency</b>	Recordings.				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1978 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1980 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1980 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records fair. Flow regulated by the concrete weir about 2 kilometer downstream from the gage site. Stage-discharge relation defined by 1 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.53	12.28	13.22	13.63	12.99	13.74	13.64	13.59	13.58	13.49	12.52	13.12	
2	13.51	12.27	13.22	13.60	13.16	13.75	13.64	13.59	13.58	13.50	12.69	13.07	
3	13.50	12.24	13.36	13.59	13.59	13.71	13.67	13.70	13.57	13.48	12.87	13.02	
4	13.48	12.34	13.59	13.62	13.67	13.82	13.71	13.62	13.56	13.43	12.91	12.94	
5	13.43	12.63	13.59	13.68	13.66	13.87	13.68	13.60	13.55	13.37	12.91	12.87	
6	13.51	12.64	13.58	13.63	13.73	13.78	13.86	14.07	13.52	13.29	12.89	12.79	
7	13.48	12.58	13.59	13.59	13.77	13.73	13.75	13.92	13.52	13.22	12.85	12.71	
8	13.43	12.55	13.61	13.57	13.78	13.73	13.69	13.88	13.52	13.13	12.81	12.64	
9	13.36	12.54	13.59	13.56	13.97	13.74	13.66	13.71	13.51	13.07	12.75	12.56	
10	13.30	12.56	13.59	13.53	14.10	13.72	13.66	13.66	13.50	12.99	12.70	12.47	
11	13.25	12.55	13.58	13.52	13.99	13.70	13.70	13.63	13.49	12.91	12.62	12.38	
12	13.17	12.55	13.57	13.48	13.95	13.68	13.64	13.61	13.49	12.84	12.59	12.29	
13	13.10	12.54	13.55	13.39	13.82	13.65	13.63	13.59	13.48	12.80	12.53	12.22	
14	13.05	12.52	13.54	13.33	13.74	13.64	13.70	13.65	13.48	12.79	12.52	12.21	
15	12.98	12.49	13.50	13.25	13.68	13.86	13.73	13.84	13.45	12.73	12.45	12.21	
16	12.90	12.55	13.46	13.21	13.66	14.13	13.84	13.75	13.42	12.69	12.39	12.22	
17	12.86	12.98	13.58	13.21	13.63	13.98	13.88	13.66	13.38	12.75	12.34	12.21	
18	12.81	12.98	13.73	13.21	13.61	13.87	13.94	13.63	13.34	12.70	12.33	12.21	
19	12.82	12.94	13.71	13.25	13.60	13.81	13.34	13.61	13.30	12.64	12.89	12.20	
20	12.81	12.88	13.63	13.48	13.58	13.77	13.21	13.65	13.27	12.60	13.12	12.21	
21	12.75	12.81	13.59	13.56	13.58	13.76	13.33	13.66	13.50	12.58	13.18	12.21	
22	12.68	12.73	13.56	13.52	13.57	13.81	13.82	13.62	13.51	12.56	13.22	12.21	
23	12.60	12.67	13.53	13.45	13.56	13.84	13.74	13.59	13.48	12.58	13.30	12.22	
24	12.55	12.65	13.52	13.33	13.54	13.81	13.70	13.58	13.43	12.60	13.34	12.23	
25	12.50	12.58	13.51	13.25	13.54	13.76	13.67	13.57	13.35	12.55	13.31	12.22	
26	12.46	12.51	13.54	13.26	13.55	13.72	13.65	13.56	13.28	12.49	13.23	12.23	
27	12.41	12.46	13.60	13.20	13.54	13.70	13.66	13.56	13.20	12.46	13.15	12.22	
28	12.36	12.46	13.61	13.10	13.54	13.68	13.66	13.65	13.17	12.43	13.12	12.24	
29	12.31	12.98	13.65	13.00	13.56	13.66	13.62	13.63	13.46	12.41	13.13	12.36	
30	12.28	13.12	13.65	12.98	13.60	13.64	13.60	13.59	13.55	12.39		12.43	
31		13.15		12.95	13.64		13.59		13.52	12.39		12.46	
Mean	12.97	12.64	13.55	13.38	13.64	13.77	13.66	13.67	13.45	12.83	12.85	12.44	
Max	13.53	13.15	13.73	13.68	14.10	14.13	13.94	14.07	13.58	13.50	13.34	13.12	14.13
Min	12.28	12.24	13.22	12.95	12.99	13.64	13.21	13.56	13.17	12.39	12.33	12.20	12.20
Annual Max Momentary Gage Height	14.83		m. (MSL.) ,				at 05.00 Hours ,						on Nov 6, 2019
Zero Gage at Bottom Elevation	11.80		m. (MSL.) ,			River Bed	9.23		m. (MSL.)				
Left Bank Elevation		21.32		m. (MSL.) ,									
Right Bank Elevation		20.63		m. (MSL.) ,		Drainage Are	346		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.50	0.00	2.60	19.50	0.10	25.20	20.00	17.50	17.00	12.50	0.00	0.80	
2	13.50	0.00	2.60	18.00	1.40	25.75	20.00	17.50	17.00	13.00	0.00	0.38	
3	13.00	0.00	6.80	17.50	17.50	23.55	21.50	23.00	16.50	12.00	0.04	0.18	
4	12.00	0.00	17.50	19.00	21.50	29.80	23.55	19.00	16.00	9.50	0.06	0.07	
5	9.50	0.00	17.50	22.00	21.00	33.05	22.00	18.00	15.50	7.10	0.06	0.04	
6	13.50	0.00	17.00	19.50	24.65	27.40	32.40	46.05	14.00	4.70	0.05	0.00	
7	12.00	0.00	17.50	17.50	26.85	24.65	25.75	36.30	14.00	2.60	0.03	0.00	
8	9.50	0.00	18.50	16.50	27.40	24.65	22.50	33.70	14.00	0.95	0.01	0.00	
9	6.80	0.00	17.50	16.00	39.55	25.20	21.00	23.55	13.50	0.38	0.00	0.00	
10	5.00	0.00	17.50	14.50	48.00	24.10	21.00	21.00	13.00	0.10	0.00	0.00	
11	3.50	0.00	17.00	14.00	40.85	23.00	23.00	19.50	12.50	0.06	0.00	0.00	
12	1.55	0.00	16.50	12.00	38.25	22.00	20.00	18.50	12.50	0.02	0.00	0.00	
13	0.50	0.00	15.50	7.70	29.80	20.50	19.50	17.50	12.00	0.00	0.00	0.00	
14	0.30	0.00	15.00	5.90	25.20	20.00	23.00	20.50	12.00	0.00	0.00	0.00	
15	0.09	0.00	13.00	3.50	22.00	32.40	24.65	31.10	10.50	0.00	0.00	0.00	
16	0.05	0.00	11.00	2.30	21.00	50.10	31.10	25.75	9.00	0.00	0.00	0.00	
17	0.03	0.09	17.00	2.30	19.50	40.20	33.70	21.00	7.40	0.00	0.00	0.00	
18	0.01	0.09	24.65	2.30	18.50	33.05	37.60	19.50	6.20	0.00	0.00	0.00	
19	0.01	0.07	23.55	3.50	18.00	29.15	6.20	18.50	5.00	0.00	0.05	0.00	
20	0.01	0.04	19.50	12.00	17.00	26.85	2.30	20.50	4.10	0.00	0.80	0.00	
21	0.00	0.01	17.50	16.00	17.00	26.30	5.90	21.00	13.00	0.00	1.70	0.00	
22	0.00	0.00	16.00	14.00	16.50	29.15	29.80	19.00	13.50	0.00	2.60	0.00	
23	0.00	0.00	14.50	10.50	16.00	31.10	25.20	17.50	12.00	0.00	5.00	0.00	
24	0.00	0.00	14.00	5.90	15.00	29.15	23.00	17.00	9.50	0.00	6.20	0.00	
25	0.00	0.00	13.50	3.50	15.00	26.30	21.50	16.50	6.50	0.00	5.30	0.00	
26	0.00	0.00	15.00	3.80	15.50	24.10	20.50	16.00	4.40	0.00	2.90	0.00	
27	0.00	0.00	18.00	2.00	15.00	23.00	21.00	16.00	2.00	0.00	1.25	0.00	
28	0.00	0.00	18.50	0.50	15.00	22.00	21.00	20.50	1.55	0.00	0.80	0.00	
29	0.00	0.09	20.50	0.10	16.00	21.00	19.00	19.50	11.00	0.00	0.95	0.00	
30	0.00	0.80	20.50	0.09	18.00	20.00	18.00	17.50	15.50	0.00	0.00	0.00	
31		1.25		0.08	20.00		17.50		14.00	0.00		0.00	
<b>Total</b>	115.35	2.44	475.70	301.97	657.05	812.70	673.15	648.45	344.65	62.91	27.80	1.47	4123.64 CMSDAY
<b>Mean</b>	3.85	0.08	15.86	9.74	21.20	27.09	21.71	21.62	11.12	2.03	0.96	0.05	11.27 CMS
<b>Max</b>	14.50	1.25	24.65	22.00	48.00	50.10	37.60	46.05	17.00	13.00	6.20	0.80	50.10 CMS
<b>Min</b>	0.00	0.00	2.60	0.08	0.10	20.00	2.30	16.00	1.55	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	9.97	0.21	41.10	26.09	56.77	70.22	58.16	56.03	29.78	5.44	2.40	0.13	356.28 MCM
<b>Momentary Peak</b>		112.15 CMS.											at 14.83 m. (MSL.) at 05.00 Hours , on Nov 6, 2019
<b>Runoff Yield</b>		32.65											Liters/Second/Square KM. Momentary Peak Yield 324.13 Liters/Second/Square KM.



## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

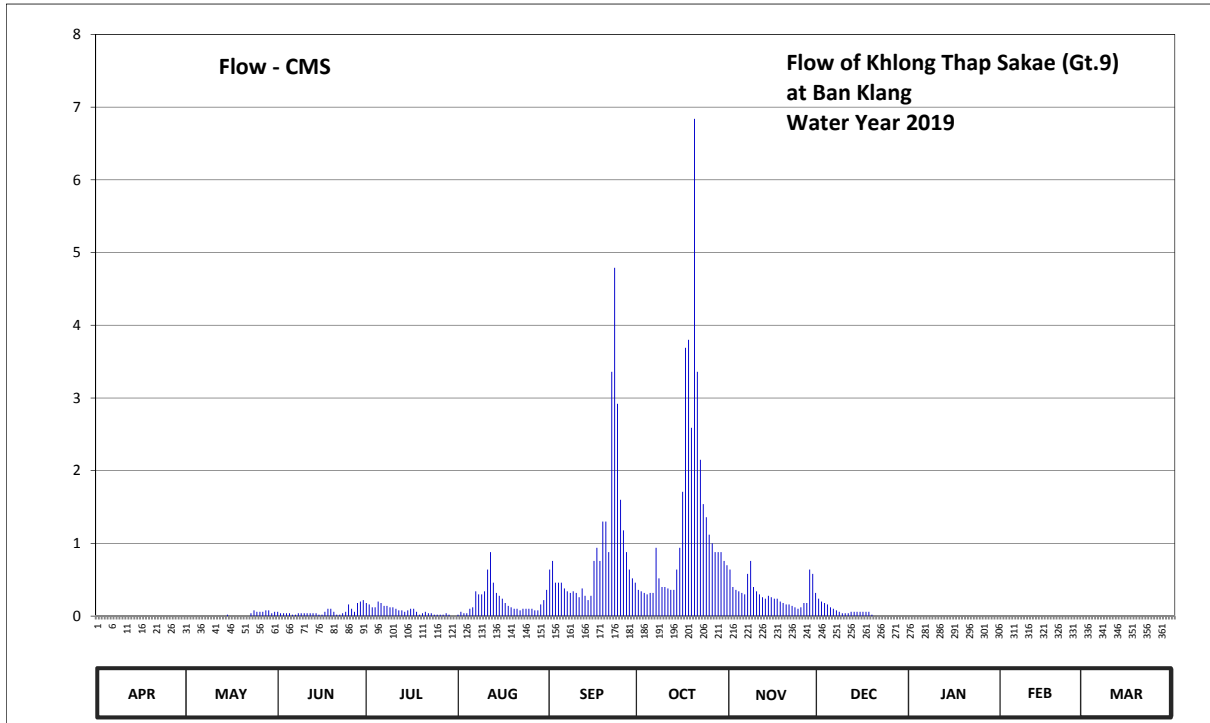
Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	<b>Ban Klang</b>	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	125 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.900 m. (MSL.)		
<b>Bench Mark</b>	B.M.- Highways Dept.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+12.272 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.10	7.01	7.13	7.19	7.11	7.34	7.28	7.34	7.22	7.09	7.10	7.09	
2	7.07	7.00	7.12	7.18	7.13	7.36	7.27	7.30	7.20	7.08	7.08	7.09	
3	7.06	6.99	7.12	7.16	7.12	7.31	7.26	7.28	7.19	7.08	7.08	7.09	
4	7.05	6.99	7.12	7.16	7.12	7.31	7.25	7.27	7.18	7.09	7.08	7.09	
5	7.05	6.99	7.12	7.20	7.15	7.31	7.26	7.26	7.16	7.09	7.08	7.09	
6	7.05	7.03	7.11	7.19	7.16	7.29	7.26	7.25	7.15	7.09	7.08	7.09	
7	7.04	7.02	7.11	7.17	7.27	7.27	7.39	7.33	7.14	7.09	7.08	7.09	
8	7.04	7.01	7.12	7.17	7.25	7.26	7.32	7.36	7.13	7.09	7.08	7.09	
9	7.04	7.00	7.12	7.16	7.25	7.27	7.30	7.30	7.12	7.09	7.07	7.09	
10	7.02	7.00	7.12	7.16	7.27	7.26	7.30	7.27	7.12	7.09	7.08	7.09	
11	7.02	6.99	7.12	7.15	7.34	7.23	7.29	7.25	7.12	7.09	7.08	7.10	
12	7.01	6.99	7.12	7.14	7.38	7.29	7.28	7.23	7.13	7.09	7.08	7.10	
13	7.04	6.98	7.12	7.14	7.31	7.24	7.28	7.22	7.13	7.09	7.08	7.10	
14	7.04	7.01	7.12	7.13	7.26	7.21	7.34	7.24	7.13	7.09	7.08	7.10	
15	7.03	7.11	7.11	7.14	7.24	7.24	7.39	7.23	7.13	7.08	7.08	7.10	
16	7.03	7.10	7.11	7.15	7.22	7.36	7.51	7.22	7.13	7.08	7.08	7.10	
17	7.03	7.10	7.13	7.15	7.19	7.39	7.69	7.22	7.13	7.08	7.08	7.10	
18	7.04	7.10	7.15	7.13	7.17	7.36	7.70	7.20	7.13	7.08	7.08	7.10	
19	7.04	7.10	7.15	7.11	7.16	7.45	7.59	7.19	7.11	7.08	7.08	7.10	
20	7.04	7.10	7.13	7.12	7.15	7.45	7.97	7.18	7.09	7.09	7.08	7.10	
21	7.05	7.10	7.11	7.13	7.15	7.38	7.66	7.18	7.09	7.09	7.08	7.10	
22	7.05	7.10	7.11	7.12	7.14	7.66	7.55	7.17	7.09	7.09	7.08	7.10	
23	7.05	7.12	7.12	7.12	7.15	7.79	7.49	7.16	7.09	7.09	7.08	7.09	
24	7.05	7.14	7.13	7.11	7.15	7.62	7.46	7.15	7.09	7.09	7.08	7.09	
25	7.05	7.13	7.18	7.11	7.15	7.50	7.42	7.16	7.09	7.09	7.08	7.09	
26	7.04	7.13	7.15	7.11	7.15	7.43	7.40	7.19	7.09	7.09	7.09	7.09	
27	7.04	7.13	7.13	7.11	7.14	7.38	7.38	7.19	7.09	7.09	7.09	7.09	
28	7.03	7.14	7.19	7.12	7.14	7.34	7.38	7.34	7.09	7.09	7.09	7.09	
29	7.02	7.14	7.20	7.11	7.18	7.32	7.38	7.33	7.09	7.09	7.09	7.09	
30	7.02	7.12	7.21	7.10	7.21	7.31	7.36	7.26	7.09	7.09	7.09	7.09	
31		7.13		7.10	7.28		7.35		7.09	7.09		7.09	
Mean	7.04	7.06	7.13	7.14	7.20	7.36	7.41	7.24	7.12	7.09	7.08	7.09	
Max	7.10	7.14	7.21	7.20	7.38	7.79	7.97	7.36	7.22	7.09	7.10	7.10	7.97
Min	7.01	6.98	7.11	7.10	7.11	7.21	7.25	7.15	7.09	7.08	7.07	7.09	6.98
Annual Max Momentary Gage Height	8.23		m. (MSL.) ,			at 10.00 Hours ,		on Oct 20, 2019					
Zero Gage at Bottom Elevation	6.90		m. (MSL.) ,			River Bed	6.84	m. (MSL.)					
Left Bank Elevation	12.32		m. (MSL.) ,										
Right Bank Elevation	12.37		m. (MSL.) ,			Drainage Are	125	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.06	0.18	0.02	0.64	0.36	0.64	0.24	0.00	0.00	0.00	
2	0.00	0.00	0.04	0.16	0.06	0.76	0.34	0.40	0.20	0.00	0.00	0.00	
3	0.00	0.00	0.04	0.12	0.04	0.46	0.32	0.36	0.18	0.00	0.00	0.00	
4	0.00	0.00	0.04	0.12	0.04	0.46	0.30	0.34	0.16	0.00	0.00	0.00	
5	0.00	0.00	0.04	0.20	0.10	0.46	0.32	0.32	0.12	0.00	0.00	0.00	
6	0.00	0.00	0.02	0.18	0.12	0.38	0.32	0.30	0.10	0.00	0.00	0.00	
7	0.00	0.00	0.02	0.14	0.34	0.34	0.94	0.58	0.08	0.00	0.00	0.00	
8	0.00	0.00	0.04	0.14	0.30	0.32	0.52	0.76	0.06	0.00	0.00	0.00	
9	0.00	0.00	0.04	0.12	0.30	0.34	0.40	0.40	0.04	0.00	0.00	0.00	
10	0.00	0.00	0.04	0.12	0.34	0.32	0.40	0.34	0.04	0.00	0.00	0.00	
11	0.00	0.00	0.04	0.10	0.64	0.26	0.38	0.30	0.04	0.00	0.00	0.00	
12	0.00	0.00	0.04	0.08	0.88	0.38	0.36	0.26	0.06	0.00	0.00	0.00	
13	0.00	0.00	0.04	0.08	0.46	0.28	0.36	0.24	0.06	0.00	0.00	0.00	
14	0.00	0.00	0.04	0.06	0.32	0.22	0.64	0.28	0.06	0.00	0.00	0.00	
15	0.00	0.02	0.02	0.08	0.28	0.28	0.94	0.26	0.06	0.00	0.00	0.00	
16	0.00	0.00	0.02	0.10	0.24	0.76	1.71	0.24	0.06	0.00	0.00	0.00	
17	0.00	0.00	0.06	0.10	0.18	0.94	3.69	0.24	0.06	0.00	0.00	0.00	
18	0.00	0.00	0.10	0.06	0.14	0.76	3.80	0.20	0.06	0.00	0.00	0.00	
19	0.00	0.00	0.10	0.02	0.12	1.30	2.59	0.18	0.02	0.00	0.00	0.00	
20	0.00	0.00	0.06	0.04	0.10	1.30	6.84	0.16	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.02	0.06	0.10	0.88	3.36	0.16	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.02	0.04	0.08	3.36	2.15	0.14	0.00	0.00	0.00	0.00	
23	0.00	0.04	0.04	0.04	0.10	4.79	1.54	0.12	0.00	0.00	0.00	0.00	
24	0.00	0.08	0.06	0.02	0.10	2.92	1.36	0.10	0.00	0.00	0.00	0.00	
25	0.00	0.06	0.16	0.02	0.10	1.60	1.12	0.12	0.00	0.00	0.00	0.00	
26	0.00	0.06	0.10	0.02	0.10	1.18	1.00	0.18	0.00	0.00	0.00	0.00	
27	0.00	0.06	0.06	0.02	0.08	0.88	0.88	0.18	0.00	0.00	0.00	0.00	
28	0.00	0.08	0.18	0.04	0.08	0.64	0.88	0.64	0.00	0.00	0.00	0.00	
29	0.00	0.08	0.20	0.02	0.16	0.52	0.88	0.58	0.00	0.00	0.00	0.00	
30	0.00	0.04	0.22	0.00	0.22	0.46	0.76	0.32	0.00	0.00	0.00	0.00	
31		0.06		0.00	0.36		0.70		0.00	0.00		0.00	
<b>Total</b>	0.00	0.58	1.96	2.48	6.50	28.19	40.16	9.34	1.70	0.00	0.00	0.00	90.91 CMSDAY
<b>Mean</b>	0.00	0.02	0.07	0.08	0.21	0.94	1.30	0.31	0.05	0.00	0.00	0.00	0.25 CMS
<b>Max</b>	0.00	0.08	0.22	0.20	0.88	4.79	6.84	0.76	0.24	0.00	0.00	0.00	6.84 CMS
<b>Min</b>	0.00	0.00	0.02	0.00	0.02	0.22	0.30	0.10	0.00	0.00	0.00	0.00	0.00 CMS
<b>Runoff</b>	0.00	0.05	0.17	0.21	0.56	2.44	3.47	0.81	0.15	0.00	0.00	0.00	7.85 MCM
<b>Momentary Peak</b>	10.35	CMS. at 8.23 m. (MSL.) at 10.00 Hours , on Oct 20, 2019											
<b>Runoff Yield</b>	1.99	Liters/Second/Square KM. Momentary Peak Yield 82.80 Liters/Second/Square KM.											

## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

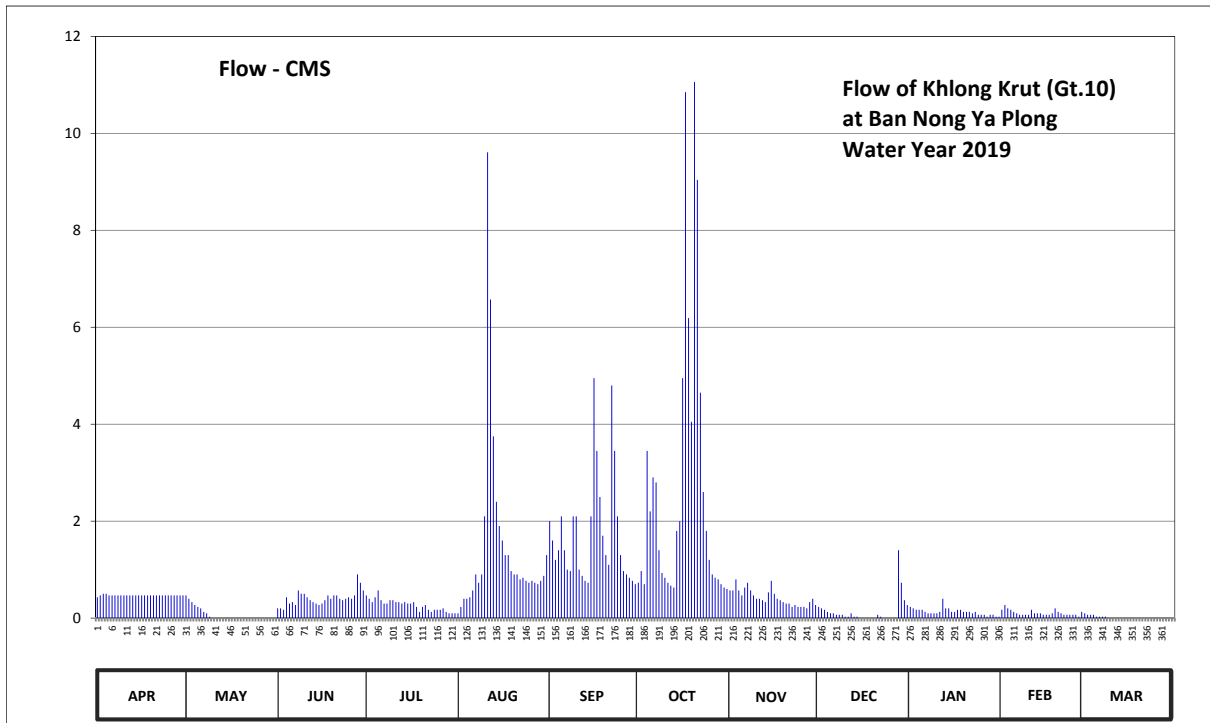
Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	<b>Ban Nong Ya Plong</b>	<b>Amphoe Bang Saphan</b>	<b>Changwat Prachuap Khiri Khan</b>
<b>Drainage Area</b>	113 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+25.400 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+30.730 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1980 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1980 to date		
<b>Stability of Channel Regimes</b>	Rather unstable by some scouring.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.83	23.84	23.76	23.84	23.73	24.10	23.92	23.87	23.77	23.77	23.75	23.73	
2	23.84	23.82	23.76	23.82	23.77	24.06	23.99	23.87	23.76	23.76	23.78	23.72	
3	23.85	23.80	23.75	23.80	23.82	24.02	23.91	23.94	23.75	23.75	23.76	23.72	
4	23.85	23.78	23.83	23.83	23.82	24.04	24.23	23.87	23.74	23.75	23.75	23.72	
5	23.84	23.77	23.79	23.87	23.83	24.11	24.12	23.84	23.73	23.75	23.74	23.71	
6	23.84	23.76	23.80	23.81	23.87	24.04	24.19	23.89	23.73	23.74	23.73	23.71	
7	23.84	23.74	23.78	23.79	23.97	24.00	24.18	23.92	23.72	23.73	23.72	23.71	
8	23.84	23.73	23.87	23.79	23.92	23.99	24.04	23.87	23.72	23.73	23.72	23.71	
9	23.84	23.71	23.85	23.81	23.97	24.11	23.98	23.84	23.72	23.73	23.72	23.70	
10	23.84	23.70	23.85	23.81	24.11	24.11	23.95	23.82	23.71	23.73	23.72	23.70	
11	23.84	23.70	23.83	23.80	24.59	24.00	23.92	23.82	23.71	23.74	23.75	23.69	
12	23.84	23.70	23.81	23.80	24.43	23.96	23.90	23.81	23.73	23.82	23.73	23.69	
13	23.84	23.70	23.80	23.79	24.25	23.93	23.89	23.80	23.71	23.76	23.73	23.69	
14	23.84	23.70	23.79	23.80	24.14	23.92	24.08	23.86	23.71	23.76	23.73	23.69	
15	23.84	23.70	23.78	23.79	24.09	24.11	24.10	23.93	23.70	23.74	23.72	23.69	
16	23.84	23.70	23.79	23.79	24.06	24.33	24.33	23.85	23.70	23.74	23.72	23.69	
17	23.84	23.70	23.81	23.80	24.03	24.23	24.65	23.82	23.70	23.75	23.72	23.68	
18	23.84	23.70	23.84	23.77	24.03	24.15	24.41	23.81	23.70	23.75	23.73	23.69	
19	23.84	23.70	23.82	23.74	23.99	24.07	24.27	23.80	23.70	23.74	23.76	23.69	
20	23.84	23.70	23.84	23.77	23.97	24.03	24.66	23.79	23.70	23.74	23.74	23.69	
21	23.84	23.70	23.84	23.78	23.97	24.01	24.56	23.79	23.72	23.74	23.73	23.68	
22	23.84	23.70	23.82	23.75	23.94	24.32	24.31	23.77	23.71	23.73	23.72	23.69	
23	23.84	23.70	23.81	23.74	23.95	24.23	24.16	23.78	23.69	23.74	23.72	23.68	
24	23.84	23.70	23.82	23.75	23.93	24.11	24.08	23.77	23.69	23.72	23.72	23.69	
25	23.84	23.70	23.83	23.75	23.92	24.03	24.02	23.77	23.66	23.72	23.72	23.68	
26	23.84	23.70	23.82	23.75	23.93	23.99	23.97	23.77	23.66	23.72	23.72	23.67	
27	23.84	23.70	23.84	23.76	23.92	23.97	23.95	23.76	23.69	23.71	23.71	23.67	
28	23.84	23.70	23.97	23.74	23.91	23.95	23.94	23.80	24.04	23.72	23.74	23.67	
29	23.84	23.70	23.92	23.73	23.93	23.93	23.91	23.82	23.92	23.72	23.74	23.67	
30	23.84	23.70	23.87	23.73	23.96	23.91	23.89	23.78	23.81	23.71	23.71	23.67	
31		23.70		23.73	24.03		23.88		23.78	23.71		23.67	
Mean	23.84	23.72	23.82	23.78	23.99	24.06	24.11	23.83	23.73	23.74	23.73	23.69	
Max	23.85	23.84	23.97	23.87	24.59	24.33	24.66	23.94	24.04	23.82	23.78	23.73	24.66
Min	23.83	23.70	23.75	23.73	23.73	23.91	23.88	23.76	23.66	23.71	23.71	23.67	23.66
Annual Max Momentary Gage Height	25.72		m. (MSL.) ,				at 13.00 Hours , on Oct 17 , 2019						
Zero Gage at Bottom Elevation	25.40		m. (MSL.) ,			River Bed	23.92	m. (MSL.)					
Left Bank Elevation		30.81		m. (MSL.) ,									
Right Bank Elevation		30.80		m. (MSL.) ,		Drainage Are	113	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.47	0.20	0.47	0.10	2.00	0.73	0.57	0.23	0.23	0.17	0.10	
2	0.47	0.40	0.20	0.40	0.23	1.60	0.97	0.57	0.20	0.20	0.27	0.07	
3	0.50	0.33	0.17	0.33	0.40	1.20	0.70	0.80	0.17	0.17	0.20	0.07	
4	0.50	0.27	0.43	0.43	0.40	1.40	3.45	0.57	0.13	0.17	0.17	0.07	
5	0.47	0.23	0.30	0.57	0.43	2.10	2.20	0.47	0.10	0.17	0.13	0.03	
6	0.47	0.20	0.33	0.37	0.57	1.40	2.90	0.63	0.10	0.13	0.10	0.03	
7	0.47	0.13	0.27	0.30	0.90	1.00	2.80	0.73	0.07	0.10	0.07	0.03	
8	0.47	0.10	0.57	0.30	0.73	0.97	1.40	0.57	0.07	0.10	0.07	0.03	
9	0.47	0.03	0.50	0.37	0.90	2.10	0.93	0.47	0.07	0.10	0.07	0.00	
10	0.47	0.00	0.50	0.37	2.10	2.10	0.83	0.40	0.03	0.10	0.07	0.00	
11	0.47	0.00	0.43	0.33	9.61	1.00	0.73	0.40	0.03	0.13	0.17	0.00	
12	0.47	0.00	0.37	0.33	6.57	0.87	0.67	0.37	0.10	0.40	0.10	0.00	
13	0.47	0.00	0.33	0.30	3.75	0.77	0.63	0.33	0.03	0.20	0.10	0.00	
14	0.47	0.00	0.30	0.33	2.40	0.73	1.80	0.53	0.03	0.20	0.10	0.00	
15	0.47	0.00	0.27	0.30	1.90	2.10	2.00	0.77	0.00	0.13	0.07	0.00	
16	0.47	0.00	0.30	0.30	1.60	4.95	4.95	0.50	0.00	0.13	0.07	0.00	
17	0.47	0.00	0.37	0.33	1.30	3.45	10.85	0.40	0.00	0.17	0.07	0.00	
18	0.47	0.00	0.47	0.23	1.30	2.50	6.19	0.37	0.00	0.17	0.10	0.00	
19	0.47	0.00	0.40	0.13	0.97	1.70	4.05	0.33	0.00	0.13	0.20	0.00	
20	0.47	0.00	0.47	0.23	0.90	1.30	11.06	0.30	0.00	0.13	0.13	0.00	
21	0.47	0.00	0.47	0.27	0.90	1.10	9.04	0.30	0.07	0.13	0.10	0.00	
22	0.47	0.00	0.40	0.17	0.80	4.80	4.65	0.23	0.03	0.10	0.07	0.00	
23	0.47	0.00	0.37	0.13	0.83	3.45	2.60	0.27	0.00	0.13	0.07	0.00	
24	0.47	0.00	0.40	0.17	0.77	2.10	1.80	0.23	0.00	0.07	0.07	0.00	
25	0.47	0.00	0.43	0.17	0.73	1.30	1.20	0.23	0.00	0.07	0.07	0.00	
26	0.47	0.00	0.40	0.17	0.77	0.97	0.90	0.23	0.00	0.07	0.07	0.00	
27	0.47	0.00	0.47	0.20	0.73	0.90	0.83	0.20	0.00	0.03	0.03	0.00	
28	0.47	0.00	0.90	0.13	0.70	0.83	0.80	0.33	1.40	0.07	0.13	0.00	
29	0.47	0.00	0.73	0.10	0.77	0.77	0.70	0.40	0.73	0.07	0.13	0.00	
30	0.47	0.00	0.57	0.10	0.87	0.70	0.63	0.27	0.37	0.03		0.00	
31		0.00		0.10	1.30		0.60		0.27	0.03		0.00	
Total	14.12	2.16	12.32	8.43	46.23	52.16	83.59	12.77	4.23	4.06	3.17	0.43	243.67 CMSDAY
Mean	0.47	0.07	0.41	0.27	1.49	1.74	2.70	0.43	0.14	0.13	0.11	0.01	0.67 CMS
Max	0.50	0.47	0.90	0.57	9.61	4.95	11.06	0.80	1.40	0.40	0.27	0.10	11.06 CMS
Min	0.43	0.00	0.17	0.10	0.10	0.70	0.60	0.20	0.00	0.03	0.03	0.00	0.00 CMS
Runoff	1.22	0.19	1.06	0.73	3.99	4.51	7.22	1.10	0.37	0.35	0.27	0.04	21.05 MCM
Momentary Peak	45.40 CMS. at 25.72 m. (MSL.) at 13.00 Hours , on Oct 17, 2019												
Runoff Yield	5.91 Liters/Second/Square KM.			Momentary Peak Yield 401.77 Liters/Second/Square KM.									

## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

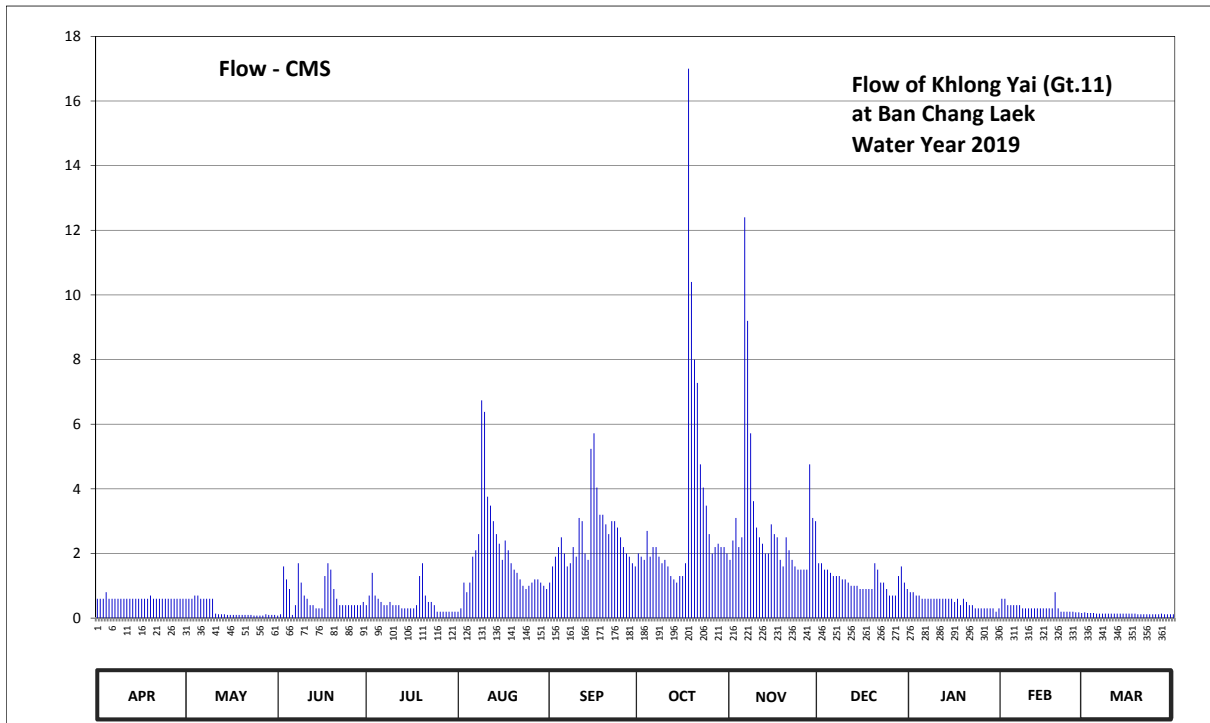
Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

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
<b>Drainage Area</b>	61 sq.km.				
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+37.600 m. (MSL.)				
<b>Bench Mark</b>	B.M.- Highways Dept.				
<b>Location BM</b>	On right bank at the abutment of the bridge.			<b>Elevation</b>	+45.340 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1979 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1980 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1980 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.04	38.04	37.94	38.02	38.00	38.09	38.18	38.16	38.15	38.06	38.04	37.99	
2	38.04	38.04	37.96	38.05	38.01	38.14	38.17	38.22	38.15	38.06	38.04	37.98	
3	38.04	38.04	38.14	38.12	38.09	38.17	38.16	38.29	38.13	38.05	38.02	37.98	
4	38.06	38.05	38.10	38.05	38.06	38.20	38.25	38.20	38.13	38.05	38.02	37.98	
5	38.04	38.05	38.07	38.04	38.09	38.23	38.17	38.23	38.12	38.04	38.02	37.97	
6	38.04	38.04	37.95	38.03	38.17	38.18	38.20	38.82	38.11	38.04	38.02	37.97	
7	38.04	38.04	38.02	38.02	38.19	38.14	38.20	38.66	38.11	38.04	38.02	37.97	
8	38.04	38.04	38.15	38.02	38.24	38.15	38.17	38.47	38.11	38.04	38.01	37.97	
9	38.04	38.04	38.09	38.03	38.53	38.20	38.15	38.33	38.10	38.04	38.01	37.97	
10	38.04	38.04	38.05	38.02	38.51	38.17	38.16	38.26	38.10	38.04	38.01	37.97	
11	38.04	37.97	38.04	38.02	38.34	38.29	38.14	38.23	38.09	38.04	38.01	37.97	
12	38.04	37.96	38.02	38.02	38.32	38.28	38.11	38.21	38.08	38.04	38.01	37.97	
13	38.04	37.96	38.02	38.01	38.28	38.18	38.10	38.18	38.08	38.04	38.01	37.97	
14	38.04	37.96	38.01	38.01	38.24	38.16	38.09	38.18	38.08	38.04	38.01	37.97	
15	38.04	37.95	38.01	38.01	38.21	38.44	38.11	38.27	38.07	38.04	38.01	37.97	
16	38.04	37.95	38.01	38.01	38.16	38.47	38.11	38.24	38.07	38.03	38.01	37.97	
17	38.04	37.95	38.11	38.01	38.22	38.36	38.15	38.23	38.07	38.04	38.01	37.97	
18	38.04	37.95	38.15	38.02	38.19	38.30	39.02	38.16	38.07	38.02	38.01	37.97	
19	38.05	37.95	38.13	38.11	38.15	38.30	38.72	38.14	38.07	38.04	38.06	37.96	
20	38.04	37.95	38.07	38.15	38.13	38.27	38.60	38.23	38.15	38.03	38.01	37.96	
21	38.04	37.95	38.04	38.05	38.12	38.24	38.56	38.19	38.13	38.02	38.00	37.96	
22	38.04	37.95	38.02	38.03	38.10	38.28	38.41	38.16	38.09	38.02	38.00	37.96	
23	38.04	37.95	38.02	38.03	38.08	38.28	38.36	38.14	38.09	38.01	38.00	37.96	
24	38.04	37.94	38.02	38.02	38.07	38.26	38.32	38.13	38.07	38.01	38.00	37.96	
25	38.04	37.94	38.02	38.00	38.08	38.23	38.24	38.13	38.05	38.01	38.00	37.96	
26	38.04	37.94	38.02	38.00	38.09	38.20	38.18	38.13	38.05	38.01	37.99	37.96	
27	38.04	37.94	38.02	38.00	38.10	38.18	38.20	38.13	38.05	38.01	37.99	37.97	
28	38.04	37.96	38.02	38.00	38.10	38.17	38.21	38.41	38.11	38.01	37.98	37.96	
29	38.04	37.95	38.02	38.00	38.09	38.15	38.20	38.29	38.14	38.01	37.99	37.96	
30	38.04	37.95	38.03	38.00	38.08	38.14	38.20	38.28	38.09	38.00		37.96	
31		37.95		38.00	38.07		38.18		38.07	38.01		37.96	
Mean	38.04	37.98	38.04	38.03	38.16	38.23	38.26	38.26	38.10	38.03	38.01	37.97	
Max	38.06	38.05	38.15	38.15	38.53	38.47	39.02	38.82	38.15	38.06	38.06	37.99	39.02
Min	38.04	37.94	37.94	38.00	38.00	38.09	38.09	38.13	38.05	38.00	37.98	37.96	37.94
Annual Max Momentary Gage Height	40.85		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	37.60		m. (MSL.) ,			River Bed	37.74		m. (MSL.)				
Left Bank Elevation		47.14		m. (MSL.) ,									
Right Bank Elevation		47.15		m. (MSL.) ,		Drainage Are	61		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.60	0.08	0.40	0.20	1.10	2.00	1.80	1.70	0.80	0.60	0.18	
2	0.60	0.60	0.12	0.70	0.30	1.60	1.90	2.40	1.70	0.80	0.60	0.16	
3	0.60	0.60	1.60	1.40	1.10	1.90	1.80	3.10	1.50	0.70	0.40	0.16	
4	0.80	0.70	1.20	0.70	0.80	2.20	2.70	2.20	1.50	0.70	0.40	0.16	
5	0.60	0.70	0.90	0.60	1.10	2.50	1.90	2.50	1.40	0.60	0.40	0.14	
6	0.60	0.60	0.10	0.50	1.90	2.00	2.20	12.40	1.30	0.60	0.40	0.14	
7	0.60	0.60	0.40	0.40	2.10	1.60	2.20	9.20	1.30	0.60	0.40	0.14	
8	0.60	0.60	1.70	0.40	2.60	1.70	1.90	5.72	1.30	0.60	0.30	0.14	
9	0.60	0.60	1.10	0.50	6.74	2.20	1.70	3.62	1.20	0.60	0.30	0.14	
10	0.60	0.60	0.70	0.40	6.38	1.90	1.80	2.80	1.20	0.60	0.30	0.14	
11	0.60	0.14	0.60	0.40	3.76	3.10	1.60	2.50	1.10	0.60	0.30	0.14	
12	0.60	0.12	0.40	0.40	3.48	3.00	1.30	2.30	1.00	0.60	0.30	0.14	
13	0.60	0.12	0.40	0.30	3.00	2.00	1.20	2.00	1.00	0.60	0.30	0.14	
14	0.60	0.12	0.30	0.30	2.60	1.80	1.10	2.00	1.00	0.60	0.30	0.14	
15	0.60	0.10	0.30	0.30	2.30	5.24	1.30	2.90	0.90	0.60	0.30	0.14	
16	0.60	0.10	0.30	0.30	1.80	5.72	1.30	2.60	0.90	0.50	0.30	0.14	
17	0.60	0.10	1.30	0.30	2.40	4.04	1.70	2.50	0.90	0.60	0.30	0.14	
18	0.60	0.10	1.70	0.40	2.10	3.20	17.00	1.80	0.90	0.40	0.30	0.14	
19	0.70	0.10	1.50	1.30	1.70	3.20	10.40	1.60	0.90	0.60	0.80	0.12	
20	0.60	0.10	0.90	1.70	1.50	2.90	8.00	2.50	1.70	0.50	0.30	0.12	
21	0.60	0.10	0.60	0.70	1.40	2.60	7.28	2.10	1.50	0.40	0.20	0.12	
22	0.60	0.10	0.40	0.50	1.20	3.00	4.76	1.80	1.10	0.40	0.20	0.12	
23	0.60	0.10	0.40	0.50	1.00	3.00	4.04	1.60	1.10	0.30	0.20	0.12	
24	0.60	0.08	0.40	0.40	0.90	2.80	3.48	1.50	0.90	0.30	0.20	0.12	
25	0.60	0.08	0.40	0.20	1.00	2.50	2.60	1.50	0.70	0.30	0.20	0.12	
26	0.60	0.08	0.40	0.20	1.10	2.20	2.00	1.50	0.70	0.30	0.18	0.12	
27	0.60	0.08	0.40	0.20	1.20	2.00	2.20	1.50	0.70	0.30	0.18	0.14	
28	0.60	0.12	0.40	0.20	1.20	1.90	2.30	4.76	1.30	0.30	0.16	0.12	
29	0.60	0.10	0.40	0.20	1.10	1.70	2.20	3.10	1.60	0.30	0.18	0.12	
30	0.60	0.10	0.50	0.20	1.00	1.60	2.20	3.00	1.10	0.20		0.12	
31		0.10		0.20	0.90		2.00		0.90	0.30		0.12	
<b>Total</b>	18.30	8.34	19.90	15.20	59.86	76.20	100.06	90.80	36.00	15.60	9.30	4.20	453.76 CMSDAY
<b>Mean</b>	0.61	0.27	0.66	0.49	1.93	2.54	3.23	3.03	1.16	0.50	0.32	0.14	1.24 CMS
<b>Max</b>	0.80	0.70	1.70	1.70	6.74	5.72	17.00	12.40	1.70	0.80	0.80	0.18	17.00 CMS
<b>Min</b>	0.60	0.08	0.08	0.20	0.20	1.10	1.10	1.50	0.70	0.20	0.16	0.12	0.08 CMS
<b>Runoff</b>	1.58	0.72	1.72	1.31	5.17	6.58	8.65	7.85	3.11	1.35	0.80	0.36	39.20 MCM
<b>Momentary Peak</b>	88.00 CMS. at 40.85 m. (MSL.) at 15.00 Hours , on Oct 18, 2019												
<b>Runoff Yield</b>	20.38 Liters/Second/Square KM.		Momentary Peak Yield		1442.62 Liters/Second/Square KM.								

## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Huai Yang at Ban Huai Yang , Prachuap Khiri Khan (Gt.17)

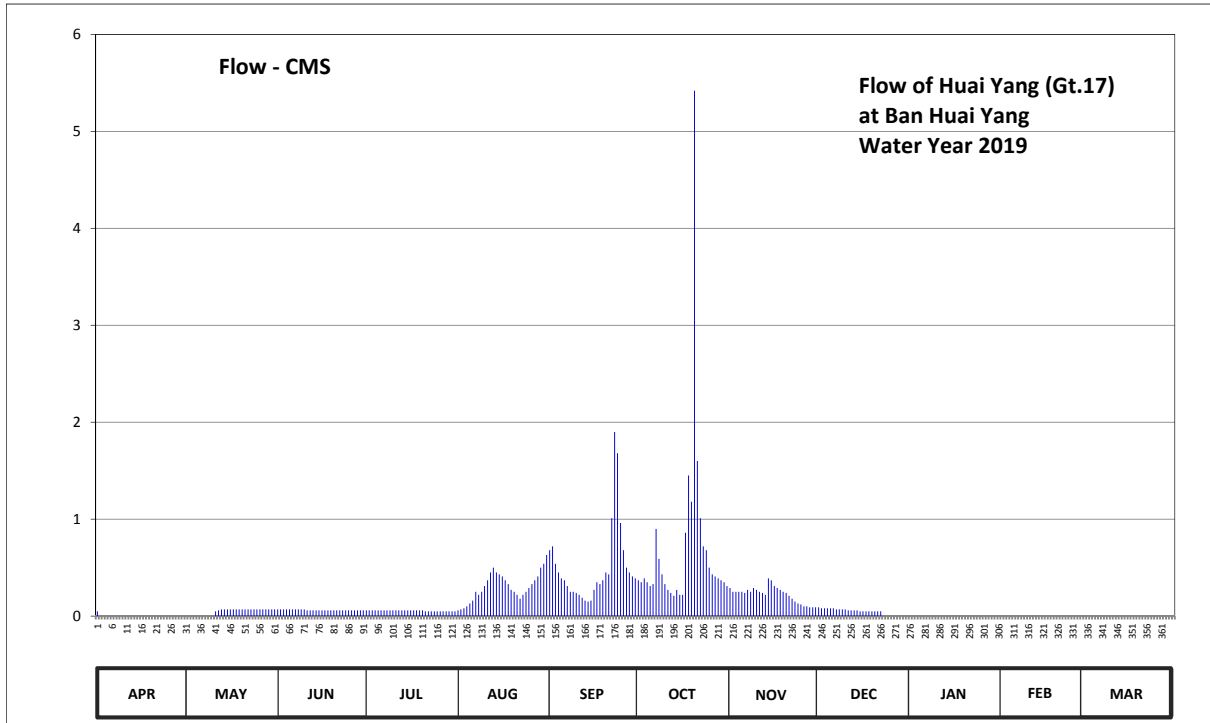
Lat 11 - 36 - 48 N Long 99 - 40 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 349.

	<b>Ban</b> Huai Yang	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	48 sq.km.		
<b>Type of Gage</b>	Staff gage.		
<b>Zero Gage at Bottom</b>	+8.800 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b> +14.491 m. (MSL.)	
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings.		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 6 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.00	8.95	9.04	9.01	9.01	9.35	9.26	9.22	9.07	8.97	8.95	8.95	
2	8.99	8.96	9.04	9.01	9.04	9.36	9.25	9.20	9.06	8.97	8.95	8.95	
3	8.99	8.96	9.04	9.01	9.06	9.32	9.27	9.20	9.06	8.97	8.95	8.95	
4	8.99	8.96	9.03	9.01	9.09	9.30	9.25	9.20	9.05	8.97	8.95	8.95	
5	8.99	8.97	9.03	9.01	9.12	9.27	9.23	9.20	9.05	8.96	8.95	8.95	
6	8.98	8.97	9.03	9.01	9.14	9.26	9.24	9.19	9.05	8.96	8.95	8.95	
7	8.98	8.97	9.03	9.01	9.20	9.23	9.40	9.21	9.04	8.96	8.95	8.95	
8	8.98	8.98	9.03	9.01	9.18	9.20	9.33	9.20	9.04	8.96	8.95	8.95	
9	8.98	8.98	9.03	9.01	9.20	9.20	9.29	9.22	9.03	8.96	8.95	8.95	
10	8.98	8.99	9.03	9.01	9.23	9.19	9.24	9.21	9.03	8.96	8.95	8.95	
11	8.97	9.00	9.02	9.01	9.26	9.18	9.21	9.20	9.02	8.96	8.95	8.95	
12	8.97	9.01	9.02	9.01	9.30	9.16	9.19	9.19	9.02	8.95	8.95	8.95	
13	8.97	9.03	9.02	9.01	9.31	9.14	9.17	9.18	9.01	8.95	8.95	8.95	
14	8.97	9.03	9.02	9.01	9.30	9.13	9.21	9.27	9.01	8.95	8.95	8.95	
15	8.97	9.03	9.02	9.01	9.29	9.14	9.18	9.26	9.00	8.95	8.95	8.95	
16	8.97	9.03	9.02	9.01	9.28	9.21	9.18	9.23	9.00	8.95	8.95	8.95	
17	8.97	9.03	9.02	9.01	9.26	9.25	9.39	9.22	9.00	8.95	8.95	8.95	
18	8.97	9.03	9.02	9.01	9.24	9.24	9.50	9.21	9.00	8.95	8.95	8.95	
19	8.97	9.03	9.01	9.01	9.21	9.26	9.45	9.20	9.00	8.95	8.95	8.95	
20	8.97	9.03	9.01	9.01	9.20	9.30	9.88	9.19	9.00	8.96	8.95	8.95	
21	8.96	9.03	9.01	9.00	9.18	9.29	9.52	9.17	9.00	8.96	8.95	8.95	
22	8.96	9.03	9.01	9.00	9.15	9.42	9.42	9.15	9.00	8.96	8.95	8.95	
23	8.96	9.03	9.01	9.00	9.18	9.56	9.36	9.13	8.99	8.96	8.95	8.95	
24	8.96	9.03	9.01	9.00	9.20	9.53	9.35	9.12	8.99	8.96	8.95	8.95	
25	8.96	9.03	9.01	9.00	9.22	9.41	9.31	9.11	8.99	8.96	8.95	8.95	
26	8.96	9.03	9.01	9.00	9.24	9.35	9.29	9.10	8.98	8.95	8.95	8.95	
27	8.95	9.03	9.01	9.00	9.26	9.31	9.28	9.09	8.98	8.95	8.95	8.95	
28	8.95	9.03	9.01	9.00	9.28	9.30	9.27	9.08	8.98	8.95	8.95	8.95	
29	8.95	9.03	9.01	9.00	9.31	9.28	9.26	9.07	8.98	8.95	8.95	8.95	
30	8.95	9.03	9.01	9.00	9.32	9.27	9.25	9.07	8.97	8.95	8.95	8.95	
31		9.03		9.00	9.34		9.23		8.97	8.95		8.95	
Mean	8.97	9.01	9.02	9.01	9.21	9.28	9.31	9.18	9.01	8.96	8.95	8.95	
Max	9.00	9.03	9.04	9.01	9.34	9.56	9.88	9.27	9.07	8.97	8.95	8.95	9.88
Min	8.95	8.95	9.01	9.00	9.01	9.13	9.17	9.07	8.97	8.95	8.95	8.95	8.95
Annual Max Momentary Gage Height	10.11		m. (MSL.) ,				at 06.00 Hours ,						
Zero Gage at Bottom Elevation	8.80		m. (MSL.) ,			River Bed	8.84		m. (MSL.)				
Left Bank Elevation	14.54		m. (MSL.) ,										
Right Bank Elevation	14.56		m. (MSL.) ,			Drainage Are	48		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.00	0.07	0.06	0.06	0.68	0.37	0.29	0.09	0.00	0.00	0.00	
2	0.00	0.00	0.07	0.06	0.07	0.72	0.35	0.25	0.08	0.00	0.00	0.00	
3	0.00	0.00	0.07	0.06	0.08	0.54	0.39	0.25	0.08	0.00	0.00	0.00	
4	0.00	0.00	0.07	0.06	0.10	0.45	0.35	0.25	0.08	0.00	0.00	0.00	
5	0.00	0.00	0.07	0.06	0.13	0.39	0.31	0.25	0.08	0.00	0.00	0.00	
6	0.00	0.00	0.07	0.06	0.16	0.37	0.33	0.24	0.08	0.00	0.00	0.00	
7	0.00	0.00	0.07	0.06	0.25	0.31	0.90	0.27	0.07	0.00	0.00	0.00	
8	0.00	0.00	0.07	0.06	0.22	0.25	0.59	0.25	0.07	0.00	0.00	0.00	
9	0.00	0.00	0.07	0.06	0.25	0.25	0.43	0.29	0.07	0.00	0.00	0.00	
10	0.00	0.00	0.07	0.06	0.31	0.24	0.33	0.27	0.07	0.00	0.00	0.00	
11	0.00	0.05	0.06	0.06	0.37	0.22	0.27	0.25	0.06	0.00	0.00	0.00	
12	0.00	0.06	0.06	0.06	0.45	0.19	0.24	0.24	0.06	0.00	0.00	0.00	
13	0.00	0.07	0.06	0.06	0.50	0.16	0.21	0.22	0.06	0.00	0.00	0.00	
14	0.00	0.07	0.06	0.06	0.45	0.15	0.27	0.39	0.06	0.00	0.00	0.00	
15	0.00	0.07	0.06	0.06	0.43	0.16	0.22	0.37	0.05	0.00	0.00	0.00	
16	0.00	0.07	0.06	0.06	0.41	0.27	0.22	0.31	0.05	0.00	0.00	0.00	
17	0.00	0.07	0.06	0.06	0.37	0.35	0.86	0.29	0.05	0.00	0.00	0.00	
18	0.00	0.07	0.06	0.06	0.33	0.33	1.45	0.27	0.05	0.00	0.00	0.00	
19	0.00	0.07	0.06	0.06	0.27	0.37	1.18	0.25	0.05	0.00	0.00	0.00	
20	0.00	0.07	0.06	0.06	0.25	0.45	5.42	0.24	0.05	0.00	0.00	0.00	
21	0.00	0.07	0.06	0.05	0.22	0.43	1.60	0.21	0.05	0.00	0.00	0.00	
22	0.00	0.07	0.06	0.05	0.18	1.01	1.01	0.18	0.05	0.00	0.00	0.00	
23	0.00	0.07	0.06	0.05	0.22	1.90	0.72	0.15	0.00	0.00	0.00	0.00	
24	0.00	0.07	0.06	0.05	0.25	1.68	0.68	0.13	0.00	0.00	0.00	0.00	
25	0.00	0.07	0.06	0.05	0.29	0.96	0.50	0.12	0.00	0.00	0.00	0.00	
26	0.00	0.07	0.06	0.05	0.33	0.68	0.43	0.10	0.00	0.00	0.00	0.00	
27	0.00	0.07	0.06	0.05	0.37	0.50	0.41	0.10	0.00	0.00	0.00	0.00	
28	0.00	0.07	0.06	0.05	0.41	0.45	0.39	0.09	0.00	0.00	0.00	0.00	
29	0.00	0.07	0.06	0.05	0.50	0.41	0.37	0.09	0.00	0.00	0.00	0.00	
30	0.00	0.07	0.06	0.05	0.54	0.39	0.35	0.09	0.00	0.00	0.00	0.00	
31	0.00	0.07	0.06	0.05	0.63	0.31	0.31	0.00	0.00	0.00	0.00	0.00	
Total	0.05	1.44	1.90	1.75	9.40	15.26	21.46	6.70	1.41	0.00	0.00	0.00	59.37 CMSDAY
Mean	0.00	0.05	0.06	0.06	0.30	0.51	0.69	0.22	0.05	0.00	0.00	0.00	0.16 CMS
Max	0.05	0.07	0.07	0.06	0.63	1.90	5.42	0.39	0.09	0.00	0.00	0.00	5.42 CMS
Min	0.00	0.00	0.06	0.05	0.06	0.15	0.21	0.09	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.12	0.16	0.15	0.81	1.32	1.85	0.58	0.12	0.00	0.00	0.00	5.13 MCM
Momentary Peak	9.40	CMS. at 10.11 m. (MSL.) at 06.00 Hours , on Oct 20, 2019											
Runoff Yield	3.39	Liters/Second/Square KM. Momentary Peak Yield 195.83 Liters/Second/Square KM.											



## WATER YEAR : 2019

## WEST COAST - GULF BASIN

## Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)

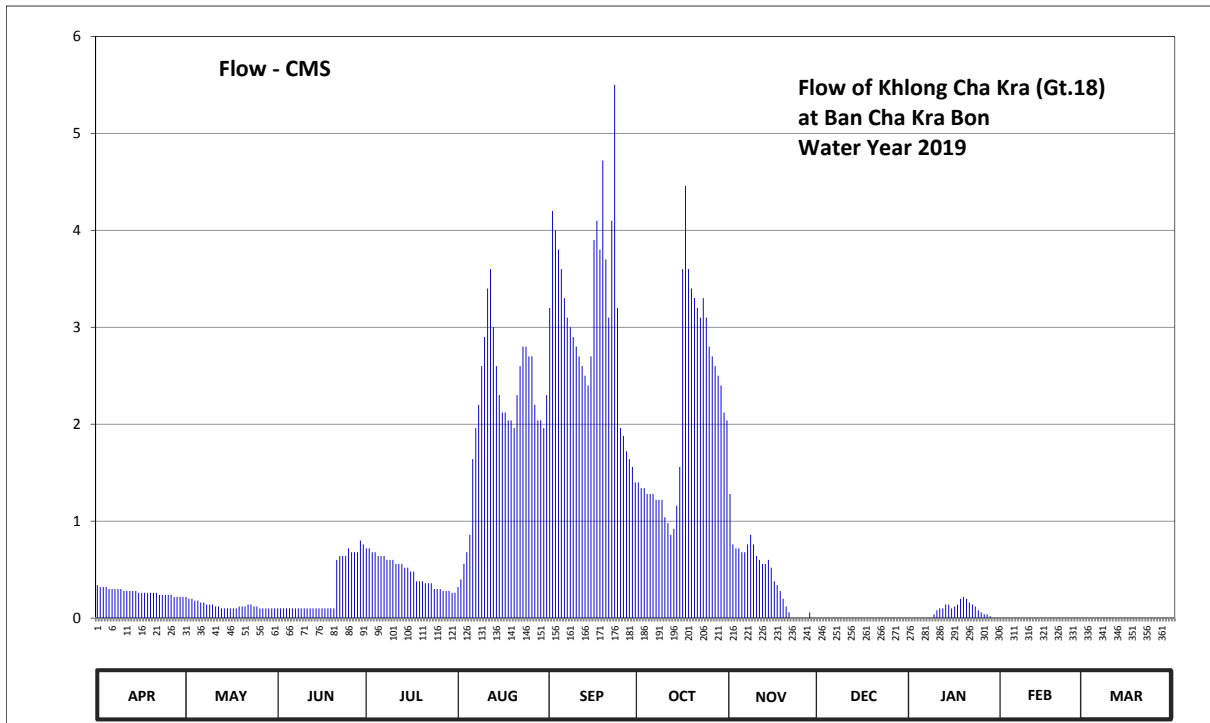
Lat 11 - 26 - 48 N Long 99 - 34 - 09 E

Location : on left bank at the bridge of Phet Kasem Highway.

	<b>Ban</b> Cha Kra Bon	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	88 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+11.700 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+17.220 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1987 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1987 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.57	12.51	12.45	12.68	12.56	13.00	12.80	12.78	12.30	12.31	12.39	12.29	
2	12.56	12.50	12.45	12.68	12.60	13.10	12.79	12.69	12.29	12.33	12.38	12.28	
3	12.56	12.50	12.45	12.67	12.64	13.08	12.79	12.68	12.28	12.34	12.38	12.28	
4	12.56	12.49	12.45	12.67	12.67	13.06	12.78	12.68	12.27	12.35	12.37	12.27	
5	12.55	12.49	12.45	12.66	12.71	13.04	12.78	12.67	12.27	12.37	12.37	12.27	
6	12.55	12.48	12.45	12.66	12.83	13.01	12.78	12.67	12.26	12.38	12.37	12.27	
7	12.55	12.48	12.45	12.66	12.87	12.99	12.77	12.69	12.26	12.40	12.36	12.26	
8	12.55	12.47	12.45	12.65	12.90	12.98	12.77	12.71	12.24	12.40	12.36	12.26	
9	12.55	12.47	12.45	12.65	12.94	12.97	12.77	12.69	12.23	12.42	12.36	12.25	
10	12.54	12.47	12.45	12.65	12.97	12.96	12.74	12.66	12.22	12.44	12.36	12.24	
11	12.54	12.46	12.45	12.64	13.02	12.95	12.73	12.65	12.21	12.45	12.35	12.24	
12	12.54	12.46	12.45	12.64	13.04	12.94	12.71	12.64	12.20	12.45	12.35	12.23	
13	12.54	12.45	12.45	12.64	12.98	12.93	12.72	12.64	12.20	12.47	12.35	12.23	
14	12.54	12.45	12.45	12.63	12.94	12.92	12.76	12.65	12.20	12.47	12.34	12.23	
15	12.53	12.45	12.45	12.63	12.91	12.95	12.82	12.63	12.19	12.45	12.34	12.23	
16	12.53	12.45	12.45	12.62	12.89	13.07	13.04	12.59	12.19	12.46	12.34	12.23	
17	12.53	12.45	12.45	12.62	12.89	13.09	13.12	12.57	12.19	12.47	12.34	12.23	
18	12.53	12.45	12.45	12.59	12.88	13.06	13.04	12.54	12.19	12.50	12.33	12.23	
19	12.53	12.46	12.45	12.59	12.88	13.14	13.02	12.50	12.19	12.51	12.33	12.23	
20	12.53	12.46	12.45	12.59	12.87	13.05	13.01	12.46	12.18	12.50	12.33	12.23	
21	12.53	12.46	12.65	12.58	12.91	12.99	13.00	12.43	12.18	12.48	12.32	12.23	
22	12.52	12.47	12.66	12.58	12.94	13.09	12.99	12.39	12.18	12.47	12.32	12.23	
23	12.52	12.47	12.66	12.58	12.96	13.20	13.01	12.38	12.18	12.46	12.32	12.23	
24	12.52	12.46	12.66	12.55	12.96	13.00	12.99	12.36	12.18	12.44	12.31	12.23	
25	12.52	12.46	12.68	12.55	12.95	12.87	12.96	12.34	12.17	12.43	12.31	12.23	
26	12.52	12.45	12.67	12.55	12.95	12.86	12.95	12.32	12.17	12.42	12.31	12.23	
27	12.51	12.45	12.67	12.54	12.90	12.84	12.94	12.23	12.17	12.42	12.30	12.23	
28	12.51	12.45	12.67	12.54	12.88	12.83	12.93	12.43	12.17	12.41	12.30	12.23	
29	12.51	12.45	12.70	12.54	12.88	12.82	12.92	12.34	12.17	12.40	12.29	12.23	
30	12.51	12.45	12.69	12.53	12.87	12.80	12.89	12.31	12.17	12.40	12.29	12.23	
31		12.45		12.53	12.91		12.88		12.17	12.39		12.23	
Mean	12.53	12.47	12.52	12.61	12.87	12.99	12.88	12.54	12.21	12.43	12.34	12.24	
Max	12.57	12.51	12.70	12.68	13.04	13.20	13.12	12.78	12.30	12.51	12.39	12.29	13.20
Min	12.51	12.45	12.45	12.53	12.56	12.80	12.71	12.23	12.17	12.31	12.29	12.23	12.17
Annual Max Momentary Gage Height	13.32		m. (MSL.) ,			at 18.00 Hours ,	on Oct 16, 2019						
Zero Gage at Bottom Elevation	11.70		m. (MSL.) ,			River Bed	12.18	m. (MSL.)					
Left Bank Elevation		17.27		m. (MSL.) ,									
Right Bank Elevation		17.28		m. (MSL.) ,		Drainage Are	88	Square Kilometers					



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.22	0.10	0.72	0.32	3.20	1.40	1.28	0.00	0.00	0.00	0.00	
2	0.32	0.20	0.10	0.72	0.40	4.20	1.34	0.76	0.00	0.00	0.00	0.00	
3	0.32	0.20	0.10	0.68	0.56	4.00	1.34	0.72	0.00	0.00	0.00	0.00	
4	0.32	0.18	0.10	0.68	0.68	3.80	1.28	0.72	0.00	0.00	0.00	0.00	
5	0.30	0.18	0.10	0.64	0.86	3.60	1.28	0.68	0.00	0.00	0.00	0.00	
6	0.30	0.16	0.10	0.64	1.64	3.30	1.28	0.68	0.00	0.00	0.00	0.00	
7	0.30	0.16	0.10	0.64	1.96	3.10	1.22	0.76	0.00	0.00	0.00	0.00	
8	0.30	0.14	0.10	0.60	2.20	3.00	1.22	0.86	0.00	0.00	0.00	0.00	
9	0.30	0.14	0.10	0.60	2.60	2.90	1.22	0.76	0.00	0.04	0.00	0.00	
10	0.28	0.14	0.10	0.60	2.90	2.80	1.04	0.64	0.00	0.08	0.00	0.00	
11	0.28	0.12	0.10	0.56	3.40	2.70	0.98	0.60	0.00	0.10	0.00	0.00	
12	0.28	0.12	0.10	0.56	3.60	2.60	0.86	0.56	0.00	0.10	0.00	0.00	
13	0.28	0.10	0.10	0.56	3.00	2.50	0.92	0.56	0.00	0.14	0.00	0.00	
14	0.28	0.10	0.10	0.52	2.60	2.40	1.16	0.60	0.00	0.14	0.00	0.00	
15	0.26	0.10	0.10	0.52	2.30	2.70	1.56	0.52	0.00	0.10	0.00	0.00	
16	0.26	0.10	0.10	0.48	2.12	3.90	3.60	0.38	0.00	0.12	0.00	0.00	
17	0.26	0.10	0.10	0.48	2.12	4.10	4.46	0.34	0.00	0.14	0.00	0.00	
18	0.26	0.10	0.10	0.38	2.04	3.80	3.60	0.28	0.00	0.20	0.00	0.00	
19	0.26	0.12	0.10	0.38	2.04	4.72	3.40	0.20	0.00	0.22	0.00	0.00	
20	0.26	0.12	0.10	0.38	1.96	3.70	3.30	0.12	0.00	0.20	0.00	0.00	
21	0.26	0.12	0.60	0.36	2.30	3.10	3.20	0.06	0.00	0.16	0.00	0.00	
22	0.24	0.14	0.64	0.36	2.60	4.10	3.10	0.00	0.00	0.14	0.00	0.00	
23	0.24	0.14	0.64	0.36	2.80	5.50	3.30	0.00	0.00	0.12	0.00	0.00	
24	0.24	0.12	0.64	0.30	2.80	3.20	3.10	0.00	0.00	0.08	0.00	0.00	
25	0.24	0.12	0.72	0.30	2.70	1.96	2.80	0.00	0.00	0.06	0.00	0.00	
26	0.24	0.10	0.68	0.30	2.70	1.88	2.70	0.00	0.00	0.04	0.00	0.00	
27	0.22	0.10	0.68	0.28	2.20	1.72	2.60	0.00	0.00	0.04	0.00	0.00	
28	0.22	0.10	0.68	0.28	2.04	1.64	2.50	0.06	0.00	0.02	0.00	0.00	
29	0.22	0.10	0.80	0.28	2.04	1.56	2.40	0.00	0.00	0.00	0.00	0.00	
30	0.22	0.10	0.76	0.26	1.96	1.40	2.12	0.00	0.00	0.00	0.00	0.00	
31		0.10		0.26	2.30		2.04		0.00	0.00		0.00	
Total	8.10	4.04	8.84	14.68	65.74	93.08	66.32	12.14	0.00	2.24	0.00	0.00	275.18 CMSDAY
Mean	0.27	0.13	0.29	0.47	2.12	3.10	2.14	0.40	0.00	0.07	0.00	0.00	0.75 CMS
Max	0.34	0.22	0.80	0.72	3.60	5.50	4.46	1.28	0.00	0.22	0.00	0.00	5.50 CMS
Min	0.22	0.10	0.10	0.26	0.32	1.40	0.86	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.70	0.35	0.76	1.27	5.68	8.04	5.73	1.05	0.00	0.19	0.00	0.00	23.78 MCM
Momentary Peak	7.08	CMS. at 13.32 m. (MSL.) at 18.00 Hours , on Oct 16, 2019											
Runoff Yield	8.57	Liters/Second/Square KM. Momentary Peak Yield 80.45 Liters/Second/Square KM.											

## WATER YEAR : 2019

## KUI BURI RIVER BASIN

## Kui Buri River at Ban Thung Faek , Prachuap Khiri Khan (Ky.3)

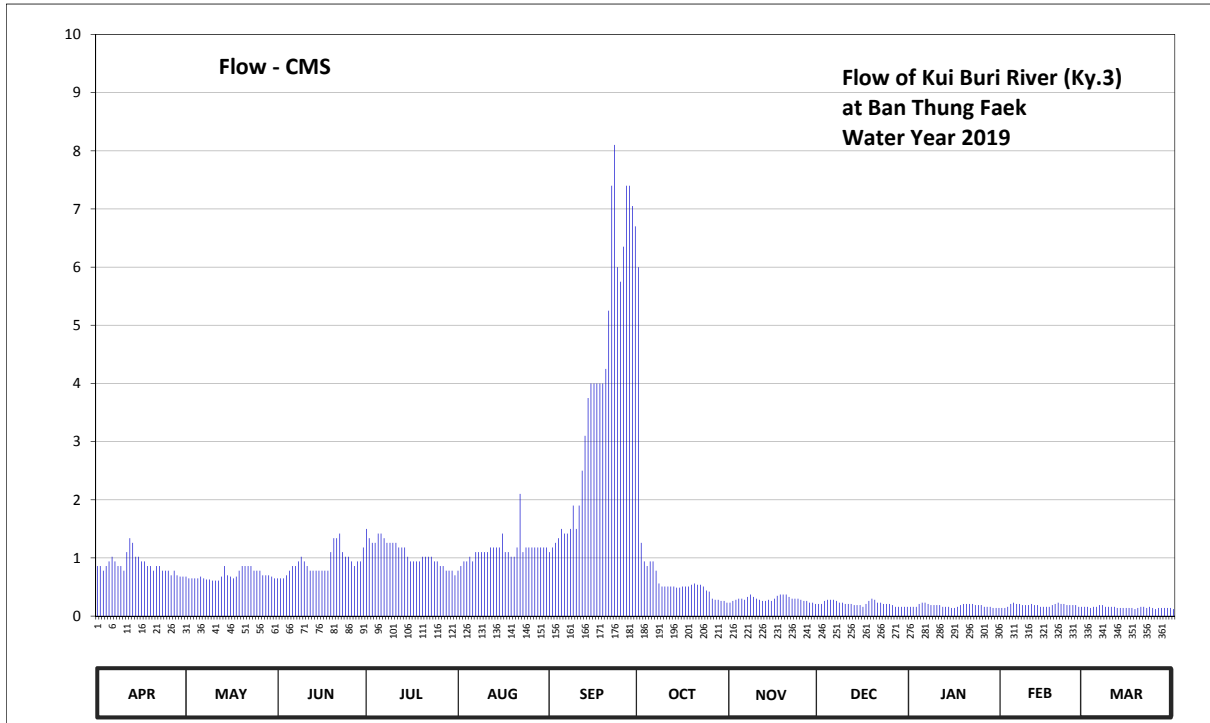
Lat 12 - 05 - 46 N Long 99 - 47 - 26 E

Location : on left bank at Bunchuai Bamrungrat Bridge near Wat Udom Wararam.

	<b>Ban Thung Faek</b>	<b>Amphoe</b>	<b>Kui Buri</b>	<b>Changwat</b>	<b>Prachuap Khiri Khan</b>
<b>Drainage Area</b>	537	sq.km.			
<b>Type of Gage</b>	Water - stage recorder				
<b>Zero Gage at Bottom</b>	+19.789	m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.				
<b>Location BM</b>	On left bank about 1 meter from the top staff gage.			<b>Elevation</b>	+25.925 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording				
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings				
<b>Period of Available Gage Records</b>	1997 to date				
<b>Rating Operation</b>					
<b>Period of Rating</b>	1997 to date				
<b>Rated by Flot</b>	-				
<b>Rated by Current Meter</b>	1997 to date				
<b>Stability of Channel Regimes</b>	Stable.				
<b>Overbank Flow Conditions</b>	No overbank flow.				
<b>General Description</b>	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2019.				

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

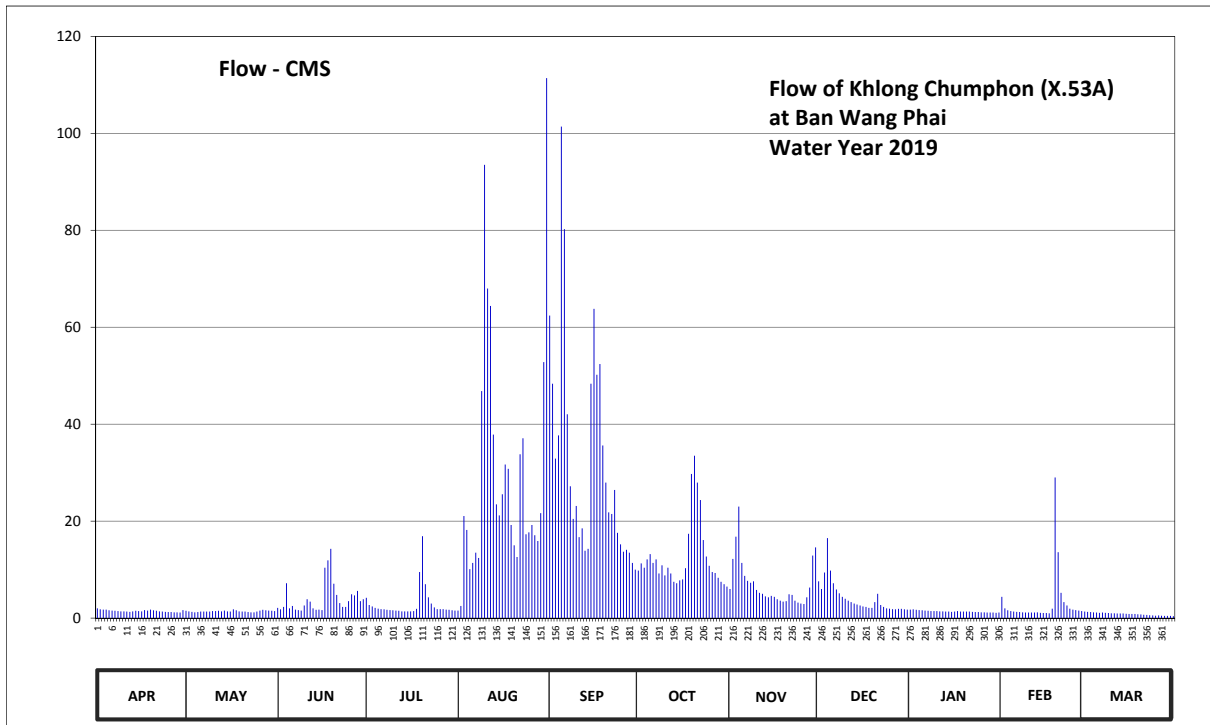
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.72	20.69	20.68	20.80	20.71	20.75	21.00	20.50	20.49	20.47	20.46	20.47	
2	20.72	20.68	20.68	20.78	20.72	20.76	20.77	20.51	20.49	20.47	20.46	20.47	
3	20.71	20.68	20.68	20.77	20.73	20.77	20.73	20.52	20.51	20.47	20.47	20.46	
4	20.72	20.68	20.70	20.77	20.73	20.78	20.72	20.53	20.52	20.49	20.49	20.47	
5	20.73	20.68	20.71	20.79	20.74	20.80	20.73	20.53	20.52	20.50	20.50	20.47	
6	20.74	20.69	20.72	20.79	20.73	20.79	20.73	20.52	20.52	20.50	20.49	20.48	
7	20.73	20.68	20.72	20.78	20.75	20.79	20.71	20.54	20.51	20.49	20.49	20.48	
8	20.72	20.67	20.73	20.77	20.75	20.80	20.64	20.56	20.50	20.48	20.48	20.47	
9	20.72	20.67	20.74	20.77	20.75	20.82	20.62	20.54	20.50	20.48	20.48	20.47	
10	20.71	20.66	20.73	20.77	20.75	20.80	20.62	20.53	20.49	20.48	20.48	20.47	
11	20.75	20.66	20.72	20.77	20.75	20.82	20.62	20.52	20.49	20.48	20.49	20.47	
12	20.78	20.66	20.71	20.76	20.76	20.85	20.62	20.51	20.49	20.47	20.48	20.46	
13	20.77	20.69	20.71	20.76	20.76	20.88	20.62	20.51	20.48	20.47	20.48	20.46	
14	20.74	20.72	20.71	20.76	20.76	20.91	20.61	20.52	20.48	20.47	20.47	20.46	
15	20.74	20.70	20.71	20.74	20.76	20.92	20.61	20.51	20.48	20.46	20.47	20.46	
16	20.73	20.69	20.71	20.73	20.79	20.92	20.62	20.53	20.47	20.46	20.47	20.46	
17	20.73	20.68	20.71	20.73	20.75	20.92	20.62	20.55	20.49	20.47	20.47	20.46	
18	20.72	20.69	20.71	20.73	20.75	20.92	20.62	20.56	20.51	20.48	20.48	20.45	
19	20.72	20.71	20.75	20.73	20.74	20.92	20.63	20.56	20.53	20.49	20.49	20.46	
20	20.71	20.72	20.78	20.74	20.74	20.93	20.64	20.56	20.52	20.49	20.50	20.47	
21	20.72	20.72	20.78	20.74	20.76	20.97	20.63	20.54	20.50	20.49	20.49	20.47	
22	20.72	20.72	20.79	20.74	20.83	21.04	20.63	20.53	20.50	20.49	20.49	20.46	
23	20.71	20.72	20.75	20.74	20.75	21.06	20.62	20.53	20.49	20.48	20.48	20.47	
24	20.71	20.71	20.74	20.73	20.76	21.00	20.59	20.53	20.49	20.48	20.48	20.46	
25	20.71	20.71	20.74	20.73	20.76	20.99	20.58	20.52	20.49	20.48	20.48	20.45	
26	20.70	20.71	20.73	20.72	20.76	21.01	20.53	20.51	20.48	20.47	20.48	20.46	
27	20.71	20.70	20.72	20.72	20.76	21.04	20.52	20.51	20.47	20.47	20.47	20.46	
28	20.70	20.70	20.73	20.71	20.76	21.04	20.52	20.50	20.47	20.47	20.47	20.46	
29	20.69	20.70	20.73	20.71	20.76	21.03	20.51	20.50	20.47	20.46	20.47	20.46	
30	20.69	20.69	20.76	20.71	20.76	21.02	20.51	20.49	20.47	20.46	20.46	20.46	
31		20.68		20.70	20.76		20.50		20.47	20.46		20.45	
Mean	20.72	20.69	20.73	20.75	20.75	20.90	20.63	20.53	20.49	20.48	20.48	20.46	
Max	20.78	20.72	20.79	20.80	20.83	21.06	21.00	20.56	20.53	20.50	20.50	20.48	21.06
Min	20.69	20.66	20.68	20.70	20.71	20.75	20.50	20.49	20.47	20.46	20.46	20.45	20.45
Annual Max Momentary Gage Height	21.10		m. (MSL.) ,			at 22.00 Hours , on Sep 22 , 2019							
Zero Gage at Bottom Elevation	19.80		m. (MSL.) ,			River Bed 19.75	m. (MSL.)						
Left Bank Elevation		25.92		m. (MSL.) ,									
Right Bank Elevation		25.92		m. (MSL.) ,		Drainage Are	537	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual			
1	0.86	0.68	0.65	1.50	0.78	1.10	6.00	0.23	0.21	0.16	0.14	0.16				
2	0.86	0.65	0.65	1.34	0.86	1.18	1.26	0.26	0.21	0.16	0.14	0.16				
3	0.78	0.65	0.65	1.26	0.94	1.26	0.94	0.28	0.26	0.16	0.16	0.14				
4	0.86	0.65	0.70	1.26	0.94	1.34	0.86	0.30	0.28	0.21	0.21	0.16				
5	0.94	0.65	0.78	1.42	1.02	1.50	0.94	0.30	0.28	0.23	0.23	0.16				
6	1.02	0.68	0.86	1.42	0.94	1.42	0.94	0.28	0.28	0.23	0.21	0.19				
7	0.94	0.65	0.86	1.34	1.10	1.42	0.78	0.33	0.26	0.21	0.21	0.19				
8	0.86	0.63	0.94	1.26	1.10	1.50	0.56	0.37	0.23	0.19	0.19	0.16				
9	0.86	0.63	1.02	1.26	1.10	1.90	0.51	0.33	0.23	0.19	0.19	0.16				
10	0.78	0.61	0.94	1.26	1.10	1.50	0.51	0.30	0.21	0.19	0.19	0.16				
11	1.10	0.61	0.86	1.26	1.10	1.90	0.51	0.28	0.21	0.19	0.21	0.16				
12	1.34	0.61	0.78	1.18	1.18	2.50	0.51	0.26	0.21	0.16	0.19	0.14				
13	1.26	0.68	0.78	1.18	1.18	3.10	0.51	0.26	0.19	0.16	0.19	0.14				
14	1.02	0.86	0.78	1.18	1.18	3.75	0.49	0.28	0.19	0.16	0.16	0.14				
15	1.02	0.70	0.78	1.02	1.18	4.00	0.49	0.26	0.19	0.14	0.16	0.14				
16	0.94	0.68	0.78	0.94	1.42	4.00	0.51	0.30	0.16	0.14	0.16	0.14				
17	0.94	0.65	0.78	0.94	1.10	4.00	0.51	0.35	0.21	0.16	0.16	0.14				
18	0.86	0.68	0.78	0.94	1.10	4.00	0.51	0.37	0.26	0.19	0.19	0.12				
19	0.86	0.78	1.10	0.94	1.02	4.00	0.54	0.37	0.30	0.21	0.21	0.14				
20	0.78	0.86	1.34	1.02	1.02	4.25	0.56	0.37	0.28	0.21	0.23	0.16				
21	0.86	0.86	1.34	1.02	1.18	5.25	0.54	0.33	0.23	0.21	0.21	0.16				
22	0.86	0.86	1.42	1.02	2.10	7.40	0.54	0.30	0.23	0.21	0.21	0.14				
23	0.78	0.86	1.10	1.02	1.10	8.10	0.51	0.30	0.21	0.19	0.19	0.16				
24	0.78	0.78	1.02	0.94	1.18	6.00	0.44	0.30	0.21	0.19	0.19	0.14				
25	0.78	0.78	1.02	0.94	1.18	5.75	0.42	0.28	0.21	0.19	0.19	0.12				
26	0.70	0.78	0.94	0.86	1.18	6.35	0.30	0.26	0.19	0.16	0.19	0.14				
27	0.78	0.70	0.86	0.86	1.18	7.40	0.28	0.26	0.16	0.16	0.16	0.14				
28	0.70	0.70	0.94	0.78	1.18	7.40	0.28	0.23	0.16	0.16	0.16	0.14				
29	0.68	0.70	0.94	0.78	1.18	7.05	0.26	0.23	0.16	0.14	0.16	0.14				
30	0.68	0.68	1.18	0.78	1.18	6.70	0.26	0.21	0.16	0.14		0.14				
31		0.65		0.70	1.18		0.23		0.16	0.14		0.12				
<b>Total</b>	26.48	21.94	27.57	33.62	35.18	117.02	22.50	8.78	6.73	5.54	5.39	4.60	315.35 CMSDAY			
<b>Mean</b>	0.88	0.71	0.92	1.08	1.13	3.90	0.73	0.29	0.22	0.18	0.19	0.15	0.86 CMS			
<b>Max</b>	1.34	0.86	1.42	1.50	2.10	8.10	6.00	0.37	0.30	0.23	0.23	0.19	8.10 CMS			
<b>Min</b>	0.68	0.61	0.65	0.70	0.78	1.10	0.23	0.21	0.16	0.14	0.14	0.12	0.12 CMS			
<b>Runoff</b>	2.29	1.90	2.38	2.90	3.04	10.11	1.94	0.76	0.58	0.48	0.47	0.40	27.25 MCM			
<b>Momentary Peak</b>	9.50	CMS. at 21.10 m. (MSL.) at 22.00 Hours , on Sep 22, 2019														
<b>Runoff Yield</b>	1.61	Liters/Second/Square KM.											Momentary Peak Yield	17.69	Liters/Second/Square KM.	





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	1.50	2.10	4.20	1.55	62.40	9.80	6.00	7.60	1.75	4.40	1.35	
2	1.80	1.40	1.80	2.70	2.50	48.35	11.30	12.20	6.00	1.80	2.00	1.30	
3	1.75	1.30	2.30	2.40	21.05	32.90	10.40	16.80	9.40	1.70	1.60	1.25	
4	1.75	1.20	7.20	2.10	18.20	37.70	12.10	23.00	16.50	1.65	1.45	1.20	
5	1.60	1.25	2.00	1.95	10.10	101.40	13.20	11.40	9.80	1.60	1.35	1.15	
6	1.55	1.35	2.50	1.85	11.40	80.25	11.40	8.70	7.20	1.55	1.30	1.10	
7	1.50	1.35	1.75	1.80	13.50	42.05	12.10	7.70	5.90	1.50	1.25	1.15	
8	1.45	1.35	1.65	1.70	12.40	27.20	9.20	7.30	5.10	1.45	1.20	1.10	
9	1.40	1.35	1.55	1.65	46.85	20.45	10.90	7.60	4.40	1.45	1.15	1.05	
10	1.40	1.45	2.60	1.60	93.50	23.15	8.80	5.80	4.00	1.45	1.15	1.00	
11	1.35	1.45	3.90	1.55	68.00	16.70	10.40	5.20	3.60	1.40	1.15	1.00	
12	1.30	1.50	3.40	1.50	64.40	18.50	9.20	5.00	3.30	1.40	1.15	0.95	
13	1.40	1.40	2.00	1.40	37.85	13.90	7.50	4.50	3.00	1.35	1.20	0.95	
14	1.50	1.55	1.70	1.40	23.45	14.30	7.20	4.30	2.80	1.35	1.10	0.95	
15	1.45	1.40	1.75	1.40	21.20	48.35	7.80	4.60	2.60	1.30	1.05	0.90	
16	1.40	1.35	1.65	1.40	25.55	63.80	8.00	4.40	2.40	1.35	1.05	0.85	
17	1.65	1.80	10.40	1.45	31.70	50.20	10.30	3.90	2.30	1.45	1.00	0.85	
18	1.55	1.60	11.90	1.90	30.80	52.40	17.40	3.60	2.10	1.35	1.95	0.85	
19	1.75	1.40	14.30	9.50	19.20	35.60	29.75	3.40	2.10	1.35	29.00	0.80	
20	1.60	1.35	7.10	16.90	15.00	27.95	33.50	3.50	3.30	1.35	13.60	0.75	
21	1.50	1.35	4.80	7.00	12.60	21.80	27.95	4.90	5.00	1.35	5.20	0.70	
22	1.40	1.25	3.10	4.30	33.80	21.50	24.35	4.80	2.70	1.30	3.30	0.65	
23	1.35	1.20	2.30	3.00	37.10	26.45	16.10	3.60	2.30	1.25	2.60	0.60	
24	1.30	1.20	2.30	2.20	17.30	17.60	12.70	3.20	2.00	1.25	1.95	0.55	
25	1.25	1.35	3.50	1.85	17.70	15.20	10.80	3.00	1.95	1.20	1.75	0.50	
26	1.25	1.55	4.90	1.85	19.20	13.70	9.50	2.90	1.85	1.20	1.65	0.55	
27	1.20	1.70	4.70	1.85	17.10	14.10	9.30	4.30	1.80	1.15	1.55	0.50	
28	1.20	1.60	5.60	1.75	15.90	13.50	8.30	6.30	1.90	1.15	1.45	0.45	
29	1.15	1.55	3.50	1.70	21.65	11.40	7.50	12.90	1.90	1.15	1.40	0.45	
30	1.65	1.50	3.90	1.60	52.80	10.00	7.00	14.60	1.80	1.10		0.45	
31		1.45		1.55	111.40		6.50		1.75	1.15		0.40	
<b>Total</b>	44.40	44.00	122.15	89.00	924.75	982.80	390.25	209.40	128.35	42.80	89.95	26.30	3094.15 CMSDAY
<b>Mean</b>	1.48	1.42	4.07	2.87	29.83	32.76	12.59	6.98	4.14	1.38	3.10	0.85	8.45 CMS
<b>Max</b>	2.00	1.80	14.30	16.90	111.40	101.40	33.50	23.00	16.50	1.80	29.00	1.35	111.40 CMS
<b>Min</b>	1.15	1.20	1.55	1.40	1.55	10.00	6.50	2.90	1.75	1.10	1.00	0.40	0.40 CMS
<b>Runoff</b>	3.84	3.80	10.55	7.69	79.90	84.91	33.72	18.09	11.09	3.70	7.77	2.27	267.33 MCM
<b>Momentary Peak</b>	156.30	CMS.	at 9.47 m. (MSL.)	at 02.00 Hours ,	on Aug 31, 2019								
<b>Runoff Yield</b>	28.62	Liters/Second/Square KM.		Momentary Peak Yield	527.68	Liters/Second/Square KM.							

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlung Tha Di at Ban Tha Yai , Nakhon Si Thammarat (X.55)

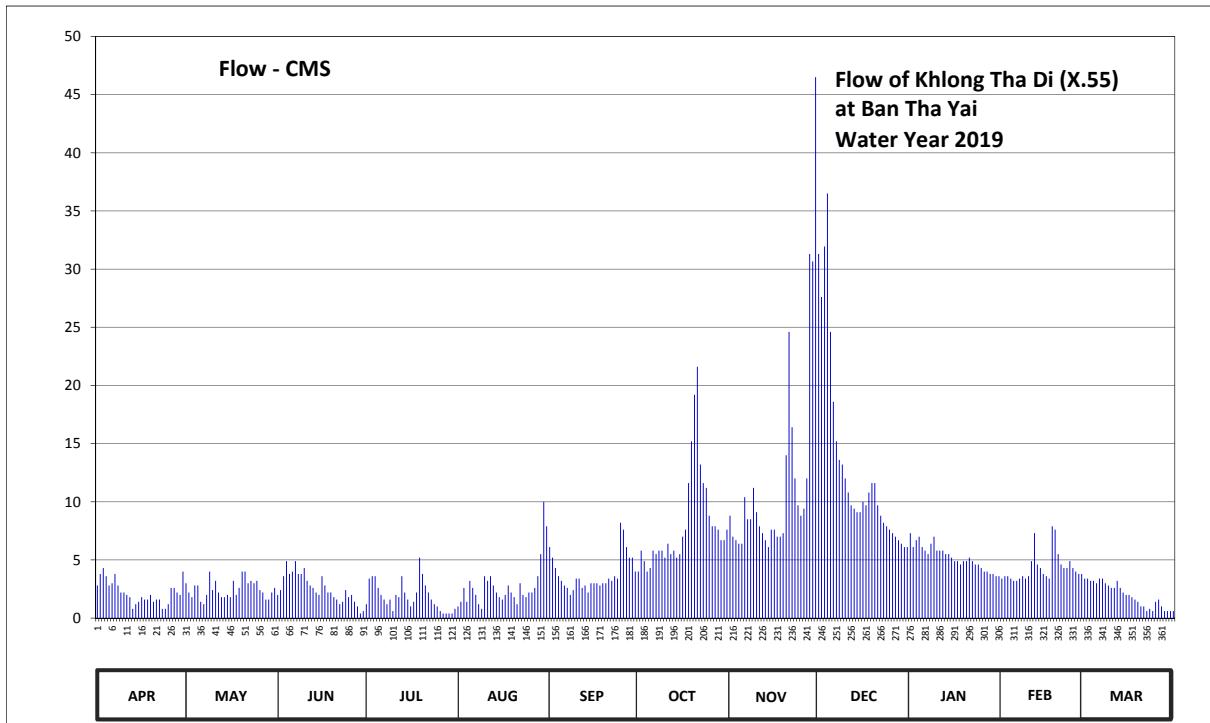
Lat 08 - 23 - 52 N Long 99 - 50 - 14 E

Location : on left bank at the bridge.

	Ban Tha Yai	Amphoe Lan Saka	Changwat Nakhon Si Thammarat
<b>Drainage Area</b>	105 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 63.60 meters from fourth staff gage.	<b>Elevation</b>	+24.748 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1967 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1967 - 1971 , 1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1967 - 1971 , 1989 to date		
<b>Stability of Channel Regimes</b>	Rather unstable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.84	18.85	18.80	18.76	18.75	18.97	18.90	19.06	19.52	19.01	18.87	18.87	
2	18.89	18.81	18.82	18.87	18.77	18.94	18.96	19.00	19.46	18.97	18.88	18.87	
3	18.91	18.79	18.88	18.88	18.83	18.91	18.93	18.99	19.53	18.99	18.88	18.86	
4	18.88	18.84	18.93	18.88	18.77	18.88	18.90	18.98	19.60	19.00	18.87	18.86	
5	18.84	18.84	18.89	18.83	18.86	18.86	18.91	18.98	19.41	18.97	18.86	18.85	
6	18.85	18.77	18.90	18.80	18.83	18.84	18.96	19.11	19.31	18.96	18.86	18.87	
7	18.89	18.76	18.93	18.78	18.80	18.83	18.95	19.05	19.23	18.95	18.87	18.87	
8	18.84	18.80	18.89	18.76	18.76	18.80	18.96	19.05	19.19	18.98	18.88	18.85	
9	18.81	18.90	18.89	18.78	18.74	18.82	18.96	19.13	19.18	19.00	18.87	18.84	
10	18.81	18.82	18.91	18.73	18.88	18.87	18.94	19.07	19.15	18.96	18.88	18.83	
11	18.80	18.86	18.86	18.80	18.86	18.87	18.98	19.03	19.12	18.96	18.93	18.83	
12	18.79	18.81	18.84	18.79	18.88	18.83	18.95	19.01	19.09	18.96	19.01	18.86	
13	18.74	18.79	18.83	18.88	18.84	18.84	18.96	18.99	19.08	18.95	18.92	18.83	
14	18.76	18.79	18.81	18.81	18.81	18.81	18.94	18.97	19.07	18.95	18.91	18.81	
15	18.77	18.80	18.80	18.78	18.79	18.85	18.95	19.02	19.07	18.94	18.89	18.80	
16	18.79	18.79	18.88	18.75	18.78	18.85	19.00	19.02	19.10	18.93	18.88	18.80	
17	18.78	18.86	18.84	18.77	18.80	18.85	19.02	19.00	19.09	18.93	18.87	18.79	
18	18.78	18.80	18.81	18.81	18.84	18.84	19.14	19.00	19.12	18.92	19.03	18.78	
19	18.80	18.83	18.81	18.94	18.81	18.85	19.23	19.01	19.14	18.93	19.02	18.77	
20	18.77	18.90	18.79	18.89	18.79	18.85	19.32	19.20	19.14	18.93	18.95	18.75	
21	18.78	18.90	18.78	18.84	18.76	18.87	19.36	19.41	19.09	18.94	18.92	18.75	
22	18.78	18.85	18.76	18.81	18.85	18.86	19.18	19.26	19.06	18.93	18.91	18.73	
23	18.74	18.86	18.77	18.78	18.80	18.88	19.14	19.15	19.04	18.92	18.91	18.74	
24	18.74	18.85	18.82	18.76	18.79	18.87	19.13	19.09	19.03	18.92	18.93	18.73	
25	18.76	18.86	18.79	18.75	18.81	19.04	19.06	19.06	19.02	18.91	18.91	18.77	
26	18.83	18.82	18.80	18.73	18.81	19.02	19.03	19.08	19.01	18.90	18.90	18.78	
27	18.83	18.81	18.77	18.72	18.83	18.97	19.03	19.15	19.00	18.90	18.89	18.75	
28	18.81	18.78	18.75	18.72	18.88	18.94	19.02	19.52	18.99	18.89	18.89	18.73	
29	18.80	18.78	18.72	18.72	18.95	18.94	18.99	19.51	18.98	18.89	18.88	18.73	
30	18.90	18.81	18.73	18.72	19.10	18.90	18.99	19.75	18.97	18.88	18.88	18.73	
31		18.83		18.74	19.03		19.02		18.97	18.88		18.73	
Mean	18.81	18.82	18.83	18.79	18.83	18.88	19.03	19.12	19.15	18.94	18.91	18.80	
Max	18.91	18.90	18.93	18.94	19.10	19.04	19.36	19.75	19.60	19.01	19.03	18.87	19.75
Min	18.74	18.76	18.72	18.72	18.74	18.80	18.90	18.97	18.97	18.88	18.86	18.73	18.72
Annual Max Momentary Gage Height	20.22		m. (MSL.) ,				at 23.00 Hours ,						on Nov 28 , 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	16.40	m. (MSL.)					
Left Bank Elevation		22.23	m. (MSL.) ,										
Right Bank Elevation		22.43	m. (MSL.) ,			Drainage Are	105	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.80	3.00	2.00	1.20	1.00	6.10	4.00	8.80	31.30	7.30	3.40	3.40		
2	3.80	2.20	2.40	3.40	1.40	5.20	5.80	7.00	27.60	6.10	3.60	3.40		
3	4.30	1.80	3.60	3.60	2.60	4.30	4.90	6.70	31.95	6.70	3.60	3.20		
4	3.60	2.80	4.90	3.60	1.40	3.60	4.00	6.40	36.50	7.00	3.40	3.20		
5	2.80	2.80	3.80	2.60	3.20	3.20	4.30	6.40	24.60	6.10	3.20	3.00		
6	3.00	1.40	4.00	2.00	2.60	2.80	5.80	10.40	18.60	5.80	3.20	3.40		
7	3.80	1.20	4.90	1.60	2.00	2.60	5.50	8.50	15.20	5.50	3.40	3.40		
8	2.80	2.00	3.80	1.20	1.20	2.00	5.80	8.50	13.60	6.40	3.60	3.00		
9	2.20	4.00	3.80	1.60	0.80	2.40	5.80	11.20	13.20	7.00	3.40	2.80		
10	2.20	2.40	4.30	0.60	3.60	3.40	5.20	9.10	12.00	5.80	3.60	2.60		
11	2.00	3.20	3.20	2.00	3.20	3.40	6.40	7.90	10.80	5.80	4.90	2.60		
12	1.80	2.20	2.80	1.80	3.60	2.60	5.50	7.30	9.70	5.80	7.30	3.20		
13	0.80	1.80	2.60	3.60	2.80	2.80	5.80	6.70	9.40	5.50	4.60	2.60		
14	1.20	1.80	2.20	2.20	2.20	2.20	5.20	6.10	9.10	5.50	4.30	2.20		
15	1.40	2.00	2.00	1.60	1.80	3.00	5.50	7.60	9.10	5.20	3.80	2.00		
16	1.80	1.80	3.60	1.00	1.60	3.00	7.00	7.60	10.00	4.90	3.60	2.00		
17	1.60	3.20	2.80	1.40	2.00	3.00	7.60	7.00	9.70	4.90	3.40	1.80		
18	1.60	2.00	2.20	2.20	2.80	2.80	11.60	7.00	10.80	4.60	7.90	1.60		
19	2.00	2.60	2.20	5.20	2.20	3.00	15.20	7.30	11.60	4.90	7.60	1.40		
20	1.40	4.00	1.80	3.80	1.80	3.00	19.20	14.00	11.60	4.90	5.50	1.00		
21	1.60	4.00	1.60	2.80	1.20	3.40	21.60	24.60	9.70	5.20	4.60	1.00		
22	1.60	3.00	1.20	2.20	3.00	3.20	13.20	16.40	8.80	4.90	4.30	0.60		
23	0.80	3.20	1.40	1.60	2.00	3.60	11.60	12.00	8.20	4.60	4.30	0.80		
24	0.80	3.00	2.40	1.20	1.80	3.40	11.20	9.70	7.90	4.60	4.90	0.60		
25	1.20	3.20	1.80	1.00	2.20	8.20	8.80	8.80	7.60	4.30	4.30	1.40		
26	2.60	2.40	2.00	0.60	2.20	7.60	7.90	9.40	7.30	4.00	4.00	1.60		
27	2.60	2.20	1.40	0.40	2.60	6.10	7.90	12.00	7.00	4.00	3.80	1.00		
28	2.20	1.60	1.00	0.40	3.60	5.20	7.60	31.30	6.70	3.80	3.80	0.60		
29	2.00	1.60	0.40	0.40	5.50	5.20	6.70	30.65	6.40	3.80	3.60	0.60		
30	4.00	2.20	0.60	0.40	10.00	4.00	6.70	46.50	6.10	3.60		0.60		
31		2.60		0.80	7.90		7.60		6.10	3.60		0.60		
<b>Total</b>	66.30	77.20	76.70	58.00	85.80	114.30	250.90	362.85	408.15	162.10	124.90	61.20	1848.40	CMSDAY
<b>Mean</b>	2.21	2.49	2.56	1.87	2.77	3.81	8.09	12.09	13.17	5.23	4.31	1.97	5.05	CMS
<b>Max</b>	4.30	4.00	4.90	5.20	10.00	8.20	21.60	46.50	36.50	7.30	7.90	3.40	46.50	CMS
<b>Min</b>	0.80	1.20	0.40	0.40	0.80	2.00	4.00	6.10	6.10	3.60	3.20	0.60	0.40	CMS
<b>Runoff</b>	5.73	6.67	6.63	5.01	7.41	9.88	21.68	31.35	35.26	14.01	10.79	5.29	159.70	MCM
<b>Momentary Peak</b>	79.60 CMS. at 20.22 m. (MSL.) at 23.00 Hours , on Nov 28 , 2019													
<b>Runoff Yield</b>	48.14 Liters/Second/Square KM.			Momentary Peak Yield			756.73 Liters/Second/Square KM.							



## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

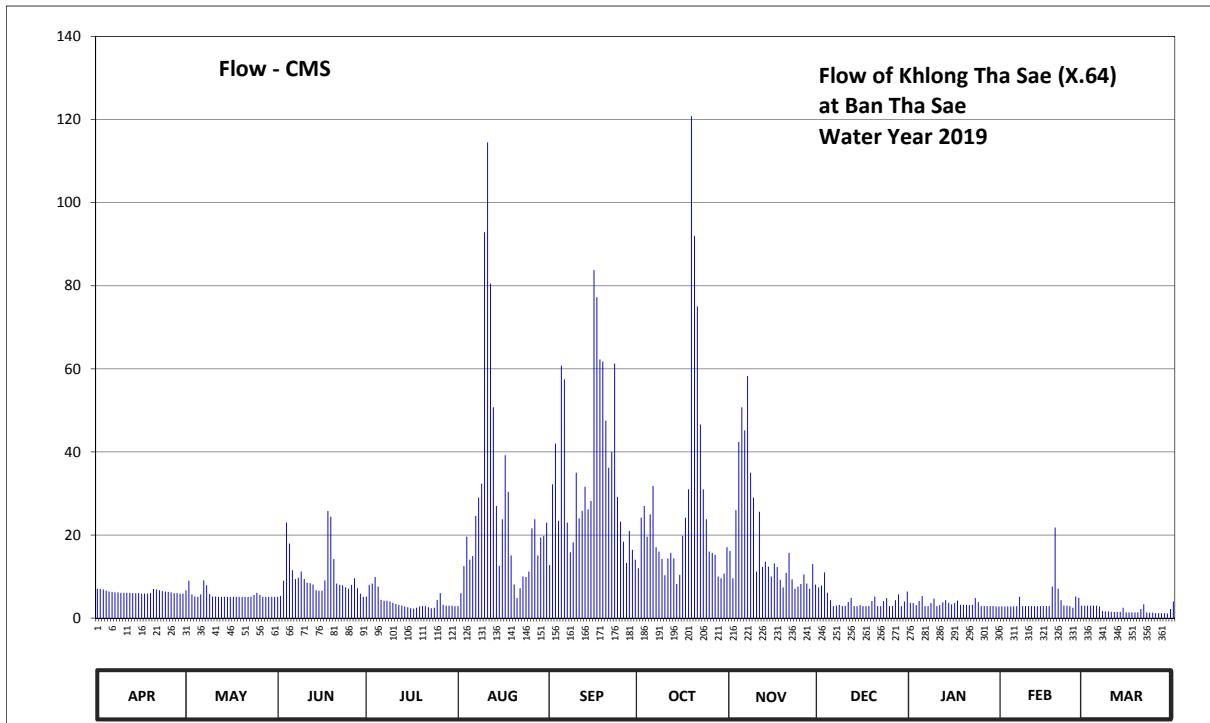
Lat 10 - 39 - 51 N Long 99 - 10 - 26 E

Location : on left bank near the Land Cooperation Office.

	<b>Ban</b> Tha Sae	<b>Amphoe</b> Tha Sae	<b>Changwat</b> Chumphon
<b>Drainage Area</b>	946 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+6.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 6 meters from the top staff gage.	<b>Elevation</b>	+19.207 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1973 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1974 - 1975 , 1982 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1974 - 1975 , 1982 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.01	7.97	7.81	7.82	7.59	8.58	8.50	8.81	8.04	7.67	7.58	7.60	
2	8.00	8.20	7.83	8.10	7.90	9.66	9.26	8.26	8.08	7.66	7.58	7.60	
3	7.99	7.87	8.20	8.13	8.55	10.15	9.40	9.35	8.40	7.61	7.58	7.60	
4	7.96	7.82	9.20	8.29	9.03	9.22	9.03	10.17	7.91	7.71	7.58	7.60	
5	7.94	7.81	8.93	8.06	8.67	10.95	9.30	10.55	7.73	7.83	7.58	7.60	
6	7.93	7.87	8.45	7.74	8.73	10.82	9.64	10.31	7.59	7.59	7.59	7.58	
7	7.92	8.21	8.24	7.72	9.28	9.20	8.87	10.85	7.60	7.59	7.81	7.47	
8	7.92	8.09	8.27	7.72	9.50	8.79	8.80	9.80	7.62	7.66	7.59	7.46	
9	7.91	7.88	8.42	7.70	9.67	8.95	8.68	9.50	7.59	7.77	7.59	7.46	
10	7.91	7.82	8.24	7.67	12.23	9.80	8.33	8.42	7.59	7.59	7.59	7.45	
11	7.91	7.82	8.15	7.64	12.95	9.25	8.69	9.33	7.69	7.61	7.59	7.45	
12	7.91	7.81	8.14	7.62	11.74	9.34	8.78	8.53	7.79	7.68	7.59	7.45	
13	7.90	7.81	8.11	7.60	10.55	9.63	8.69	8.64	7.59	7.73	7.59	7.45	
14	7.90	7.81	7.97	7.58	9.40	9.36	8.12	8.54	7.59	7.67	7.59	7.55	
15	7.90	7.81	7.96	7.56	8.56	9.46	8.34	8.30	7.61	7.63	7.59	7.44	
16	7.89	7.81	7.96	7.54	9.24	11.87	9.04	8.61	7.59	7.66	7.59	7.44	
17	7.89	7.81	8.21	7.53	10.01	11.61	9.26	8.53	7.59	7.72	7.59	7.44	
18	7.89	7.81	9.34	7.55	9.57	11.01	9.60	8.22	7.59	7.62	8.06	7.44	
19	7.90	7.81	9.27	7.58	8.74	10.99	13.12	8.04	7.71	7.62	9.14	7.44	
20	8.00	7.81	8.68	7.59	8.11	10.42	12.20	8.39	7.82	7.62	8.01	7.52	
21	7.99	7.81	8.13	7.59	7.78	9.86	11.52	8.78	7.59	7.61	7.73	7.63	
22	7.97	7.81	8.10	7.56	8.02	10.05	10.38	8.23	7.59	7.62	7.60	7.44	
23	7.95	7.81	8.09	7.54	8.30	10.97	9.60	8.01	7.71	7.78	7.60	7.43	
24	7.94	7.86	8.04	7.55	8.29	9.51	9.24	8.06	7.78	7.68	7.59	7.43	
25	7.93	7.91	8.01	7.74	8.42	9.21	8.80	8.12	7.59	7.59	7.55	7.42	
26	7.92	7.86	8.10	7.90	9.13	8.96	8.78	8.35	7.59	7.59	7.82	7.42	
27	7.90	7.81	8.26	7.62	9.24	8.62	8.75	8.13	7.73	7.59	7.79	7.42	
28	7.90	7.81	8.02	7.60	8.74	9.10	8.30	8.01	7.87	7.59	7.60	7.42	
29	7.89	7.81	7.89	7.60	9.02	8.83	8.26	8.60	7.59	7.59	7.60	7.41	
30	7.89	7.81	7.81	7.60	9.04	8.67	8.37	8.11	7.70	7.58		7.52	
31		7.81		7.59	9.20		8.87		7.94	7.58		7.70	
Mean	7.93	7.86	8.26	7.70	9.20	9.76	9.24	8.79	7.72	7.65	7.70	7.49	
Max	8.01	8.21	9.34	8.29	12.95	11.87	13.12	10.85	8.40	7.83	9.14	7.70	13.12
Min	7.89	7.81	7.81	7.53	7.59	8.58	8.12	8.01	7.59	7.58	7.55	7.41	7.41
Annual Max Momentary Gage Height	14.06		m. (MSL.) ,				at 16.00 Hours ,						
Zero Gage at Bottom Elevation		6.00	m. (MSL.) ,				River Bed 6.08	m. (MSL.)					
Left Bank Elevation		17.49	m. (MSL.) ,										
Right Bank Elevation		17.13	m. (MSL.) ,				Drainage Are 946	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.10	6.70	5.10	5.20	2.90	12.80	12.00	16.15	7.40	3.70	2.80	3.00		
2	7.00	9.00	5.30	8.00	6.00	32.20	24.20	9.60	7.80	3.60	2.80	3.00		
3	6.90	5.70	9.00	8.30	12.50	42.00	27.00	26.00	11.00	3.10	2.80	3.00		
4	6.60	5.20	23.00	9.90	19.60	23.40	19.60	42.40	6.10	4.10	2.80	3.00		
5	6.40	5.10	17.95	7.60	14.05	60.75	25.00	50.75	4.30	5.30	2.80	3.00		
6	6.30	5.70	11.50	4.40	14.95	57.50	31.80	45.20	2.90	2.90	2.90	2.80		
7	6.20	9.10	9.40	4.20	24.60	23.00	17.05	58.25	3.00	2.90	5.10	1.70		
8	6.20	7.90	9.70	4.20	29.00	15.85	16.00	35.00	3.20	3.60	2.90	1.60		
9	6.10	5.80	11.20	4.00	32.40	18.25	14.20	29.00	2.90	4.70	2.90	1.60		
10	6.10	5.20	9.40	3.70	92.90	35.00	10.30	11.20	2.90	2.90	2.90	1.50		
11	6.10	5.20	8.50	3.40	114.50	24.00	14.35	25.60	3.90	3.10	2.90	1.50		
12	6.10	5.10	8.40	3.20	80.50	25.80	15.70	12.30	4.90	3.80	2.90	1.50		
13	6.00	5.10	8.10	3.00	50.75	31.60	14.35	13.60	2.90	4.30	2.90	1.50		
14	6.00	5.10	6.70	2.80	27.00	26.20	8.20	12.40	2.90	3.70	2.90	2.50		
15	6.00	5.10	6.60	2.60	12.60	28.20	10.40	10.00	3.10	3.30	2.90	1.40		
16	5.90	5.10	6.60	2.40	23.80	83.75	19.80	13.15	2.90	3.60	2.90	1.40		
17	5.90	5.10	9.10	2.30	39.20	77.25	24.20	12.30	2.90	4.20	2.90	1.40		
18	5.90	5.10	25.80	2.50	30.40	62.25	31.00	9.20	2.90	3.20	7.60	1.40		
19	6.00	5.10	24.40	2.80	15.10	61.75	120.80	7.40	4.10	3.20	21.80	1.40		
20	7.00	5.10	14.20	2.90	8.10	47.50	92.00	10.90	5.20	3.20	7.10	2.20		
21	6.90	5.10	8.30	2.90	4.80	36.20	75.00	15.70	2.90	3.10	4.30	3.30		
22	6.70	5.10	8.00	2.60	7.20	40.00	46.60	9.30	2.90	3.20	3.00	1.40		
23	6.50	5.10	7.90	2.40	10.00	61.25	31.00	7.10	4.10	4.80	3.00	1.30		
24	6.40	5.60	7.40	2.50	9.90	29.20	23.80	7.60	4.80	3.80	2.90	1.30		
25	6.30	6.10	7.10	4.40	11.20	23.20	16.00	8.20	2.90	2.90	2.50	1.20		
26	6.20	5.60	8.00	6.00	21.60	18.40	15.70	10.50	2.90	2.90	5.20	1.20		
27	6.00	5.10	9.60	3.20	23.80	13.30	15.25	8.30	4.30	2.90	4.90	1.20		
28	6.00	5.10	7.20	3.00	15.10	21.00	10.00	7.10	5.70	2.90	3.00	1.20		
29	5.90	5.10	5.90	3.00	19.40	16.45	9.60	13.00	2.90	2.90	3.00	1.10		
30	5.90	5.10	5.10	3.00	19.80	14.05	10.70	8.10	4.00	2.80		2.20		
31		5.10		2.90	23.00		17.05		6.40	2.80		4.00		
<b>Total</b>	<b>188.60</b>	<b>174.60</b>	<b>304.45</b>	<b>123.30</b>	<b>816.65</b>	<b>1062.10</b>	<b>818.65</b>	<b>545.30</b>	<b>131.00</b>	<b>107.40</b>	<b>119.30</b>	<b>59.80</b>	<b>4451.15</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>6.29</b>	<b>5.63</b>	<b>10.15</b>	<b>3.98</b>	<b>26.34</b>	<b>35.40</b>	<b>26.41</b>	<b>18.18</b>	<b>4.23</b>	<b>3.46</b>	<b>4.11</b>	<b>1.93</b>	<b>12.16</b>	<b>CMS</b>
<b>Max</b>	<b>7.10</b>	<b>9.10</b>	<b>25.80</b>	<b>9.90</b>	<b>114.50</b>	<b>83.75</b>	<b>120.80</b>	<b>58.25</b>	<b>11.00</b>	<b>5.30</b>	<b>21.80</b>	<b>4.00</b>	<b>120.80</b>	<b>CMS</b>
<b>Min</b>	<b>5.90</b>	<b>5.10</b>	<b>5.10</b>	<b>2.30</b>	<b>2.90</b>	<b>12.80</b>	<b>8.20</b>	<b>7.10</b>	<b>2.90</b>	<b>2.80</b>	<b>2.50</b>	<b>1.10</b>	<b>1.10</b>	<b>CMS</b>
<b>Runoff</b>	<b>16.30</b>	<b>15.09</b>	<b>26.30</b>	<b>10.65</b>	<b>70.56</b>	<b>91.77</b>	<b>70.73</b>	<b>47.11</b>	<b>11.32</b>	<b>9.28</b>	<b>10.31</b>	<b>5.17</b>	<b>384.58</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>161.00 CMS. at 14.06 m. (MSL.) at 16.00 Hours , on Oct 19, 2019</b>													
<b>Runoff Yield</b>	<b>12.90</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>				<b>170.25</b>	<b>Liters/Second/Square KM.</b>				

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

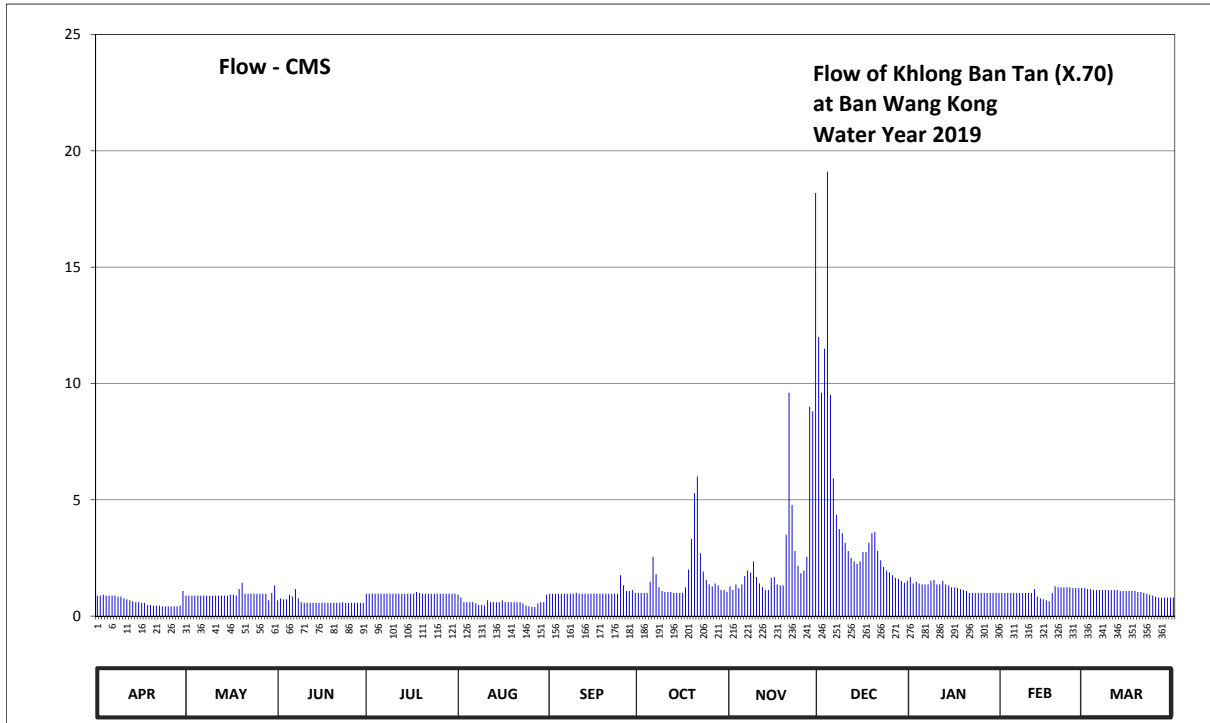
Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

	Ban Wang Kong	Amphoe Mueang	Changwat	Nakhon Si Thammarat
<b>Drainage Area</b>	36	sq.km.		
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.		<b>Elevation</b>	+21.985 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1967 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1967 - 1971 , 1980 , 1989 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	1967 - 1971 , 1980 , 1989 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 18.230 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.77	15.77	15.72	15.79	15.78	15.79	15.80	15.87	17.30	15.97	15.80	15.85	
2	15.77	15.77	15.74	15.79	15.75	15.79	15.80	15.83	17.06	15.90	15.80	15.84	
3	15.78	15.77	15.73	15.79	15.70	15.79	15.80	15.89	17.25	15.92	15.80	15.84	
4	15.77	15.77	15.73	15.79	15.70	15.79	15.80	15.85	17.90	15.90	15.80	15.83	
5	15.77	15.77	15.78	15.79	15.70	15.79	15.92	15.89	17.05	15.89	15.80	15.83	
6	15.77	15.77	15.76	15.79	15.70	15.79	16.17	15.98	16.69	15.89	15.80	15.83	
7	15.77	15.77	15.84	15.79	15.68	15.79	16.00	16.04	16.48	15.89	15.80	15.83	
8	15.76	15.77	15.74	15.79	15.66	15.79	15.86	16.02	16.39	15.93	15.80	15.83	
9	15.76	15.77	15.70	15.79	15.66	15.79	15.82	16.13	16.36	15.94	15.80	15.83	
10	15.74	15.77	15.69	15.79	15.65	15.80	15.81	15.97	16.29	15.89	15.80	15.83	
11	15.73	15.77	15.69	15.79	15.72	15.79	15.81	15.90	16.22	15.89	15.80	15.83	
12	15.72	15.77	15.69	15.79	15.70	15.79	15.81	15.86	16.16	15.93	15.84	15.83	
13	15.71	15.77	15.69	15.79	15.70	15.79	15.80	15.83	16.13	15.89	15.76	15.82	
14	15.70	15.77	15.69	15.79	15.70	15.79	15.80	15.83	16.11	15.88	15.74	15.82	
15	15.70	15.77	15.69	15.79	15.70	15.79	15.80	15.96	16.13	15.86	15.73	15.82	
16	15.69	15.78	15.69	15.79	15.72	15.79	15.80	15.97	16.21	15.86	15.72	15.82	
17	15.69	15.78	15.69	15.79	15.70	15.79	15.86	15.89	16.21	15.85	15.71	15.82	
18	15.66	15.77	15.69	15.81	15.70	15.79	16.05	15.88	16.29	15.84	15.80	15.82	
19	15.66	15.84	15.69	15.80	15.70	15.79	16.32	15.88	16.36	15.83	15.87	15.81	
20	15.65	15.91	15.69	15.79	15.70	15.79	16.61	16.35	16.37	15.82	15.86	15.81	
21	15.65	15.79	15.69	15.79	15.70	15.79	16.70	17.06	16.22	15.80	15.86	15.80	
22	15.65	15.79	15.69	15.79	15.70	15.79	16.20	16.54	16.14	15.80	15.86	15.79	
23	15.64	15.79	15.70	15.79	15.68	15.79	16.03	16.22	16.08	15.80	15.86	15.78	
24	15.64	15.79	15.69	15.79	15.65	15.79	15.94	16.09	16.04	15.80	15.86	15.77	
25	15.64	15.79	15.69	15.79	15.64	15.99	15.89	16.01	16.02	15.80	15.85	15.76	
26	15.64	15.79	15.69	15.79	15.63	15.88	15.87	16.04	15.99	15.80	15.85	15.75	
27	15.64	15.79	15.69	15.79	15.63	15.82	15.90	16.17	15.96	15.80	15.85	15.75	
28	15.64	15.79	15.69	15.79	15.68	15.82	15.88	17.00	15.95	15.80	15.85	15.75	
29	15.65	15.72	15.69	15.79	15.70	15.83	15.83	16.98	15.93	15.80	15.85	15.75	
30	15.82	15.80	15.69	15.79	15.70	15.80	15.83	17.83	15.91	15.80	15.85	15.75	
31		15.88		15.79	15.78		15.81		15.93	15.80		15.75	
Mean	15.71	15.79	15.71	15.79	15.69	15.80	15.95	16.16	16.36	15.86	15.81	15.80	
Max	15.82	15.91	15.84	15.81	15.78	15.99	16.70	17.83	17.90	15.97	15.87	15.85	17.90
Min	15.64	15.72	15.69	15.79	15.63	15.79	15.80	15.83	15.91	15.80	15.71	15.75	15.63
Annual Max Momentary Gage Height	19.10		m. (MSL.) ,				at 23.00 Hours ,		on Dec 3, 2019				
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	15.48		m. (MSL.)				
Left Bank Elevation		22.12		m. (MSL.) ,									
Right Bank Elevation		18.22		m. (MSL.) ,		Drainage Are	36		Square Kilometers				



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	0.88	0.68	0.96	0.92	0.96	1.00	1.28	12.00	1.68	1.00	1.20	
2	0.88	0.88	0.76	0.96	0.80	0.96	1.00	1.12	9.60	1.40	1.00	1.16	
3	0.92	0.88	0.72	0.96	0.60	0.96	1.00	1.36	11.50	1.48	1.00	1.16	
4	0.88	0.88	0.72	0.96	0.60	0.96	1.00	1.20	19.10	1.40	1.00	1.12	
5	0.88	0.88	0.92	0.96	0.60	0.96	1.48	1.36	9.50	1.36	1.00	1.12	
6	0.88	0.88	0.84	0.96	0.60	0.96	2.55	1.72	5.92	1.36	1.00	1.12	
7	0.88	0.88	1.16	0.96	0.54	0.96	1.80	1.96	4.36	1.36	1.00	1.12	
8	0.84	0.88	0.76	0.96	0.48	0.96	1.24	1.88	3.74	1.52	1.00	1.12	
9	0.84	0.88	0.60	0.96	0.48	0.96	1.08	2.35	3.56	1.56	1.00	1.12	
10	0.76	0.88	0.57	0.96	0.45	1.00	1.04	1.68	3.15	1.36	1.00	1.12	
11	0.72	0.88	0.57	0.96	0.68	0.96	1.04	1.40	2.80	1.36	1.00	1.12	
12	0.68	0.88	0.57	0.96	0.60	0.96	1.04	1.24	2.50	1.52	1.16	1.12	
13	0.64	0.88	0.57	0.96	0.60	0.96	1.00	1.12	2.35	1.36	0.84	1.08	
14	0.60	0.88	0.57	0.96	0.60	0.96	1.00	1.12	2.25	1.32	0.76	1.08	
15	0.60	0.88	0.57	0.96	0.60	0.96	1.00	1.64	2.35	1.24	0.72	1.08	
16	0.57	0.92	0.57	0.96	0.68	0.96	1.00	1.68	2.75	1.24	0.68	1.08	
17	0.57	0.92	0.57	0.96	0.60	0.96	1.24	1.36	2.75	1.20	0.64	1.08	
18	0.48	0.88	0.57	1.04	0.60	0.96	2.00	1.32	3.15	1.16	1.00	1.08	
19	0.48	1.16	0.57	1.00	0.60	0.96	3.32	1.32	3.56	1.12	1.28	1.04	
20	0.45	1.44	0.57	0.96	0.60	0.96	5.28	3.50	3.62	1.08	1.24	1.04	
21	0.45	0.96	0.57	0.96	0.60	0.96	6.00	9.60	2.80	1.00	1.24	1.00	
22	0.45	0.96	0.57	0.96	0.60	0.96	2.70	4.78	2.40	1.00	1.24	0.96	
23	0.42	0.96	0.60	0.96	0.54	0.96	1.92	2.80	2.12	1.00	1.24	0.92	
24	0.42	0.96	0.57	0.96	0.45	0.96	1.56	2.16	1.96	1.00	1.24	0.88	
25	0.42	0.96	0.57	0.96	0.42	1.76	1.36	1.84	1.88	1.00	1.20	0.84	
26	0.42	0.96	0.57	0.96	0.39	1.32	1.28	1.96	1.76	1.00	1.20	0.80	
27	0.42	0.96	0.57	0.96	0.39	1.08	1.40	2.55	1.64	1.00	1.20	0.80	
28	0.42	0.96	0.57	0.96	0.54	1.08	1.32	9.00	1.60	1.00	1.20	0.80	
29	0.45	0.68	0.57	0.96	0.60	1.12	1.12	8.80	1.52	1.00	1.20	0.80	
30	1.08	1.00	0.57	0.96	0.60	1.00	1.12	18.19	1.44	1.00		0.80	
31		1.32		0.96	0.92		1.04		1.52	1.00		0.80	
Total	19.38	29.20	19.16	29.88	18.28	30.44	51.93	93.29	131.15	38.08	30.28	31.56	522.63 CMSDAY
Mean	0.65	0.94	0.64	0.96	0.59	1.01	1.68	3.11	4.23	1.23	1.04	1.02	1.43 CMS
Max	1.08	1.44	1.16	1.04	0.92	1.76	6.00	18.19	19.10	1.68	1.28	1.20	19.10 CMS
Min	0.42	0.68	0.57	0.96	0.39	0.96	1.00	1.12	1.44	1.00	0.64	0.80	0.39 CMS
Runoff	1.67	2.52	1.66	2.58	1.58	2.63	4.49	8.06	11.33	3.29	2.62	2.73	45.16 MCM
Momentary Peak	38.10 CMS. at 19.10 m. (MSL.) at 23.00 Hours , on Dec 3, 2019												
Runoff Yield	39.25 Liters/Second/Square KM. Momentary Peak Yield 1044.41 Liters/Second/Square KM.												

**WATER YEAR : 2019**  
**SOUTHERN PENINSULA EAST COAST**  
**Kolok River at Lantu Bridge , Narathiwat (X.119A)**

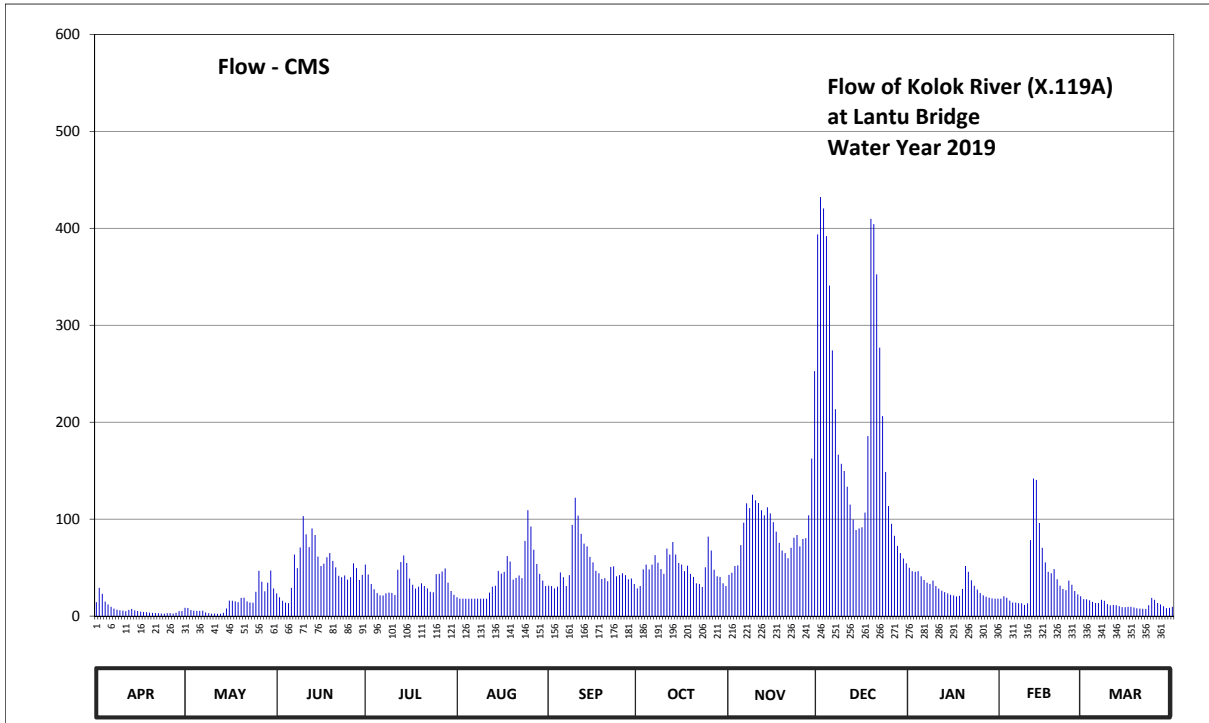
Lat 06 - 01 - 13 N Long 101 - 58 - 40 E

Location : on left bank at the bridge.

	<b>Ban</b> -	<b>Amphoe</b> Sungai Kolok	<b>Changwat</b> Narathiwat
<b>Drainage Area</b>	1,358 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank in front of gage observer's house.	<b>Elevation</b>	+10.686 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1988 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Rather unstable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation +9.290 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records very good. Stage-discharge relation defined by 34 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.67	3.37	4.04	4.93	3.88	4.31	4.22	4.63	9.95	4.84	3.82	3.80	
2	4.24	3.36	3.88	4.64	3.82	4.30	4.30	4.69	10.16	4.74	3.92	3.79	
3	4.02	3.22	3.73	4.36	3.82	4.22	4.79	4.89	10.10	4.72	3.86	3.75	
4	3.70	3.17	3.64	4.19	3.82	4.28	4.93	4.91	9.94	4.74	3.74	3.68	
5	3.55	3.16	3.62	4.05	3.82	4.70	4.79	5.48	9.62	4.59	3.65	3.63	
6	3.43	3.16	4.24	3.96	3.82	4.56	4.93	6.06	9.07	4.48	3.64	3.63	
7	3.32	3.17	5.23	3.95	3.82	4.30	5.21	6.54	8.36	4.40	3.62	3.77	
8	3.24	3.05	4.83	4.04	3.82	4.62	4.99	6.43	7.58	4.36	3.61	3.73	
9	3.20	2.99	5.42	4.07	3.82	6.00	4.80	6.74	7.40	4.46	3.53	3.57	
10	3.17	2.95	6.23	4.06	3.82	6.67	4.66	6.61	7.25	4.30	3.61	3.50	
11	3.14	2.96	5.76	3.97	3.82	6.24	5.39	6.55	6.92	4.21	5.61	3.53	
12	3.23	2.95	5.43	4.78	4.07	5.77	5.23	6.38	6.51	4.14	7.09	3.51	
13	3.29	2.95	5.91	5.01	4.28	5.52	5.56	6.25	6.14	4.09	7.06	3.46	
14	3.20	3.03	5.74	5.20	4.31	5.45	5.23	6.45	5.87	4.04	6.05	3.41	
15	3.15	3.33	5.17	4.98	4.75	5.16	4.98	6.30	5.91	3.98	5.41	3.41	
16	3.11	3.74	4.89	4.52	4.67	5.00	4.93	6.07	5.94	3.95	5.00	3.43	
17	3.09	3.73	4.96	4.34	4.72	4.75	4.74	5.83	6.32	3.91	4.72	3.43	
18	3.07	3.71	5.15	4.21	5.18	4.68	4.90	5.54	7.91	3.94	4.68	3.39	
19	3.04	3.67	5.27	4.28	5.02	4.51	4.66	5.34	10.04	4.20	4.80	3.34	
20	3.02	3.85	5.04	4.38	4.49	4.53	4.57	5.27	10.01	4.89	4.50	3.32	
21	3.01	3.86	4.85	4.30	4.54	4.44	4.38	5.12	9.70	4.72	4.31	3.30	
22	2.99	3.71	4.60	4.22	4.61	4.86	4.36	5.41	9.10	4.47	4.20	3.29	
23	2.97	3.65	4.56	4.10	4.53	4.88	4.27	5.67	8.25	4.31	4.16	3.51	
24	2.94	3.64	4.61	4.08	5.59	4.59	4.85	5.74	7.23	4.18	4.46	3.85	
25	2.99	4.10	4.49	4.65	6.38	4.62	5.70	5.45	6.48	4.05	4.34	3.77	
26	3.01	4.75	4.56	4.66	5.96	4.68	5.34	5.64	6.03	3.96	4.13	3.63	
27	2.97	4.43	4.97	4.73	5.36	4.62	4.78	5.66	5.72	3.90	4.00	3.55	
28	3.03	4.12	4.83	4.82	4.95	4.50	4.59	6.25	5.46	3.86	3.92	3.46	
29	3.14	4.40	4.48	4.40	4.66	4.52	4.57	7.51	5.27	3.83	3.86	3.35	
30	3.15	4.76	4.63	4.13	4.46	4.36	4.38	8.84	5.11	3.82	3.82	3.37	
31		4.22		3.98	4.30		4.30		4.97	3.82		3.43	
Mean	3.24	3.59	4.83	4.39	4.48	4.85	4.82	5.94	7.56	4.25	4.46	3.54	
Max	4.24	4.76	6.23	5.20	6.38	6.67	5.70	8.84	10.16	4.89	7.09	3.85	10.16
Min	2.94	2.95	3.62	3.95	3.82	4.22	4.22	4.63	4.97	3.82	3.53	3.29	2.94
Annual Max Momentary Gage Height	10.18		m. (MSL.) ,				at 01.00 Hours ,		on Dec 2, 2019				
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	1.32		m. (MSL.)				
Left Bank Elevation		9.28	m. (MSL.) ,										
Right Bank Elevation		9.75	m. (MSL.) ,			Drainage Are	1,358		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.40	8.55	23.50	53.05	19.50	31.35	28.60	42.55	393.75	49.90	18.00	17.50		
2	29.20	8.40	19.50	42.90	18.00	31.00	31.00	44.65	432.20	46.40	20.50	17.25		
3	23.00	6.30	15.75	33.10	18.00	28.60	48.15	51.65	420.50	45.70	19.00	16.25		
4	15.00	5.55	13.80	27.70	18.00	30.40	53.05	52.35	392.00	46.40	16.00	14.60		
5	12.00	5.40	13.40	23.75	18.00	45.00	48.15	73.20	340.90	41.15	14.00	13.60		
6	9.60	5.40	29.20	21.50	18.00	40.10	53.05	96.40	274.20	37.30	13.80	13.60		
7	7.80	5.55	63.55	21.25	18.00	31.00	62.85	116.30	213.40	34.50	13.40	16.75		
8	6.60	3.75	49.55	23.50	18.00	42.20	55.15	111.35	166.53	33.10	13.20	15.75		
9	6.00	2.90	70.80	24.25	18.00	94.00	48.50	125.30	157.08	36.60	11.60	12.40		
10	5.55	2.50	103.20	24.00	18.00	122.15	43.60	119.45	149.71	31.00	13.20	11.00		
11	5.10	2.60	84.40	21.75	18.00	103.60	69.60	116.75	133.48	28.30	78.40	11.60		
12	6.45	2.50	71.20	47.80	24.25	84.80	63.55	109.20	114.95	26.20	141.84	11.20		
13	7.35	2.50	90.40	55.85	30.40	74.80	76.40	104.00	99.60	24.75	140.37	10.20		
14	6.00	3.45	83.60	62.50	31.35	72.00	63.55	112.25	88.80	23.50	96.00	9.20		
15	5.25	7.95	61.45	54.80	46.75	61.10	54.80	106.00	90.40	22.00	70.40	9.20		
16	4.65	16.00	51.65	38.70	43.95	55.50	53.05	96.80	91.60	21.25	55.50	9.60		
17	4.35	15.75	54.10	32.40	45.70	46.75	46.40	87.20	106.80	20.25	45.70	9.60		
18	4.05	15.25	60.75	28.30	61.80	44.30	52.00	75.60	185.60	21.00	44.30	8.85		
19	3.60	14.40	64.95	30.40	56.20	38.35	43.60	67.60	409.70	28.00	48.50	8.10		
20	3.30	18.75	56.90	33.80	37.65	39.05	40.45	64.95	404.30	51.65	38.00	7.80		
21	3.15	19.00	50.25	31.00	39.40	35.90	33.80	59.70	352.50	45.70	31.35	7.50		
22	2.90	15.25	41.50	28.60	41.85	50.60	33.10	70.40	277.00	36.95	28.00	7.35		
23	2.70	14.00	40.10	25.00	39.05	51.30	30.10	80.80	206.25	31.35	26.80	11.20		
24	2.40	13.80	41.85	24.50	77.60	41.15	50.25	83.60	148.73	27.40	36.60	18.75		
25	2.90	25.00	37.65	43.25	109.20	42.20	82.00	72.00	113.60	23.75	32.40	16.75		
26	3.15	46.75	40.10	43.60	92.40	44.30	67.60	79.60	95.20	21.50	25.90	13.60		
27	2.70	35.55	54.45	46.05	68.40	42.20	47.80	80.40	82.80	20.00	22.50	12.00		
28	3.45	25.60	49.55	49.20	53.75	38.00	41.15	104.00	72.40	19.00	20.50	10.20		
29	5.10	34.50	37.30	34.50	43.60	38.70	40.45	162.57	64.95	18.25	19.00	8.25		
30	5.25	47.10	42.55	25.90	36.60	33.10	33.80	252.73	59.35	18.00		8.55		
31		28.60		22.00	31.00		31.00		54.45	18.00		9.60		
<b>Total</b>	212.95	458.60	1516.95	1074.90	1210.40	1533.50	1526.55	2819.35	6192.73	948.85	1154.76	367.80	19017.34	CMSDAY
<b>Mean</b>	7.10	14.79	50.56	34.67	39.05	51.12	49.24	93.98	199.77	30.61	39.82	11.86	51.96	CMS
<b>Max</b>	29.20	47.10	103.20	62.50	109.20	122.15	82.00	252.73	432.20	51.65	141.84	18.75	432.20	CMS
<b>Min</b>	2.40	2.50	13.40	21.25	18.00	28.60	28.60	42.55	54.45	18.00	11.60	7.35	2.40	CMS
<b>Runoff</b>	18.40	39.62	131.06	92.87	104.58	132.49	131.89	243.59	535.05	81.98	99.77	31.78	1643.10	MCM
<b>Momentary Peak</b>	436.10 CMS. at 10.18 m. (MSL.) at 01.00 Hours , on Dec 2, 2019													
<b>Runoff Yield</b>	38.37 Liters/Second/Square KM.			Momentary Peak Yield				321.13 Liters/Second/Square KM.						

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlung Klai at Ban Hua Na , Nakhon Si Thammarat (X.149)

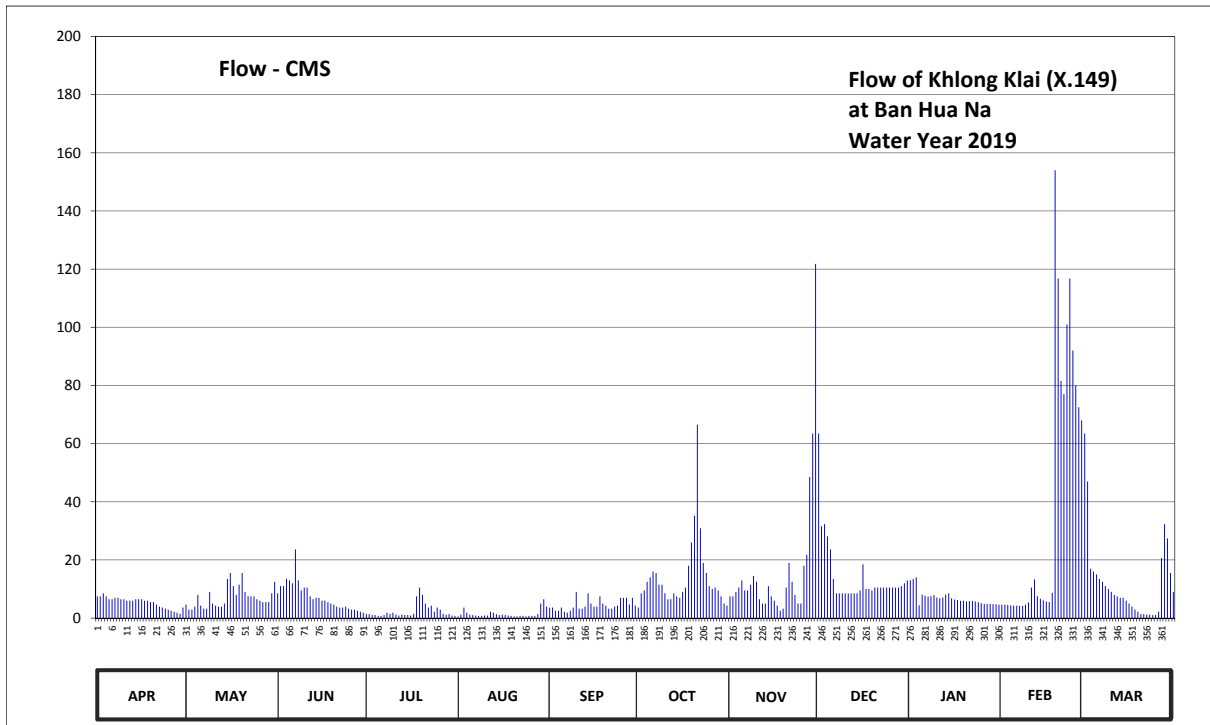
Lat 08 - 43 - 46 N Long 99 - 44 - 53 E

Location : on left bank at Ban Hua Na.

	<b>Ban Hua Na</b>	<b>Amphoe Nopphitam</b>	<b>Changwat</b>	<b>Nakhon Si Thammarat</b>
<b>Drainage Area</b>	475 sq.km.			
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)			
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank near the station office.		<b>Elevation</b>	+34.588 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	1984 to date.			
<b>Rating Operation</b>				
<b>Period of Rating</b>	1984 to date.			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	1984 to date.			
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.			
<b>Overbank Flow Conditions</b>	No overbank flow.			
<b>General Description</b>	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.35	28.29	28.37	28.20	28.14	28.26	28.26	28.35	29.03	28.46	28.97	29.03	
2	28.35	28.24	28.42	28.19	28.18	28.26	28.37	28.35	28.78	28.47	28.97	28.92	
3	28.37	28.24	28.42	28.17	28.26	28.23	28.39	28.38	28.79	28.48	28.96	28.54	
4	28.35	28.27	28.47	28.17	28.21	28.23	28.45	28.41	28.73	28.95	28.95	28.52	
5	28.33	28.36	28.46	28.15	28.18	28.26	28.48	28.46	28.66	29.22	28.94	28.50	
6	28.33	28.28	28.44	28.15	28.17	28.22	28.52	28.39	28.47	29.20	28.94	28.47	
7	28.34	28.25	28.66	28.17	28.16	28.21	28.51	28.39	28.37	29.18	28.93	28.45	
8	28.34	28.25	28.46	28.21	28.15	28.23	28.43	28.43	28.37	29.19	28.93	28.42	
9	28.33	28.38	28.39	28.20	28.15	28.26	28.43	28.49	28.37	29.21	28.97	28.40	
10	28.33	28.30	28.41	28.21	28.16	28.38	28.37	28.45	28.37	29.16	29.03	28.38	
11	28.32	28.28	28.41	28.18	28.16	28.25	28.33	28.33	28.37	29.14	29.34	28.36	
12	28.32	28.27	28.35	28.16	28.22	28.25	28.33	28.30	28.37	29.16	29.48	28.35	
13	28.32	28.27	28.33	28.18	28.21	28.27	28.37	28.30	28.37	29.22	29.19	28.34	
14	28.33	28.30	28.34	28.17	28.19	28.37	28.35	28.42	28.37	29.24	29.13	28.34	
15	28.33	28.47	28.34	28.17	28.17	28.30	28.34	28.35	28.39	29.14	29.09	28.32	
16	28.33	28.51	28.32	28.16	28.18	28.27	28.38	28.32	28.57	29.11	29.06	28.30	
17	28.32	28.42	28.32	28.20	28.17	28.27	28.41	28.28	28.40	29.10	29.04	28.27	
18	28.32	28.36	28.31	28.35	28.16	28.35	28.56	28.23	28.40	29.08	29.25	28.24	
19	28.31	28.43	28.30	28.41	28.15	28.30	28.70	28.25	28.39	29.08	29.58	28.22	
20	28.31	28.51	28.29	28.36	28.14	28.28	28.82	28.41	28.41	29.06	29.38	28.19	
21	28.29	28.38	28.27	28.30	28.14	28.25	29.05	28.58	28.41	29.07	29.15	28.19	
22	28.27	28.35	28.26	28.26	28.15	28.25	28.77	28.45	28.41	29.08	29.12	28.18	
23	28.26	28.35	28.26	28.28	28.15	28.27	28.58	28.36	28.41	29.06	29.28	28.18	
24	28.25	28.35	28.27	28.22	28.14	28.28	28.51	28.30	28.41	29.04	29.38	28.17	
25	28.24	28.33	28.25	28.26	28.15	28.34	28.42	28.30	28.41	29.01	29.22	28.17	
26	28.23	28.32	28.24	28.24	28.15	28.34	28.40	28.56	28.41	28.99	29.14	28.22	
27	28.22	28.31	28.24	28.20	28.15	28.34	28.41	28.63	28.41	28.99	29.09	28.61	
28	28.21	28.31	28.23	28.18	28.19	28.29	28.39	28.93	28.41	28.99	29.06	28.79	
29	28.20	28.31	28.22	28.19	28.30	28.34	28.35	29.03	28.42	28.98	29.04	28.72	
30	28.26	28.37	28.21	28.16	28.33	28.28	28.30	29.41	28.44	28.98		28.51	
31		28.45		28.15	28.27		28.28		28.46	28.97		28.38	
Mean	28.30	28.34	28.34	28.21	28.18	28.28	28.46	28.46	28.47	29.03	29.12	28.41	
Max	28.37	28.51	28.66	28.41	28.33	28.38	29.05	29.41	29.03	29.24	29.58	29.03	29.58
Min	28.20	28.24	28.21	28.15	28.14	28.21	28.26	28.23	28.37	28.46	28.93	28.17	28.14
Annual Max Momentary Gage Height	29.62	m. (MSL.) ,		at 01.00 Hours , on Feb 19, 2020									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed 24.34 m. (MSL.)									
Left Bank Elevation	35.53		m. (MSL.) ,										
Right Bank Elevation	33.96		m. (MSL.) ,										
	Drainage Are		475 Square Kilometers										



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	4.65	8.50	1.50	0.60	3.60	3.60	7.50	63.50	13.00	4.64	63.50	
2	7.50	2.90	11.00	1.35	1.20	3.60	8.50	7.50	31.60	13.50	4.64	47.00	
3	8.50	2.90	11.00	1.05	3.60	2.55	9.50	9.00	32.30	14.00	4.52	17.00	
4	7.50	3.95	13.50	1.05	1.85	2.55	12.50	10.50	28.10	4.40	4.40	16.00	
5	6.50	8.00	13.00	0.75	1.20	3.60	14.00	13.00	23.60	8.10	4.28	15.00	
6	6.50	4.30	12.00	0.75	1.05	2.20	16.00	9.50	13.50	7.70	4.28	13.50	
7	7.00	3.25	23.60	1.05	0.90	1.85	15.50	9.50	8.50	7.40	4.16	12.50	
8	7.00	3.25	13.00	1.85	0.75	2.55	11.50	11.50	8.50	7.55	4.16	11.00	
9	6.50	9.00	9.50	1.50	0.75	3.60	11.50	14.50	8.50	7.90	4.64	10.00	
10	6.50	5.00	10.50	1.85	0.90	9.00	8.50	12.50	8.50	7.10	5.36	9.00	
11	6.00	4.30	10.50	1.20	0.90	3.25	6.50	6.50	8.50	6.80	10.50	8.00	
12	6.00	3.95	7.50	0.90	2.20	3.25	6.50	5.00	8.50	7.10	13.30	7.50	
13	6.00	3.95	6.50	1.20	1.85	3.95	8.50	5.00	8.50	8.10	7.55	7.00	
14	6.50	5.00	7.00	1.05	1.35	8.50	7.50	11.00	8.50	8.50	6.65	7.00	
15	6.50	13.50	7.00	1.05	1.05	5.00	7.00	7.50	9.50	6.80	6.08	6.00	
16	6.50	15.50	6.00	0.90	1.20	3.95	9.00	6.00	18.50	6.35	5.72	5.00	
17	6.00	11.00	6.00	1.50	1.05	3.95	10.50	4.30	10.00	6.20	5.48	3.95	
18	6.00	8.00	5.50	7.50	0.90	7.50	18.00	2.55	10.00	5.96	8.70	2.90	
19	5.50	11.50	5.00	10.50	0.75	5.00	26.00	3.25	9.50	5.96	154.00	2.20	
20	5.50	15.50	4.65	8.00	0.60	4.30	35.20	10.50	10.50	5.72	116.80	1.35	
21	4.65	9.00	3.95	5.00	0.60	3.25	66.50	19.00	10.50	5.84	81.50	1.35	
22	3.95	7.50	3.60	3.60	0.75	3.25	30.90	12.50	10.50	5.96	77.00	1.20	
23	3.60	7.50	3.60	4.30	0.75	3.95	19.00	8.00	10.50	5.72	101.00	1.20	
24	3.25	7.50	3.95	2.20	0.60	4.30	15.50	5.00	10.50	5.48	116.80	1.05	
25	2.90	6.50	3.25	3.60	0.75	7.00	11.00	5.00	10.50	5.12	92.00	1.05	
26	2.55	6.00	2.90	2.90	0.75	7.00	10.00	18.00	10.50	4.88	80.00	2.20	
27	2.20	5.50	2.90	1.50	0.75	7.00	10.50	21.80	10.50	4.88	72.50	20.60	
28	1.85	5.50	2.55	1.20	1.35	4.65	9.50	48.50	10.50	4.88	68.00	32.30	
29	1.50	5.50	2.20	1.35	5.00	7.00	7.50	63.50	11.00	4.76	65.00	27.40	
30	3.60	8.50	1.85	0.90	6.50	4.30	5.00	121.80	12.00	4.76		15.50	
31		12.50		0.75	3.95		4.30		13.00	4.64		9.00	
<b>Total</b>	<b>161.55</b>	<b>220.90</b>	<b>222.00</b>	<b>73.80</b>	<b>46.40</b>	<b>135.45</b>	<b>435.50</b>	<b>489.70</b>	<b>448.60</b>	<b>215.06</b>	<b>1133.66</b>	<b>378.25</b>	<b>3960.87</b> CMSDAY
<b>Mean</b>	<b>5.38</b>	<b>7.13</b>	<b>7.40</b>	<b>2.38</b>	<b>1.50</b>	<b>4.52</b>	<b>14.05</b>	<b>16.32</b>	<b>14.47</b>	<b>6.94</b>	<b>39.09</b>	<b>12.20</b>	<b>10.82</b> CMS
<b>Max</b>	<b>8.50</b>	<b>15.50</b>	<b>23.60</b>	<b>10.50</b>	<b>6.50</b>	<b>9.00</b>	<b>66.50</b>	<b>121.80</b>	<b>63.50</b>	<b>14.00</b>	<b>154.00</b>	<b>63.50</b>	<b>154.00</b> CMS
<b>Min</b>	<b>1.50</b>	<b>2.90</b>	<b>1.85</b>	<b>0.75</b>	<b>0.60</b>	<b>1.85</b>	<b>3.60</b>	<b>2.55</b>	<b>8.50</b>	<b>4.40</b>	<b>4.16</b>	<b>1.05</b>	<b>0.60</b> CMS
<b>Runoff</b>	<b>13.96</b>	<b>19.09</b>	<b>19.18</b>	<b>6.38</b>	<b>4.01</b>	<b>11.70</b>	<b>37.63</b>	<b>42.31</b>	<b>38.76</b>	<b>18.58</b>	<b>97.95</b>	<b>32.68</b>	<b>342.22</b> MCM
<b>Momentary Peak</b>	<b>162.00 CMS. at 29.62 m. (MSL.) at 01.00 Hours , on Feb 19, 2020</b>												
<b>Runoff Yield</b>	<b>22.84 Liters/Second/Square KM.</b>			<b>Momentary Peak Yield 340.97 Liters/Second/Square KM.</b>									



## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

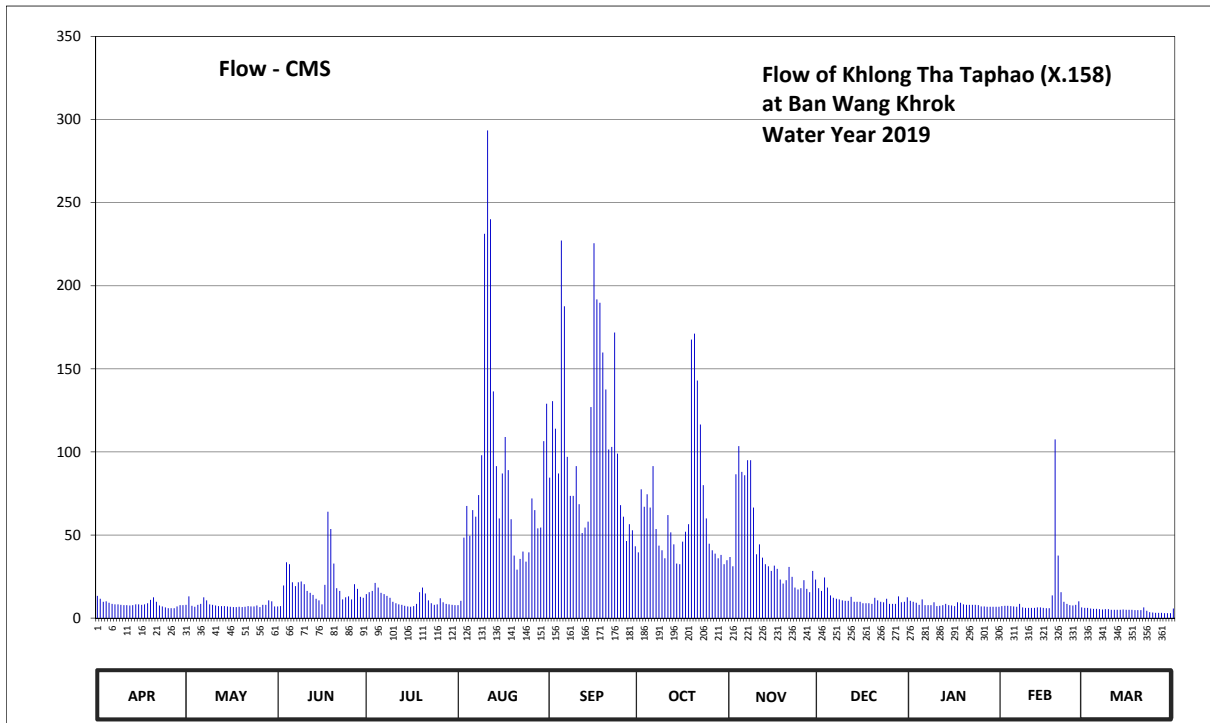
Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban Wang Khrok	Amphoe Tha Sae	Changwat Chumphon
<b>Drainage Area</b>	1,814 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 1 meters from the top staff gage.	<b>Elevation</b>	+11.796 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1990 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1990 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.18	3.00	2.95	3.21	2.99	4.81	3.84	3.77	3.30	3.08	2.96	2.91	
2	3.12	3.17	2.96	3.24	3.08	5.73	4.67	3.63	3.26	3.06	2.97	2.91	
3	3.06	2.97	3.34	3.26	4.06	5.40	4.46	4.85	3.46	3.04	2.97	2.89	
4	3.07	2.94	3.69	3.38	4.47	4.86	4.61	5.19	3.31	3.00	2.96	2.88	
5	3.04	3.00	3.66	3.31	4.09	7.24	4.45	4.88	3.19	3.11	2.95	2.88	
6	3.02	3.02	3.39	3.23	4.42	6.68	4.95	4.84	3.14	2.99	2.94	2.87	
7	3.01	3.15	3.33	3.21	4.34	5.06	4.19	5.02	3.12	2.99	3.02	2.86	
8	3.01	3.09	3.39	3.18	4.60	4.59	3.94	5.02	3.11	2.99	2.92	2.87	
9	3.00	3.01	3.40	3.14	5.08	4.59	3.87	4.45	3.09	3.05	2.91	2.87	
10	2.99	3.00	3.36	3.06	7.29	4.95	3.75	3.81	3.08	2.96	2.91	2.85	
11	2.99	2.98	3.26	3.03	8.06	4.49	4.36	3.96	3.08	2.97	2.91	2.85	
12	2.98	2.96	3.23	3.01	7.40	4.13	4.14	3.76	3.16	2.99	2.91	2.85	
13	2.99	2.96	3.20	3.00	5.84	4.21	3.96	3.66	3.06	3.02	2.92	2.85	
14	3.01	2.96	3.12	2.97	4.95	4.28	3.67	3.63	3.06	2.99	2.92	2.86	
15	3.01	2.95	3.09	2.95	4.32	5.66	3.66	3.56	3.06	2.98	2.91	2.85	
16	3.00	2.94	3.01	2.94	4.86	7.22	4.00	3.64	3.03	2.96	2.90	2.85	
17	3.01	2.93	3.35	2.96	5.30	6.74	4.15	3.59	3.03	3.05	2.90	2.85	
18	3.03	2.93	4.40	3.02	4.90	6.71	4.25	3.43	3.03	3.04	3.19	2.84	
19	3.10	2.94	4.19	3.24	4.31	6.23	6.36	3.37	3.02	3.01	5.27	2.84	
20	3.15	2.93	3.67	3.31	3.79	5.86	6.42	3.42	3.14	3.00	3.79	2.84	
21	3.06	2.94	3.30	3.22	3.58	5.15	5.95	3.62	3.09	3.00	3.24	2.92	
22	2.98	2.96	3.26	3.09	3.74	5.18	5.45	3.47	3.06	3.00	3.06	2.82	
23	2.95	2.95	3.11	3.03	3.85	6.43	4.72	3.31	3.05	3.00	3.02	2.78	
24	2.92	2.95	3.15	3.00	3.70	5.10	4.32	3.28	3.12	2.99	2.99	2.77	
25	2.90	2.98	3.17	3.01	3.84	4.48	3.97	3.30	3.02	2.95	2.98	2.76	
26	2.90	2.93	3.11	3.13	4.56	4.34	3.87	3.42	3.02	2.95	3.00	2.76	
27	2.90	3.00	3.36	3.05	4.42	4.01	3.82	3.29	3.02	2.94	3.07	2.76	
28	2.95	3.00	3.29	3.02	4.20	4.25	3.75	3.24	3.17	2.94	2.92	2.75	
29	2.99	3.09	3.16	3.01	4.21	4.17	3.80	3.56	3.05	2.94	2.92	2.75	
30	2.99	3.07	3.14	3.00	5.25	3.93	3.66	3.43	3.06	2.94		2.75	
31		2.95		2.99	5.70		3.72		3.15	2.94		2.89	
Mean	3.01	2.99	3.33	3.10	4.68	5.22	4.35	3.85	3.11	3.00	3.08	2.84	
Max	3.18	3.17	4.40	3.38	8.06	7.24	6.42	5.19	3.46	3.11	5.27	2.92	8.06
Min	2.90	2.93	2.95	2.94	2.99	3.93	3.66	3.24	3.02	2.94	2.90	2.75	2.75
Annual Max Momentary Gage Height	8.21		m. (MSL.) ,			at 11.00 Hours , on Aug 11, 2019							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed 0.52	m. (MSL.)						
Left Bank Elevation	11.50		m. (MSL.) ,										
Right Bank Elevation	11.80		m. (MSL.) ,			Drainage Are 1,814	Square Kilometers						



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.40	8.00	7.00	14.40	7.80	84.50	39.60	36.80	18.00	10.40	7.20	6.20		
2	11.60	13.10	7.20	15.60	10.40	130.50	77.50	31.20	16.40	9.80	7.40	6.20		
3	9.80	7.40	19.60	16.40	48.40	114.00	67.00	86.50	24.40	9.20	7.40	5.80		
4	10.10	6.80	33.60	21.20	67.50	87.00	74.50	103.50	18.40	8.00	7.20	5.60		
5	9.20	8.00	32.40	18.40	49.60	227.20	66.50	88.00	13.70	11.30	7.00	5.60		
6	8.60	8.60	21.60	15.20	65.00	187.60	91.50	86.00	12.20	7.80	6.80	5.40		
7	8.30	12.50	19.20	14.40	61.00	97.00	53.60	95.00	11.60	7.80	8.60	5.20		
8	8.30	10.70	21.60	13.40	74.00	73.50	43.60	95.00	11.30	7.80	6.40	5.40		
9	8.00	8.30	22.00	12.20	98.00	73.50	40.80	66.50	10.70	9.50	6.20	5.40		
10	7.80	8.00	20.40	9.80	231.20	91.50	36.00	38.40	10.40	7.20	6.20	5.00		
11	7.80	7.60	16.40	8.90	293.40	68.50	62.00	44.40	10.40	7.40	6.20	5.00		
12	7.60	7.20	15.20	8.30	240.00	51.20	51.60	36.40	12.80	7.80	6.20	5.00		
13	7.80	7.20	14.00	8.00	136.40	54.50	44.40	32.40	9.80	8.60	6.40	5.00		
14	8.30	7.20	11.60	7.40	91.50	58.00	32.80	31.20	9.80	7.80	6.40	5.20		
15	8.30	7.00	10.70	7.00	60.00	127.00	32.40	28.40	9.80	7.60	6.20	5.00		
16	8.00	6.80	8.30	6.80	87.00	225.60	46.00	31.60	8.90	7.20	6.00	5.00		
17	8.30	6.60	20.00	7.20	109.00	191.80	52.00	29.60	8.90	9.50	6.00	5.00		
18	8.90	6.60	64.00	8.60	89.00	189.70	56.50	23.20	8.90	9.20	13.70	4.80		
19	11.00	6.80	53.60	15.60	59.50	159.80	167.60	20.80	8.60	8.30	107.50	4.80		
20	12.50	6.60	32.80	18.40	37.60	137.60	171.20	22.80	12.20	8.00	37.60	4.80		
21	9.80	6.80	18.00	14.80	29.20	101.50	143.00	30.80	10.70	8.00	15.60	6.40		
22	7.60	7.20	16.40	10.70	35.60	103.00	116.50	24.80	9.80	8.00	9.80	4.40		
23	7.00	7.00	11.30	8.90	40.00	171.80	80.00	18.40	9.50	8.00	8.60	3.60		
24	6.40	7.00	12.50	8.00	34.00	99.00	60.00	17.20	11.60	7.80	7.80	3.40		
25	6.00	7.60	13.10	8.30	39.60	68.00	44.80	18.00	8.60	7.00	7.60	3.20		
26	6.00	6.60	11.30	11.90	72.00	61.00	40.80	22.80	8.60	7.00	8.00	3.20		
27	6.00	8.00	20.40	9.50	65.00	46.40	38.80	17.60	8.60	6.80	10.10	3.20		
28	7.00	8.00	17.60	8.60	54.00	56.50	36.00	15.60	13.10	6.80	6.40	3.00		
29	7.80	10.70	12.80	8.30	54.50	52.80	38.00	28.40	9.50	6.80	6.40	3.00		
30	7.80	10.10	12.20	8.00	106.50	43.20	32.40	23.20	9.80	6.80		3.00		
31		7.00		7.80	129.00		34.80		12.50	6.80		5.80		
<b>Total</b>	255.00	247.00	596.80	352.00	2575.70	3233.20	1972.20	1244.50	359.50	250.00	352.90	147.60	11586.40	CMSDAY
<b>Mean</b>	8.50	7.97	19.89	11.35	83.09	107.77	63.62	41.48	11.60	8.06	12.17	4.76	31.66	CMS
<b>Max</b>	13.40	13.10	64.00	21.20	293.40	227.20	171.20	103.50	24.40	11.30	107.50	6.40	293.40	CMS
<b>Min</b>	6.00	6.60	7.00	6.80	7.80	43.20	32.40	15.60	8.60	6.80	6.00	3.00	3.00	CMS
<b>Runoff</b>	22.03	21.34	51.56	30.41	222.54	279.35	170.40	107.52	31.06	21.60	30.49	12.75	1001.06	MCM
<b>Momentary Peak</b>	306.90 CMS. at 8.21 m. (MSL.) at 11.00 Hours , on Aug 11, 2019													
<b>Runoff Yield</b>	17.50 Liters/Second/Square KM.			Momentary Peak Yield				169.17 Liters/Second/Square KM.						

**WATER YEAR : 2019**  
**SOUTHERN PENINSULA EAST COAST**

**Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)**

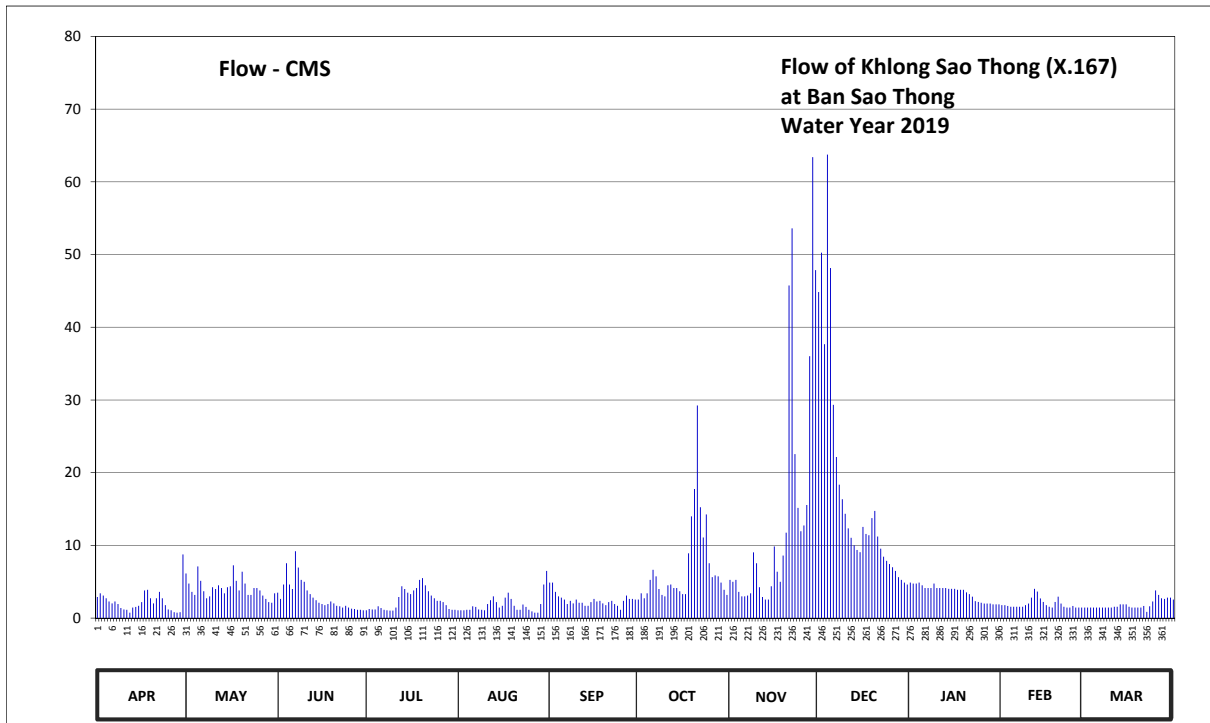
Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

**Location : on right bank at the bridge.**

	<b>Ban</b> Sao Thong	<b>Amphoe</b> Ron Phibun	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	252 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 4.50 meters from the top staff gage.	<b>Elevation</b>	+12.456 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1986 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.59	8.87	8.65	8.36	8.36	8.77	8.55	8.80	10.32	8.43	8.17	8.14	
2	8.64	8.76	8.56	8.39	8.36	8.77	8.64	8.78	10.50	8.42	8.17	8.14	
3	8.61	8.66	8.75	8.38	8.36	8.66	8.57	8.80	10.07	8.42	8.16	8.14	
4	8.57	8.62	8.97	8.38	8.37	8.60	8.64	8.66	10.90	8.43	8.15	8.14	
5	8.52	8.94	8.75	8.44	8.37	8.58	8.80	8.60	10.43	8.40	8.15	8.14	
6	8.49	8.79	8.70	8.41	8.44	8.55	8.91	8.60	9.75	8.37	8.15	8.14	
7	8.52	8.67	9.08	8.37	8.43	8.48	8.84	8.61	9.42	8.37	8.15	8.14	
8	8.48	8.57	8.93	8.36	8.38	8.53	8.70	8.64	9.23	8.37	8.15	8.14	
9	8.41	8.60	8.80	8.35	8.37	8.49	8.62	9.07	9.13	8.42	8.17	8.14	
10	8.38	8.72	8.78	8.35	8.36	8.55	8.60	8.97	9.03	8.37	8.19	8.14	
11	8.37	8.70	8.68	8.42	8.48	8.50	8.74	8.72	8.93	8.37	8.26	8.15	
12	8.30	8.74	8.63	8.59	8.54	8.50	8.75	8.59	8.86	8.37	8.36	8.15	
13	8.42	8.71	8.58	8.73	8.60	8.45	8.71	8.55	8.80	8.37	8.33	8.18	
14	8.43	8.64	8.54	8.70	8.51	8.45	8.71	8.55	8.76	8.36	8.25	8.18	
15	8.45	8.72	8.50	8.65	8.42	8.51	8.67	8.73	8.74	8.36	8.21	8.18	
16	8.51	8.73	8.48	8.63	8.45	8.56	8.63	9.12	8.94	8.36	8.17	8.15	
17	8.68	8.95	8.46	8.68	8.58	8.52	8.63	8.89	8.89	8.35	8.15	8.14	
18	8.69	8.79	8.48	8.71	8.65	8.53	9.06	8.78	8.88	8.35	8.14	8.14	
19	8.57	8.68	8.52	8.80	8.56	8.49	9.33	8.71	9.00	8.35	8.21	8.14	
20	8.49	8.89	8.49	8.82	8.45	8.46	9.48	8.90	9.05	8.32	8.27	8.14	
21	8.57	8.76	8.45	8.74	8.37	8.51	9.85	10.35	8.87	8.30	8.19	8.16	
22	8.66	8.62	8.44	8.67	8.37	8.53	9.38	10.61	8.77	8.27	8.15	8.32	
23	8.57	8.62	8.42	8.61	8.47	8.48	9.19	9.44	8.70	8.22	8.14	8.44	
24	8.46	8.71	8.45	8.57	8.43	8.45	9.34	9.07	8.66	8.21	8.14	8.52	
25	8.38	8.71	8.42	8.53	8.37	8.37	8.97	8.91	8.63	8.20	8.16	8.68	
26	8.36	8.68	8.40	8.53	8.33	8.53	8.83	8.95	8.60	8.19	8.14	8.62	
27	8.31	8.61	8.39	8.51	8.30	8.61	8.85	9.09	8.56	8.19	8.14	8.57	
28	8.30	8.56	8.37	8.46	8.30	8.56	8.84	10.01	8.49	8.19	8.14	8.56	
29	8.31	8.51	8.37	8.39	8.48	8.56	8.77	10.89	8.46	8.18	8.14	8.58	
30	9.05	8.50	8.36	8.37	8.75	8.55	8.69	10.42	8.43	8.18		8.58	
31		8.64		8.37	8.90		8.62		8.41	8.18		8.55	
Mean	8.50	8.70	8.58	8.52	8.46	8.54	8.87	9.09	9.10	8.32	8.18	8.28	
Max	9.05	8.95	9.08	8.82	8.90	8.77	9.85	10.89	10.90	8.43	8.36	8.68	10.90
Min	8.30	8.50	8.36	8.35	8.30	8.37	8.55	8.55	8.41	8.18	8.14	8.14	8.14
Annual Max Momentary Gage Height	11.15		m. (MSL.) ,				at 13.00 Hours ,						on Dec 4, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.01	m. (MSL.)					
Left Bank Elevation		11.35	m. (MSL.) ,										
Right Bank Elevation		11.66	m. (MSL.) ,		Drainage Are	252	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.91	6.13	3.50	1.08	1.08	4.88	2.55	5.25	44.85	4.88	1.77	1.44	
2	3.40	4.75	2.64	1.25	1.08	4.88	3.40	5.00	50.25	4.75	1.77	1.44	
3	3.10	3.60	4.63	1.19	1.08	3.60	2.73	5.25	37.68	4.75	1.66	1.44	
4	2.73	3.20	7.55	1.19	1.14	3.00	3.40	3.60	63.75	4.88	1.55	1.44	
5	2.28	7.10	4.63	1.62	1.14	2.82	5.25	3.00	48.15	4.50	1.55	1.44	
6	2.02	5.13	4.00	1.38	1.62	2.55	6.65	3.00	29.33	4.14	1.55	1.44	
7	2.28	3.70	9.20	1.14	1.54	1.94	5.75	3.10	22.15	4.14	1.55	1.44	
8	1.94	2.73	6.95	1.08	1.19	2.37	4.00	3.40	18.35	4.14	1.55	1.44	
9	1.38	3.00	5.25	1.03	1.14	2.02	3.20	9.05	16.35	4.75	1.77	1.44	
10	1.19	4.25	5.00	1.03	1.08	2.55	3.00	7.55	14.35	4.14	1.99	1.44	
11	1.14	4.00	3.80	1.46	1.94	2.10	4.50	4.25	12.35	4.14	2.82	1.55	
12	0.75	4.50	3.30	2.91	2.46	2.10	4.63	2.91	11.05	4.14	4.02	1.55	
13	1.46	4.13	2.82	4.38	3.00	1.70	4.13	2.55	10.00	4.14	3.66	1.88	
14	1.54	3.40	2.46	4.00	2.19	1.70	4.13	2.55	9.38	4.02	2.70	1.88	
15	1.70	4.25	2.10	3.50	1.46	2.19	3.70	4.38	9.07	4.02	2.22	1.88	
16	2.19	4.38	1.94	3.30	1.70	2.64	3.30	9.85	12.55	4.02	1.77	1.55	
17	3.80	7.25	1.78	3.80	2.82	2.28	3.30	6.38	11.58	3.90	1.55	1.44	
18	3.90	5.13	1.94	4.13	3.50	2.37	8.90	5.00	11.40	3.90	1.44	1.44	
19	2.73	3.80	2.28	5.25	2.64	2.02	14.00	8.61	13.75	3.90	2.22	1.44	
20	2.02	6.38	2.02	5.50	1.70	1.78	17.75	11.75	14.75	3.54	2.94	1.44	
21	2.73	4.75	1.70	4.50	1.14	2.19	29.25	45.75	11.23	3.30	1.99	1.66	
22	3.60	3.20	1.62	3.70	1.14	2.37	15.25	53.60	9.54	2.94	1.55	0.86	
23	2.73	3.20	1.46	3.10	1.86	1.94	11.08	22.55	8.45	2.34	1.44	1.62	
24	1.78	4.13	1.70	2.73	1.54	1.70	14.25	15.15	7.87	2.22	1.44	2.28	
25	1.19	4.13	1.46	2.37	1.14	1.14	7.55	11.95	7.44	2.10	1.66	3.80	
26	1.08	3.80	1.30	2.37	0.92	2.37	5.63	12.75	7.00	1.99	1.44	3.20	
27	0.81	3.10	1.25	2.19	0.75	3.10	5.88	15.55	6.50	1.99	1.44	2.73	
28	0.75	2.64	1.14	1.78	0.75	2.64	5.75	36.03	5.63	1.99	1.44	2.64	
29	0.81	2.19	1.14	1.25	1.94	2.64	4.88	63.40	5.25	1.88	1.44	2.82	
30	8.75	2.10	1.08	1.14	4.63	2.55	3.90	47.85	4.88	1.88		2.82	
31		3.40		1.14	6.50		3.20		4.63	1.88		2.55	
Total	68.69	127.45	91.64	76.49	57.81	74.13	214.89	431.01	539.51	109.30	55.89	57.43	1904.24 CMSDAY
Mean	2.29	4.11	3.05	2.47	1.86	2.47	6.93	14.37	17.40	3.53	1.93	1.85	5.20 CMS
Max	8.75	7.25	9.20	5.50	6.50	4.88	29.25	63.40	63.75	4.88	4.02	3.80	63.75 CMS
Min	0.75	2.10	1.08	1.03	0.75	1.14	2.55	2.55	4.63	1.88	1.44	0.86	0.75 CMS
Runoff	5.93	11.01	7.92	6.61	4.99	6.40	18.57	37.24	46.61	9.44	4.83	4.96	164.53 MCM
Momentary Peak	72.78	CMS.	at 11.15 m. (MSL.)	at 13.00 Hours	on Dec 4, 2019								
Runoff Yield	20.70	Liters/Second/Square KM.		Momentary Peak Yield	288.82	Liters/Second/Square KM.							

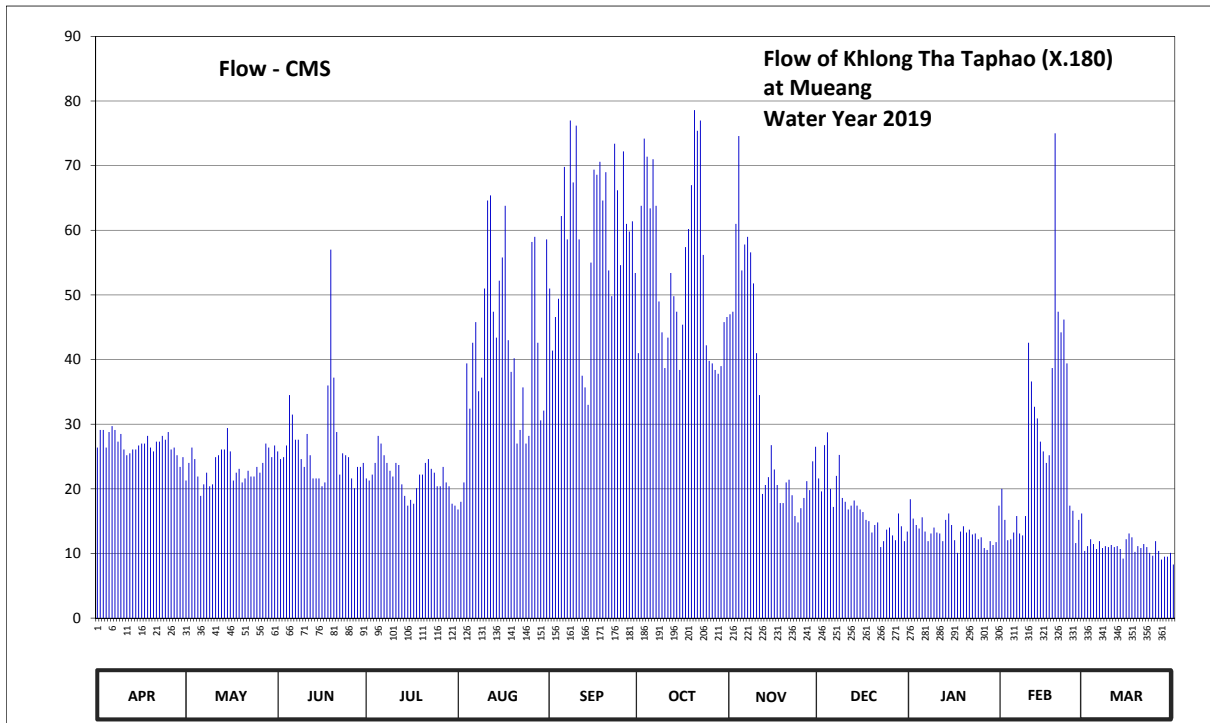
**WATER YEAR : 2019**  
**SOUTHERN PENINSULA EAST COAST**  
**Khlong Tha Taphao at Mueang , Chumphon (X.180)**  
Lat 10 - 29 - 42 N Long 99 - 10 - 23 E

Location : on left bank at the bridge.

	<b>Ban</b> -	<b>Amphoe</b> Mueang	<b>Changwat</b> Chumphon
<b>Drainage Area</b>	2,045 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+5.896 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1995 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1995 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1995 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

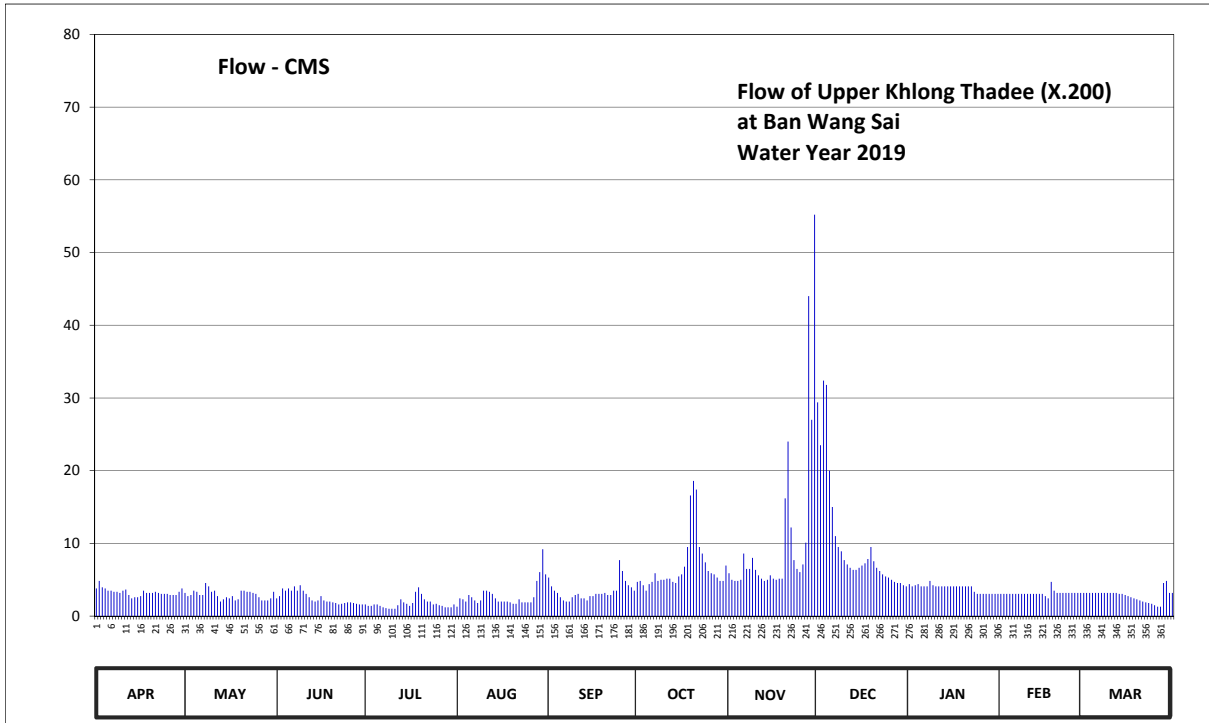
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	0.21	0.36	0.22	0.06	1.10	0.85	1.00	0.98	0.82	0.90	0.36	
2	0.47	0.30	0.32	0.21	0.10	0.86	1.42	1.01	0.88	0.67	0.66	0.41	
3	0.47	0.38	0.33	0.24	0.20	0.99	1.68	1.35	1.19	0.62	0.47	0.48	
4	0.38	0.32	0.39	0.30	0.81	1.06	1.61	1.69	1.25	0.59	0.48	0.43	
5	0.46	0.23	0.65	0.44	0.58	1.38	1.41	1.17	0.90	0.68	0.55	0.38	
6	0.49	0.13	0.55	0.40	0.89	1.57	1.60	1.27	0.76	0.56	0.69	0.46	
7	0.47	0.19	0.42	0.34	0.97	1.29	1.42	1.30	1.00	0.46	0.54	0.39	
8	0.41	0.25	0.42	0.30	0.67	1.75	1.05	1.24	1.13	0.54	0.52	0.41	
9	0.45	0.18	0.32	0.26	0.74	1.51	0.93	1.12	0.83	0.60	0.69	0.40	
10	0.37	0.19	0.28	0.23	1.10	1.73	0.79	0.85	0.80	0.55	0.89	0.42	
11	0.34	0.33	0.45	0.30	1.44	1.29	0.91	0.65	0.74	0.54	0.72	0.40	
12	0.35	0.34	0.34	0.29	1.46	0.75	1.16	0.86	0.77	0.46	0.59	0.41	
13	0.37	0.37	0.22	0.19	1.01	0.69	1.07	0.93	0.81	0.66	0.53	0.38	
14	0.37	0.37	0.22	0.13	0.91	0.60	1.01	0.99	0.77	0.71	0.41	0.28	
15	0.39	0.48	0.22	0.08	1.13	1.20	0.78	1.19	0.74	0.62	0.36	0.48	
16	0.40	0.36	0.18	0.11	1.22	1.56	0.96	1.04	0.72	0.47	0.30	0.54	
17	0.40	0.21	0.20	0.09	1.42	1.54	1.26	0.93	0.66	0.34	0.34	0.50	
18	0.44	0.25	0.70	0.17	0.90	1.59	1.33	0.79	0.65	0.56	0.79	0.35	
19	0.38	0.27	1.25	0.24	0.77	1.44	1.50	0.79	0.55	0.61	1.70	0.41	
20	0.36	0.20	0.74	0.24	0.83	1.55	1.79	0.95	0.62	0.55	1.01	0.39	
21	0.41	0.22	0.46	0.30	0.40	1.17	1.71	0.97	0.64	0.58	0.93	0.43	
22	0.41	0.26	0.24	0.32	0.47	1.07	1.75	0.85	0.40	0.53	0.98	0.40	
23	0.44	0.23	0.35	0.27	0.69	1.66	1.23	0.69	0.46	0.54	0.81	0.34	
24	0.42	0.23	0.34	0.25	0.40	1.48	0.88	0.64	0.58	0.48	0.77	0.31	
25	0.46	0.28	0.33	0.18	0.44	1.19	0.82	0.75	0.60	0.50	0.73	0.46	
26	0.37	0.25	0.22	0.18	1.28	1.63	0.81	0.83	0.52	0.39	0.44	0.36	
27	0.38	0.30	0.17	0.28	1.30	1.35	0.78	0.96	0.47	0.37	0.66	0.27	
28	0.34	0.40	0.28	0.20	0.89	1.32	0.76	0.89	0.71	0.46	0.71	0.30	
29	0.28	0.38	0.28	0.18	0.52	1.36	0.80	1.09	0.61	0.42	0.45	0.30	
30	0.33	0.33	0.30	0.09	0.57	1.16	0.97	1.18	0.46	0.45	0.22	0.34	
31		0.39		0.08	1.29		0.99		0.56	0.77		0.22	
Mean	0.40	0.28	0.38	0.23	0.82	1.29	1.16	1.00	0.73	0.55	0.68	0.39	
Max	0.49	0.48	1.25	0.44	1.46	1.75	1.79	1.69	1.25	0.82	1.70	0.54	1.79
Min	0.28	0.13	0.17	0.08	0.06	0.60	0.76	0.64	0.40	0.34	0.30	0.22	0.06
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
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Left Bank Elevation	3.80												
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Annual Max Momentary Gage Height	2.24												
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Left Bank Elevation	3.80												
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Annual Max Momentary Gage Height	2.24												
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Left Bank Elevation	3.80												
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Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
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Annual Max Momentary Gage Height	2.24												
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Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
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Annual Max Momentary Gage Height	2.24												
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Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	3.80												
Right Bank Elevation	3.90												
Annual Max Momentary Gage Height	2.24												
Zero Gage at Bottom Elevation	0.00												



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.40	21.30	25.80	21.60	16.80	51.00	41.00	47.00	21.60	18.40	20.00	10.40	
2	29.10	24.00	24.60	21.30	18.00	41.40	63.80	47.40	19.60	15.40	15.20	11.15	
3	29.10	26.40	24.90	22.20	21.00	46.60	74.20	61.00	26.75	14.40	12.05	12.20	
4	26.40	24.60	26.70	24.00	39.40	49.40	71.40	74.60	28.75	13.85	12.20	11.45	
5	28.80	21.90	34.50	28.20	32.40	62.20	63.40	53.80	20.00	15.60	13.25	10.70	
6	29.70	18.90	31.50	27.00	42.60	69.80	71.00	57.80	17.20	13.40	15.80	11.90	
7	29.10	20.70	27.60	25.20	45.80	58.60	63.80	59.00	22.00	11.90	13.10	10.85	
8	27.30	22.50	27.60	24.00	35.10	77.00	49.00	56.60	25.25	13.10	12.80	11.15	
9	28.50	20.40	24.60	22.80	37.20	67.40	44.20	51.80	18.60	14.00	15.80	11.00	
10	26.10	20.70	23.40	21.90	51.00	76.20	38.70	41.00	18.00	13.25	42.60	11.30	
11	25.20	24.90	28.50	24.00	64.60	58.60	43.40	34.50	16.80	13.10	36.60	11.00	
12	25.50	25.20	25.20	23.70	65.40	37.50	53.40	19.20	17.40	11.90	32.70	11.15	
13	26.10	26.10	21.60	20.70	47.40	35.70	49.80	20.60	18.20	15.20	30.90	10.70	
14	26.10	26.10	21.60	18.90	43.40	33.00	47.40	21.80	17.40	16.20	27.30	9.20	
15	26.70	29.40	21.60	17.40	52.20	55.00	38.40	26.75	16.80	14.40	25.80	12.20	
16	27.00	25.80	20.40	18.30	55.80	69.40	45.40	23.00	16.40	12.05	24.00	13.10	
17	27.00	21.30	21.00	17.70	63.80	68.60	57.40	20.60	15.20	10.10	25.20	12.50	
18	28.20	22.50	36.00	20.10	43.00	70.60	60.20	17.80	15.00	13.40	38.70	10.25	
19	26.40	23.10	57.00	22.20	38.10	64.60	67.00	17.80	13.25	14.20	75.00	11.15	
20	25.80	21.00	37.20	22.20	40.20	69.00	78.60	21.00	14.40	13.25	47.40	10.85	
21	27.30	21.60	28.80	24.00	27.00	53.80	75.40	21.40	14.80	13.70	44.20	11.45	
22	27.30	22.80	22.20	24.60	29.10	49.80	77.00	19.00	11.00	12.95	46.20	11.00	
23	28.20	21.90	25.50	23.10	35.70	73.40	56.20	15.80	11.90	13.10	39.40	10.10	
24	27.60	21.90	25.20	22.50	27.00	66.20	42.20	14.80	13.70	12.20	17.40	9.65	
25	28.80	23.40	24.90	20.40	28.20	54.60	39.80	17.00	14.00	12.50	16.60	11.90	
26	26.10	22.50	21.60	20.40	58.20	72.20	39.40	18.60	12.80	10.85	11.60	10.40	
27	26.40	24.00	20.10	23.40	59.00	61.00	38.40	21.20	12.05	10.55	15.20	9.05	
28	25.20	27.00	23.40	21.00	42.60	59.80	37.80	19.80	16.20	11.90	16.20	9.50	
29	23.40	26.40	23.40	20.40	30.60	61.40	39.00	24.25	14.20	11.30	11.75	9.50	
30	24.90	24.90	24.00	17.70	32.10	53.40	45.80	26.50	11.90	11.75		10.10	
31		26.70		17.40	58.60		46.60		13.40	17.40		8.30	
Total	809.70	729.90	800.40	678.30	1281.30	1767.20	1659.10	971.40	524.55	415.30	754.95	335.15	10727.25 CMSDAY
Mean	26.99	23.55	26.68	21.88	41.33	58.91	53.52	32.38	16.92	13.40	26.03	10.81	29.31 CMS
Max	29.70	29.40	57.00	28.20	65.40	77.00	78.60	74.60	28.75	18.40	75.00	13.10	78.60 CMS
Min	23.40	18.90	20.10	17.40	16.80	33.00	37.80	14.80	11.00	10.10	11.60	8.30	8.30 CMS
Runoff	69.96	63.06	69.15	58.61	110.70	152.69	143.35	83.93	45.32	35.88	65.23	28.96	926.83 MCM
Momentary Peak	99.00	CMS.	at 2.24 m. (MSL.)	at 12.00 Hours	, on Feb 19, 2020								
Runoff Yield	14.37	Liters/Second/Square KM.		Momentary Peak Yield	48.41	Liters/Second/Square KM.							





Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	3.20	2.45	1.60	1.30	5.30	4.70	5.90	29.40	4.40	3.05	3.20		
2	4.85	2.75	2.75	1.40	2.45	4.10	4.85	5.00	23.50	4.10	3.05	3.20		
3	3.95	2.90	3.80	1.40	2.30	3.50	4.25	4.85	32.40	4.25	3.05	3.20		
4	3.80	3.50	3.50	1.60	2.00	3.20	3.50	4.85	31.80	4.40	3.05	3.20		
5	3.50	3.35	3.80	1.60	2.90	2.60	4.40	5.00	20.00	4.10	3.05	3.20		
6	3.50	2.90	3.50	1.40	2.60	2.15	4.70	8.60	15.00	4.10	3.05	3.20		
7	3.35	2.90	4.10	1.20	2.15	2.00	5.90	6.50	11.00	4.10	3.05	3.20		
8	3.35	4.55	3.50	1.10	1.80	2.00	4.85	6.50	9.50	4.85	3.05	3.20		
9	3.20	4.10	4.25	1.00	2.15	2.60	5.00	8.00	8.90	4.25	3.05	3.20		
10	3.50	3.35	3.50	1.00	3.50	2.90	5.00	6.35	7.70	4.10	3.05	3.20		
11	3.65	3.50	3.05	1.00	3.50	3.05	5.15	5.60	7.10	4.10	3.05	3.20		
12	2.90	2.75	2.60	1.50	3.35	2.45	5.15	5.15	6.65	4.10	3.05	3.20		
13	2.45	2.00	2.15	2.30	3.05	2.45	4.70	4.85	6.35	4.10	3.05	3.05		
14	2.60	2.30	2.00	1.90	2.45	2.15	4.55	5.00	6.35	4.10	3.05	3.05		
15	2.60	2.60	2.15	1.70	2.00	2.75	5.45	5.60	6.65	4.10	3.05	2.90		
16	2.75	2.45	2.75	1.40	2.00	2.75	5.75	5.15	6.95	4.10	2.75	2.75		
17	3.50	2.75	2.15	1.80	2.00	3.05	6.80	5.00	7.25	4.10	2.45	2.60		
18	3.20	2.15	2.00	3.35	2.00	3.05	9.50	5.15	7.85	4.10	4.70	2.45		
19	3.20	2.30	2.00	3.95	1.90	3.05	16.60	5.15	9.50	4.10	3.50	2.30		
20	3.20	3.50	1.90	3.05	1.70	3.20	18.60	16.20	7.55	4.10	3.20	2.15		
21	3.35	3.50	1.80	2.30	1.70	2.90	17.40	24.00	6.65	4.10	3.20	2.00		
22	3.20	3.35	1.60	2.00	2.30	2.90	9.50	12.20	6.20	4.10	3.20	1.90		
23	3.05	3.35	1.70	2.00	1.90	3.50	8.60	7.70	5.75	3.35	3.20	1.80		
24	3.05	3.20	1.80	1.60	1.90	3.50	7.40	6.50	5.45	3.05	3.20	1.70		
25	3.05	3.05	1.90	1.70	1.90	7.70	6.20	6.05	5.30	3.05	3.20	1.50		
26	2.90	2.60	1.90	1.50	1.90	6.20	5.90	7.10	5.00	3.05	3.20	1.30		
27	2.90	2.15	1.80	1.40	2.60	4.85	5.75	10.10	4.70	3.05	3.20	1.30		
28	2.90	2.15	1.70	1.20	4.85	4.25	5.30	44.00	4.55	3.05	3.20	4.55		
29	3.35	2.15	1.60	1.20	6.05	3.95	4.85	27.00	4.55	3.05	3.20	4.85		
30	3.80	2.45	1.60	1.20	9.20	3.50	4.85	55.20	4.25	3.05		3.20		
31		3.35		1.60	5.75		6.95		4.10	3.05		3.20		
Total	98.40	91.10	75.30	52.95	87.15	101.55	212.10	324.25	317.90	119.60	91.15	86.95	1658.40	CMSDAY
Mean	3.28	2.94	2.51	1.71	2.81	3.38	6.84	10.81	10.25	3.86	3.14	2.80	4.53	CMS
Max	4.85	4.55	4.25	3.95	9.20	7.70	18.60	55.20	32.40	4.85	4.70	4.85	55.20	CMS
Min	2.45	2.00	1.60	1.00	1.30	2.00	3.50	4.85	4.10	3.05	2.45	1.30	1.00	CMS
Runoff	8.50	7.87	6.51	4.57	7.53	8.77	18.33	28.02	27.47	10.33	7.88	7.51	143.29	MCM
Momentary Peak	166.50 CMS. at 33.75 m. (MSL.) at 04.00 Hours , on Nov 30, 2019													
Runoff Yield	54.74 Liters/Second/Square KM. Momentary Peak Yield 2005.78 Liters/Second/Square KM.													



## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon (X.201A)

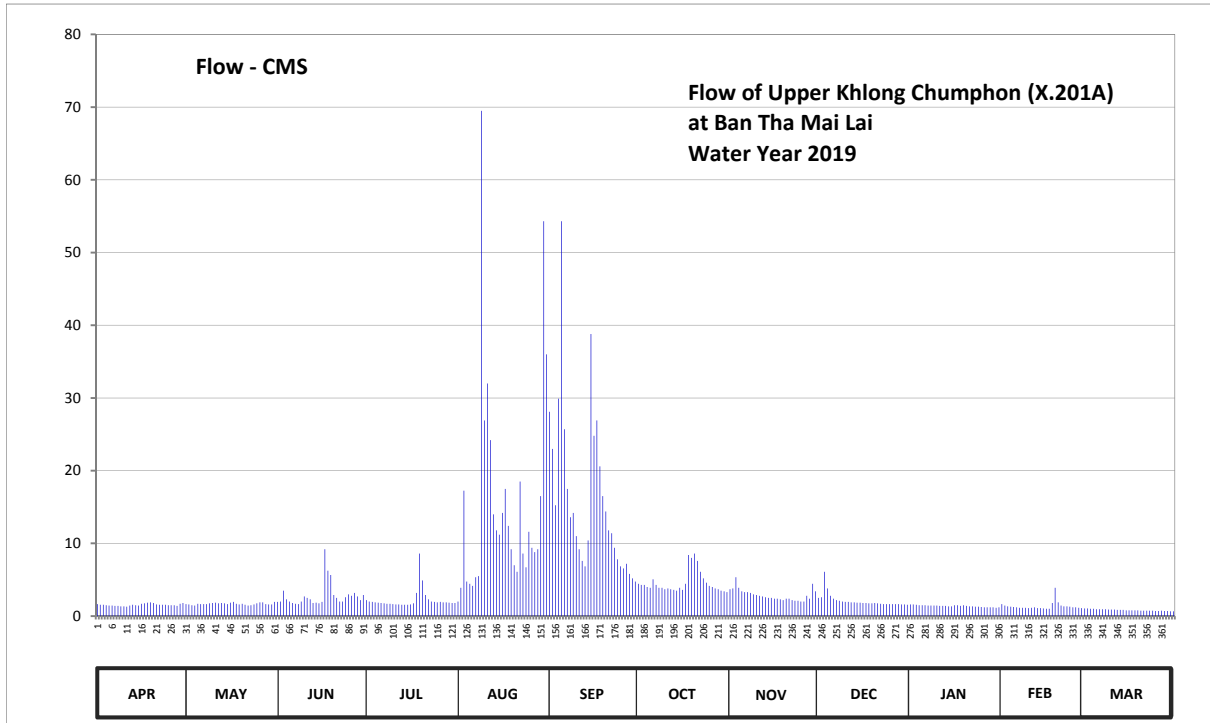
Lat 10 - 30 - 12 N Long 98 - 57 - 52 E

Location : on right bank at the bridge.

	<b>Ban</b> Tha Mai Lai	<b>Amphoe</b> Mueang	<b>Changwat</b> Chumphon
<b>Drainage Area</b>	133 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+36.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+42.715 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 41.000 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.33	37.33	37.39	37.42	37.40	38.67	37.63	37.57	37.45	37.32	37.33	37.21	
2	37.31	37.32	37.40	37.40	37.59	38.50	37.62	37.58	37.46	37.32	37.29	37.21	
3	37.31	37.30	37.55	37.39	38.29	38.21	37.62	37.69	37.74	37.31	37.27	37.20	
4	37.30	37.29	37.43	37.38	37.65	38.73	37.60	37.59	37.58	37.30	37.26	37.20	
5	37.29	37.34	37.40	37.37	37.63	39.34	37.59	37.54	37.48	37.30	37.25	37.19	
6	37.29	37.33	37.36	37.36	37.61	38.59	37.67	37.53	37.44	37.30	37.24	37.19	
7	37.28	37.33	37.34	37.35	37.69	38.30	37.62	37.53	37.42	37.29	37.23	37.19	
8	37.28	37.33	37.33	37.34	37.70	38.13	37.59	37.52	37.41	37.29	37.23	37.19	
9	37.27	37.35	37.40	37.34	39.65	38.16	37.59	37.50	37.40	37.29	37.23	37.18	
10	37.27	37.36	37.47	37.33	38.63	38.00	37.57	37.49	37.39	37.29	37.22	37.18	
11	37.26	37.37	37.45	37.32	38.80	37.91	37.58	37.48	37.39	37.28	37.23	37.18	
12	37.29	37.35	37.43	37.32	38.54	37.83	37.57	37.47	37.38	37.28	37.24	37.17	
13	37.31	37.36	37.36	37.31	38.15	37.79	37.56	37.46	37.38	37.28	37.22	37.17	
14	37.30	37.35	37.37	37.31	38.04	37.97	37.55	37.45	37.37	37.27	37.22	37.17	
15	37.29	37.33	37.35	37.31	38.01	38.97	37.59	37.45	37.37	37.27	37.21	37.16	
16	37.34	37.37	37.39	37.32	38.16	38.56	37.56	37.44	37.36	37.30	37.20	37.16	
17	37.35	37.39	37.91	37.35	38.30	38.63	37.63	37.44	37.36	37.30	37.20	37.16	
18	37.37	37.34	37.75	37.52	38.07	38.42	37.87	37.43	37.35	37.28	37.36	37.16	
19	37.38	37.32	37.71	37.88	37.91	38.26	37.85	37.42	37.35	37.30	37.59	37.16	
20	37.36	37.34	37.49	37.66	37.80	38.17	37.88	37.44	37.36	37.28	37.38	37.15	
21	37.32	37.31	37.45	37.49	37.74	38.04	37.83	37.44	37.35	37.27	37.29	37.15	
22	37.31	37.29	37.40	37.43	38.34	38.02	37.74	37.42	37.34	37.27	37.27	37.15	
23	37.31	37.30	37.40	37.40	37.88	37.92	37.68	37.41	37.33	37.26	37.27	37.15	
24	37.31	37.32	37.46	37.39	37.78	37.84	37.64	37.41	37.33	37.26	37.26	37.15	
25	37.30	37.35	37.50	37.38	38.03	37.79	37.61	37.40	37.33	37.25	37.24	37.14	
26	37.30	37.38	37.48	37.39	37.92	37.77	37.60	37.40	37.33	37.24	37.24	37.14	
27	37.30	37.38	37.52	37.38	37.89	37.81	37.58	37.48	37.33	37.24	37.23	37.15	
28	37.28	37.33	37.47	37.38	37.91	37.72	37.57	37.44	37.33	37.24	37.22	37.14	
29	37.34	37.32	37.42	37.37	38.26	37.68	37.55	37.63	37.32	37.24	37.22	37.14	
30	37.36	37.32	37.49	37.36	39.34	37.65	37.54	37.54	37.32	37.23	37.23	37.13	
31		37.39		37.36	38.90		37.53		37.31	37.24		37.13	
Mean	37.31	37.34	37.46	37.40	38.12	38.18	37.63	37.49	37.39	37.28	37.26	37.17	
Max	37.38	37.39	37.91	37.88	39.65	39.34	37.88	37.69	37.74	37.32	37.59	37.21	39.65
Min	37.26	37.29	37.33	37.31	37.40	37.65	37.53	37.40	37.31	37.23	37.20	37.13	37.13
Annual Max Momentary Gage Height	41.68		m. (MSL.) ,				at 15.00 Hours ,						on Aug 30, 2019
Zero Gage at Bottom Elevation	36.00		m. (MSL.) ,				River Bed	36.02		m. (MSL.)			
Left Bank Elevation		41.02		m. (MSL.) ,									
Right Bank Elevation		40.99		m. (MSL.) ,			Drainage Are	133		Square Kilometers			



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.65	1.65	1.95	2.20	2.00	28.10	4.45	3.70	2.50	1.60	1.65	1.05	
2	1.55	1.60	2.00	2.00	3.90	23.00	4.30	3.80	2.60	1.60	1.45	1.05	
3	1.55	1.50	3.50	1.95	17.25	15.25	4.30	5.35	6.10	1.55	1.35	1.00	
4	1.50	1.45	2.30	1.90	4.75	29.90	4.00	3.90	3.80	1.50	1.30	1.00	
5	1.45	1.70	2.00	1.85	4.45	54.30	3.90	3.40	2.80	1.50	1.25	0.95	
6	1.45	1.65	1.80	1.80	4.15	25.70	5.05	3.30	2.40	1.50	1.20	0.95	
7	1.40	1.65	1.70	1.75	5.35	17.50	4.30	3.30	2.20	1.45	1.15	0.95	
8	1.40	1.65	1.65	1.70	5.50	13.60	3.90	3.20	2.10	1.45	1.15	0.95	
9	1.35	1.75	2.00	1.70	69.50	14.20	3.90	3.00	2.00	1.45	1.15	0.90	
10	1.35	1.80	2.70	1.65	26.90	11.00	3.70	2.90	1.95	1.45	1.10	0.90	
11	1.30	1.85	2.50	1.60	32.00	9.20	3.80	2.80	1.95	1.40	1.15	0.90	
12	1.45	1.75	2.30	1.60	24.20	7.60	3.70	2.70	1.90	1.40	1.20	0.85	
13	1.55	1.80	1.80	1.55	14.00	6.85	3.60	2.60	1.90	1.40	1.10	0.85	
14	1.50	1.75	1.85	1.55	11.80	10.40	3.50	2.50	1.85	1.35	1.10	0.85	
15	1.45	1.65	1.75	1.55	11.20	38.80	3.90	2.50	1.85	1.35	1.05	0.80	
16	1.70	1.85	1.95	1.60	14.20	24.80	3.60	2.40	1.80	1.50	1.00	0.80	
17	1.75	1.95	9.20	1.75	17.50	26.90	4.45	2.40	1.80	1.50	1.00	0.80	
18	1.85	1.70	6.25	3.20	12.40	20.60	8.40	2.30	1.75	1.40	1.80	0.80	
19	1.90	1.60	5.65	8.60	9.20	16.50	8.00	2.20	1.75	1.50	3.90	0.80	
20	1.80	1.70	2.90	4.90	7.00	14.40	8.60	2.40	1.80	1.40	1.90	0.75	
21	1.60	1.55	2.50	2.90	6.10	11.80	7.60	2.40	1.75	1.35	1.45	0.75	
22	1.55	1.45	2.00	2.30	18.50	11.40	6.10	2.20	1.70	1.35	1.35	0.75	
23	1.55	1.50	2.00	2.00	8.60	9.40	5.20	2.10	1.65	1.30	1.35	0.75	
24	1.55	1.60	2.60	1.95	6.70	7.80	4.60	2.10	1.65	1.30	1.30	0.75	
25	1.50	1.75	3.00	1.90	11.60	6.85	4.15	2.00	1.65	1.25	1.20	0.70	
26	1.50	1.90	2.80	1.95	9.40	6.55	4.00	2.00	1.65	1.20	1.20	0.70	
27	1.50	1.90	3.20	1.90	8.80	7.20	3.80	2.80	1.65	1.20	1.15	0.75	
28	1.40	1.65	2.70	1.90	9.20	5.80	3.70	2.40	1.65	1.20	1.10	0.70	
29	1.70	1.60	2.20	1.85	16.50	5.20	3.50	4.45	1.60	1.20	1.10	0.70	
30	1.80	1.60	2.90	1.80	54.30	4.75	3.40	3.40	1.60	1.15		0.65	
31		1.95		1.80	36.00		3.30		1.55	1.20		0.65	
<b>Total</b>	46.55	52.45	83.65	68.65	482.95	485.35	142.70	86.50	64.90	42.95	39.15	25.75	1621.55 CMSDAY
<b>Mean</b>	1.55	1.69	2.79	2.21	15.58	16.18	4.60	2.88	2.09	1.39	1.35	0.83	4.43 CMS
<b>Max</b>	1.90	1.95	9.20	8.60	69.50	54.30	8.60	5.35	6.10	1.60	3.90	1.05	69.50 CMS
<b>Min</b>	1.30	1.45	1.65	1.55	2.00	4.75	3.30	2.00	1.55	1.15	1.00	0.65	0.65 CMS
<b>Runoff</b>	4.02	4.53	7.23	5.93	41.73	41.93	12.33	7.47	5.61	3.71	3.38	2.22	140.10 MCM
<b>Momentary Peak</b>	224.00 CMS. at 41.68 m. (MSL.) at 15.00 Hours , on Aug 30, 2019												
<b>Runoff Yield</b>	33.48 Liters/Second/Square KM. Momentary Peak Yield 1687.89 Liters/Second/Square KM.												

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Khlong Thadee at Ban Na Pa , Nakhon Si Thammarat (X.203)

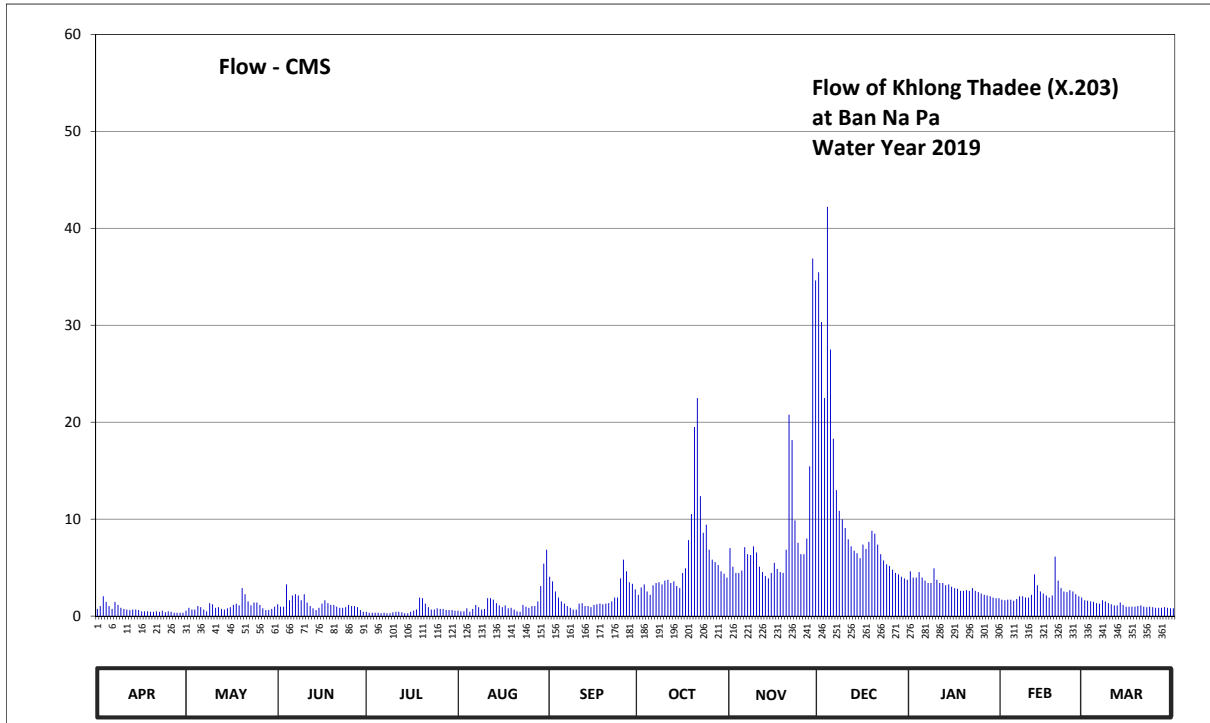
Lat 08 - 23 - 39 N Long 99 - 54 - 55 E

Location : on left bank at Ban Na Pa.

	Ban Na Pa	Amphoe Mueang	Changwat Nakhon Si Thammarat
<b>Drainage Area</b>	120 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the gage site.	<b>Elevation</b>	+11.529 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2000 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2000 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2000 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.94	7.91	8.02	7.89	7.91	8.42	8.17	8.78	10.41	8.49	8.10	8.09	
2	7.99	7.96	7.98	7.87	7.90	8.36	8.28	8.55	10.27	8.41	8.09	8.08	
3	8.15	7.93	7.98	7.87	7.90	8.22	8.32	8.47	9.97	8.41	8.10	8.07	
4	8.06	7.93	8.32	7.87	7.95	8.13	8.22	8.47	10.54	8.48	8.10	8.06	
5	7.99	7.99	8.09	7.87	7.89	8.07	8.17	8.50	10.17	8.41	8.08	8.04	
6	7.94	7.97	8.16	7.86	7.94	8.03	8.31	8.79	9.72	8.37	8.11	8.03	
7	8.06	7.93	8.18	7.87	8.01	7.99	8.34	8.71	9.34	8.34	8.15	8.09	
8	8.01	7.90	8.16	7.86	7.97	7.96	8.35	8.70	9.16	8.34	8.15	8.07	
9	7.96	8.04	8.09	7.86	7.93	7.93	8.32	8.80	9.08	8.53	8.13	8.04	
10	7.94	8.02	8.18	7.88	7.94	7.93	8.37	8.73	9.00	8.38	8.13	8.02	
11	7.93	7.96	8.05	7.89	8.12	8.03	8.38	8.55	8.88	8.34	8.17	8.00	
12	7.92	7.97	7.99	7.89	8.12	8.04	8.34	8.48	8.80	8.34	8.45	8.00	
13	7.93	7.94	7.95	7.88	8.10	7.99	8.36	8.43	8.75	8.31	8.31	8.05	
14	7.93	7.93	7.92	7.86	8.04	7.99	8.30	8.40	8.72	8.32	8.22	8.01	
15	7.92	7.95	7.96	7.86	8.00	7.97	8.27	8.47	8.66	8.29	8.19	7.98	
16	7.90	7.97	8.03	7.89	7.97	8.01	8.47	8.60	8.82	8.27	8.16	7.98	
17	7.90	8.01	8.09	7.91	8.00	8.02	8.53	8.52	8.77	8.26	8.13	7.98	
18	7.90	8.03	8.04	7.93	7.95	8.03	8.87	8.48	8.85	8.23	8.16	7.98	
19	7.89	8.00	8.01	8.13	7.96	8.02	9.13	8.47	8.97	8.23	8.68	7.99	
20	7.89	8.27	8.01	8.12	7.93	8.03	9.80	8.76	8.94	8.24	8.37	8.00	
21	7.90	8.18	7.98	8.03	7.90	8.04	9.97	9.88	8.82	8.23	8.27	7.98	
22	7.89	8.07	7.96	7.97	7.89	8.07	9.29	9.71	8.71	8.27	8.22	7.97	
23	7.91	8.00	7.96	7.93	8.01	8.13	8.95	9.07	8.63	8.23	8.21	7.98	
24	7.88	8.05	7.97	7.93	7.98	8.13	9.03	8.84	8.58	8.21	8.24	7.97	
25	7.90	8.05	8.01	7.95	7.96	8.40	8.76	8.71	8.56	8.19	8.22	7.96	
26	7.89	8.01	7.99	7.94	7.99	8.64	8.64	8.71	8.51	8.17	8.18	7.96	
27	7.87	7.95	7.99	7.94	7.99	8.49	8.61	8.89	8.47	8.16	8.15	7.96	
28	7.87	7.92	7.97	7.92	8.07	8.35	8.57	9.53	8.45	8.15	8.13	7.97	
29	7.87	7.92	7.92	7.92	8.30	8.33	8.49	10.44	8.42	8.13	8.11	7.96	
30	7.87	7.94	7.89	7.92	8.59	8.25	8.46	10.39	8.40	8.12		7.95	
31		7.98		7.91	8.76		8.41		8.38	8.12		7.95	
Mean	7.93	7.99	8.03	7.92	8.03	8.13	8.60	8.86	9.02	8.29	8.20	8.01	
Max	8.15	8.27	8.32	8.13	8.76	8.64	9.97	10.44	10.54	8.53	8.68	8.09	10.54
Min	7.87	7.90	7.89	7.86	7.89	7.93	8.17	8.40	8.38	8.12	8.08	7.95	7.86
Annual Max Momentary Gage Height	10.66		m. (MSL.) ,				at 03.00 Hours ,						on Dec 4, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.23	m. (MSL.)					
Left Bank Elevation	11.23		m. (MSL.) ,										
Right Bank Elevation	10.80		m. (MSL.) ,			Drainage Are	120	Square Kilometers					

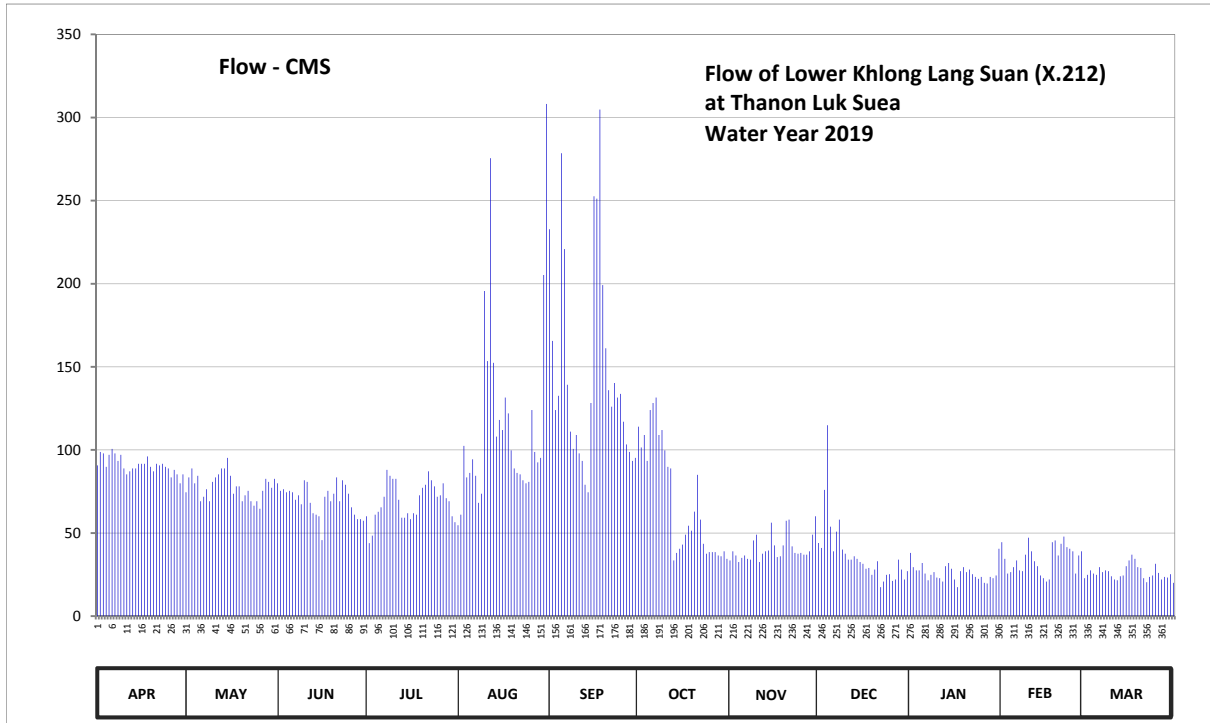


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.56	1.22	0.45	0.56	4.06	2.19	7.02	35.47	4.62	1.70	1.64	
2	1.04	0.86	0.98	0.35	0.50	3.58	2.96	5.10	30.33	3.98	1.64	1.58	
3	2.05	0.68	0.98	0.35	0.50	2.54	3.26	4.46	22.50	3.98	1.70	1.52	
4	1.46	0.68	3.26	0.35	0.80	1.91	2.54	4.46	42.22	4.54	1.70	1.46	
5	1.04	1.04	1.64	0.35	0.45	1.52	2.19	4.70	27.49	3.98	1.58	1.34	
6	0.74	0.92	2.12	0.30	0.74	1.28	3.18	7.11	18.30	3.66	1.77	1.28	
7	1.46	0.68	2.26	0.35	1.16	1.04	3.42	6.39	12.98	3.42	2.05	1.64	
8	1.16	0.50	2.12	0.30	0.92	0.86	3.50	6.30	10.86	3.42	2.05	1.52	
9	0.86	1.34	1.64	0.30	0.68	0.68	3.26	7.20	9.98	4.94	1.91	1.34	
10	0.74	1.22	2.26	0.40	0.74	0.68	3.66	6.57	9.10	3.74	1.91	1.22	
11	0.68	0.86	1.40	0.45	1.84	1.28	3.74	5.10	7.92	3.42	2.19	1.10	
12	0.62	0.92	1.04	0.45	1.84	1.34	3.42	4.54	7.20	3.42	4.30	1.10	
13	0.68	0.74	0.80	0.40	1.70	1.04	3.58	4.14	6.75	3.18	3.18	1.40	
14	0.68	0.68	0.62	0.30	1.34	1.04	3.10	3.90	6.48	3.26	2.54	1.16	
15	0.62	0.80	0.86	0.30	1.10	0.92	2.89	4.46	5.98	3.03	2.33	0.98	
16	0.50	0.92	1.28	0.45	0.92	1.16	4.46	5.50	7.38	2.89	2.12	0.98	
17	0.50	1.16	1.64	0.56	1.10	1.22	4.94	4.86	6.93	2.82	1.91	0.98	
18	0.50	1.28	1.34	0.68	0.80	1.28	7.83	4.54	7.65	2.61	2.12	0.98	
19	0.45	1.10	1.16	1.91	0.86	1.22	10.53	4.46	8.80	2.61	6.14	1.04	
20	0.45	2.89	1.16	1.84	0.68	1.28	19.50	6.84	8.50	2.68	3.66	1.10	
21	0.50	2.26	0.98	1.28	0.50	1.34	22.50	20.78	7.38	2.61	2.89	0.98	
22	0.45	1.52	0.86	0.92	0.45	1.52	12.38	18.15	6.39	2.89	2.54	0.92	
23	0.56	1.10	0.86	0.68	1.16	1.91	8.60	9.87	5.74	2.61	2.47	0.98	
24	0.40	1.40	0.92	0.68	0.98	1.91	9.43	7.56	5.34	2.47	2.68	0.92	
25	0.50	1.40	1.16	0.80	0.86	3.90	6.84	6.39	5.18	2.33	2.54	0.86	
26	0.45	1.16	1.04	0.74	1.04	5.82	5.82	6.39	4.78	2.19	2.26	0.86	
27	0.35	0.80	1.04	0.74	1.04	4.62	5.58	8.01	4.46	2.12	2.05	0.86	
28	0.35	0.62	0.92	0.62	1.52	3.50	5.26	15.45	4.30	2.05	1.91	0.92	
29	0.35	0.62	0.62	0.62	3.10	3.34	4.62	36.88	4.06	1.91	1.77	0.86	
30	0.35	0.74	0.45	0.62	5.42	2.75	4.38	34.62	3.90	1.84		0.80	
31		0.98		0.56	6.84		3.98		3.74	1.84		0.80	
Total	21.23	32.43	38.63	19.10	42.14	60.54	183.54	271.75	348.09	95.06	69.61	35.12	1217.24 CMSDAY
Mean	0.71	1.05	1.29	0.62	1.36	2.02	5.92	9.06	11.23	3.07	2.40	1.13	3.33 CMS
Max	2.05	2.89	3.26	1.91	6.84	5.82	22.50	36.88	42.22	4.94	6.14	1.64	42.22 CMS
Min	0.35	0.50	0.45	0.30	0.45	0.68	2.19	3.90	3.74	1.84	1.58	0.80	0.30 CMS
Runoff	1.83	2.80	3.34	1.65	3.64	5.23	15.86	23.48	30.07	8.21	6.01	3.03	105.17 MCM
Momentary Peak	51.10	CMS.	at 10.66 m. (MSL.)	at 03.00 Hours	on Dec 4, 2019								
Runoff Yield	27.78	Liters/Second/Square KM.		Momentary Peak Yield	425.66	Liters/Second/Square KM.							





Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.70	74.50	79.90	60.10	54.70	232.80	114.00	33.50	44.00	38.00	44.50	22.80	
2	98.80	83.50	75.40	43.90	61.00	165.60	101.50	39.00	41.00	29.50	34.50	24.80	
3	97.90	88.90	76.30	48.40	102.40	124.00	109.00	36.50	76.00	27.50	25.60	27.50	
4	89.80	79.90	74.50	61.00	83.50	132.60	93.40	32.50	114.80	27.50	26.50	25.60	
5	97.00	84.40	75.40	62.80	86.20	278.50	124.00	35.00	53.80	32.00	29.50	24.80	
6	100.60	69.10	74.50	65.50	94.30	220.80	128.20	36.50	39.00	25.60	33.50	29.50	
7	97.90	71.80	70.00	71.80	84.40	139.20	131.50	34.50	50.80	21.60	27.50	26.50	
8	93.40	76.30	72.70	88.00	68.20	111.00	109.00	34.00	58.00	24.80	27.00	27.50	
9	97.00	69.10	67.30	84.40	73.60	100.60	112.00	45.50	40.00	26.50	37.00	27.00	
10	88.90	80.80	81.70	82.60	195.60	109.00	99.70	49.00	37.50	23.20	47.20	24.00	
11	85.30	83.50	80.80	82.60	153.50	97.90	89.80	32.50	34.00	22.80	39.00	22.00	
12	87.10	85.30	68.20	70.00	275.50	93.40	88.90	37.50	34.00	20.80	33.00	21.60	
13	88.90	88.90	61.90	59.20	152.40	79.00	33.50	39.00	36.00	30.00	30.00	24.00	
14	88.90	88.90	61.00	59.20	108.00	74.50	38.00	39.50	34.50	32.00	24.40	24.40	
15	91.60	95.20	60.10	61.90	118.00	128.20	40.50	56.20	32.50	28.50	22.80	30.00	
16	91.60	84.40	45.70	58.30	112.00	252.60	43.00	42.50	31.50	22.00	20.80	33.50	
17	91.60	73.60	71.80	61.90	131.50	251.20	49.00	35.50	28.50	17.40	22.00	37.00	
18	96.10	78.10	75.40	61.00	122.00	304.80	54.40	36.00	29.00	27.00	44.50	34.50	
19	89.80	78.10	69.10	72.70	99.70	199.20	51.40	42.50	24.80	29.50	45.50	29.50	
20	87.10	69.10	73.60	77.20	88.90	161.20	62.90	57.40	28.00	26.50	36.50	29.00	
21	91.60	72.70	83.50	79.00	86.20	135.90	85.00	58.00	33.00	28.00	43.50	22.80	
22	90.70	75.40	69.10	87.10	85.30	126.00	58.00	42.00	17.40	25.20	47.80	20.40	
23	91.60	69.10	81.70	81.70	81.70	140.30	43.50	38.00	20.80	23.60	41.50	23.60	
24	89.80	66.40	79.00	78.10	79.90	131.50	37.50	37.50	24.80	22.40	40.50	24.40	
25	88.90	69.10	73.60	71.80	80.80	133.70	38.50	38.00	25.20	23.60	39.00	31.50	
26	83.50	64.60	65.50	72.70	124.00	117.00	38.50	37.00	21.20	20.00	25.60	26.00	
27	88.00	75.40	61.00	79.90	98.80	103.30	38.50	37.00	22.00	19.60	36.50	22.00	
28	85.30	82.60	58.30	70.90	92.50	98.80	36.50	39.00	34.00	23.60	39.00	23.60	
29	79.90	80.80	58.30	69.10	95.20	93.40	36.00	49.00	28.00	22.80	25.60	23.20	
30	85.30	77.20	57.40	60.10	205.20	95.20	39.00	60.10	22.00	24.40		25.20	
31		82.60		56.50	308.20		34.50		27.00	40.50		20.00	
Total	2724.60	2419.30	2102.70	2139.40	3603.20	4431.20	2159.20	1230.20	1143.10	806.40	990.30	808.20	24557.80 CMSDAY
Mean	90.82	78.04	70.09	69.01	116.23	147.71	69.65	41.01	36.87	26.01	34.15	26.07	67.10 CMS
Max	100.60	95.20	83.50	88.00	308.20	304.80	131.50	60.10	114.80	40.50	47.80	37.00	308.20 CMS
Min	79.90	64.60	45.70	43.90	54.70	74.50	33.50	32.50	17.40	17.40	20.80	20.00	17.40 CMS
Runoff	235.41	209.03	181.67	184.84	311.32	382.86	186.55	106.29	98.76	69.67	85.56	69.83	2121.79 MCM
Momentary Peak		381.30	CMS. at 2.49 m. (MSL.) at 22.00 Hours , on Sep 5, 2019										
Runoff Yield		47.87	Liters/Second/Square KM.		Momentary Peak Yield		271.28	Liters/Second/Square KM.					

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)

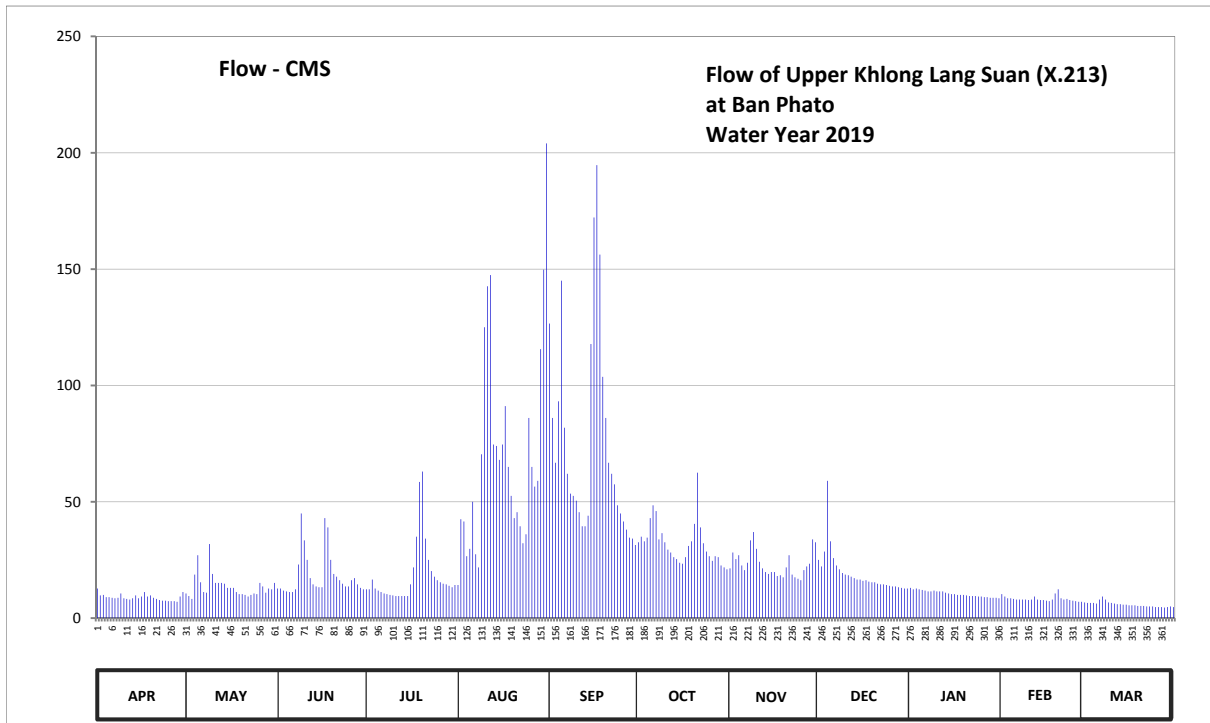
Lat 09 - 46 - 55 N Long 98 - 46 - 55 E

Location : on left bank at the bridge.

	<b>Ban Phato</b>	<b>Amphoe Phato</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	714 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+40.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the top staff gage.	<b>Elevation</b>	53.360 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.59	42.52	42.59	42.58	42.64	44.72	43.14	42.86	42.95	42.60	42.51	42.37	
2	42.49	42.48	42.59	42.58	43.35	44.15	43.20	43.03	42.88	42.58	42.47	42.36	
3	42.50	42.43	42.56	42.72	43.33	43.83	43.15	42.96	43.04	42.59	42.44	42.36	
4	42.46	42.79	42.55	42.59	42.99	44.26	43.19	43.00	43.68	42.58	42.44	42.36	
5	42.46	43.00	42.54	42.56	43.07	44.95	43.36	42.89	43.15	42.57	42.43	42.35	
6	42.45	42.68	42.54	42.54	43.50	44.08	43.47	42.84	42.97	42.56	42.42	42.42	
7	42.44	42.54	42.58	42.52	43.01	43.74	43.42	42.92	42.89	42.55	42.42	42.47	
8	42.45	42.53	42.90	42.51	42.87	43.57	43.17	43.16	42.85	42.55	42.42	42.42	
9	42.52	43.12	43.40	42.50	43.89	43.55	43.23	43.24	42.81	42.56	42.42	42.37	
10	42.44	42.80	43.16	42.49	44.70	43.51	43.14	43.07	42.79	42.55	42.41	42.36	
11	42.43	42.67	42.95	42.48	44.92	43.41	43.06	42.93	42.78	42.55	42.42	42.35	
12	42.42	42.67	42.74	42.48	44.98	43.29	43.03	42.86	42.76	42.55	42.47	42.34	
13	42.44	42.67	42.65	42.48	43.96	43.29	42.98	42.82	42.74	42.53	42.42	42.34	
14	42.49	42.66	42.62	42.48	43.95	43.38	42.96	42.80	42.72	42.52	42.41	42.33	
15	42.44	42.60	42.61	42.48	43.85	44.61	42.92	42.82	42.72	42.51	42.41	42.33	
16	42.47	42.60	42.61	42.65	43.96	45.28	42.91	42.82	42.70	42.51	42.40	42.32	
17	42.54	42.60	43.36	42.87	44.23	45.53	42.98	42.77	42.71	42.50	42.39	42.32	
18	42.47	42.54	43.28	43.20	43.80	45.09	43.10	42.78	42.69	42.50	42.42	42.32	
19	42.49	42.51	42.95	43.67	43.55	44.41	43.15	42.75	42.68	42.50	42.52	42.31	
20	42.45	42.51	42.80	43.76	43.36	44.15	43.31	42.87	42.68	42.49	42.58	42.31	
21	42.43	42.50	42.76	43.18	43.41	43.83	43.75	43.00	42.66	42.48	42.44	42.31	
22	42.41	42.47	42.71	42.95	43.29	43.74	43.28	42.79	42.65	42.48	42.42	42.30	
23	42.40	42.50	42.66	42.83	43.13	43.65	43.13	42.75	42.65	42.48	42.43	42.30	
24	42.40	42.52	42.62	42.76	43.22	43.47	43.04	42.73	42.64	42.47	42.41	42.30	
25	42.39	42.51	42.62	42.71	44.15	43.40	42.99	42.71	42.63	42.47	42.40	42.29	
26	42.39	42.67	42.71	42.68	43.80	43.33	42.94	42.84	42.62	42.46	42.39	42.29	
27	42.39	42.62	42.74	42.66	43.63	43.26	42.99	42.88	42.62	42.46	42.38	42.29	
28	42.38	42.53	42.65	42.65	43.68	43.19	42.98	42.91	42.61	42.45	42.38	42.28	
29	42.47	42.59	42.60	42.63	44.58	43.18	42.89	43.17	42.60	42.45	42.37	42.29	
30	42.54	42.58	42.58	42.61	45.01	43.11	42.87	43.14	42.59	42.45	42.45	42.30	
31		42.67		42.64	45.63		42.85		42.59	42.44		42.29	
Mean	42.45	42.62	42.75	42.72	43.79	43.90	43.12	42.90	42.78	42.51	42.43	42.33	
Max	42.59	43.12	43.40	43.76	45.63	45.53	43.75	43.24	43.68	42.60	42.58	42.47	45.63
Min	42.38	42.43	42.54	42.48	42.64	43.11	42.85	42.71	42.59	42.44	42.37	42.28	42.28
Annual Max Momentary Gage Height	46.56		m. (MSL.) ,				at 15.00 Hours ,						
Zero Gage at Bottom Elevation	40.00		m. (MSL.) ,			River Bed	38.78	m. (MSL.)					
Left Bank Elevation		49.97		m. (MSL.) ,									
Right Bank Elevation		48.00		m. (MSL.) ,		Drainage Are	714	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.70	10.60	12.70	12.40	14.20	126.60	32.60	21.40	25.00	13.00	10.30	6.75		
2	9.75	9.50	12.70	12.40	42.50	86.00	35.00	28.20	22.20	12.40	9.25	6.50		
3	10.00	8.25	11.80	16.60	41.50	66.80	33.00	25.40	28.60	12.70	8.50	6.50		
4	9.00	18.70	11.50	12.70	26.60	93.20	34.60	27.00	59.00	12.40	8.50	6.50		
5	9.00	27.00	11.20	11.80	29.80	145.00	43.00	22.60	33.00	12.10	8.25	6.25		
6	8.75	15.40	11.20	11.20	50.00	81.80	48.50	20.60	25.80	11.80	8.00	8.00		
7	8.50	11.20	12.40	10.60	27.40	62.00	46.00	23.80	22.60	11.50	8.00	9.25		
8	8.75	10.90	23.00	10.30	21.80	53.50	33.80	33.40	21.00	11.50	8.00	8.00		
9	10.60	31.80	45.00	10.00	70.40	52.50	36.50	37.00	19.40	11.80	8.00	6.75		
10	8.50	19.00	33.40	9.75	125.00	50.50	32.60	29.80	18.70	11.50	7.75	6.50		
11	8.25	15.10	25.00	9.50	142.60	45.50	29.40	24.20	18.40	11.50	8.00	6.25		
12	8.00	15.10	17.20	9.50	147.40	39.50	28.20	21.40	17.80	11.50	9.25	6.00		
13	8.50	15.10	14.50	9.50	74.60	39.50	26.20	19.80	17.20	10.90	8.00	6.00		
14	9.75	14.80	13.60	9.50	74.00	44.00	25.40	19.00	16.60	10.60	7.75	5.75		
15	8.50	13.00	13.30	9.50	68.00	117.80	23.80	19.80	16.60	10.30	7.75	5.75		
16	9.25	13.00	13.30	14.50	74.60	172.20	23.40	19.80	16.00	10.30	7.50	5.50		
17	11.20	13.00	43.00	21.80	91.10	194.70	26.20	18.10	16.30	10.00	7.25	5.50		
18	9.25	11.20	39.00	35.00	65.00	156.20	31.00	18.40	15.70	10.00	8.00	5.50		
19	9.75	10.30	25.00	58.50	52.50	103.70	33.00	17.50	15.40	10.00	10.60	5.25		
20	8.75	10.30	19.00	63.00	43.00	86.00	40.50	21.80	15.40	9.75	12.40	5.25		
21	8.25	10.00	17.80	34.20	45.50	66.80	62.50	27.00	14.80	9.50	8.50	5.25		
22	7.75	9.25	16.30	25.00	39.50	62.00	39.00	18.70	14.50	9.50	8.00	5.00		
23	7.50	10.00	14.80	20.20	32.20	57.50	32.20	17.50	14.50	9.50	8.25	5.00		
24	7.50	10.60	13.60	17.80	36.00	48.50	28.60	16.90	14.20	9.25	7.75	5.00		
25	7.25	10.30	13.60	16.30	86.00	45.00	26.60	16.30	13.90	9.25	7.50	4.75		
26	7.25	15.10	16.30	15.40	65.00	41.50	24.60	20.60	13.60	9.00	7.25	4.75		
27	7.25	13.60	17.20	14.80	56.50	38.00	26.60	22.20	13.60	9.00	7.00	4.75		
28	7.00	10.90	14.50	14.50	59.00	34.60	26.20	23.40	13.30	8.75	7.00	4.50		
29	9.25	12.70	13.00	13.90	115.60	34.20	22.60	33.80	13.00	8.75	6.75	4.75		
30	11.20	12.40	12.40	13.30	149.80	31.40	21.80	32.60	12.70	8.75		5.00		
31		15.10		14.20	204.00		21.00		12.70	8.50		4.75		
<b>Total</b>	266.95	423.20	557.30	557.65	2171.10	2276.50	994.40	698.00	591.50	325.30	239.05	181.25	9282.20	CMSDAY
<b>Mean</b>	8.90	13.65	18.58	17.99	70.04	75.88	32.08	23.27	19.08	10.49	8.24	5.85	25.36	CMS
<b>Max</b>	12.70	31.80	45.00	63.00	204.00	194.70	62.50	37.00	59.00	13.00	12.40	9.25	204.00	CMS
<b>Min</b>	7.00	8.25	11.20	9.50	14.20	31.40	21.00	16.30	12.70	8.50	6.75	4.50	4.50	CMS
<b>Runoff</b>	23.06	36.56	48.15	48.18	187.58	196.69	85.92	60.31	51.11	28.11	20.65	15.66	801.98	MCM
<b>Momentary Peak</b>	308.20 CMS. at 46.56 m. (MSL.) at 15.00 Hours , on Sep 17 , 2019													
<b>Runoff Yield</b>	35.61 Liters/Second/Square KM.			Momentary Peak Yield			431.51 Liters/Second/Square KM.							



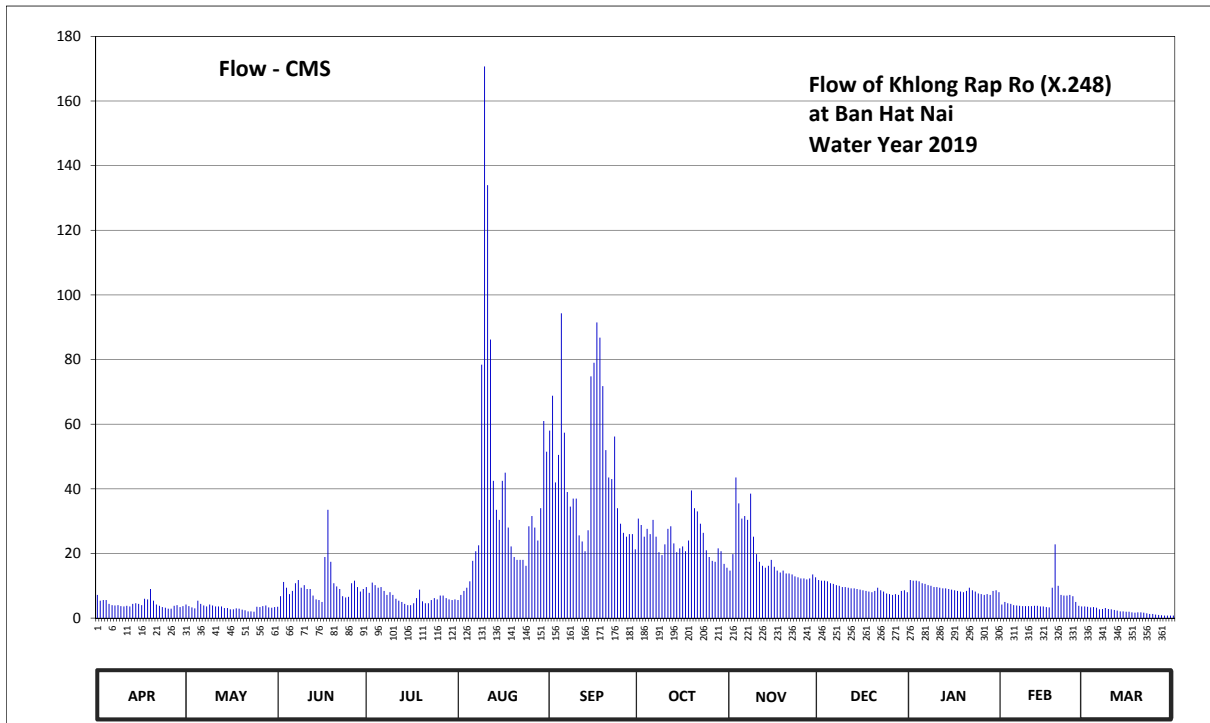
**WATER YEAR : 2019**  
**SOUTHERN PENINSULA EAST COAST**  
**Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)**  
 Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	<b>Ban Hat Nai</b>	<b>Amphoe Tha Sae</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	691 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	+31.337 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.36	18.21	18.15	18.48	18.28	19.70	19.17	18.69	18.59	18.59	18.21	18.16	
2	18.27	18.17	18.34	18.39	18.36	19.88	19.12	18.86	18.58	18.58	18.25	18.15	
3	18.28	18.13	18.56	18.55	18.42	19.40	19.03	19.43	18.58	18.58	18.23	18.13	
4	18.28	18.10	18.47	18.51	18.47	19.57	19.09	19.27	18.57	18.57	18.22	18.14	
5	18.22	18.27	18.37	18.47	18.57	20.29	19.05	19.17	18.54	18.54	18.20	18.12	
6	18.20	18.22	18.42	18.48	18.79	19.69	19.16	19.19	18.53	18.53	18.19	18.07	
7	18.19	18.19	18.54	18.42	18.89	19.34	19.03	19.16	18.51	18.51	18.18	18.08	
8	18.20	18.16	18.59	18.36	18.95	19.25	18.88	19.33	18.50	18.50	18.17	18.11	
9	18.17	18.21	18.47	18.40	20.04	19.30	18.85	19.03	18.48	18.48	18.17	18.08	
10	18.16	18.19	18.51	18.36	21.23	19.30	18.96	18.86	18.48	18.48	18.17	18.07	
11	18.18	18.16	18.45	18.30	20.80	19.04	19.09	18.78	18.47	18.47	18.17	18.05	
12	18.16	18.16	18.45	18.27	20.17	18.99	19.11	18.74	18.46	18.46	18.18	18.03	
13	18.22	18.16	18.35	18.25	19.41	18.89	18.97	18.72	18.46	18.46	18.18	18.01	
14	18.23	18.11	18.29	18.22	19.23	19.08	18.88	18.74	18.45	18.45	18.16	18.01	
15	18.22	18.11	18.28	18.20	19.16	19.98	18.92	18.80	18.44	18.44	18.16	18.00	
16	18.20	18.07	18.25	18.20	19.41	20.05	18.94	18.73	18.43	18.43	18.14	18.00	
17	18.30	18.07	18.83	18.23	19.46	20.25	18.89	18.69	18.42	18.42	18.13	17.98	
18	18.29	18.10	19.23	18.31	19.10	20.18	19.00	18.67	18.41	18.41	18.47	17.97	
19	18.45	18.09	18.78	18.44	18.94	19.93	19.35	18.69	18.40	18.40	18.96	17.98	
20	18.27	18.06	18.54	18.26	18.83	19.60	19.24	18.66	18.42	18.42	18.50	17.98	
21	18.21	18.04	18.49	18.23	18.80	19.43	19.22	18.66	18.47	18.47	18.36	17.97	
22	18.18	18.01	18.45	18.23	18.80	19.42	19.13	18.65	18.43	18.43	18.35	17.95	
23	18.14	18.01	18.34	18.28	18.80	19.67	19.06	18.63	18.41	18.41	18.35	17.93	
24	18.12	18.00	18.32	18.31	18.74	19.24	18.90	18.62	18.38	18.38	18.36	17.93	
25	18.09	18.15	18.33	18.29	19.11	19.13	18.83	18.61	18.37	18.37	18.34	17.91	
26	18.09	18.14	18.54	18.35	19.19	19.06	18.79	18.61	18.36	18.36	18.25	17.90	
27	18.18	18.17	18.58	18.35	19.10	19.03	18.78	18.60	18.37	18.37	18.18	17.89	
28	18.20	18.19	18.48	18.31	19.00	19.05	18.92	18.61	18.36	18.36	18.16	17.88	
29	18.14	18.13	18.41	18.29	19.24	19.05	18.89	18.65	18.42	18.42	18.16	17.88	
30	18.17	18.12	18.45	18.28	19.75	18.91	18.76	18.62	18.43	18.43	18.43	17.88	
31		18.14		18.29	19.59		18.72		18.40	18.40		17.88	
Mean	18.21	18.13	18.48	18.33	19.18	19.46	18.99	18.82	18.46	18.46	18.26	18.00	
Max	18.45	18.27	19.23	18.55	21.23	20.29	19.35	19.43	18.59	18.59	18.96	18.16	21.23
Min	18.09	18.00	18.15	18.20	18.28	18.89	18.72	18.60	18.36	18.36	18.13	17.88	
Annual Max Momentary Gage Height	22.35		m. (MSL.) ,			at 24.00 Hours ,	on Aug 9, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	17.08	m. (MSL.)					
Left Bank Elevation		27.09		m. (MSL.) ,									
Right Bank Elevation		23.89		m. (MSL.) ,		Drainage Are	691	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.20	4.20	3.50	9.60	5.60	58.00	30.80	14.70	11.80	11.80	4.20	3.60	
2	5.40	3.70	6.80	7.80	7.20	68.80	28.80	19.80	11.60	11.60	5.00	3.50	
3	5.60	3.30	11.20	11.00	8.40	42.00	25.20	43.50	11.60	11.60	4.60	3.30	
4	5.60	3.00	9.40	10.20	9.40	50.50	27.60	35.50	11.40	11.40	4.40	3.40	
5	4.40	5.40	7.40	9.40	11.40	94.30	26.00	30.80	10.80	10.80	4.00	3.20	
6	4.00	4.40	8.40	9.60	17.70	57.40	30.40	31.60	10.60	10.60	3.90	2.70	
7	3.90	3.90	10.80	8.40	20.70	39.00	25.20	30.40	10.20	10.20	3.80	2.80	
8	4.00	3.60	11.80	7.20	22.50	34.50	20.40	38.50	10.00	10.00	3.70	3.10	
9	3.70	4.20	9.40	8.00	78.40	37.00	19.50	25.20	9.60	9.60	3.70	2.80	
10	3.60	3.90	10.20	7.20	170.70	37.00	22.80	19.80	9.60	9.60	3.70	2.70	
11	3.80	3.60	9.00	6.00	134.00	25.60	27.60	17.40	9.40	9.40	3.70	2.50	
12	3.60	3.60	9.00	5.40	86.20	23.70	28.40	16.20	9.20	9.20	3.80	2.30	
13	4.40	3.60	7.00	5.00	42.50	20.70	23.10	15.60	9.20	9.20	3.80	2.10	
14	4.60	3.10	5.80	4.40	33.50	27.20	20.40	16.20	9.00	9.00	3.60	2.10	
15	4.40	3.10	5.60	4.00	30.40	74.80	21.60	18.00	8.80	8.80	3.60	2.00	
16	4.00	2.70	5.00	4.00	42.50	79.00	22.20	15.90	8.60	8.60	3.40	2.00	
17	6.00	2.70	18.90	4.60	45.00	91.50	20.70	14.70	8.40	8.40	3.30	1.80	
18	5.80	3.00	33.50	6.20	28.00	86.80	24.00	14.10	8.20	8.20	9.40	1.70	
19	9.00	2.90	17.40	8.80	22.20	71.80	39.50	14.70	8.00	8.00	22.80	1.80	
20	5.40	2.60	10.80	5.20	18.90	52.00	34.00	13.80	8.40	8.40	10.00	1.80	
21	4.20	2.40	9.80	4.60	18.00	43.50	33.00	13.80	9.40	9.40	7.20	1.70	
22	3.80	2.10	9.00	4.60	18.00	43.00	29.20	13.50	8.60	8.60	7.00	1.50	
23	3.40	2.10	6.80	5.60	18.00	56.20	26.40	12.90	8.20	8.20	7.00	1.30	
24	3.20	2.00	6.40	6.20	16.20	34.00	21.00	12.60	7.60	7.60	7.20	1.30	
25	2.90	3.50	6.60	5.80	28.40	29.20	18.90	12.30	7.40	7.40	6.80	1.10	
26	2.90	3.40	10.80	7.00	31.60	26.40	17.70	12.30	7.20	7.20	5.00	1.00	
27	3.80	3.70	11.60	7.00	28.00	25.20	17.40	12.00	7.40	7.40	3.80	0.90	
28	4.00	3.90	9.60	6.20	24.00	26.00	21.60	12.30	7.20	7.20	3.60	0.80	
29	3.40	3.30	8.20	5.80	34.00	26.00	20.70	13.50	8.40	8.40	3.60	0.80	
30	3.70	3.20	9.00	5.60	61.00	21.30	16.80	12.60	8.60	8.60		0.80	
31		3.40		5.80	51.50		15.60		8.00	8.00		0.80	
Total	133.70	103.50	298.70	206.20	1163.90	1402.40	756.50	574.20	282.40	282.40	159.60	63.20	5426.70 CMSDAY
Mean	4.46	3.34	9.96	6.65	37.55	46.75	24.40	19.14	9.11	9.11	5.50	2.04	14.83 CMS
Max	9.00	5.40	33.50	11.00	170.70	94.30	39.50	43.50	11.80	11.80	22.80	3.60	170.70 CMS
Min	2.90	2.00	3.50	4.00	5.60	20.70	15.60	12.00	7.20	7.20	3.30	0.80	0.80 CMS
Runoff	11.55	8.94	25.81	17.82	100.56	121.17	65.36	49.61	24.40	24.40	13.79	5.46	468.87 MCM
Momentary Peak		288.00 CMS.											at 22.35 m. (MSL.) at 24.00 Hours , on Aug 9, 2019
Runoff Yield		21.51											Liters/Second/Square KM. Momentary Peak Yield 416.67 Liters/Second/Square KM.

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Kolok River at Ban Bu Kae Ta , Narathiwat (X.274)

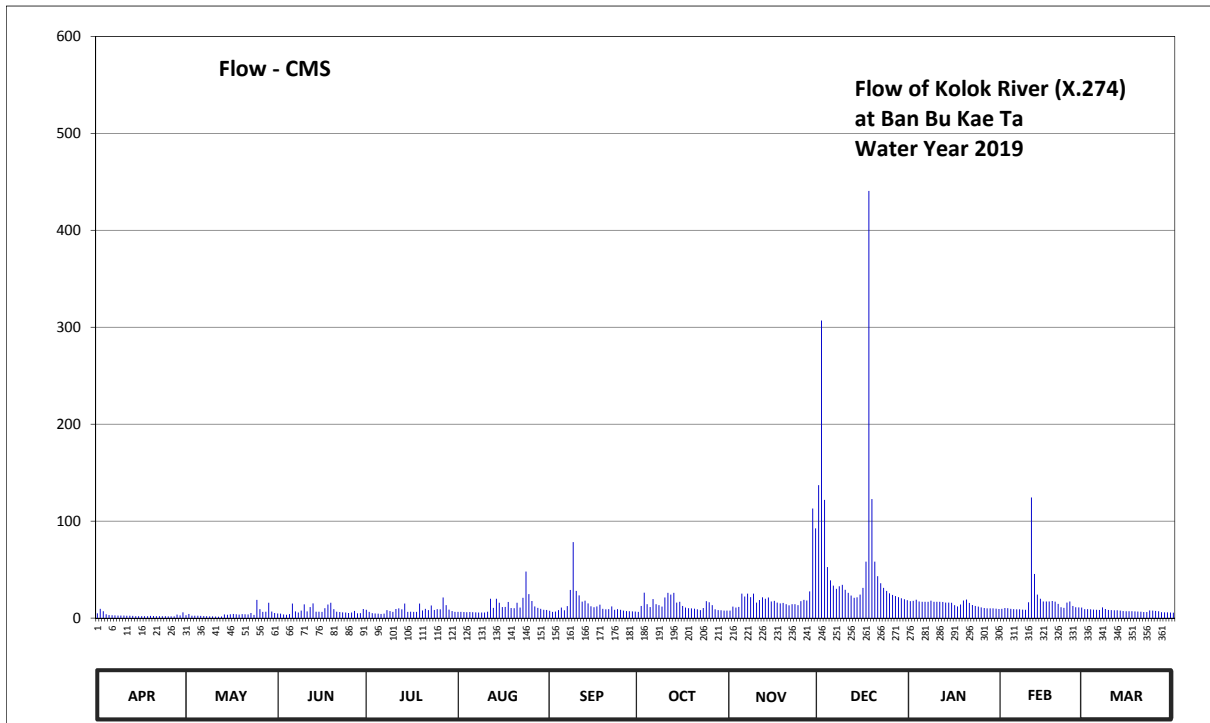
Lat 05 - 50 - 21 N Long 101 - 53 - 07 E

Location : on left bank at Ban Bu Kae Ta.

	<b>Ban Bu Kae Ta</b>	<b>Amphoe Waeng</b>	<b>Changwat Narathiwat</b>
<b>Drainage Area</b>	86 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the automatic gage building.	<b>Elevation</b>	28.193 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2013 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2013 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2013 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 24.040 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.50	18.36	18.48	18.73	18.60	18.67	18.60	18.68	22.24	19.17	18.78	18.76	
2	18.78	18.45	18.47	18.59	18.60	18.60	18.93	18.89	23.82	19.19	18.82	18.76	
3	18.64	18.33	18.42	18.51	18.58	18.62	19.57	18.84	22.05	19.25	18.81	18.75	
4	18.43	18.33	18.40	18.48	18.57	18.71	19.02	18.88	20.53	19.16	18.78	18.74	
5	18.37	18.33	18.44	18.47	18.58	18.84	18.87	19.53	20.08	19.14	18.76	18.73	
6	18.36	18.32	19.05	18.45	18.57	18.70	19.28	19.41	19.86	19.14	18.75	18.72	
7	18.35	18.31	18.63	18.47	18.56	18.92	19.02	19.53	19.73	19.14	18.75	18.85	
8	18.34	18.29	18.55	18.71	18.55	19.68	18.97	19.38	19.83	19.20	18.74	18.77	
9	18.34	18.28	18.68	18.65	18.55	21.27	18.89	19.53	19.89	19.14	18.73	18.72	
10	18.34	18.28	19.01	18.59	18.55	19.64	19.36	19.10	19.69	19.14	19.12	18.71	
11	18.33	18.26	18.63	18.77	18.61	19.46	19.56	19.23	19.56	19.14	22.08	18.70	
12	18.33	18.25	18.87	18.80	19.30	19.15	19.49	19.37	19.45	19.13	20.31	18.70	
13	18.32	18.26	19.06	18.75	18.83	19.20	19.56	19.30	19.35	19.10	19.49	18.68	
14	18.30	18.42	18.61	19.05	19.30	19.06	19.10	19.36	19.37	19.10	19.30	18.65	
15	18.29	18.40	18.61	18.60	19.09	18.91	19.14	19.16	19.49	19.09	19.16	18.64	
16	18.29	18.43	18.59	18.61	18.87	18.86	18.93	19.19	19.77	18.97	19.16	18.64	
17	18.29	18.45	18.81	18.60	18.88	18.90	18.84	19.10	20.71	18.90	19.16	18.64	
18	18.30	18.43	19.00	18.60	19.13	18.99	18.81	19.06	24.64	19.00	19.18	18.63	
19	18.32	18.41	19.09	19.05	18.82	18.78	18.80	19.08	22.06	19.21	19.15	18.62	
20	18.31	18.44	18.76	18.69	18.81	18.75	18.79	19.02	20.71	19.26	19.03	18.61	
21	18.29	18.43	18.61	18.78	19.09	18.76	18.75	18.96	20.24	19.08	18.86	18.58	
22	18.29	18.42	18.58	18.71	18.84	18.90	18.71	19.02	19.96	18.98	18.83	18.58	
23	18.30	18.52	18.56	18.95	19.35	18.73	18.82	19.02	19.77	18.93	19.10	18.69	
24	18.29	18.39	18.55	18.72	20.39	18.76	19.17	18.97	19.64	18.89	19.16	18.68	
25	18.28	19.24	18.52	18.76	19.51	18.73	19.12	19.17	19.54	18.85	18.93	18.66	
26	18.28	18.76	18.55	18.75	19.18	18.68	18.97	19.24	19.48	18.82	18.86	18.64	
27	18.28	18.60	18.66	19.36	18.90	18.65	18.75	19.21	19.43	18.80	18.85	18.57	
28	18.41	18.61	18.50	18.97	18.83	18.64	18.71	19.62	19.38	18.80	18.84	18.56	
29	18.35	19.09	18.51	18.74	18.78	18.63	18.70	21.93	19.32	18.80	18.79	18.56	
30	18.56	18.62	18.77	18.65	18.73	18.62	18.68	21.59	19.27	18.79	18.79	18.55	
31		18.52		18.60	18.72		18.68		19.22	18.77		18.54	
Mean	18.36	18.46	18.67	18.71	18.89	18.96	18.99	19.35	20.26	19.03	19.11	18.67	
Max	18.78	19.24	19.09	19.36	20.39	21.27	19.57	21.93	24.64	19.26	22.08	18.85	24.64
Min	18.28	18.25	18.40	18.45	18.55	18.60	18.60	18.68	19.22	18.77	18.73	18.54	18.25
Annual Max Momentary Gage Height	25.50		m. (MSL.) ,				at 09.00 Hours ,		on Dec 18, 2019				
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	18.04		m. (MSL.)				
Left Bank Elevation		24.18		m. (MSL.) ,									
Right Bank Elevation		24.03		m. (MSL.) ,		Drainage Are	86		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.00	2.90	4.70	8.60	6.50	7.55	6.50	7.70	137.20	17.40	9.60	9.20		
2	9.60	4.25	4.55	6.35	6.50	6.50	12.60	11.80	307.00	17.80	10.40	9.20		
3	7.10	2.45	3.80	5.15	6.20	6.80	26.25	10.80	122.00	19.00	10.20	9.00		
4	3.95	2.45	3.50	4.70	6.05	8.20	14.40	11.60	52.56	17.20	9.60	8.80		
5	3.05	2.45	4.10	4.55	6.20	10.80	11.40	25.25	39.00	16.80	9.20	8.60		
6	2.90	2.30	15.00	4.25	6.05	8.00	19.60	22.25	33.50	16.80	9.00	8.40		
7	2.75	2.15	6.95	4.55	5.90	12.40	14.40	25.25	30.25	16.80	9.00	11.00		
8	2.60	1.90	5.75	8.20	5.75	29.00	13.40	21.60	32.75	18.00	8.80	9.40		
9	2.60	1.80	7.70	7.25	5.75	78.30	11.80	25.25	34.25	16.80	8.60	8.40		
10	2.60	1.80	14.20	6.35	5.75	28.00	21.20	16.00	29.25	16.80	16.40	8.20		
11	2.45	1.60	6.95	9.40	6.65	23.50	26.00	18.60	26.00	16.80	124.40	8.00		
12	2.45	1.50	11.40	10.00	20.00	17.00	24.25	21.40	23.25	16.60	45.52	8.00		
13	2.30	1.60	15.20	9.00	10.60	18.00	26.00	20.00	21.00	16.00	24.25	7.70		
14	2.00	3.80	6.65	15.00	20.00	15.20	16.00	21.20	21.40	16.00	20.00	7.25		
15	1.90	3.50	6.65	6.50	15.80	12.20	16.80	17.20	24.25	15.80	17.20	7.10		
16	1.90	3.95	6.35	6.65	11.40	11.20	12.60	17.80	31.25	13.40	17.20	7.10		
17	1.90	4.25	10.20	6.50	11.60	12.00	10.80	16.00	58.32	12.00	17.20	7.10		
18	2.00	3.95	14.00	6.50	16.60	13.80	10.20	15.20	440.60	14.00	17.60	6.95		
19	2.30	3.65	15.80	15.00	10.40	9.60	10.00	15.60	122.80	18.20	17.00	6.80		
20	2.15	4.10	9.20	7.85	10.20	9.00	9.80	14.40	58.32	19.20	14.60	6.65		
21	1.90	3.95	6.65	9.60	15.80	9.20	9.00	13.20	43.28	15.60	11.20	6.20		
22	1.90	3.80	6.20	8.20	10.80	12.00	8.20	14.40	36.00	13.60	10.60	6.20		
23	2.00	5.30	5.90	13.00	21.00	8.60	10.40	14.40	31.25	12.60	16.00	7.85		
24	1.90	3.35	5.75	8.40	48.08	9.20	17.40	13.40	28.00	11.80	17.20	7.70		
25	1.80	18.80	5.30	9.20	24.75	8.60	16.40	17.40	25.50	11.00	12.60	7.40		
26	1.80	9.20	5.75	9.00	17.60	7.70	13.40	18.80	24.00	10.40	11.20	7.10		
27	1.80	6.50	7.40	21.20	12.00	7.25	9.00	18.20	22.75	10.00	11.00	6.05		
28	3.65	6.65	5.00	13.40	10.60	7.10	8.20	27.50	21.60	10.00	10.80	5.90		
29	2.75	15.80	5.15	8.80	9.60	6.95	8.00	113.10	20.40	10.00	9.80	5.90		
30	5.90	6.80	9.40	7.25	8.60	6.80	7.70	92.50	19.40	9.80		5.75		
31		5.30		6.50	8.40		7.70		18.40	9.40		5.60		
<b>Total</b>	<b>88.90</b>	<b>141.80</b>	<b>235.15</b>	<b>266.90</b>	<b>381.13</b>	<b>420.45</b>	<b>429.40</b>	<b>697.80</b>	<b>1935.53</b>	<b>455.60</b>	<b>526.17</b>	<b>234.50</b>	<b>5813.33</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>2.96</b>	<b>4.57</b>	<b>7.84</b>	<b>8.61</b>	<b>12.29</b>	<b>14.02</b>	<b>13.85</b>	<b>23.26</b>	<b>62.44</b>	<b>14.70</b>	<b>18.14</b>	<b>7.56</b>	<b>15.88</b>	<b>CMS</b>
<b>Max</b>	<b>9.60</b>	<b>18.80</b>	<b>15.80</b>	<b>21.20</b>	<b>48.08</b>	<b>78.30</b>	<b>26.25</b>	<b>113.10</b>	<b>440.60</b>	<b>19.20</b>	<b>124.40</b>	<b>11.00</b>	<b>440.60</b>	<b>CMS</b>
<b>Min</b>	<b>1.80</b>	<b>1.50</b>	<b>3.50</b>	<b>4.25</b>	<b>5.75</b>	<b>6.50</b>	<b>6.50</b>	<b>7.70</b>	<b>18.40</b>	<b>9.40</b>	<b>8.60</b>	<b>5.60</b>	<b>1.50</b>	<b>CMS</b>
<b>Runoff</b>	<b>7.68</b>	<b>12.25</b>	<b>20.32</b>	<b>23.06</b>	<b>32.93</b>	<b>36.33</b>	<b>37.10</b>	<b>60.29</b>	<b>167.23</b>	<b>39.36</b>	<b>45.46</b>	<b>20.26</b>	<b>502.27</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>652.00</b>	<b>CMS.</b>	<b>at 25.50 m. (MSL.)</b>	<b>at 09.00 Hours</b>	<b>on Dec 18, 2019</b>									
<b>Runoff Yield</b>	<b>183.83</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>7525.39</b>	<b>Liters/Second/Square KM.</b>							

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

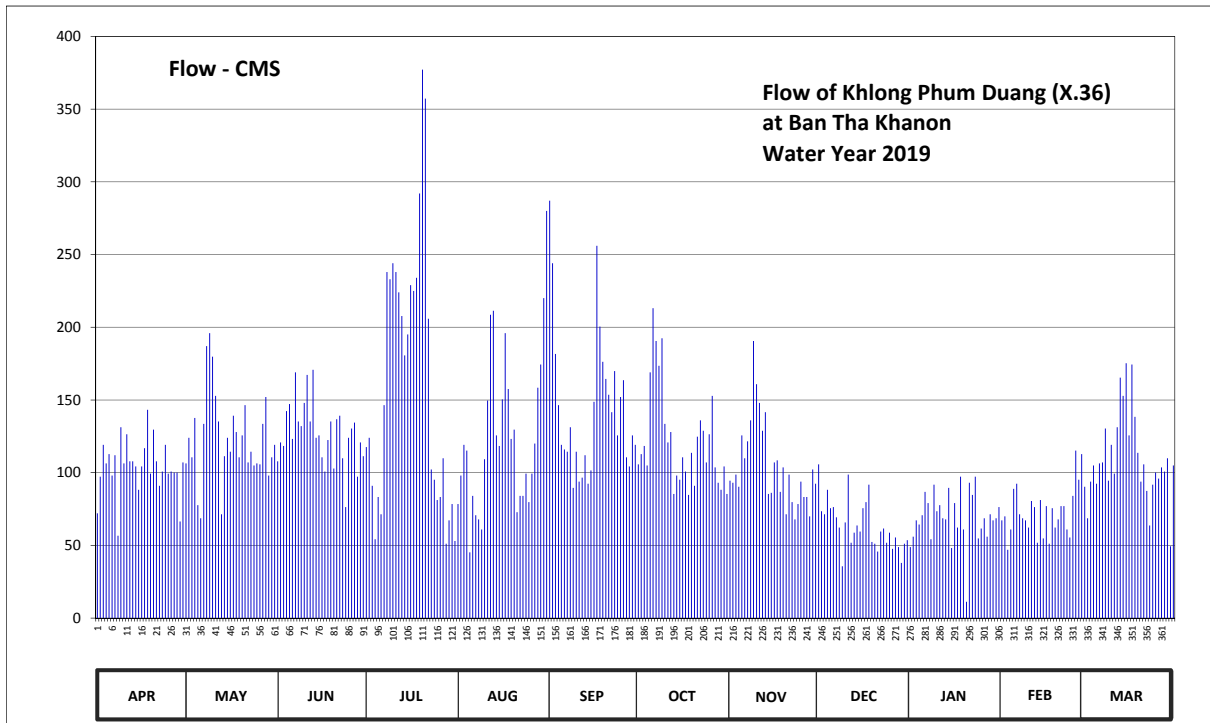
Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

	Ban Tha Khanon	Amphoe Khiri Ratnikhom	Changwat Surat Thani
<b>Drainage Area</b>	2,968 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the sixth staff gage.	<b>Elevation</b>	+10.520 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1963 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Flow regulated by Ratcha Prapha Dam. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

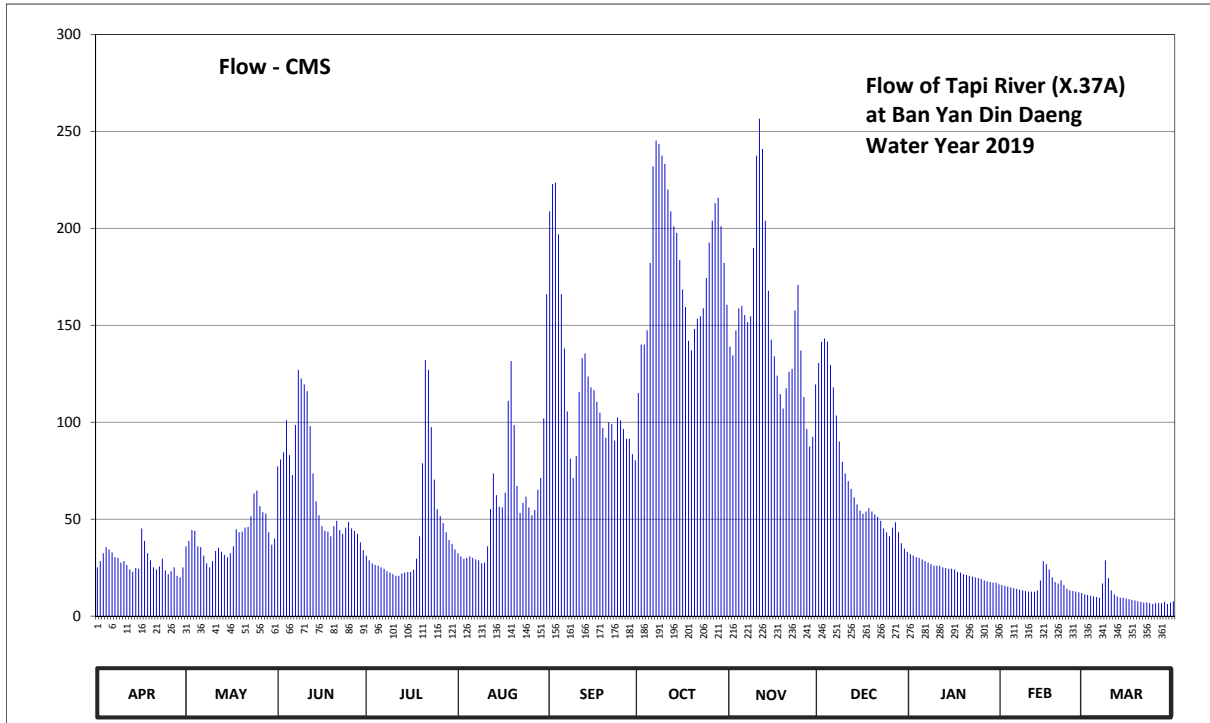
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.83	2.32	2.34	2.47	1.92	4.33	2.31	2.15	2.31	1.48	1.76	2.09	
2	2.19	2.55	2.51	2.55	2.20	3.90	2.41	2.13	1.85	1.60	1.80	1.78	
3	2.49	2.38	2.48	2.10	2.49	3.24	2.48	2.21	1.82	1.76	1.45	2.14	
4	2.32	2.72	2.78	1.57	2.44	2.83	2.30	2.09	2.06	1.72	1.67	2.30	
5	2.41	1.91	2.84	1.99	1.42	2.49	3.10	2.57	1.88	1.81	2.07	2.12	
6	2.20	1.78	2.54	1.82	2.00	2.45	3.59	2.37	1.89	2.04	2.12	2.32	
7	2.40	2.67	3.10	2.83	1.81	2.43	3.34	2.52	1.79	1.93	1.82	2.33	
8	1.61	3.30	2.69	3.84	1.77	2.64	3.15	2.70	1.69	1.57	1.78	2.63	
9	2.64	3.40	2.65	3.79	1.67	2.08	3.36	3.34	1.26	2.11	1.76	2.15	
10	2.32	3.22	2.85	3.90	2.36	2.43	2.67	3.01	1.74	1.85	1.69	2.49	
11	2.58	2.91	3.08	3.84	2.87	2.14	2.51	2.85	2.21	1.91	1.95	2.22	
12	2.34	2.69	2.69	3.70	3.54	2.18	2.60	2.61	1.53	1.78	1.89	2.64	
13	2.34	1.82	3.12	3.53	3.57	2.40	2.02	2.77	1.64	1.77	1.53	3.06	
14	2.29	2.39	2.55	3.23	2.57	2.12	2.20	2.02	1.71	2.08	1.96	2.91	
15	2.06	2.55	2.57	3.39	2.48	2.25	2.16	2.03	1.65	1.47	1.58	3.17	
16	2.29	2.43	2.38	3.75	2.88	2.86	2.38	2.33	1.88	1.93	1.90	2.57	
17	2.46	2.74	2.24	3.71	3.40	4.02	2.24	2.35	1.94	1.69	1.52	3.16	
18	2.79	2.60	2.53	3.80	2.97	3.45	2.01	2.04	2.11	2.19	1.88	2.73	
19	2.22	2.38	2.69	4.38	2.54	3.18	2.42	2.28	1.54	1.67	1.69	2.42	
20	2.62	2.57	2.27	5.21	2.62	3.05	2.10	1.82	1.52	0.78	1.77	2.14	
21	2.34	2.83	2.71	5.03	1.84	2.92	2.56	2.21	1.43	2.13	1.90	2.31	
22	2.10	2.33	2.74	3.51	2.00	2.77	2.70	1.94	1.65	2.01	1.90	2.05	
23	2.24	2.43	2.37	2.26	2.00	3.11	2.61	1.77	1.68	2.19	1.67	1.71	
24	2.49	2.30	1.89	2.16	2.22	2.57	2.33	1.92	1.53	1.58	1.59	2.11	
25	2.22	2.32	2.55	1.96	1.94	2.90	2.58	2.14	1.64	1.68	2.00	2.23	
26	2.24	2.31	2.63	1.99	2.22	3.04	2.91	1.99	1.46	1.78	2.44	2.17	
27	2.23	2.67	2.68	2.37	2.50	2.38	2.28	1.99	1.59	1.60	2.16	2.28	
28	2.23	2.90	2.19	1.52	2.98	2.29	2.13	1.80	1.48	1.82	2.41	2.24	
29	1.75	2.20	2.51	1.76	3.16	2.57	2.06	2.26	1.30	1.76	2.15	2.37	
30	2.33	2.38	2.39	1.92	3.66	2.49	2.29	2.12	1.52	1.78	1.49	1.49	
31		2.49		1.55	4.26		2.02		1.56	1.89		2.30	
Mean	2.29	2.53	2.59	2.95	2.53	2.78	2.51	2.28	1.71	1.79	1.86	2.34	
Max	2.79	3.40	3.12	5.21	4.26	4.33	3.59	3.34	2.31	2.19	2.44	3.17	5.21
Min	1.61	1.78	1.89	1.52	1.42	2.08	2.01	1.77	1.26	0.78	1.45	1.49	0.78
Annual Max Momentary Gage Height	5.62												at 03.00 Hours , on Jul 21, 2019
Zero Gage at Bottom Elevation	0.00						0.25						m. (MSL.)
Left Bank Elevation		10.21											m. (MSL.)
Right Bank Elevation		11.30											m. (MSL.)
Drainage Area						2,968							Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	72.10	106.40	107.80	117.60	78.40	287.00	105.70	94.50	105.70	48.80	67.20	90.30		
2	97.30	124.00	120.80	124.00	98.00	244.00	112.80	93.10	73.50	56.00	70.00	68.60		
3	119.20	110.60	118.40	91.00	119.20	181.60	118.40	98.70	71.40	67.20	47.00	93.80		
4	106.40	137.60	142.40	54.20	115.20	146.40	105.00	90.30	88.20	64.40	60.90	105.00		
5	112.80	77.70	147.20	83.30	45.20	119.20	169.00	125.60	75.60	70.70	88.90	92.40		
6	98.00	68.60	123.20	71.40	84.00	116.00	213.10	109.90	76.30	86.80	92.40	106.40		
7	112.00	133.60	169.00	146.40	70.70	114.40	190.60	121.60	69.30	79.10	71.40	107.10		
8	56.70	187.00	135.20	238.00	67.90	131.20	173.50	136.00	62.30	54.20	68.60	130.40		
9	131.20	196.00	132.00	233.00	60.90	89.60	192.40	190.60	35.60	91.70	67.20	94.50		
10	106.40	179.80	148.00	244.00	109.20	114.40	133.60	160.90	65.80	73.50	62.30	119.20		
11	126.40	152.80	167.20	238.00	149.60	93.80	120.80	148.00	98.70	77.70	80.50	99.40		
12	107.80	135.20	135.20	224.00	208.60	96.60	128.00	128.80	51.80	68.60	76.30	131.20		
13	107.80	71.40	170.80	207.70	211.30	112.00	85.40	141.60	58.80	67.90	51.80	165.40		
14	104.30	111.30	124.00	180.70	125.60	92.40	98.00	85.40	63.70	89.60	81.20	152.80		
15	88.20	124.00	125.60	195.10	118.40	101.50	95.20	86.10	59.50	48.20	54.80	175.30		
16	104.30	114.40	110.60	229.00	150.40	148.80	110.60	107.10	75.60	79.10	77.00	125.60		
17	116.80	139.20	100.80	225.00	196.00	256.00	100.80	108.50	79.80	62.30	51.20	174.40		
18	143.20	128.00	122.40	234.00	157.60	200.50	84.70	86.80	91.70	97.30	75.60	138.40		
19	99.40	110.60	135.20	292.00	123.20	176.20	113.60	103.60	52.40	60.90	62.30	113.60		
20	129.60	125.60	102.90	377.20	129.60	164.50	91.00	71.40	51.20	11.20	67.90	93.80		
21	107.80	146.40	136.80	357.30	72.80	153.60	124.80	98.70	45.80	93.10	77.00	105.70		
22	91.00	107.10	139.20	205.90	84.00	141.60	136.00	79.80	59.50	84.70	77.00	87.50		
23	100.80	114.40	109.90	102.20	84.00	169.90	128.80	67.90	61.60	97.30	60.90	63.70		
24	119.20	105.00	76.30	95.20	99.40	125.60	107.10	78.40	51.80	54.80	55.40	91.70		
25	99.40	106.40	124.00	81.20	79.80	152.00	126.40	93.80	58.80	61.60	84.00	100.10		
26	100.80	105.70	130.40	83.30	99.40	163.60	152.80	83.30	47.60	68.60	115.20	95.90		
27	100.10	133.60	134.40	109.90	120.00	110.60	103.60	83.30	55.40	56.00	95.20	103.60		
28	100.10	152.00	97.30	51.20	158.40	104.30	93.10	70.00	48.80	71.40	112.80	100.80		
29	66.50	98.00	120.80	67.20	174.40	125.60	88.20	102.20	38.00	67.20	94.50	109.90		
30	107.10	110.60	111.30	78.40	220.00	119.20	104.30	92.40	51.20	68.60		49.40		
31		119.20		53.00	280.00		85.40		53.60	76.30		105.00		
<b>Total</b>	<b>3132.70</b>	<b>3832.20</b>	<b>3819.10</b>	<b>5090.40</b>	<b>3891.20</b>	<b>4352.10</b>	<b>3792.70</b>	<b>3138.30</b>	<b>1979.00</b>	<b>2154.80</b>	<b>2146.50</b>	<b>3390.90</b>	<b>40719.90</b>	<b>CMSDAY</b>
<b>Mean</b>	<b>104.42</b>	<b>123.62</b>	<b>127.30</b>	<b>164.21</b>	<b>125.52</b>	<b>145.07</b>	<b>122.35</b>	<b>104.61</b>	<b>63.84</b>	<b>69.51</b>	<b>74.02</b>	<b>109.38</b>	<b>111.26</b>	<b>CMS</b>
<b>Max</b>	<b>143.20</b>	<b>196.00</b>	<b>170.80</b>	<b>377.20</b>	<b>280.00</b>	<b>287.00</b>	<b>213.10</b>	<b>190.60</b>	<b>105.70</b>	<b>97.30</b>	<b>115.20</b>	<b>175.30</b>	<b>377.20</b>	<b>CMS</b>
<b>Min</b>	<b>56.70</b>	<b>68.60</b>	<b>76.30</b>	<b>51.20</b>	<b>45.20</b>	<b>89.60</b>	<b>84.70</b>	<b>67.90</b>	<b>35.60</b>	<b>11.20</b>	<b>47.00</b>	<b>49.40</b>	<b>11.20</b>	<b>CMS</b>
<b>Runoff</b>	<b>270.67</b>	<b>331.10</b>	<b>329.97</b>	<b>439.81</b>	<b>336.20</b>	<b>376.02</b>	<b>327.69</b>	<b>271.15</b>	<b>170.99</b>	<b>186.17</b>	<b>185.46</b>	<b>292.97</b>	<b>3518.20</b>	<b>MCM</b>
<b>Momentary Peak</b>	<b>426.40</b>	<b>CMS.</b>	<b>at 5.62 m. (MSL.)</b>	<b>at 03.00 Hours</b>	<b>on Jul 21, 2019</b>									
<b>Runoff Yield</b>	<b>37.58</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>143.65</b>	<b>Liters/Second/Square KM.</b>							





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.20	36.00	77.20	31.20	32.40	208.80	115.00	139.00	130.50	32.00	16.00	11.20		
2	28.40	38.80	80.80	28.80	30.80	222.80	140.00	134.50	141.50	31.20	15.60	10.85		
3	32.40	44.40	84.50	27.20	29.60	223.50	140.00	147.40	143.20	30.40	15.20	10.50		
4	35.60	44.00	101.00	26.40	30.00	196.90	147.40	158.80	141.50	30.00	14.80	10.15		
5	34.40	36.00	83.00	26.00	30.80	166.00	182.20	160.00	129.50	29.20	14.40	9.80		
6	32.80	35.60	72.80	25.20	30.00	138.00	231.90	155.20	118.00	28.40	14.00	9.45		
7	30.40	31.20	98.50	24.40	29.20	105.50	245.27	151.60	103.50	27.60	13.65	16.80		
8	30.00	27.20	127.00	23.20	28.80	81.20	243.53	154.60	90.00	26.80	13.30	28.80		
9	27.60	25.20	122.50	22.40	27.20	71.20	237.47	189.90	79.60	26.00	12.95	19.60		
10	28.40	28.40	119.50	21.60	27.60	82.50	233.30	237.47	73.60	26.00	12.60	13.30		
11	26.40	33.60	116.00	20.80	36.00	115.50	220.00	256.53	69.60	26.00	12.60	11.20		
12	24.00	35.20	98.00	20.80	55.20	133.00	208.80	240.93	65.60	25.20	12.60	10.15		
13	22.80	33.20	73.60	22.00	73.60	135.50	201.10	203.90	61.20	24.80	13.30	9.45		
14	24.80	31.60	59.20	22.40	62.40	123.50	197.60	167.80	57.60	24.40	18.40	9.45		
15	24.40	30.40	52.00	22.80	56.40	118.00	183.60	142.60	54.40	24.40	28.40	9.10		
16	45.20	32.40	46.40	22.80	56.00	116.50	168.40	134.00	52.80	24.00	26.80	8.75		
17	38.80	36.00	44.00	24.00	63.60	110.50	159.40	124.00	54.00	22.80	24.00	8.40		
18	32.40	44.80	43.60	29.60	111.00	105.00	142.00	114.50	55.60	22.40	20.00	8.05		
19	28.80	43.20	41.20	41.20	131.50	97.00	137.00	107.00	54.00	21.60	17.60	7.70		
20	25.20	43.60	46.40	78.80	98.50	92.00	148.00	117.50	52.40	21.20	16.80	7.35		
21	24.00	45.60	49.20	132.00	67.20	100.00	153.40	126.00	51.20	20.80	18.40	7.00		
22	25.60	46.00	44.40	127.00	53.20	99.00	154.60	127.50	49.20	20.40	16.00	7.00		
23	29.60	51.60	42.40	97.50	58.40	90.50	158.80	157.60	45.20	20.00	14.00	6.65		
24	23.60	63.20	45.60	70.40	61.60	102.50	174.40	170.80	43.20	19.60	13.30	6.30		
25	21.60	64.80	48.40	55.20	56.00	101.00	192.70	137.00	41.20	19.20	12.95	6.65		
26	23.20	56.80	45.20	51.60	52.00	96.50	203.90	113.00	45.60	18.40	12.60	6.65		
27	25.20	53.60	44.00	48.00	54.80	91.50	213.00	96.50	48.40	18.00	12.25	6.65		
28	20.80	52.80	42.40	43.20	65.20	91.50	215.80	87.50	43.20	17.60	11.90	7.35		
29	20.00	43.20	38.00	39.20	71.20	83.50	201.10	92.50	37.60	17.20	11.20	6.30		
30	25.20	36.80	34.00	37.20	102.00	80.40	182.20	119.50	34.80	17.20		7.00		
31		40.00		34.40	166.00		160.60		33.20	16.40		7.70		
<b>Total</b>	836.80	1,265.20	2,020.80	1297.30	1848.20	3579.30	5692.47	4465.13	2200.90	729.20	455.60	305.30	24696.20	CMSDAY
<b>Mean</b>	27.89	40.81	67.36	41.85	59.62	119.31	183.63	148.84	71.00	23.52	15.71	9.85	67.48	CMS
<b>Max</b>	45.20	64.80	127.00	132.00	166.00	223.50	245.27	256.53	143.20	32.00	28.40	28.80	256.53	CMS
<b>Min</b>	20.00	25.20	34.00	20.80	27.20	71.20	115.00	87.50	33.20	16.40	11.20	6.30	6.30	CMS
<b>Runoff</b>	72.30	109.31	174.60	112.09	159.68	309.25	491.83	385.79	190.16	63.00	39.36	26.38	2133.75	MCM
<b>Momentary Peak</b>		258.27		CMS, at 9.08 m. (MSL), at 10.00 Hours, on Nov 11, 2019										
<b>Runoff Yield</b>		12.57		Liters/Second/Square KM.			Momentary Peak Yield	47.98						Liters/Second/Square KM.



## WATER YEAR : 2019

## TAPI RIVER BASIN

Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)

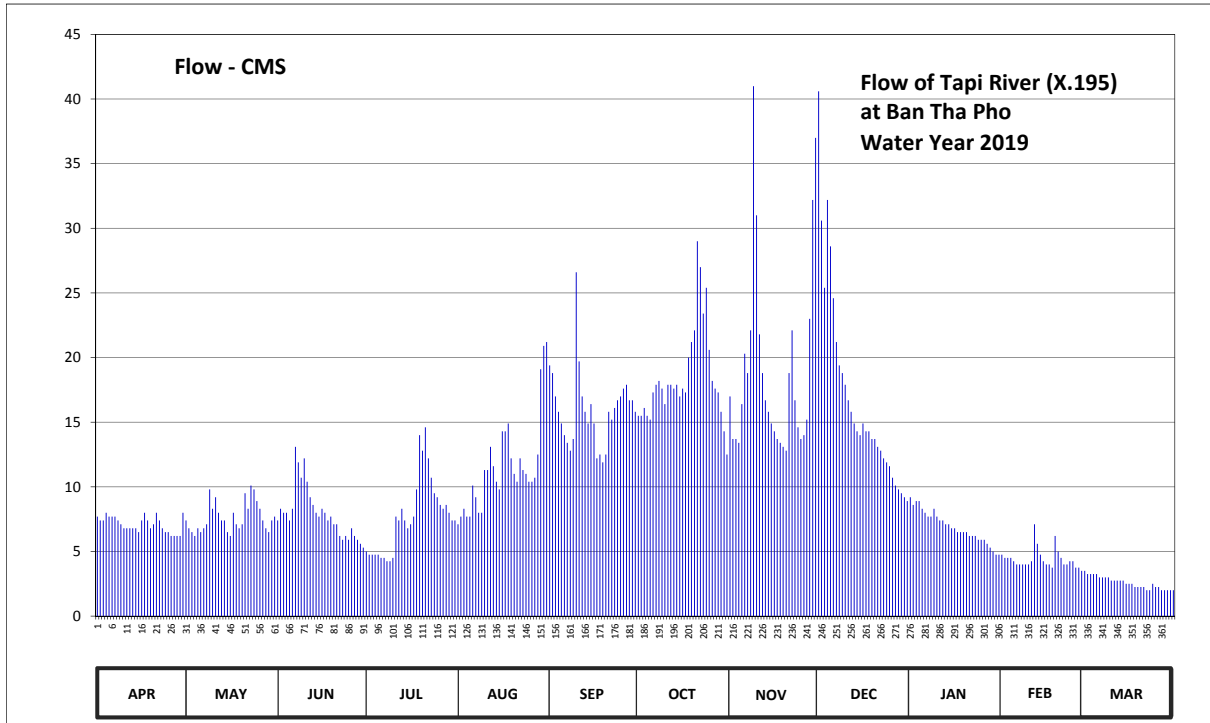
Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

Location : on left bank at Ban Tha Pho.

	Ban Tha Pho	Amphoe Chawang	Changwat Nakhon Si Thammarat
<b>Drainage Area</b>	488 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the top staff gage.	<b>Elevation</b>	+40.509 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1998 - 2006, 2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1998 - 2006, 2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1998 - 2006, 2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.39	32.38	32.38	32.30	32.37	32.78	32.65	32.70	33.34	32.44	32.29	32.24	
2	32.38	32.36	32.41	32.29	32.39	32.76	32.65	32.59	33.09	32.42	32.28	32.23	
3	32.38	32.35	32.40	32.29	32.41	32.70	32.67	32.59	32.96	32.43	32.28	32.23	
4	32.40	32.34	32.40	32.29	32.39	32.66	32.65	32.58	33.13	32.43	32.28	32.23	
5	32.39	32.36	32.38	32.29	32.39	32.63	32.64	32.68	33.04	32.41	32.27	32.23	
6	32.39	32.35	32.41	32.28	32.47	32.60	32.71	32.81	32.94	32.40	32.26	32.22	
7	32.39	32.36	32.57	32.28	32.44	32.58	32.73	32.76	32.84	32.39	32.26	32.22	
8	32.38	32.37	32.53	32.27	32.40	32.56	32.74	32.87	32.78	32.39	32.26	32.22	
9	32.37	32.46	32.49	32.27	32.40	32.59	32.72	33.35	32.76	32.41	32.26	32.22	
10	32.36	32.41	32.54	32.28	32.51	32.99	32.68	33.10	32.73	32.39	32.26	32.21	
11	32.36	32.44	32.48	32.39	32.51	32.79	32.73	32.86	32.69	32.38	32.27	32.21	
12	32.36	32.40	32.44	32.38	32.57	32.70	32.73	32.76	32.66	32.38	32.37	32.21	
13	32.36	32.38	32.42	32.41	32.52	32.66	32.72	32.69	32.63	32.37	32.32	32.21	
14	32.36	32.38	32.40	32.38	32.48	32.63	32.73	32.66	32.61	32.37	32.29	32.21	
15	32.35	32.35	32.39	32.36	32.46	32.68	32.70	32.63	32.60	32.36	32.27	32.20	
16	32.38	32.34	32.41	32.37	32.61	32.63	32.72	32.61	32.63	32.36	32.26	32.20	
17	32.40	32.40	32.40	32.39	32.61	32.54	32.71	32.59	32.61	32.35	32.26	32.20	
18	32.38	32.37	32.38	32.46	32.63	32.55	32.80	32.58	32.61	32.35	32.25	32.19	
19	32.36	32.36	32.39	32.60	32.54	32.53	32.84	32.57	32.59	32.35	32.34	32.19	
20	32.37	32.37	32.37	32.56	32.50	32.55	32.87	32.56	32.59	32.35	32.30	32.19	
21	32.40	32.45	32.37	32.62	32.48	32.66	33.05	32.76	32.57	32.34	32.28	32.19	
22	32.38	32.41	32.34	32.54	32.54	32.64	33.00	32.87	32.56	32.34	32.26	32.18	
23	32.36	32.47	32.33	32.49	32.51	32.67	32.91	32.69	32.54	32.34	32.26	32.18	
24	32.35	32.46	32.34	32.45	32.50	32.69	32.96	32.62	32.53	32.33	32.27	32.20	
25	32.35	32.43	32.33	32.44	32.48	32.70	32.82	32.59	32.52	32.33	32.27	32.19	
26	32.34	32.41	32.36	32.42	32.48	32.72	32.74	32.60	32.49	32.33	32.25	32.19	
27	32.34	32.38	32.34	32.41	32.49	32.73	32.72	32.64	32.47	32.32	32.25	32.18	
28	32.34	32.36	32.33	32.42	32.55	32.69	32.71	32.90	32.46	32.31	32.24	32.18	
29	32.34	32.35	32.32	32.40	32.77	32.69	32.66	33.13	32.45	32.30	32.24	32.18	
30	32.40	32.38	32.31	32.38	32.83	32.66	32.61	33.25	32.44	32.29	32.18	32.18	
31		32.39		32.38	32.84		32.55		32.43	32.29		32.18	
Mean	32.37	32.39	32.40	32.39	32.52	32.67	32.75	32.75	32.69	32.36	32.27	32.20	
Max	32.40	32.47	32.57	32.62	32.84	32.99	33.05	33.35	33.34	32.44	32.37	32.24	33.35
Min	32.34	32.34	32.31	32.27	32.37	32.53	32.55	32.56	32.43	32.29	32.24	32.18	32.18
Annual Max Momentary Gage Height	33.63		m. (MSL.) ,				at 07.00 Hours ,						on Nov 9, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	30.60		m. (MSL.)				
Left Bank Elevation		40.32		m. (MSL.) ,									
Right Bank Elevation		38.00		m. (MSL.) ,		Drainage Are	488		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.70	7.40	7.40	5.00	7.10	19.40	15.50	17.00	40.60	9.20	4.75	3.50		
2	7.40	6.80	8.30	4.75	7.70	18.80	15.50	13.70	30.60	8.60	4.50	3.25		
3	7.40	6.50	8.00	4.75	8.30	17.00	16.10	13.70	25.40	8.90	4.50	3.25		
4	8.00	6.20	8.00	4.75	7.70	15.80	15.50	13.40	32.20	8.90	4.50	3.25		
5	7.70	6.80	7.40	4.75	7.70	14.90	15.20	16.40	28.60	8.30	4.25	3.25		
6	7.70	6.50	8.30	4.50	10.10	14.00	17.30	20.30	24.60	8.00	4.00	3.00		
7	7.70	6.80	13.10	4.50	9.20	13.40	17.90	18.80	21.20	7.70	4.00	3.00		
8	7.40	7.10	11.90	4.25	8.00	12.80	18.20	22.10	19.40	7.70	4.00	3.00		
9	7.10	9.80	10.70	4.25	8.00	13.70	17.60	41.00	18.80	8.30	4.00	3.00		
10	6.80	8.30	12.20	4.50	11.30	26.60	16.40	31.00	17.90	7.70	4.00	2.75		
11	6.80	9.20	10.40	7.70	11.30	19.70	17.90	21.80	16.70	7.40	4.25	2.75		
12	6.80	8.00	9.20	7.40	13.10	17.00	17.90	18.80	15.80	7.40	7.10	2.75		
13	6.80	7.40	8.60	8.30	11.60	15.80	17.60	16.70	14.90	7.10	5.60	2.75		
14	6.80	7.40	8.00	7.40	10.40	14.90	17.90	15.80	14.30	7.10	4.75	2.75		
15	6.50	6.50	7.70	6.80	9.80	16.40	17.00	14.90	14.00	6.80	4.25	2.50		
16	7.40	6.20	8.30	7.10	14.30	14.90	17.60	14.30	14.90	6.80	4.00	2.50		
17	8.00	8.00	8.00	7.70	14.30	12.20	17.30	13.70	14.30	6.50	4.00	2.50		
18	7.40	7.10	7.40	9.80	14.90	12.50	20.00	13.40	14.30	6.50	3.75	2.25		
19	6.80	6.80	7.70	14.00	12.20	11.90	21.20	13.10	13.70	6.50	6.20	2.25		
20	7.10	7.10	7.10	12.80	11.00	12.50	22.10	12.80	13.70	6.50	5.00	2.25		
21	8.00	9.50	7.10	14.60	10.40	15.80	29.00	18.80	13.10	6.20	4.50	2.25		
22	7.40	8.30	6.20	12.20	12.20	15.20	27.00	22.10	12.80	6.20	4.00	2.00		
23	6.80	10.10	5.90	10.70	11.30	16.10	23.40	16.70	12.20	6.20	4.00	2.00		
24	6.50	9.80	6.20	9.50	11.00	16.70	25.40	14.60	11.90	5.90	4.25	2.50		
25	6.50	8.90	5.90	9.20	10.40	17.00	20.60	13.70	11.60	5.90	4.25	2.25		
26	6.20	8.30	6.80	8.60	10.40	17.60	18.20	14.00	10.70	5.90	3.75	2.25		
27	6.20	7.40	6.20	8.30	10.70	17.90	17.60	15.20	10.10	5.60	3.75	2.00		
28	6.20	6.80	5.90	8.60	12.50	16.70	17.30	23.00	9.80	5.30	3.50	2.00		
29	6.20	6.50	5.60	8.00	19.10	16.70	15.80	32.20	9.50	5.00	3.50	2.00		
30	8.00	7.40	5.30	7.40	20.90	15.80	14.30	37.00	9.20	4.75		2.00		
31		7.70		7.40	21.20		12.50		8.90	4.75		2.00		
Total	213.30	236.60	238.80	239.50	358.10	479.70	572.80	570.00	525.70	213.60	126.90	79.75	3854.75	CMSDAY
Mean	7.11	7.63	7.96	7.73	11.55	15.99	18.48	19.00	16.96	6.89	4.38	2.57	10.53	CMS
Max	8.00	10.10	13.10	14.60	21.20	26.60	29.00	41.00	40.60	9.20	7.10	3.50	41.00	CMS
Min	6.20	6.20	5.30	4.25	7.10	11.90	12.50	12.80	8.90	4.75	3.50	2.00	2.00	CMS
Runoff	18.43	20.44	20.63	20.69	30.94	41.45	49.49	49.25	45.42	18.46	10.96	6.89	333.05	MCM
Momentary Peak	52.20	CMS, at 33.63 m. (MSL.), at 07.00 Hours, on Nov 9, 2019												
Runoff Yield	21.64	Liters/Second/Square KM.		Momentary Peak Yield		106.97	Liters/Second/Square KM.							

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)

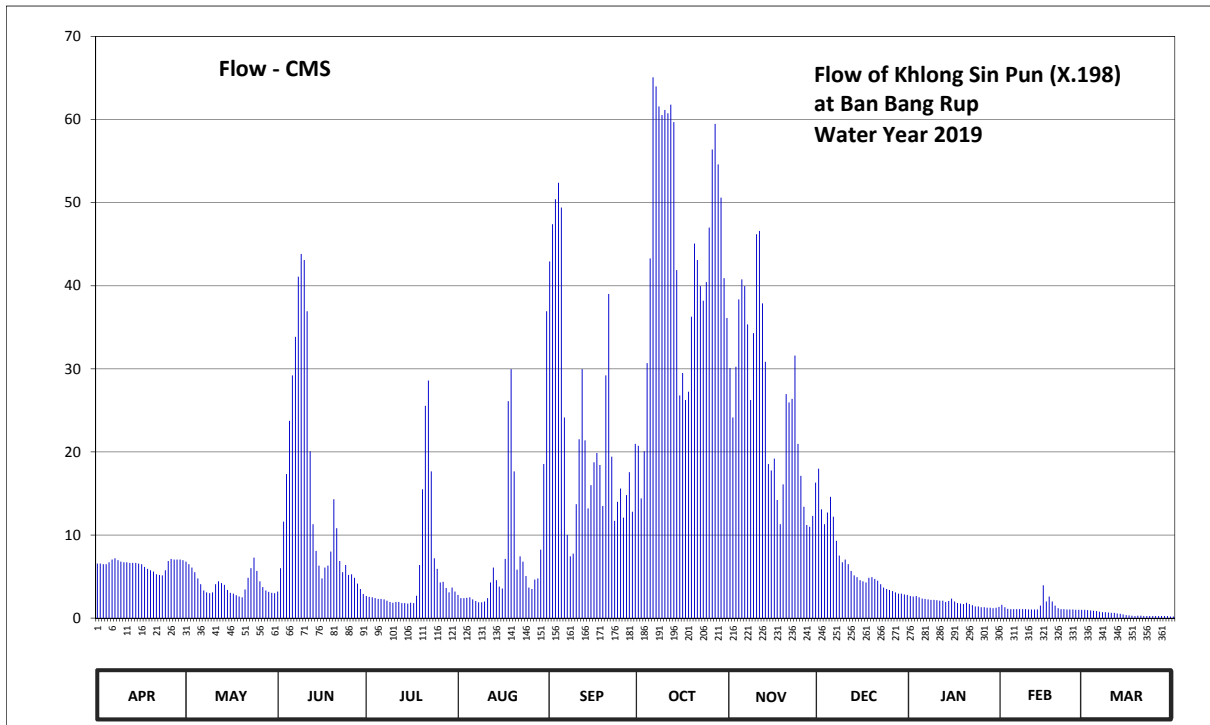
Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban Bang Rup	Amphoe Phrasaeng	Changwat Surat Thani
<b>Drainage Area</b>	866 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+9.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the footpath of the bridge.	<b>Elevation</b>	+19.252 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.07	11.10	10.60	10.49	10.52	14.04	12.54	13.22	12.29	10.49	10.28	10.15	
2	11.07	11.06	11.00	10.47	10.44	14.28	11.94	12.81	11.81	10.48	10.22	10.14	
3	11.06	11.01	11.66	10.46	10.44	14.43	12.48	13.23	11.63	10.49	10.18	10.13	
4	11.06	10.94	12.23	10.44	10.45	14.53	13.26	13.76	11.77	10.46	10.17	10.12	
5	11.09	10.84	12.78	10.42	10.46	14.38	14.06	13.91	11.96	10.43	10.17	10.11	
6	11.13	10.74	13.16	10.42	10.41	12.81	15.14	13.86	11.72	10.42	10.17	10.09	
7	11.15	10.62	13.47	10.41	10.37	11.49	15.09	13.57	11.41	10.41	10.17	10.08	
8	11.12	10.58	13.93	10.38	10.34	11.18	14.98	12.96	11.19	10.40	10.17	10.08	
9	11.10	10.56	14.09	10.35	10.34	11.22	14.93	13.50	11.09	10.40	10.17	10.07	
10	11.09	10.58	14.05	10.33	10.36	11.87	14.96	14.22	11.13	10.39	10.16	10.06	
11	11.09	10.74	13.67	10.35	10.44	12.61	14.94	14.24	11.06	10.38	10.16	10.06	
12	11.08	10.79	12.48	10.35	10.77	13.21	14.99	13.73	10.96	10.38	10.16	10.04	
13	11.08	10.76	11.63	10.32	11.01	12.60	14.89	13.27	10.89	10.35	10.16	10.03	
14	11.08	10.73	11.26	10.32	10.81	11.82	13.98	12.34	10.86	10.37	10.26	10.01	
15	11.07	10.63	11.04	10.31	10.70	12.10	13.00	12.27	10.81	10.43	10.72	9.99	
16	11.06	10.57	10.84	10.33	10.66	12.36	13.18	12.40	10.79	10.36	10.36	9.98	
17	11.02	10.55	11.01	10.32	11.14	12.46	12.96	11.92	10.77	10.32	10.48	9.97	
18	10.99	10.51	11.04	10.50	12.95	12.33	13.03	11.63	10.85	10.31	10.36	9.96	
19	10.97	10.48	11.25	11.05	13.21	11.85	13.63	12.11	10.86	10.30	10.26	9.97	
20	10.95	10.46	11.93	12.05	12.26	13.16	14.16	13.01	10.83	10.33	10.20	9.97	
21	10.91	10.64	11.58	12.91	10.98	13.80	14.05	12.94	10.80	10.30	10.17	9.96	
22	10.90	10.85	11.11	13.12	11.18	12.42	13.86	12.97	10.74	10.27	10.17	9.96	
23	10.89	11.00	10.94	12.26	11.10	11.67	13.75	13.32	10.68	10.24	10.16	9.96	
24	10.97	11.16	11.05	11.15	10.88	11.90	13.89	12.56	10.65	10.24	10.16	9.96	
25	11.11	10.96	10.90	10.99	10.68	12.06	14.26	12.21	10.63	10.22	10.16	9.96	
26	11.14	10.79	10.91	10.77	10.65	11.71	14.73	11.84	10.61	10.22	10.15	9.96	
27	11.13	10.69	10.85	10.78	10.82	11.98	14.88	11.62	10.58	10.21	10.15	9.96	
28	11.13	10.62	10.75	10.67	10.84	12.25	14.64	11.60	10.55	10.21	10.15	9.96	
29	11.13	10.59	10.65	10.58	11.28	11.78	14.44	11.73	10.55	10.20	10.15	9.96	
30	11.12	10.57	10.54	10.68	12.34	12.56	13.92	12.13	10.53	10.21	10.15	9.95	
31		10.56		10.60	13.67		13.62		10.52	10.23		9.95	
Mean	11.06	10.73	11.75	10.79	11.05	12.56	14.01	12.83	11.02	10.34	10.22	10.02	
Max	11.15	11.16	14.09	13.12	13.67	14.53	15.14	14.24	12.29	10.49	10.72	10.15	15.14
Min	10.89	10.46	10.54	10.31	10.34	11.18	11.94	11.60	10.52	10.20	10.15	9.95	9.95
Annual Max Momentary Gage Height	15.19		m. (MSL.) ,			at 12.00 Hours ,	on Oct 6, 2019						
Zero Gage at Bottom Elevation	9.00		m. (MSL.) ,			River Bed	9.55	m. (MSL.)					
Left Bank Elevation	16.81		m. (MSL.) ,										
Right Bank Elevation	16.62		m. (MSL.) ,			Drainage Are	866	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.56	6.80	3.20	2.65	2.80	42.92	20.74	30.10	17.99	2.65	1.60	1.00	
2	6.56	6.48	6.00	2.55	2.40	47.40	14.40	24.14	13.10	2.60	1.30	0.96	
3	6.48	6.08	11.60	2.50	2.40	50.40	20.08	30.25	11.30	2.65	1.12	0.92	
4	6.48	5.52	17.33	2.40	2.45	52.40	30.70	38.36	12.70	2.50	1.08	0.88	
5	6.72	4.78	23.74	2.30	2.50	49.40	43.28	40.76	14.60	2.35	1.08	0.84	
6	7.04	4.08	29.20	2.30	2.25	24.14	65.08	39.96	12.20	2.30	1.08	0.76	
7	7.20	3.32	33.85	2.25	2.05	10.01	63.98	35.35	9.29	2.25	1.08	0.72	
8	6.96	3.10	41.08	2.10	1.90	7.44	61.58	26.24	7.52	2.20	1.08	0.72	
9	6.80	3.00	43.82	1.95	1.90	7.76	60.53	34.30	6.72	2.20	1.08	0.68	
10	6.72	3.10	43.10	1.85	2.00	13.70	61.16	46.20	7.04	2.15	1.04	0.64	
11	6.72	4.08	36.92	1.95	2.40	21.53	60.74	46.60	6.48	2.10	1.04	0.64	
12	6.64	4.43	20.08	1.95	4.29	29.95	61.79	37.88	5.68	2.10	1.04	0.56	
13	6.64	4.22	11.30	1.80	6.08	21.40	59.69	30.85	5.13	1.95	1.04	0.52	
14	6.64	4.01	8.08	1.80	4.57	13.20	41.88	18.54	4.92	2.05	1.50	0.44	
15	6.56	3.38	6.32	1.75	3.80	16.00	26.80	17.77	4.57	2.35	3.94	0.36	
16	6.48	3.05	4.78	1.85	3.56	18.76	29.50	19.20	4.43	2.00	2.00	0.32	
17	6.16	2.95	6.08	1.80	7.12	19.86	26.24	14.20	4.29	1.80	2.60	0.28	
18	5.92	2.75	6.32	2.70	26.10	18.43	27.25	11.30	4.85	1.75	2.00	0.24	
19	5.76	2.60	8.00	6.40	29.95	13.50	36.28	16.10	4.92	1.70	1.50	0.28	
20	5.60	2.50	14.30	15.50	17.66	29.20	45.08	26.95	4.71	1.85	1.20	0.28	
21	5.28	3.44	10.82	25.54	5.84	39.00	43.10	25.96	4.50	1.70	1.08	0.24	
22	5.20	4.85	6.88	28.60	7.44	19.42	39.96	26.38	4.08	1.55	1.08	0.24	
23	5.13	6.00	5.52	17.66	6.80	11.70	38.20	31.60	3.68	1.40	1.04	0.24	
24	5.76	7.28	6.40	7.20	5.06	14.00	40.44	20.96	3.50	1.40	1.04	0.24	
25	6.88	5.68	5.20	5.92	3.68	15.60	47.00	17.11	3.38	1.30	1.04	0.24	
26	7.12	4.43	5.28	4.29	3.50	12.10	56.40	13.40	3.26	1.30	1.00	0.24	
27	7.04	3.74	4.85	4.36	4.64	14.80	59.48	11.20	3.10	1.25	1.00	0.24	
28	7.04	3.32	4.15	3.62	4.78	17.55	54.60	11.00	2.95	1.25	1.00	0.24	
29	7.04	3.15	3.50	3.10	8.24	12.80	50.60	12.30	2.95	1.20	1.00	0.24	
30	6.96	3.05	2.90	3.68	18.54	20.96	40.92	16.30	2.85	1.25		0.20	
31		3.00		3.20	36.92		36.12		2.80	1.35		0.20	
Total	194.09	128.17	430.60	167.52	233.62	685.33	1363.60	771.26	199.49	58.45	38.68	14.60	4285.41 CMSDAY
Mean	6.47	4.13	14.35	5.40	7.54	22.84	43.99	25.71	6.44	1.89	1.33	0.47	11.71 CMS
Max	7.20	7.28	43.82	28.60	36.92	52.40	65.08	46.60	17.99	2.65	3.94	1.00	65.08 CMS
Min	5.13	2.50	2.90	1.75	1.90	7.44	14.40	11.00	2.80	1.20	1.00	0.20	0.20 CMS
Runoff	16.77	11.07	37.20	14.47	20.18	59.21	117.82	66.64	17.24	5.05	3.34	1.26	370.26 MCM
Momentary Peak		66.18	CMS, at 15.19 m. (MSL), at 12.00 Hours, on Oct 6, 2019										
Runoff Yield		13.56	Liters/Second/Square KM.		Momentary Peak Yield	76.42	Liters/Second/Square KM.						

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Tapi River at Ban Khian Sa , Surat Thani (X.217)

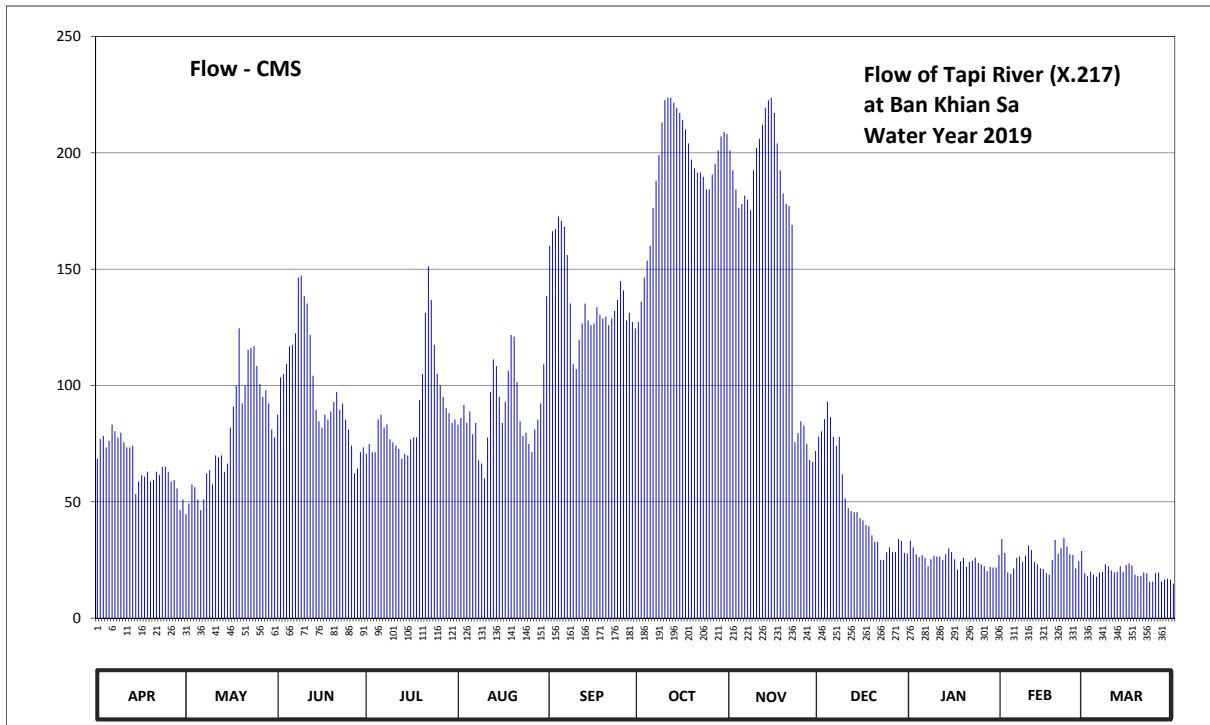
Lat 08 - 50 - 54 N Long 99 - 12 - 03 E

Location : on left bank at Ban Khian Sa.

	<b>Ban</b> Khian Sa	<b>Amphoe</b> Khian Sa	<b>Changwat</b> Surat Thani
<b>Drainage Area</b>	6,697 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+9.801 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2003 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.15	-0.23	0.42	0.18	0.36	1.40	0.99	1.85	1.46	0.73	0.75	0.31	
2	0.27	-0.15	0.65	0.24	0.40	1.47	1.10	1.76	1.49	0.66	0.60	0.27	
3	0.29	-0.01	0.67	0.19	0.48	1.48	1.23	1.67	1.55	0.58	0.32	0.33	
4	0.22	-0.03	0.73	0.19	0.37	1.54	1.32	1.58	1.63	0.54	0.30	0.29	
5	0.26	-0.12	0.84	0.39	0.44	1.52	1.40	1.60	1.56	0.57	0.38	0.26	
6	0.36	-0.20	0.85	0.42	0.30	1.49	1.58	1.64	1.46	0.53	0.53	0.32	
7	0.32	-0.12	0.92	0.34	0.37	1.35	1.71	1.62	1.41	0.41	0.55	0.33	
8	0.28	0.06	1.23	0.36	0.14	1.09	1.83	1.57	1.46	0.51	0.47	0.44	
9	0.31	0.08	1.24	0.27	0.12	0.73	1.97	1.76	1.25	0.56	0.56	0.41	
10	0.25	-0.01	1.13	0.25	0.03	0.70	2.06	1.86	1.09	0.55	0.68	0.35	
11	0.22	0.17	1.09	0.23	0.28	0.88	2.07	1.90	1.02	0.55	0.63	0.32	
12	0.22	0.16	0.91	0.21	0.56	0.98	2.07	1.96	1.00	0.50	0.47	0.33	
13	0.23	0.17	0.66	0.15	0.76	1.09	2.05	2.03	0.99	0.58	0.44	0.41	
14	-0.08	0.07	0.45	0.18	0.72	1.00	2.03	2.06	0.99	0.65	0.38	0.33	
15	0.01	0.12	0.38	0.17	0.53	0.97	2.01	2.07	0.94	0.61	0.37	0.43	
16	0.05	0.34	0.34	0.27	0.37	0.98	1.98	2.01	0.92	0.51	0.31	0.45	
17	0.04	0.47	0.42	0.28	0.50	1.07	1.94	1.88	0.88	0.36	0.29	0.42	
18	0.07	0.60	0.39	0.28	0.69	1.03	1.88	1.76	0.87	0.48	0.50	0.29	
19	0.01	0.95	0.44	0.51	0.91	1.01	1.81	1.65	0.79	0.53	0.74	0.27	
20	0.02	0.49	0.50	0.67	0.90	1.02	1.77	1.60	0.72	0.40	0.59	0.27	
21	0.07	0.60	0.56	1.04	0.62	0.97	1.75	1.59	0.72	0.47	0.65	0.32	
22	0.05	0.82	0.45	1.29	0.38	1.01	1.75	1.50	0.50	0.49	0.76	0.31	
23	0.10	0.83	0.49	1.11	0.29	1.05	1.73	1.43	0.50	0.53	0.67	0.19	
24	0.10	0.84	0.39	0.85	0.31	1.11	1.67	1.48	0.61	0.46	0.58	0.19	
25	0.07	0.72	0.33	0.67	0.24	1.21	1.67	1.54	0.66	0.44	0.57	0.31	
26	0.01	0.61	0.23	0.60	0.19	1.16	1.74	1.52	0.61	0.41	0.38	0.32	
27	0.02	0.53	0.06	0.53	0.33	1.00	1.79	1.42	0.61	0.34	0.48	0.19	
28	-0.04	0.57	0.09	0.46	0.39	1.04	1.85	1.33	0.75	0.40	0.62	0.22	
29	-0.20	0.49	0.19	0.43	0.49	0.99	1.91	1.32	0.73	0.39	0.42	0.23	
30	-0.12	0.33	0.22	0.37	0.73	0.95	1.93	1.38	0.60	0.39	0.29	0.22	
31		0.28		0.39	1.13		1.92		0.59	0.57		0.16	
Mean	0.12	0.30	0.58	0.44	0.46	1.11	1.76	1.68	0.98	0.51	0.52	0.31	
Max	0.36	0.95	1.24	1.29	1.13	1.54	2.07	2.07	1.63	0.73	0.76	0.45	2.07
Min	-0.20	-0.23	0.06	0.15	0.03	0.70	0.99	1.32	0.50	0.34	0.29	0.16	-0.23
Annual Max Momentary Gage Height	2.14	m. (MSL.) ,		at 18.00 Hours , on Nov 15, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed -4.89 m. (MSL.)									
Left Bank Elevation	3.71	m. (MSL.) ,											
Right Bank Elevation	4.03	m. (MSL.) ,		Drainage Are	6,697	Square Kilometers							



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	68.50	44.66	87.40	70.60	83.20	160.00	127.30	201.00	77.93	33.20	34.00	19.30		
2	76.90	49.30	103.50	74.80	86.00	166.30	136.00	192.40	80.23	30.40	28.00	18.10		
3	78.30	57.42	104.90	71.30	91.60	167.20	146.40	184.30	85.50	27.40	19.60	19.90		
4	73.40	56.26	109.10	71.30	83.90	172.60	153.60	176.20	93.00	26.20	19.00	18.70		
5	76.20	51.04	116.80	85.30	88.80	170.80	160.00	178.00	86.40	27.10	21.40	17.80		
6	83.20	46.40	117.50	87.40	79.00	168.10	176.20	181.60	77.93	25.90	25.90	19.60		
7	80.40	51.04	122.40	81.80	83.90	156.00	187.90	179.80	74.10	22.30	26.50	19.90		
8	77.60	62.20	146.40	83.20	67.80	135.20	199.00	175.30	77.93	25.30	24.10	23.20		
9	79.70	63.60	147.20	76.90	66.40	109.10	213.00	192.40	61.83	26.80	26.80	22.30		
10	75.50	57.42	138.40	75.50	60.10	107.00	222.60	202.00	51.40	26.50	31.20	20.50		
11	73.40	69.90	135.20	74.10	77.60	119.60	223.70	206.00	47.20	26.50	29.20	19.60		
12	73.40	69.20	121.70	72.70	97.20	126.60	223.70	212.00	46.00	25.00	24.10	19.90		
13	74.10	69.90	104.20	68.50	111.20	135.20	221.50	219.30	45.50	27.40	23.20	22.30		
14	53.36	62.90	89.50	70.60	108.40	128.00	219.30	222.60	45.50	30.00	21.40	19.90		
15	58.70	66.40	84.60	69.90	95.10	125.90	217.10	223.70	43.00	28.40	21.10	22.90		
16	61.50	81.80	81.80	76.90	83.90	126.60	214.00	217.10	42.00	25.30	19.30	23.50		
17	60.80	90.90	87.40	77.60	93.00	133.60	210.00	204.00	40.00	20.80	18.70	22.60		
18	62.90	100.00	85.30	77.60	106.30	130.40	204.00	192.40	39.50	24.40	25.00	18.70		
19	58.70	124.50	88.80	93.70	121.70	128.80	197.00	182.50	35.60	25.90	33.60	18.10		
20	59.40	92.30	93.00	104.90	121.00	129.60	193.30	178.00	32.80	22.00	27.70	18.10		
21	62.90	100.00	97.20	131.20	101.40	125.90	191.50	177.10	32.80	24.10	30.00	19.60		
22	61.50	115.40	89.50	151.20	84.60	128.80	191.50	169.00	25.00	24.70	34.40	19.30		
23	65.00	116.10	92.30	136.80	78.30	132.00	189.70	75.63	25.00	25.90	30.80	15.70		
24	65.00	116.80	85.30	117.50	79.70	136.80	184.30	79.47	28.40	23.80	27.40	15.70		
25	62.90	108.40	81.10	104.90	74.80	144.80	184.30	84.60	30.40	23.20	27.10	19.30		
26	58.70	100.70	74.10	100.00	71.30	140.80	190.60	82.80	28.40	22.30	21.40	19.60		
27	59.40	95.10	62.20	95.10	81.10	128.00	195.10	74.87	28.40	20.20	24.40	15.70		
28	55.68	97.90	64.30	90.20	85.30	131.20	201.00	67.97	34.00	22.00	28.80	16.60		
29	46.40	92.30	71.30	88.10	92.30	127.30	207.00	67.20	33.20	21.70	22.60	16.90		
30	51.04	81.10	73.40	83.90	109.10	124.50	209.00	71.80	28.00	21.70		16.60		
31		77.60		85.30	138.40		208.00		27.70	27.10		14.80		
Total	1994.48	2468.54	2955.80	2748.80	2802.40	4116.70	5997.60	4871.04	1504.65	783.50	746.70	594.70	31584.91	CMSDAY
Mean	66.48	79.63	98.53	88.67	90.40	137.22	193.47	162.37	48.54	25.27	25.75	19.18	86.30	CMS
Max	83.20	124.50	147.20	151.20	138.40	172.60	223.70	223.70	93.00	33.20	34.40	23.50	223.70	CMS
Min	46.40	44.66	62.20	68.50	60.10	107.00	127.30	67.20	25.00	20.20	18.70	14.80	14.80	CMS
Runoff	172.32	213.28	255.38	237.50	242.13	355.68	518.19	420.86	130.00	67.69	64.51	51.38	2728.94	MCM
Momentary Peak	231.40	CMS. at 2.14 m. (MSL.)					at 18.00 Hours , on Nov 15, 2019							
Runoff Yield	12.92	Liters/Second/Square KM.					Momentary Peak Yield	34.55	Liters/Second/Square KM.					

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Tapi River at Ban Khuan Klang (1) , Nakhon Si Thammarat (X.243)

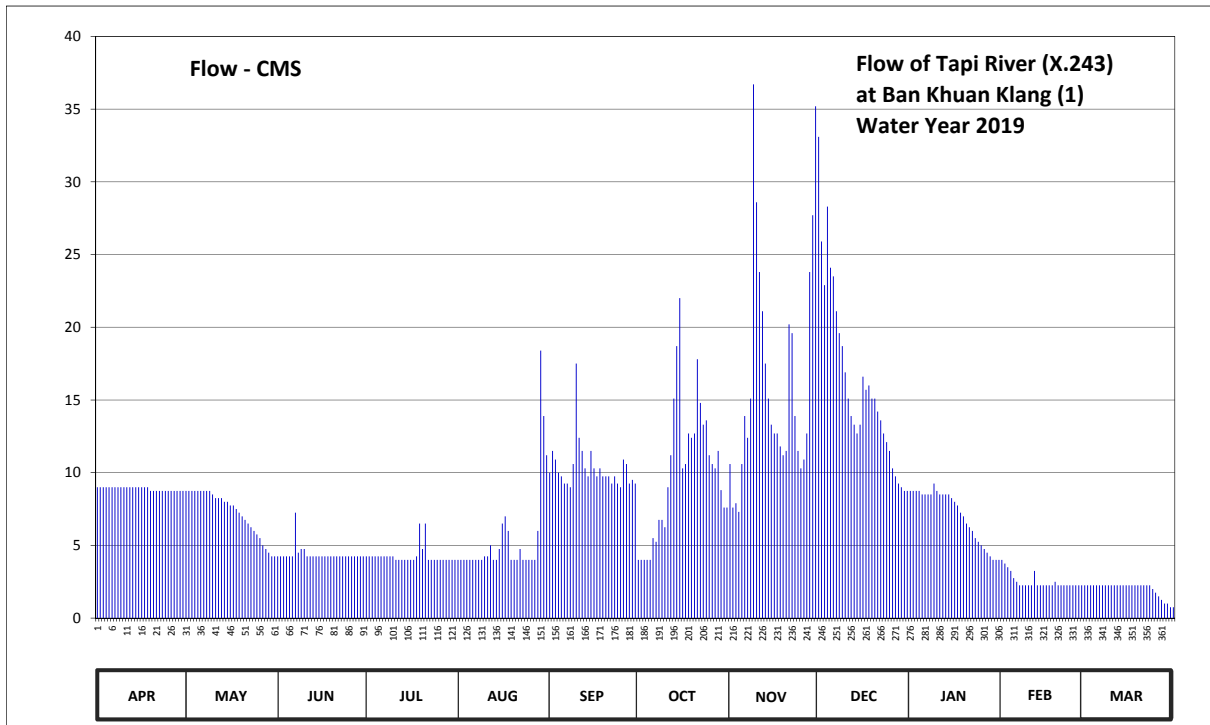
Lat 08 - 33 - 35 N Long 99 - 32 - 10 E

Location : on left bank at Ban Khuan Klang (1).

	<b>Ban</b>	<b>Khuan Klang (1)</b>	<b>Amphoe</b>	<b>Phi Pun</b>	<b>Changwat</b>	<b>Nakhon Si Thammarat</b>
<b>Drainage Area</b>	343	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank at the abutment of the bridge.				<b>Elevation</b>	- m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2006 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2006 to date					
<b>Stability of Channel Regimes</b>	Fairly stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.66	39.65	39.47	39.47	39.46	39.70	39.46	40.12	40.47	39.65	39.46	39.61	
2	39.66	39.65	39.47	39.47	39.46	39.75	39.46	40.02	40.23	39.65	39.45	39.60	
3	39.66	39.65	39.47	39.47	39.46	39.73	39.46	40.03	40.13	39.65	39.44	39.59	
4	39.66	39.65	39.47	39.47	39.46	39.70	39.46	40.01	40.31	39.65	39.43	39.58	
5	39.66	39.65	39.47	39.47	39.46	39.69	39.46	40.12	40.17	39.64	39.41	39.58	
6	39.66	39.65	39.47	39.47	39.46	39.67	39.52	40.23	40.15	39.64	39.40	39.58	
7	39.66	39.65	39.59	39.47	39.46	39.67	39.51	40.18	40.07	39.64	39.39	39.57	
8	39.66	39.65	39.48	39.47	39.46	39.66	39.57	40.27	40.02	39.64	39.39	39.57	
9	39.66	39.65	39.49	39.47	39.46	39.72	39.57	40.59	39.99	39.67	39.39	39.56	
10	39.66	39.65	39.49	39.47	39.47	39.95	39.55	40.32	39.93	39.65	39.39	39.56	
11	39.66	39.65	39.47	39.46	39.47	39.78	39.66	40.16	39.87	39.64	39.39	39.56	
12	39.66	39.65	39.47	39.46	39.50	39.75	39.74	40.07	39.83	39.64	39.65	39.54	
13	39.66	39.65	39.47	39.46	39.46	39.71	39.87	39.95	39.81	39.64	39.61	39.52	
14	39.66	39.65	39.47	39.46	39.46	39.69	39.99	39.87	39.79	39.64	39.61	39.52	
15	39.66	39.65	39.47	39.46	39.49	39.75	40.10	39.81	39.81	39.63	39.61	39.50	
16	39.66	39.65	39.47	39.46	39.56	39.71	40.11	39.79	39.92	39.62	39.61	39.50	
17	39.66	39.65	39.47	39.46	39.58	39.69	40.12	39.79	39.89	39.61	39.61	39.50	
18	39.66	39.65	39.47	39.47	39.54	39.71	40.19	39.76	39.90	39.59	39.61	39.50	
19	39.65	39.65	39.47	39.56	39.46	39.69	40.18	39.74	39.87	39.58	39.62	39.49	
20	39.65	39.65	39.47	39.49	39.46	39.69	40.19	39.75	39.87	39.56	39.61	39.47	
21	39.65	39.66	39.47	39.56	39.46	39.69	40.36	40.04	39.84	39.55	39.61	39.45	
22	39.65	39.65	39.47	39.46	39.49	39.67	40.26	40.02	39.82	39.54	39.61	39.43	
23	39.65	39.56	39.47	39.46	39.46	39.69	40.21	39.83	39.79	39.52	39.61	39.40	
24	39.65	39.54	39.47	39.46	39.46	39.67	40.22	39.75	39.77	39.51	39.61	39.38	
25	39.65	39.53	39.47	39.46	39.46	39.66	40.14	39.71	39.75	39.50	39.61	39.37	
26	39.65	39.52	39.47	39.46	39.46	39.73	40.12	39.73	39.71	39.49	39.61	39.36	
27	39.65	39.50	39.47	39.46	39.46	39.72	40.11	39.79	39.69	39.48	39.61	39.35	
28	39.65	39.49	39.47	39.46	39.54	39.67	40.15	40.16	39.67	39.47	39.61	39.34	
29	39.65	39.48	39.47	39.46	39.98	39.68	40.06	40.29	39.66	39.46	39.61	39.34	
30	39.65	39.47	39.47	39.46	39.83	39.67	40.02	40.54	39.65	39.46		39.33	
31		39.47		39.46	39.74		40.02		39.65	39.46		39.33	
Mean	39.66	39.61	39.48	39.47	39.51	39.71	39.90	40.01	39.90	39.58	39.54	39.48	
Max	39.66	39.66	39.59	39.56	39.98	39.95	40.36	40.59	40.47	39.67	39.65	39.61	40.59
Min	39.65	39.47	39.47	39.46	39.46	39.66	39.46	39.71	39.65	39.46	39.39	39.33	39.33
Annual Max Momentary Gage Height	40.88		m. (MSL.) ,				at 24.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	38.66	m. (MSL.)					
Left Bank Elevation		43.58		m. (MSL.) ,									
Right Bank Elevation		44.52		m. (MSL.) ,		Drainage Are	343	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.00	8.75	4.25	4.25	4.00	10.00	4.00	10.60	33.10	8.75	4.00	2.25	
2	9.00	8.75	4.25	4.25	4.00	11.50	4.00	7.60	25.90	8.75	3.75	2.25	
3	9.00	8.75	4.25	4.25	4.00	10.90	4.00	7.90	22.90	8.75	3.50	2.25	
4	9.00	8.75	4.25	4.25	4.00	10.00	4.00	7.30	28.30	8.75	3.25	2.25	
5	9.00	8.75	4.25	4.25	4.00	9.75	4.00	10.60	24.10	8.50	2.75	2.25	
6	9.00	8.75	4.25	4.25	4.00	9.25	5.50	13.90	23.50	8.50	2.50	2.25	
7	9.00	8.75	7.25	4.25	4.00	9.25	5.25	12.40	21.10	8.50	2.25	2.25	
8	9.00	8.75	4.50	4.25	4.00	9.00	6.75	15.10	19.60	8.50	2.25	2.25	
9	9.00	8.75	4.75	4.25	4.00	10.60	6.75	36.70	18.70	9.25	2.25	2.25	
10	9.00	8.50	4.75	4.25	4.25	17.50	6.25	28.60	16.90	8.75	2.25	2.25	
11	9.00	8.25	4.25	4.00	4.25	12.40	9.00	23.80	15.10	8.50	2.25	2.25	
12	9.00	8.25	4.25	4.00	5.00	11.50	11.20	21.10	13.90	8.50	3.25	2.25	
13	9.00	8.25	4.25	4.00	4.00	10.30	15.10	17.50	13.30	8.50	2.25	2.25	
14	9.00	8.00	4.25	4.00	4.00	9.75	18.70	15.10	12.70	8.50	2.25	2.25	
15	9.00	8.00	4.25	4.00	4.75	11.50	22.00	13.30	13.30	8.25	2.25	2.25	
16	9.00	7.75	4.25	4.00	6.50	10.30	10.30	12.70	16.60	8.00	2.25	2.25	
17	9.00	7.75	4.25	4.00	7.00	9.75	10.60	12.70	15.70	7.75	2.25	2.25	
18	9.00	7.50	4.25	4.25	6.00	10.30	12.70	11.80	16.00	7.25	2.25	2.25	
19	8.75	7.25	4.25	6.50	4.00	9.75	12.40	11.20	15.10	7.00	2.50	2.25	
20	8.75	7.00	4.25	4.75	4.00	9.75	12.70	11.50	15.10	6.50	2.25	2.25	
21	8.75	6.75	4.25	6.50	4.00	9.75	17.80	20.20	14.20	6.25	2.25	2.25	
22	8.75	6.50	4.25	4.00	4.75	9.25	14.80	19.60	13.60	6.00	2.25	2.25	
23	8.75	6.25	4.25	4.00	4.00	9.75	13.30	13.90	12.70	5.50	2.25	2.25	
24	8.75	6.00	4.25	4.00	4.00	9.25	13.60	11.50	12.10	5.25	2.25	2.00	
25	8.75	5.75	4.25	4.00	4.00	9.00	11.20	10.30	11.50	5.00	2.25	1.75	
26	8.75	5.50	4.25	4.00	4.00	10.90	10.60	10.90	10.30	4.75	2.25	1.50	
27	8.75	5.00	4.25	4.00	4.00	10.60	10.30	12.70	9.75	4.50	2.25	1.25	
28	8.75	4.75	4.25	4.00	6.00	9.25	11.50	23.80	9.25	4.25	2.25	1.00	
29	8.75	4.50	4.25	4.00	18.40	9.50	8.80	27.70	9.00	4.00	2.25	1.00	
30	8.75	4.25	4.25	4.00	13.90	9.25	7.60	35.20	8.75	4.00		0.75	
31		4.25		4.00	11.20		7.60		8.75	4.00		0.75	
<b>Total</b>	<b>267.00</b>	<b>224.75</b>	<b>131.75</b>	<b>132.50</b>	<b>168.00</b>	<b>309.55</b>	<b>312.30</b>	<b>487.20</b>	<b>500.80</b>	<b>219.25</b>	<b>72.75</b>	<b>61.75</b>	<b>2887.60</b> CMSDAY
<b>Mean</b>	<b>8.90</b>	<b>7.25</b>	<b>4.39</b>	<b>4.27</b>	<b>5.42</b>	<b>10.32</b>	<b>10.07</b>	<b>16.24</b>	<b>16.15</b>	<b>7.07</b>	<b>2.51</b>	<b>1.99</b>	<b>7.89</b> CMS
<b>Max</b>	<b>9.00</b>	<b>8.75</b>	<b>7.25</b>	<b>6.50</b>	<b>18.40</b>	<b>17.50</b>	<b>22.00</b>	<b>36.70</b>	<b>33.10</b>	<b>9.25</b>	<b>4.00</b>	<b>2.25</b>	<b>36.70</b> CMS
<b>Min</b>	<b>8.75</b>	<b>4.25</b>	<b>4.25</b>	<b>4.00</b>	<b>4.00</b>	<b>9.00</b>	<b>4.00</b>	<b>7.30</b>	<b>8.75</b>	<b>4.00</b>	<b>2.25</b>	<b>0.75</b>	<b>0.75</b> CMS
<b>Runoff</b>	<b>23.07</b>	<b>19.42</b>	<b>11.38</b>	<b>11.45</b>	<b>14.52</b>	<b>26.75</b>	<b>26.98</b>	<b>42.09</b>	<b>43.27</b>	<b>18.94</b>	<b>6.29</b>	<b>5.34</b>	<b>249.49</b> MCM
<b>Momentary Peak</b>	<b>48.20</b>	<b>CMS.</b>	<b>at 40.88 m. (MSL.)</b>	<b>at 24.00 Hours</b>	<b>on Nov 30, 2019</b>								
<b>Runoff Yield</b>	<b>23.04</b>	<b>Liters/Second/Square KM.</b>			<b>Momentary Peak Yield</b>	<b>140.38</b>	<b>Liters/Second/Square KM.</b>						



## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong I - Pan at Ban Mai , Surat Thani (X.258)

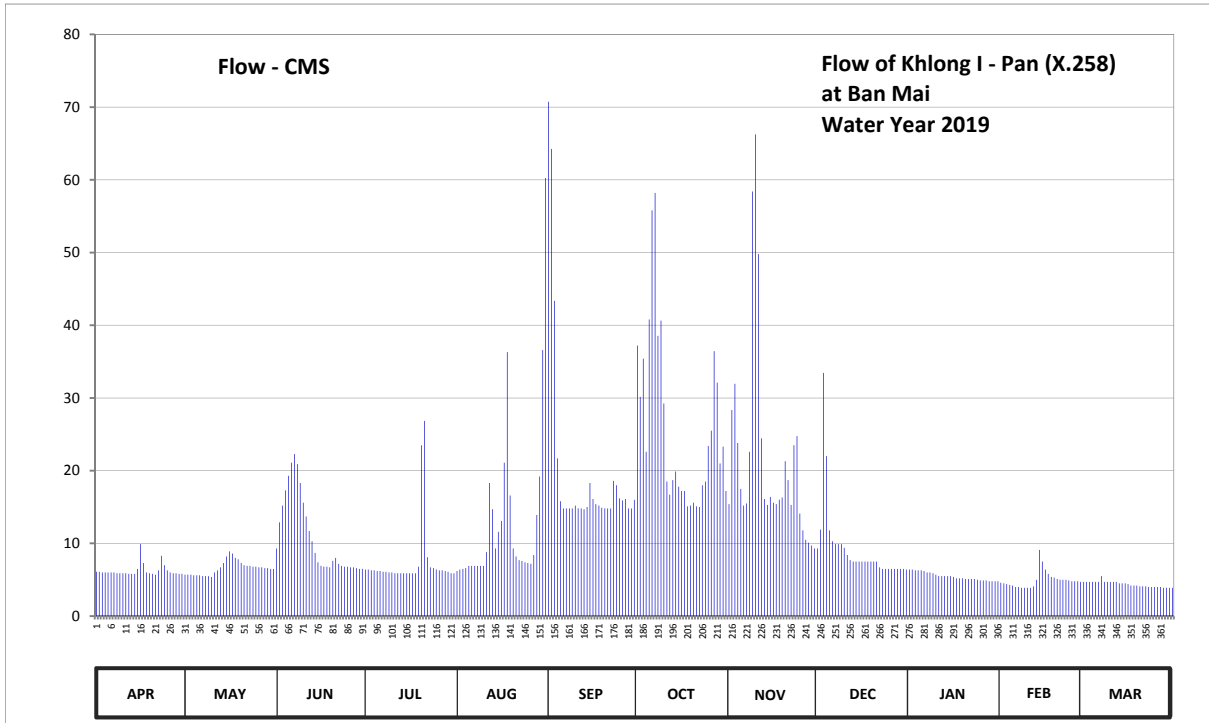
Lat 08 - 32 - 53 N Long 99 - 06 - 36 E

Location : on left bank at Ban Mai.

	<b>Ban Mai</b>	<b>Amphoe Phrasaeng</b>	<b>Changwat</b>	<b>Surat Thani</b>
<b>Drainage Area</b>	2,060	sq.km.		
<b>Type of Gage</b>	Water - stage recorder			
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.			
<b>Location BM</b>	On left bank downstream at the footpath		<b>Elevation</b>	+61.081 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording.			
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings			
<b>Period of Available Gage Records</b>	2007 to date			
<b>Rating Operation</b>				
<b>Period of Rating</b>	2007 to date			
<b>Rated by Flot</b>	-			
<b>Rated by Current Meter</b>	2007 to date			
<b>Stability of Channel Regimes</b>	Stable.			
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 54.830 m.(MSL.), records are channel flow only.			
<b>General Description</b>	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2019.			

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

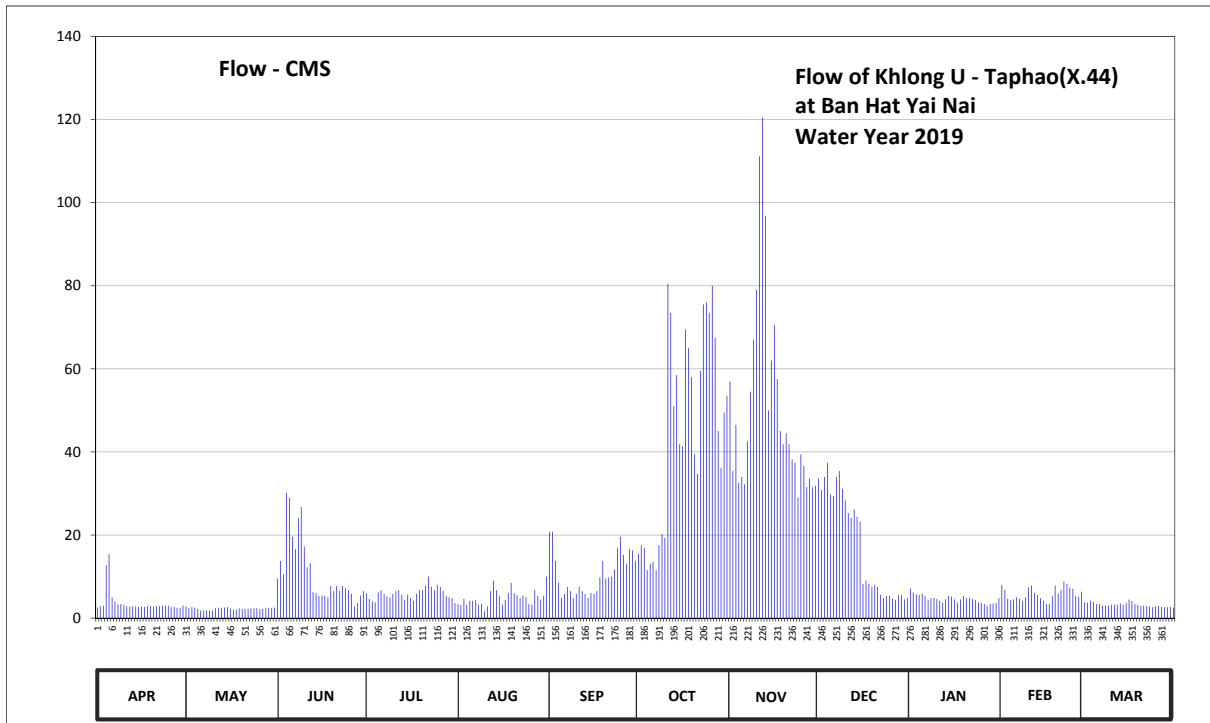
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.81	50.77	51.13	50.84	50.82	55.23	53.48	51.74	51.13	50.84	50.66	50.67	
2	50.81	50.77	51.49	50.84	50.84	54.97	53.01	52.89	51.39	50.84	50.65	50.67	
3	50.80	50.77	51.72	50.83	50.85	53.89	53.36	53.13	53.23	50.83	50.64	50.67	
4	50.80	50.76	51.93	50.83	50.86	52.37	52.46	52.58	52.40	50.83	50.63	50.67	
5	50.80	50.76	52.13	50.82	50.89	51.78	53.72	51.95	51.38	50.83	50.62	50.67	
6	50.80	50.76	52.31	50.82	50.89	51.68	54.59	51.72	51.23	50.82	50.60	50.67	
7	50.80	50.75	52.43	50.81	50.89	51.68	54.71	51.75	51.19	50.80	50.60	50.75	
8	50.79	50.75	52.29	50.81	50.89	51.68	53.57	52.46	51.19	50.80	50.59	50.67	
9	50.79	50.75	52.03	50.80	50.89	51.68	53.71	54.72	51.19	50.79	50.59	50.67	
10	50.79	50.74	51.76	50.80	50.89	51.72	52.95	55.05	51.14	50.77	50.59	50.67	
11	50.79	50.80	51.57	50.79	51.08	51.68	52.05	54.29	51.04	50.75	50.59	50.67	
12	50.78	50.83	51.37	50.79	52.03	51.68	51.87	52.63	50.97	50.75	50.61	50.67	
13	50.78	50.87	51.23	50.79	51.67	51.67	52.07	51.81	50.95	50.75	50.70	50.65	
14	50.78	50.93	51.07	50.79	51.13	51.70	52.19	51.73	50.95	50.75	51.11	50.65	
15	50.85	51.02	50.94	50.79	51.36	52.03	51.98	51.84	50.95	50.75	50.95	50.65	
16	51.19	51.09	50.89	50.79	51.51	51.81	51.92	51.76	50.95	50.74	50.84	50.64	
17	50.93	51.06	50.88	50.79	52.31	51.74	51.92	51.74	50.95	50.72	50.78	50.62	
18	50.80	51.00	50.88	50.79	53.42	51.72	51.71	51.80	50.95	50.72	50.74	50.62	
19	50.79	50.98	50.87	50.88	51.86	51.69	51.72	51.83	50.95	50.72	50.73	50.62	
20	50.78	50.93	50.96	52.55	51.13	51.68	51.76	52.33	50.95	50.71	50.71	50.61	
21	50.77	50.90	51.00	52.79	51.02	51.68	51.71	52.07	50.95	50.71	50.70	50.61	
22	50.83	50.89	50.92	51.01	50.97	51.68	51.70	51.73	50.87	50.71	50.70	50.61	
23	51.03	50.89	50.89	50.87	50.96	52.06	52.00	52.55	50.85	50.71	50.70	50.60	
24	50.90	50.88	50.88	50.86	50.94	52.00	52.05	52.65	50.85	50.70	50.69	50.60	
25	50.83	50.88	50.88	50.84	50.93	51.82	52.54	51.61	50.85	50.69	50.68	50.60	
26	50.80	50.87	50.87	50.83	50.92	51.79	52.70	51.38	50.85	50.69	50.68	50.60	
27	50.79	50.87	50.87	50.83	51.04	51.81	53.43	51.25	50.85	50.69	50.68	50.60	
28	50.79	50.86	50.86	50.82	51.59	51.68	53.14	51.21	50.85	50.68	50.67	50.59	
29	50.78	50.86	50.85	50.81	52.12	51.68	52.30	51.17	50.85	50.68	50.67	50.59	
30	50.78	50.85	50.85	50.79	53.44	51.80	52.53	51.13	50.85	50.68	50.68	50.59	
31		50.85		50.79	54.81		51.92		50.84	50.68		50.59	
Mean	50.83	50.86	51.29	50.94	51.45	52.07	52.61	52.22	51.11	50.75	50.69	50.64	
Max	51.19	51.09	52.43	52.79	54.81	55.23	54.71	55.05	53.23	50.84	51.11	50.75	55.23
Min	50.77	50.74	50.85	50.79	50.82	51.67	51.70	51.13	50.84	50.68	50.59	50.59	50.59
Annual Max Momentary Gage Height	55.28		m. (MSL.) ,				at 11.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	49.43	m. (MSL.)				
Left Bank Elevation		54.82		m. (MSL.) ,									
Right Bank Elevation		54.94		m. (MSL.) ,			Drainage Are	2,060	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.10	5.70	9.30	6.40	6.20	70.75	37.20	15.40	9.30	6.40	4.60	4.70		
2	6.10	5.70	12.90	6.40	6.40	64.25	30.15	28.35	11.90	6.40	4.50	4.70		
3	6.00	5.70	15.20	6.30	6.50	43.35	35.40	31.95	33.45	6.30	4.40	4.70		
4	6.00	5.60	17.30	6.30	6.60	21.70	22.60	23.80	22.00	6.30	4.30	4.70		
5	6.00	5.60	19.30	6.20	6.90	15.80	40.80	17.50	11.80	6.30	4.20	4.70		
6	6.00	5.60	21.10	6.20	6.90	14.80	55.80	15.20	10.30	6.20	4.00	4.70		
7	6.00	5.50	22.30	6.10	6.90	14.80	58.20	15.50	9.90	6.00	4.00	5.50		
8	5.90	5.50	20.90	6.10	6.90	14.80	38.55	22.60	9.90	6.00	3.90	4.70		
9	5.90	5.50	18.30	6.00	6.90	14.80	40.65	58.40	9.90	5.90	3.90	4.70		
10	5.90	5.40	15.60	6.00	6.90	15.20	29.25	66.25	9.40	5.70	3.90	4.70		
11	5.90	6.00	13.70	5.90	8.80	14.80	18.50	49.80	8.40	5.50	3.90	4.70		
12	5.80	6.30	11.70	5.90	18.30	14.80	16.70	24.45	7.70	5.50	4.10	4.70		
13	5.80	6.70	10.30	5.90	14.70	14.70	18.70	16.10	7.50	5.50	5.00	4.50		
14	5.80	7.30	8.70	5.90	9.30	15.00	19.90	15.30	7.50	5.50	9.10	4.50		
15	6.50	8.20	7.40	5.90	11.60	18.30	17.80	16.40	7.50	5.50	7.50	4.50		
16	9.90	8.90	6.90	5.90	13.10	16.10	17.20	15.60	7.50	5.40	6.40	4.40		
17	7.30	8.60	6.80	5.90	21.10	15.40	17.20	15.40	7.50	5.20	5.80	4.20		
18	6.00	8.00	6.80	5.90	36.30	15.20	15.10	16.00	7.50	5.20	5.40	4.20		
19	5.90	7.80	6.70	6.80	16.60	14.90	15.20	16.30	7.50	5.20	5.30	4.20		
20	5.80	7.30	7.60	23.50	9.30	14.80	15.60	21.30	7.50	5.10	5.10	4.10		
21	5.70	7.00	8.00	26.85	8.20	14.80	15.10	18.70	7.50	5.10	5.00	4.10		
22	6.30	6.90	7.20	8.10	7.70	14.80	15.00	15.30	6.70	5.10	5.00	4.10		
23	8.30	6.90	6.90	6.70	7.60	18.60	18.00	23.50	6.50	5.10	5.00	4.00		
24	7.00	6.80	6.80	6.60	7.40	18.00	18.50	24.75	6.50	5.00	4.90	4.00		
25	6.30	6.80	6.80	6.40	7.30	16.20	23.40	14.10	6.50	4.90	4.80	4.00		
26	6.00	6.70	6.70	6.30	7.20	15.90	25.50	11.80	6.50	4.90	4.80	4.00		
27	5.90	6.70	6.70	6.30	8.40	16.10	36.45	10.50	6.50	4.90	4.80	4.00		
28	5.90	6.60	6.60	6.20	13.90	14.80	32.10	10.10	6.50	4.80	4.70	3.90		
29	5.80	6.60	6.50	6.10	19.20	14.80	21.00	9.70	6.50	4.80	4.70	3.90		
30	5.80	6.50	6.50	5.90	36.60	16.00	23.30	9.30	6.50	4.80		3.90		
31		6.50		5.90	60.25		17.20		6.40	4.80		3.90		
<b>Total</b>	187.60	204.90	327.50	230.85	409.95	604.25	806.05	649.35	286.55	169.30	143.00	135.60	4154.90	CMSDAY
<b>Mean</b>	6.25	6.61	10.92	7.45	13.22	20.14	26.00	21.64	9.24	5.46	4.93	4.37	11.35	CMS
<b>Max</b>	9.90	8.90	22.30	26.85	60.25	70.75	58.20	66.25	33.45	6.40	9.10	5.50	70.75	CMS
<b>Min</b>	5.70	5.40	6.50	5.90	6.20	14.70	15.00	9.30	6.40	4.80	3.90	3.90	3.90	CMS
<b>Runoff</b>	16.21	17.70	28.30	19.95	35.42	52.21	69.64	56.10	24.76	14.63	12.36	11.72	358.98	MCM
<b>Momentary Peak</b>		72.00	CMS. at 55.28 m. (MSL.) at 11.00 Hours , on Sep 1 , 2019											
<b>Runoff Yield</b>		5.53	Liters/Second/Square KM. Momentary Peak Yield 34.95 Liters/Second/Square KM.											





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.55	2.80	9.50	6.00	3.40	20.80	15.50	57.00	33.60	7.10	8.00	3.80	
2	2.90	2.40	13.75	4.60	3.20	20.80	17.50	35.40	30.80	6.20	6.80	3.70	
3	3.00	2.65	10.50	4.00	4.60	13.75	16.90	46.50	33.95	5.75	4.60	4.20	
4	12.75	2.50	30.10	3.80	3.20	8.50	11.50	32.55	37.40	5.60	4.30	3.90	
5	15.40	2.20	29.05	6.25	4.20	4.80	13.00	33.95	29.75	5.90	4.50	3.40	
6	5.00	1.80	19.60	6.75	4.20	5.80	13.50	32.20	29.40	5.30	5.00	3.40	
7	4.00	1.90	16.60	5.80	4.40	7.50	11.50	42.60	33.95	4.30	4.70	3.00	
8	3.30	1.90	24.10	5.20	3.20	6.50	17.50	54.50	35.40	4.80	4.10	3.00	
9	3.40	1.80	26.80	5.00	3.40	4.80	20.20	67.00	31.15	4.90	5.00	2.95	
10	3.20	1.75	17.20	5.80	1.70	5.80	19.30	79.00	28.35	4.60	7.40	3.20	
11	2.85	2.40	12.25	6.50	2.80	7.50	80.50	111.15	25.30	4.20	7.85	3.20	
12	2.80	2.45	13.25	6.75	6.50	6.50	73.50	120.50	24.10	3.70	6.05	3.30	
13	2.80	2.55	6.25	5.60	9.00	5.80	51.00	96.85	26.20	4.50	5.60	3.50	
14	2.80	2.55	6.00	4.40	6.75	4.80	58.50	50.00	24.40	5.30	4.80	3.20	
15	2.70	2.65	5.40	5.60	5.40	6.00	41.80	62.00	23.20	5.15	4.20	3.70	
16	2.80	2.25	5.40	4.80	3.20	5.80	41.40	70.50	8.25	4.50	3.40	4.50	
17	2.75	2.05	5.40	4.20	4.40	6.50	69.50	57.50	9.00	3.70	3.40	4.10	
18	2.90	2.05	5.00	5.80	6.00	9.75	65.00	45.00	8.25	4.50	5.30	3.40	
19	2.90	2.35	7.75	6.75	8.50	13.75	58.00	41.80	7.55	5.30	7.85	3.20	
20	2.80	2.10	6.50	6.75	6.00	9.50	39.40	44.50	8.00	4.80	5.90	2.95	
21	2.90	2.15	7.75	7.75	5.60	9.75	34.65	41.80	7.55	4.90	6.80	3.00	
22	2.90	2.20	6.50	10.00	4.80	10.00	59.50	38.20	5.60	4.60	8.75	2.95	
23	3.00	2.30	7.75	7.50	5.40	11.75	75.50	37.40	4.80	4.40	8.25	2.80	
24	3.00	2.30	7.25	6.75	5.00	16.90	76.00	29.05	5.30	3.80	7.40	2.65	
25	3.00	2.40	6.75	8.00	3.40	19.60	73.50	39.40	5.30	3.70	7.10	2.90	
26	2.70	2.15	5.80	7.50	3.20	15.25	80.00	36.60	4.70	3.40	5.30	3.00	
27	2.70	2.20	2.80	6.50	6.75	13.00	67.50	31.50	4.40	2.95	5.15	2.65	
28	2.50	2.40	3.60	5.40	5.40	16.60	45.00	33.60	5.60	3.40	6.35	2.60	
29	2.45	2.50	5.40	5.00	4.40	16.30	36.20	31.50	5.45	3.50	4.90	2.60	
30	3.00	2.45	6.50	4.80	5.40	13.75	49.50	31.85	4.50	3.60		2.65	
31		2.55		3.60	10.00		53.50		4.90	4.80		2.50	
Total	111.75	70.70	330.50	183.15	153.40	317.85	1385.85	1531.40	546.10	143.15	168.75	99.90	5042.50 CMSDAY
Mean	3.73	2.28	11.02	5.91	4.95	10.60	44.70	51.05	17.62	4.62	5.82	3.22	13.78 CMS
Max	15.40	2.80	30.10	10.00	10.00	20.80	80.50	120.50	37.40	7.10	8.75	4.50	120.50 CMS
Min	2.45	1.75	2.80	3.60	1.70	4.80	11.50	29.05	4.40	2.95	3.40	2.50	1.70 CMS
Runoff	9.66	6.11	28.56	15.82	13.25	27.46	119.74	132.31	47.18	12.37	14.58	8.63	435.67 MCM
Momentary Peak		123.80 CMS.		at 2.76 m. (MSL.)		at 17.00 Hours		on Nov 12, 2019					
Runoff Yield		8.03		Liters/Second/Square KM.		Momentary Peak Yield	71.98		Liters/Second/Square KM.				

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)

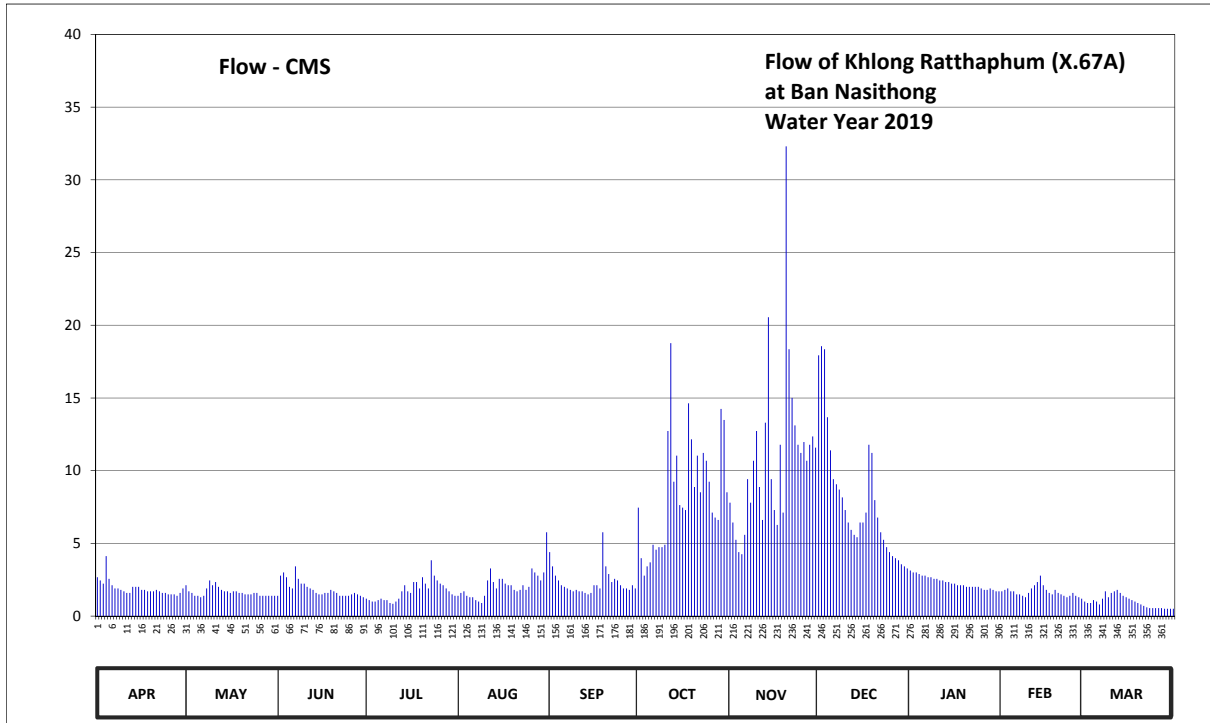
Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Nasithong.

	<b>Ban</b>	<b>Nasithong</b>	<b>Amphoe</b>	<b>Ratthaphum</b>	<b>Changwat</b>	<b>Songkhla</b>
<b>Drainage Area</b>	262	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000	m. (A.D.)				
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On right bank near the gage site.				<b>Elevation</b>	+5.845 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2006 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2006 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2019.					

## Gage Height in Meter (A.D.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.13	-0.18	-0.25	-0.27	-0.25	0.00	0.18	0.20	0.73	-0.09	-0.22	-0.29	
2	-0.15	-0.22	-0.12	-0.28	-0.23	-0.07	-0.03	0.12	0.76	-0.10	-0.21	-0.30	
3	-0.17	-0.23	-0.10	-0.29	-0.22	-0.12	-0.12	0.05	0.75	-0.10	-0.20	-0.30	
4	-0.02	-0.25	-0.13	-0.29	-0.25	-0.15	-0.07	0.00	0.52	-0.11	-0.22	-0.28	
5	-0.14	-0.25	-0.19	-0.28	-0.26	-0.18	-0.05	-0.01	0.40	-0.12	-0.22	-0.29	
6	-0.18	-0.26	-0.20	-0.27	-0.26	-0.19	0.03	0.07	0.29	-0.12	-0.24	-0.32	
7	-0.20	-0.25	-0.07	-0.28	-0.28	-0.20	0.01	0.29	0.27	-0.13	-0.24	-0.27	
8	-0.20	-0.20	-0.14	-0.28	-0.29	-0.21	0.02	0.20	0.25	-0.13	-0.25	-0.22	
9	-0.21	-0.15	-0.17	-0.30	-0.30	-0.22	0.02	0.36	0.22	-0.14	-0.26	-0.26	
10	-0.22	-0.18	-0.17	-0.31	-0.25	-0.21	0.03	0.47	0.17	-0.14	-0.23	-0.23	
11	-0.23	-0.16	-0.19	-0.29	-0.15	-0.22	0.47	0.26	0.12	-0.15	-0.20	-0.22	
12	-0.23	-0.19	-0.20	-0.27	-0.08	-0.22	0.77	0.13	0.09	-0.15	-0.18	-0.21	
13	-0.19	-0.21	-0.21	-0.22	-0.16	-0.23	0.28	0.50	0.07	-0.16	-0.16	-0.23	
14	-0.19	-0.22	-0.23	-0.18	-0.20	-0.24	0.38	0.85	0.06	-0.16	-0.12	-0.25	
15	-0.19	-0.22	-0.24	-0.22	-0.14	-0.23	0.19	0.29	0.12	-0.17	-0.18	-0.26	
16	-0.21	-0.23	-0.24	-0.23	-0.14	-0.18	0.18	0.17	0.12	-0.17	-0.21	-0.27	
17	-0.21	-0.22	-0.23	-0.16	-0.17	-0.18	0.17	0.11	0.16	-0.18	-0.23	-0.28	
18	-0.22	-0.22	-0.23	-0.16	-0.18	-0.20	0.57	0.42	0.42	-0.18	-0.24	-0.29	
19	-0.22	-0.23	-0.21	-0.20	-0.18	0.08	0.44	0.16	0.39	-0.18	-0.21	-0.30	
20	-0.22	-0.23	-0.22	-0.13	-0.21	-0.07	0.26	1.34	0.21	-0.19	-0.23	-0.32	
21	-0.21	-0.24	-0.23	-0.17	-0.22	-0.11	0.38	0.75	0.14	-0.19	-0.24	-0.34	
22	-0.22	-0.24	-0.25	-0.20	-0.21	-0.16	0.24	0.59	0.08	-0.19	-0.25	-0.36	
23	-0.23	-0.24	-0.25	-0.04	-0.18	-0.14	0.39	0.49	0.05	-0.19	-0.26	-0.37	
24	-0.23	-0.23	-0.25	-0.12	-0.21	-0.15	0.36	0.42	0.02	-0.19	-0.25	-0.37	
25	-0.24	-0.23	-0.25	-0.15	-0.19	-0.18	0.28	0.39	0.00	-0.20	-0.23	-0.37	
26	-0.24	-0.25	-0.24	-0.17	-0.08	-0.20	0.16	0.43	-0.02	-0.21	-0.25	-0.37	
27	-0.24	-0.25	-0.23	-0.18	-0.10	-0.20	0.14	0.36	-0.03	-0.21	-0.26	-0.37	
28	-0.25	-0.25	-0.24	-0.20	-0.12	-0.21	0.13	0.42	-0.04	-0.20	-0.27	-0.38	
29	-0.23	-0.25	-0.25	-0.22	-0.15	-0.18	0.55	0.45	-0.06	-0.21	-0.28	-0.38	
30	-0.20	-0.25	-0.26	-0.24	-0.10	-0.20	0.51	0.41	-0.07	-0.22	-0.28	-0.38	
31		-0.25		-0.25	0.08		0.24		-0.08	-0.22		-0.38	
Mean	-0.20	-0.23	-0.21	-0.22	-0.18	-0.17	0.23	0.36	0.20	-0.16	-0.23	-0.31	
Max	-0.02	-0.15	-0.07	-0.04	0.08	0.08	0.77	1.34	0.76	-0.09	-0.12	-0.21	1.34
Min	-0.25	-0.26	-0.26	-0.31	-0.30	-0.24	-0.12	-0.01	-0.08	-0.22	-0.28	-0.38	-0.38
Annual Max Momentary Gage Height	1.81		m. (A.D.) ,				at 11.00 Hours ,						on Nov 20, 2019
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,				River Bed -0.87		m. (A.D.)				
Left Bank Elevation	6.28		m. (A.D.) ,										
Right Bank Elevation	6.29		m. (A.D.) ,				Drainage Are	262	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.67	2.12	1.40	1.20	1.40	4.40	7.46	7.80	17.93	3.14	1.70	1.00	
2	2.45	1.70	2.78	1.10	1.60	3.42	3.98	6.44	18.56	3.00	1.80	0.90	
3	2.23	1.60	3.00	1.00	1.70	2.78	2.78	5.25	18.35	3.00	1.90	0.90	
4	4.12	1.40	2.67	1.00	1.40	2.45	3.42	4.40	13.68	2.89	1.70	1.10	
5	2.56	1.40	2.01	1.10	1.30	2.12	3.70	4.26	11.40	2.78	1.70	1.00	
6	2.12	1.30	1.90	1.20	1.30	2.01	4.91	5.59	9.42	2.78	1.50	0.80	
7	1.90	1.40	3.42	1.10	1.10	1.90	4.57	9.42	9.06	2.67	1.50	1.20	
8	1.90	1.90	2.56	1.10	1.00	1.80	4.74	7.80	8.70	2.67	1.40	1.70	
9	1.80	2.45	2.23	0.90	0.90	1.70	4.74	10.68	8.16	2.56	1.30	1.30	
10	1.70	2.12	2.23	0.85	1.40	1.80	4.91	12.73	7.29	2.56	1.60	1.60	
11	1.60	2.34	2.01	1.00	2.45	1.70	12.73	8.88	6.44	2.45	1.90	1.70	
12	1.60	2.01	1.90	1.20	3.28	1.70	18.77	6.61	5.93	2.45	2.12	1.80	
13	2.01	1.80	1.80	1.70	2.34	1.60	9.24	13.30	5.59	2.34	2.34	1.60	
14	2.01	1.70	1.60	2.12	1.90	1.50	11.04	20.55	5.42	2.34	2.78	1.40	
15	2.01	1.70	1.50	1.70	2.56	1.60	7.63	9.42	6.44	2.23	2.12	1.30	
16	1.80	1.60	1.50	1.60	2.56	2.12	7.46	7.29	6.44	2.23	1.80	1.20	
17	1.80	1.70	1.60	2.34	2.23	2.12	7.29	6.27	7.12	2.12	1.60	1.10	
18	1.70	1.70	1.60	2.34	2.12	1.90	14.63	11.78	11.78	2.12	1.50	1.00	
19	1.70	1.60	1.80	1.90	2.12	5.76	12.16	7.12	11.22	2.12	1.80	0.90	
20	1.70	1.60	1.70	2.67	1.80	3.42	8.88	32.30	7.98	2.01	1.60	0.80	
21	1.80	1.50	1.60	2.23	1.70	2.89	11.04	18.35	6.78	2.01	1.50	0.70	
22	1.70	1.50	1.40	1.90	1.80	2.34	8.52	15.01	5.76	2.01	1.40	0.60	
23	1.60	1.50	1.40	3.84	2.12	2.56	11.22	13.11	5.25	2.01	1.30	0.55	
24	1.60	1.60	1.40	2.78	1.80	2.45	10.68	11.78	4.74	2.01	1.40	0.55	
25	1.50	1.60	1.40	2.45	2.01	2.12	9.24	11.22	4.40	1.90	1.60	0.55	
26	1.50	1.40	1.50	2.23	3.28	1.90	7.12	11.97	4.12	1.80	1.40	0.55	
27	1.50	1.40	1.60	2.12	3.00	1.90	6.78	10.68	3.98	1.80	1.30	0.55	
28	1.40	1.40	1.50	1.90	2.78	1.80	6.61	11.78	3.84	1.90	1.20	0.50	
29	1.60	1.40	1.40	1.70	2.45	2.12	14.25	12.35	3.56	1.80	1.10	0.50	
30	1.90	1.40	1.30	1.50	3.00	1.90	13.49	11.59	3.42	1.70		0.50	
31		1.40		1.40	5.76		8.52		3.28	1.70		0.50	
<b>Total</b>	57.48	51.24	55.71	53.17	66.16	69.78	262.51	325.73	246.04	71.10	47.86	30.35	1337.13 CMSDAY
<b>Mean</b>	1.92	1.65	1.86	1.72	2.13	2.33	8.47	10.86	7.94	2.29	1.65	0.98	3.65 CMS
<b>Max</b>	4.12	2.45	3.42	3.84	5.76	5.76	18.77	32.30	18.56	3.14	2.78	1.80	32.30 CMS
<b>Min</b>	1.40	1.30	1.30	0.85	0.90	1.50	2.78	4.26	3.28	1.70	1.10	0.50	0.50 CMS
<b>Runoff</b>	4.97	4.43	4.81	4.59	5.72	6.03	22.68	28.14	21.26	6.14	4.14	2.62	115.53 MCM
<b>Momentary Peak</b>	44.69	CMS.	CMS.	at 1.81 m. (A.D.)	at 11.00 Hours ,	on Nov 20, 2019							
<b>Runoff Yield</b>	13.98	Liters/Second/Square KM.					Momentary Peak Yield	170.57	Liters/Second/Square KM.				

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Tha Khae</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	302	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the gage observer's house.				<b>Elevation</b>	+15.966 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1967 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1967 - 1972 , 1983 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1967 - 1972 , 1983 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Flow regulated by Tha Khae Weir. Stage-discharge relation defined by 20 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.39	13.32	13.35	13.25	13.14	13.91	13.40	14.11	13.94	14.08	13.92	13.76	
2	13.40	13.34	13.31	13.25	13.22	13.82	13.41	14.12	14.09	13.97	13.93	13.70	
3	13.38	13.34	13.29	13.23	13.28	13.30	13.38	14.10	14.13	14.04	13.91	13.70	
4	13.41	13.34	13.23	13.25	13.26	13.60	13.39	14.09	13.99	14.04	13.86	13.69	
5	13.49	13.32	13.27	13.25	13.40	13.59	13.42	14.13	14.03	14.03	13.83	13.68	
6	13.51	13.32	13.46	13.24	13.28	13.49	13.46	14.10	14.05	13.79	13.83	13.68	
7	13.39	13.32	13.42	13.23	13.23	13.39	13.51	14.06	14.04	13.90	13.83	13.67	
8	13.38	13.31	13.33	13.24	13.28	13.37	13.65	14.08	14.05	14.01	13.86	13.66	
9	13.39	13.32	13.35	13.35	13.12	13.36	13.84	14.16	14.08	13.87	13.88	13.63	
10	13.40	13.33	13.52	13.28	13.09	13.38	14.15	14.04	14.09	13.97	14.00	13.47	
11	13.40	13.34	13.44	13.29	13.12	13.50	14.08	14.08	14.11	13.96	14.05	13.61	
12	13.40	13.35	13.47	13.31	13.39	13.41	14.11	14.09	14.12	13.91	14.08	13.47	
13	13.41	13.50	13.37	13.36	13.19	13.40	13.95	13.86	14.09	13.66	14.11	13.29	
14	13.38	13.45	13.37	13.34	13.41	13.22	13.93	13.70	14.13	13.68	14.18	13.26	
15	13.33	13.36	13.40	13.36	13.15	13.12	13.84	13.74	14.18	13.95	14.09	13.27	
16	13.33	13.41	13.39	13.34	13.14	13.16	13.82	13.83	14.29	13.88	13.93	13.33	
17	13.34	13.55	13.36	13.34	13.59	13.19	13.87	13.83	14.28	13.62	13.70	13.31	
18	13.34	13.46	13.29	13.42	13.37	13.31	14.13	13.88	14.36	13.64	14.01	13.23	
19	13.34	13.37	13.14	13.44	13.48	13.53	14.11	13.95	14.37	13.69	14.09	13.33	
20	13.33	13.37	13.34	13.46	13.34	13.45	14.10	14.01	14.28	13.97	14.07	13.33	
21	13.31	13.36	13.35	13.39	13.22	13.37	14.23	14.08	14.24	13.98	14.01	13.24	
22	13.32	13.29	13.27	13.33	13.11	13.33	14.24	14.03	14.21	13.99	13.97	13.20	
23	13.32	13.46	13.20	13.13	13.20	13.71	14.25	14.11	14.20	13.98	13.93	13.21	
24	13.31	13.38	13.24	13.11	13.38	13.60	14.17	14.17	14.19	13.98	13.80	13.20	
25	13.31	13.37	13.25	13.15	13.37	13.56	14.12	14.24	14.20	14.00	13.83	13.33	
26	13.32	13.36	13.25	13.33	13.67	13.97	14.09	14.26	14.20	14.01	13.85	13.35	
27	13.31	13.35	13.26	13.33	13.59	13.88	14.19	14.25	14.06	14.01	13.84	13.20	
28	13.30	13.46	13.26	13.23	13.38	13.70	14.06	14.06	14.24	13.97	13.84	13.18	
29	13.29	13.35	13.25	13.11	13.49	13.64	14.07	13.95	13.96	13.91	13.83	13.18	
30	13.30	13.31	13.25	13.22	13.53	13.56	14.09	13.92	14.21	13.91	13.91	13.18	
31		13.36		13.22	13.96		14.11		13.95	13.91		13.18	
Mean	13.36	13.37	13.32	13.28	13.33	13.49	13.91	14.03	14.14	13.91	13.93	13.40	
Max	13.51	13.55	13.52	13.46	13.96	13.97	14.25	14.26	14.37	14.08	14.18	13.76	14.37
Min	13.29	13.29	13.14	13.11	13.09	13.12	13.38	13.70	13.94	13.62	13.70	13.18	13.09
Annual Max Momentary Gage Height	14.62	m. (MSL.) ,		at 12.00 Hours , on Oct 10, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed		11.68	m. (MSL.)						
Left Bank Elevation		15.60	m. (MSL.) ,										
Right Bank Elevation		16.25	m. (MSL.) ,		Drainage Are	302	Square Kilometers						





**WATER YEAR : 2019****THALE SAP SONGKHLA****Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)**

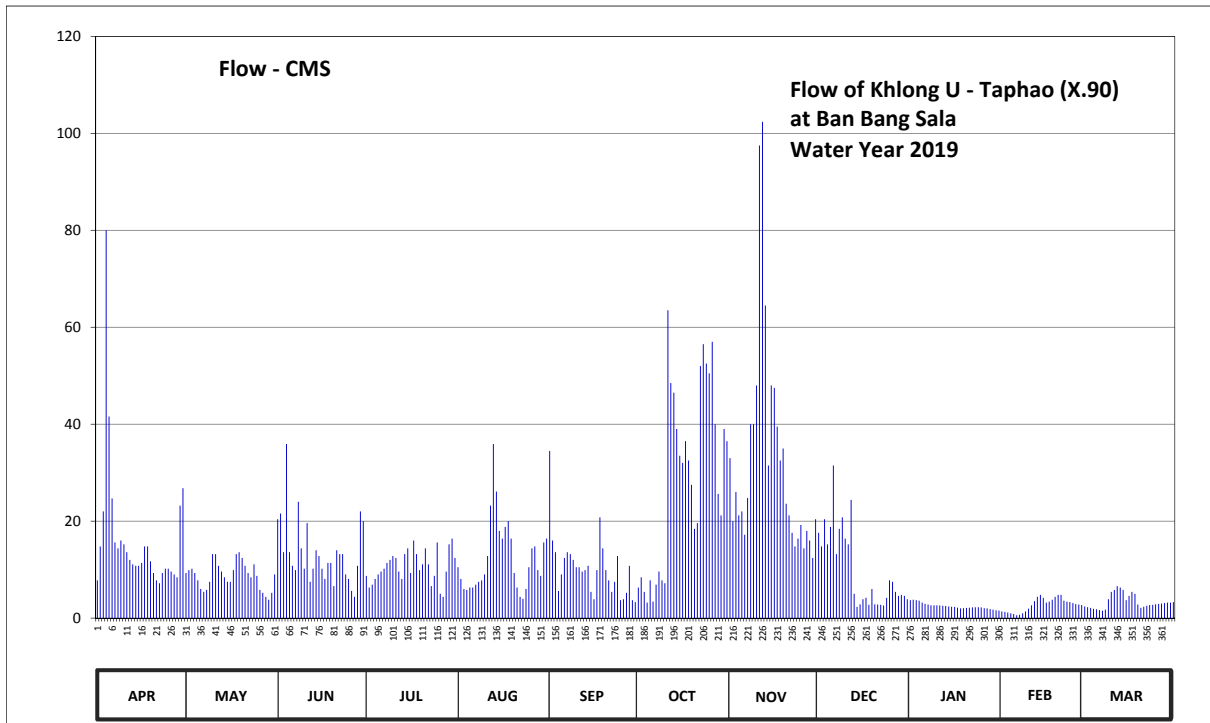
Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	<b>Ban</b>	Bang Sala	<b>Amphoe</b>	Khlong Hoi Khong	<b>Changwat</b>	Songkhla
<b>Drainage Area</b>	1,547	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 20 meters from the top staff gage.				<b>Elevation</b>	+11.201 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1971 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1971 - 1972 , 1979 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1971 - 1972 , 1979 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.76	2.81	3.11	2.79	2.85	3.35	2.71	2.94	2.59	2.57	2.18	2.38	
2	2.97	2.83	3.14	2.71	2.77	3.00	2.78	2.65	2.52	2.58	2.16	2.35	
3	3.15	2.84	2.94	2.73	2.70	2.94	2.67	2.80	2.66	2.57	2.13	2.32	
4	3.80	2.81	3.37	2.77	2.69	2.68	2.52	2.68	2.53	2.56	2.10	2.28	
5	3.44	2.76	2.94	2.80	2.71	2.80	2.76	2.70	2.62	2.52	2.07	2.26	
6	3.21	2.70	2.86	2.82	2.71	2.91	2.54	2.58	2.91	2.49	2.02	2.23	
7	2.99	2.67	2.83	2.84	2.73	2.94	2.73	2.77	2.48	2.46	2.04	2.20	
8	2.96	2.69	3.20	2.88	2.75	2.93	2.82	3.08	2.61	2.43	2.10	2.25	
9	3.00	2.75	2.96	2.90	2.76	2.90	2.76	3.08	2.67	2.43	2.18	2.59	
10	2.98	2.93	2.84	2.92	2.80	2.85	2.74	3.24	2.56	2.43	2.29	2.67	
11	2.94	2.93	3.09	2.91	2.92	2.85	3.55	4.05	2.53	2.42	2.43	2.69	
12	2.90	2.86	2.75	2.82	3.18	2.82	3.25	4.12	2.76	2.41	2.55	2.72	
13	2.87	2.82	2.84	2.77	3.37	2.83	3.21	3.57	2.65	2.40	2.62	2.71	
14	2.86	2.78	2.95	2.93	3.23	2.86	3.06	2.91	2.36	2.38	2.64	2.69	
15	2.86	2.75	2.92	2.96	3.05	2.67	2.95	3.24	2.47	2.37	2.61	2.57	
16	2.88	2.75	2.84	2.81	3.01	2.59	2.92	3.23	2.59	2.36	2.52	2.63	
17	2.97	2.83	2.77	3.00	3.07	2.83	3.01	3.07	2.61	2.33	2.54	2.67	
18	2.97	2.93	2.88	2.93	3.10	3.12	2.93	2.93	2.45	2.30	2.58	2.65	
19	2.89	2.94	2.88	2.83	3.01	2.96	2.83	2.98	2.70	2.31	2.62	2.46	
20	2.81	2.91	2.72	2.87	2.81	2.83	2.61	2.74	2.47	2.32	2.64	2.32	
21	2.76	2.86	2.95	2.96	2.71	2.76	2.64	2.68	2.46	2.33	2.64	2.37	
22	2.74	2.81	2.93	2.87	2.62	2.67	3.32	2.59	2.45	2.34	2.56	2.41	
23	2.81	2.78	2.93	2.72	2.60	2.75	3.41	2.52	2.42	2.35	2.54	2.44	
24	2.84	2.87	2.80	2.79	2.70	2.92	3.33	2.56	2.61	2.35	2.53	2.45	
25	2.84	2.79	2.77	2.99	2.85	2.57	3.29	2.63	2.76	2.34	2.51	2.47	
26	2.82	2.69	2.68	2.65	2.96	2.59	3.42	2.51	2.75	2.31	2.48	2.49	
27	2.80	2.66	2.62	2.62	2.97	2.66	3.08	2.60	2.67	2.30	2.46	2.50	
28	2.78	2.62	2.86	2.82	2.83	2.86	2.79	2.55	2.63	2.27	2.44	2.51	
29	3.18	2.58	3.15	2.98	2.79	2.57	2.68	2.46	2.64	2.25	2.41	2.52	
30	3.24	2.66	3.10	3.01	2.99	2.53	3.06	2.66	2.63	2.22	2.22	2.52	
31		2.80		2.91	3.01		3.01		2.59	2.21		2.53	
Mean	2.97	2.79	2.92	2.85	2.88	2.82	2.95	2.90	2.59	2.38	2.40	2.48	
Max	3.80	2.94	3.37	3.01	3.37	3.35	3.55	4.12	2.91	2.58	2.64	2.72	4.12
Min	2.74	2.58	2.62	2.62	2.60	2.53	2.52	2.46	2.36	2.21	2.02	2.20	2.02
Annual Max Momentary Gage Height	4.26		m. (MSL.) ,				at 19.00 Hours ,						on Nov 11, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -0.92						m. (MSL.)
Left Bank Elevation		9.53		m. (MSL.) ,									
Right Bank Elevation		9.10		m. (MSL.) ,			Drainage Are	1,547					Square Kilometers



APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	9.30	20.40	8.70	10.50	34.50	6.30	33.00	17.60	3.70	1.40	2.40	
2	14.80	9.90	21.60	6.30	8.10	16.00	8.40	20.00	14.80	3.80	1.30	2.25	
3	22.00	10.20	13.60	6.90	6.00	13.60	5.40	26.00	20.40	3.70	1.15	2.10	
4	80.00	9.30	35.90	8.10	5.80	5.60	3.20	21.20	15.20	3.60	1.00	1.90	
5	41.60	7.80	13.60	9.00	6.30	9.00	7.80	22.00	18.80	3.20	0.85	1.80	
6	24.70	6.00	10.80	9.60	6.30	12.40	3.40	17.20	31.50	2.95	0.60	1.65	
7	15.60	5.40	9.90	10.20	6.90	13.60	6.90	24.80	13.20	2.80	0.70	1.50	
8	14.40	5.80	24.00	11.40	7.50	13.20	9.60	40.00	18.40	2.65	1.00	1.75	
9	16.00	7.50	14.40	12.00	7.80	12.00	7.80	40.00	20.80	2.65	1.40	3.90	
10	15.20	13.20	10.20	12.80	9.00	10.50	7.20	48.00	16.40	2.65	1.95	5.40	
11	13.60	13.20	19.60	12.40	12.80	10.50	63.50	97.50	15.20	2.60	2.65	5.80	
12	12.00	10.80	7.50	9.60	23.20	9.60	48.50	102.40	24.40	2.55	3.50	6.60	
13	11.10	9.60	10.20	8.10	35.90	9.90	46.50	64.50	5.00	2.50	4.40	6.30	
14	10.80	8.40	14.00	13.20	26.10	10.80	39.00	31.50	2.30	2.40	4.80	5.80	
15	10.80	7.50	12.80	14.40	18.00	5.40	33.50	48.00	2.85	2.35	4.20	3.70	
16	11.40	7.50	10.20	9.30	16.40	3.90	32.00	47.50	3.90	2.30	3.20	4.60	
17	14.80	9.90	8.10	16.00	18.80	9.90	36.50	39.50	4.20	2.15	3.40	5.40	
18	14.80	13.20	11.40	13.20	20.00	20.80	32.50	32.50	2.75	2.00	3.80	5.00	
19	11.70	13.60	11.40	9.90	16.40	14.40	27.50	35.00	6.00	2.05	4.40	2.80	
20	9.30	12.40	6.60	11.10	9.30	9.90	18.40	23.60	2.85	2.10	4.80	2.10	
21	7.80	10.80	14.00	14.40	6.30	7.80	19.60	21.20	2.80	2.15	4.80	2.35	
22	7.20	9.30	13.20	11.10	4.40	5.40	52.00	17.60	2.75	2.20	3.60	2.55	
23	9.30	8.40	13.20	6.60	4.00	7.50	56.50	14.80	2.60	2.25	3.40	2.70	
24	10.20	11.10	9.00	8.70	6.00	12.80	52.50	16.40	4.20	2.25	3.30	2.75	
25	10.20	8.70	8.10	15.60	10.50	3.70	50.50	19.20	7.80	2.20	3.10	2.85	
26	9.60	5.80	5.60	5.00	14.40	3.90	57.00	14.40	7.50	2.05	2.90	2.95	
27	9.00	5.20	4.40	4.40	14.80	5.20	40.00	18.00	5.40	2.00	2.80	3.00	
28	8.40	4.40	10.80	9.60	9.90	10.80	25.60	16.00	4.60	1.85	2.70	3.10	
29	23.20	3.80	22.00	15.20	8.70	3.70	21.20	12.40	4.80	1.75	2.55	3.20	
30	26.80	5.20	20.00	16.40	15.60	3.30	39.00	20.40	4.60	1.60		3.20	
31		9.00		12.40	16.40		36.50		3.90	1.55		3.30	
Total	494.10	272.20	406.50	331.60	382.10	309.60	894.30	984.60	307.50	76.55	79.65	104.70	4643.40 CMSDAY
Mean	16.47	8.78	13.55	10.70	12.33	10.32	28.85	32.82	9.92	2.47	2.75	3.38	12.69 CMS
Max	80.00	13.60	35.90	16.40	35.90	34.50	63.50	102.40	31.50	3.80	4.80	6.60	102.40 CMS
Min	7.20	3.80	4.40	4.40	4.00	3.30	3.20	12.40	2.30	1.55	0.60	1.50	0.60 CMS
Runoff	42.69	23.52	35.12	28.65	33.01	26.75	77.27	85.07	26.57	6.61	6.88	9.05	401.19 MCM
Momentary Peak		112.80 CMS.											at 4.26 m. (MSL.) at 19.00 Hours , on Nov 11, 2019
Runoff Yield		8.22											Liters/Second/Square KM. Momentary Peak Yield 72.92 Liters/Second/Square KM.

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Bang Kaeo at Ban Khuan In No Mo , Phutthalung (X.109)

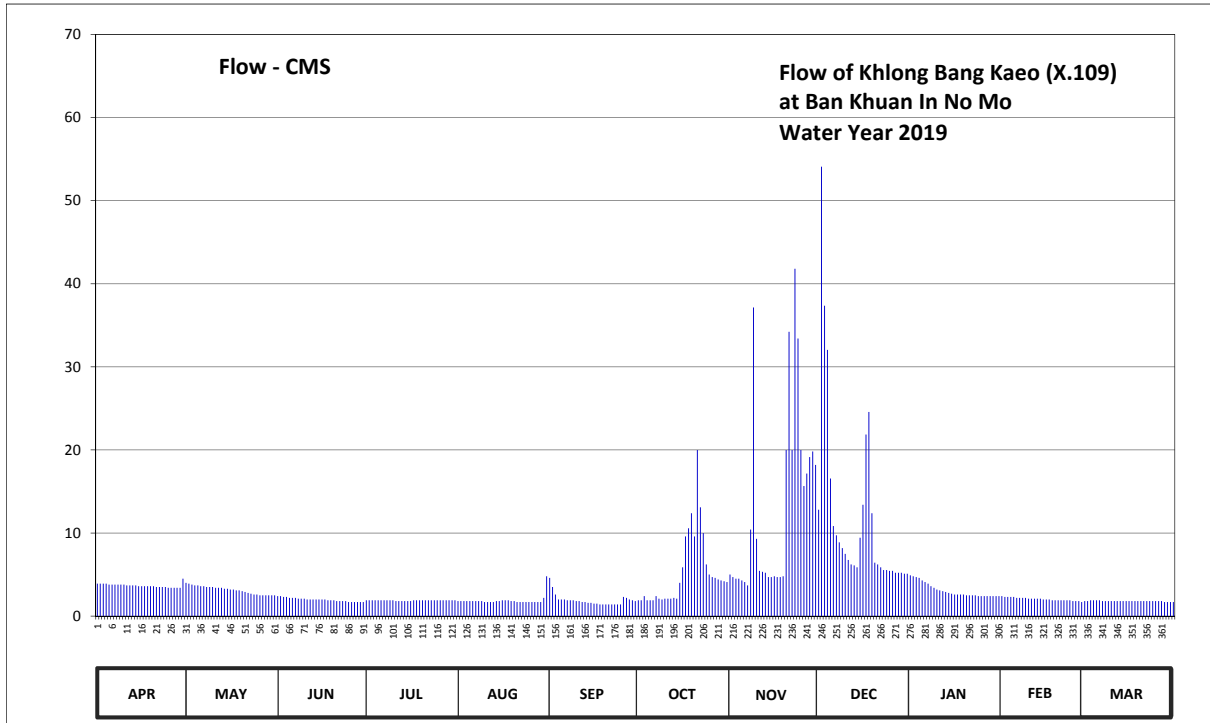
Lat 07 - 20 - 29 N Long 100 - 03 - 35 E

Location : on left bank at Ban Khuan In No Mo.

	<b>Ban</b>	<b>Khuan In No Mo</b>	<b>Amphoe</b>	<b>Ta Mot</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	131	sq.km.				
<b>Type of Gage</b>	Staff gage					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the Meteorological Station.				<b>Elevation</b>	+32.764 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 5 readings					
<b>Period of Available Gage Records</b>	1979 to date.					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979 to date.					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1979 to date.					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.29	26.30	26.14	26.09	26.08	26.36	26.09	26.40	27.00	26.39	26.14	26.08	
2	26.29	26.29	26.14	26.09	26.08	26.25	26.09	26.37	29.04	26.38	26.13	26.08	
3	26.29	26.28	26.13	26.09	26.08	26.16	26.14	26.35	28.36	26.37	26.13	26.09	
4	26.29	26.27	26.13	26.09	26.08	26.10	26.09	26.35	28.10	26.36	26.13	26.09	
5	26.28	26.27	26.12	26.09	26.08	26.10	26.09	26.33	27.25	26.33	26.13	26.09	
6	26.28	26.26	26.12	26.09	26.08	26.10	26.09	26.31	26.86	26.31	26.12	26.09	
7	26.28	26.26	26.12	26.09	26.08	26.09	26.14	26.27	26.78	26.29	26.12	26.08	
8	26.28	26.25	26.11	26.09	26.08	26.09	26.11	26.83	26.72	26.26	26.12	26.08	
9	26.28	26.25	26.11	26.09	26.08	26.09	26.10	28.35	26.67	26.24	26.12	26.08	
10	26.28	26.25	26.11	26.09	26.07	26.08	26.11	26.75	26.62	26.22	26.11	26.08	
11	26.27	26.24	26.10	26.08	26.07	26.08	26.11	26.44	26.56	26.21	26.11	26.08	
12	26.27	26.24	26.10	26.08	26.07	26.07	26.11	26.43	26.51	26.20	26.11	26.08	
13	26.27	26.24	26.10	26.08	26.07	26.07	26.12	26.42	26.50	26.19	26.11	26.08	
14	26.27	26.23	26.10	26.08	26.08	26.06	26.11	26.37	26.48	26.18	26.11	26.08	
15	26.26	26.23	26.10	26.08	26.08	26.06	26.30	26.37	26.76	26.17	26.10	26.08	
16	26.26	26.22	26.10	26.08	26.09	26.05	26.48	26.38	27.04	26.16	26.10	26.08	
17	26.26	26.22	26.10	26.09	26.09	26.05	26.77	26.37	27.58	26.16	26.10	26.08	
18	26.26	26.21	26.09	26.09	26.09	26.04	26.84	26.37	27.72	26.16	26.09	26.08	
19	26.26	26.21	26.09	26.09	26.08	26.04	26.97	26.38	26.97	26.16	26.09	26.08	
20	26.26	26.20	26.09	26.09	26.08	26.04	26.77	27.47	26.53	26.15	26.09	26.08	
21	26.25	26.19	26.08	26.09	26.07	26.04	27.47	28.21	26.51	26.15	26.09	26.08	
22	26.25	26.18	26.08	26.09	26.07	26.04	27.02	27.47	26.48	26.15	26.09	26.08	
23	26.25	26.17	26.08	26.09	26.07	26.04	26.80	28.55	26.45	26.15	26.09	26.08	
24	26.25	26.16	26.08	26.09	26.07	26.04	26.51	28.17	26.45	26.14	26.09	26.08	
25	26.24	26.16	26.07	26.09	26.07	26.04	26.40	27.47	26.44	26.14	26.08	26.08	
26	26.24	26.15	26.07	26.09	26.07	26.13	26.37	27.19	26.44	26.14	26.08	26.08	
27	26.24	26.15	26.07	26.09	26.07	26.12	26.36	27.29	26.42	26.14	26.08	26.08	
28	26.24	26.15	26.07	26.09	26.07	26.10	26.34	27.42	26.42	26.14	26.07	26.07	
29	26.24	26.15	26.07	26.09	26.07	26.09	26.33	27.46	26.42	26.14	26.07	26.07	
30	26.35	26.15	26.07	26.09	26.12	26.08	26.32	27.36	26.41	26.14		26.07	
31		26.15		26.09	26.38		26.31		26.41	26.14		26.07	
Mean	26.27	26.22	26.10	26.09	26.09	26.09	26.38	26.93	26.87	26.21	26.10	26.08	
Max	26.35	26.30	26.14	26.09	26.38	26.36	27.47	28.55	29.04	26.39	26.14	26.09	29.04
Min	26.24	26.15	26.07	26.08	26.07	26.04	26.09	26.27	26.41	26.14	26.07	26.07	26.04
Annual Max Momentary Gage Height	29.25		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	25.68	m. (MSL.)					
Left Bank Elevation		30.79		m. (MSL.) ,									
Right Bank Elevation		33.13		m. (MSL.) ,		Drainage Are	131	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.90	4.00	2.40	1.90	1.80	4.60	1.90	5.00	12.80	4.90	2.40	1.80	
2	3.90	3.90	2.40	1.90	1.80	3.50	1.90	4.70	54.08	4.80	2.30	1.80	
3	3.90	3.80	2.30	1.90	1.80	2.60	2.40	4.50	37.36	4.70	2.30	1.90	
4	3.90	3.70	2.30	1.90	1.80	2.00	1.90	4.50	32.03	4.60	2.30	1.90	
5	3.80	3.70	2.20	1.90	1.80	2.00	1.90	4.30	16.55	4.30	2.30	1.90	
6	3.80	3.60	2.20	1.90	1.80	2.00	1.90	4.10	10.84	4.10	2.20	1.90	
7	3.80	3.60	2.20	1.90	1.80	1.90	2.40	3.70	9.72	3.90	2.20	1.80	
8	3.80	3.50	2.10	1.90	1.80	1.90	2.10	10.42	8.88	3.60	2.20	1.80	
9	3.80	3.50	2.10	1.90	1.80	1.90	2.00	37.15	8.18	3.40	2.20	1.80	
10	3.80	3.50	2.10	1.90	1.70	1.80	2.10	9.30	7.48	3.20	2.10	1.80	
11	3.70	3.40	2.00	1.80	1.70	1.80	2.10	5.44	6.76	3.10	2.10	1.80	
12	3.70	3.40	2.00	1.80	1.70	1.70	2.10	5.33	6.21	3.00	2.10	1.80	
13	3.70	3.40	2.00	1.80	1.70	1.70	2.20	5.22	6.10	2.90	2.10	1.80	
14	3.70	3.30	2.00	1.80	1.80	1.60	2.10	4.70	5.88	2.80	2.10	1.80	
15	3.60	3.30	2.00	1.80	1.80	1.60	4.00	4.70	9.44	2.70	2.00	1.80	
16	3.60	3.20	2.00	1.80	1.90	1.50	5.88	4.80	13.40	2.60	2.00	1.80	
17	3.60	3.20	2.00	1.90	1.90	1.50	9.58	4.70	21.86	2.60	2.00	1.80	
18	3.60	3.10	1.90	1.90	1.90	1.40	10.56	4.70	24.56	2.60	1.90	1.80	
19	3.60	3.10	1.90	1.90	1.80	1.40	12.38	4.80	12.38	2.60	1.90	1.80	
20	3.60	3.00	1.90	1.90	1.80	1.40	9.58	19.99	6.43	2.50	1.90	1.80	
21	3.50	2.90	1.80	1.90	1.70	1.40	19.99	34.21	6.21	2.50	1.90	1.80	
22	3.50	2.80	1.80	1.90	1.70	1.40	13.10	19.99	5.88	2.50	1.90	1.80	
23	3.50	2.70	1.80	1.90	1.70	1.40	10.00	41.80	5.55	2.50	1.90	1.80	
24	3.50	2.60	1.80	1.90	1.70	1.40	6.21	33.41	5.55	2.40	1.90	1.80	
25	3.40	2.60	1.70	1.90	1.70	1.40	5.00	19.99	5.44	2.40	1.80	1.80	
26	3.40	2.50	1.70	1.90	1.70	2.30	4.70	15.65	5.44	2.40	1.80	1.80	
27	3.40	2.50	1.70	1.90	1.70	2.20	4.60	17.15	5.22	2.40	1.80	1.80	
28	3.40	2.50	1.70	1.90	1.70	2.00	4.40	19.14	5.22	2.40	1.70	1.70	
29	3.40	2.50	1.70	1.90	1.70	1.90	4.30	19.82	5.22	2.40	1.70	1.70	
30	4.50	2.50	1.70	1.90	2.20	1.80	4.20	18.20	5.11	2.40		1.70	
31		2.50		1.90	4.80		4.10		5.11	2.40		1.70	
<b>Total</b>	<b>110.30</b>	<b>97.80</b>	<b>59.40</b>	<b>58.30</b>	<b>58.20</b>	<b>57.00</b>	<b>161.58</b>	<b>391.41</b>	<b>370.89</b>	<b>95.60</b>	<b>59.00</b>	<b>55.80</b>	<b>1575.28</b> CMSDAY
<b>Mean</b>	<b>3.68</b>	<b>3.15</b>	<b>1.98</b>	<b>1.88</b>	<b>1.88</b>	<b>1.90</b>	<b>5.21</b>	<b>13.05</b>	<b>11.96</b>	<b>3.08</b>	<b>2.03</b>	<b>1.80</b>	<b>4.30</b> CMS
<b>Max</b>	<b>4.50</b>	<b>4.00</b>	<b>2.40</b>	<b>1.90</b>	<b>4.80</b>	<b>4.60</b>	<b>19.99</b>	<b>41.80</b>	<b>54.08</b>	<b>4.90</b>	<b>2.40</b>	<b>1.90</b>	<b>54.08</b> CMS
<b>Min</b>	<b>3.40</b>	<b>2.50</b>	<b>1.70</b>	<b>1.80</b>	<b>1.70</b>	<b>1.40</b>	<b>1.90</b>	<b>3.70</b>	<b>5.11</b>	<b>2.40</b>	<b>1.70</b>	<b>1.40</b>	<b>1.40</b> CMS
<b>Runoff</b>	<b>9.53</b>	<b>8.45</b>	<b>5.13</b>	<b>5.04</b>	<b>5.03</b>	<b>4.92</b>	<b>13.96</b>	<b>33.82</b>	<b>32.04</b>	<b>8.26</b>	<b>5.10</b>	<b>4.82</b>	<b>136.10</b> MCM
<b>Momentary Peak</b>		<b>59.85</b> CMS.	<b>at 29.25 m. (MSL.) at 09.00 Hours , on Dec 2, 2019</b>										
<b>Runoff Yield</b>		<b>32.96</b>	<b>Liters/Second/Square KM.</b>		<b>Momentary Peak Yield</b>	<b>457.01</b>	<b>Liters/Second/Square KM.</b>						

## WATER YEAR : 2019

## THALE SAP SONGKHLA

Khlong U - Taphao at Ban Takian Pao , Songkhla (X.112)

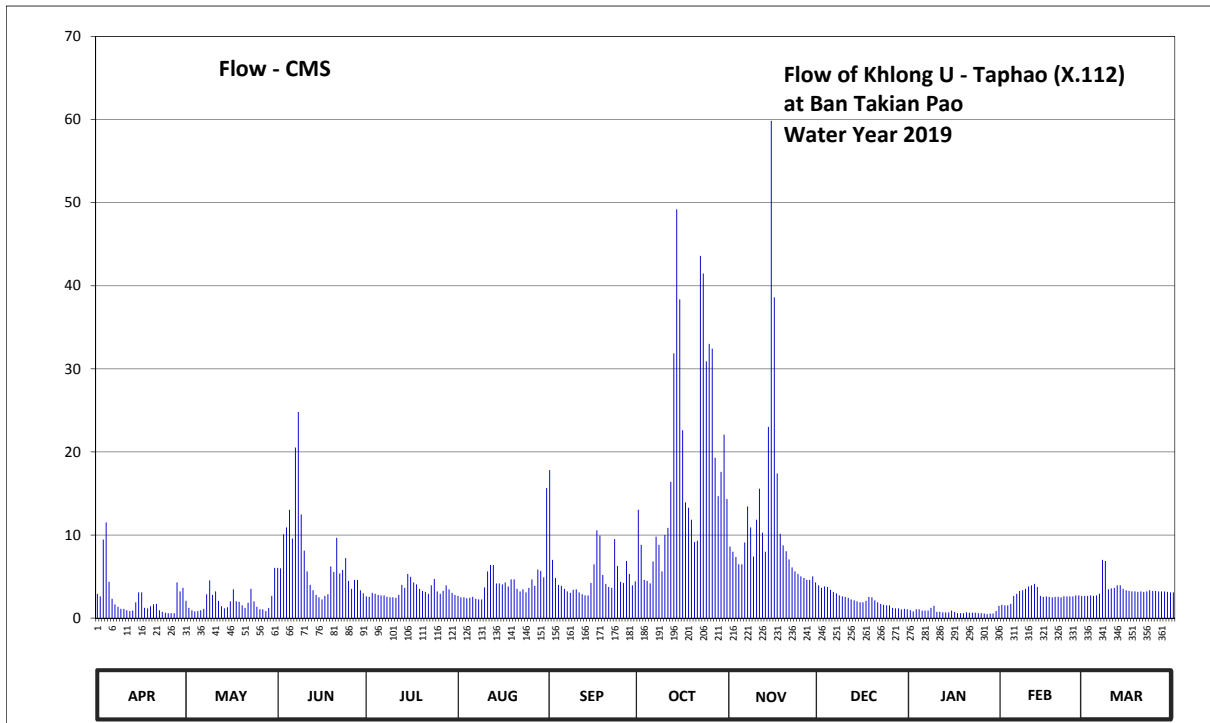
Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

Location : on right bank at Ban Takian Pao.

	<b>Ban</b>	Takian Pao	<b>Amphoe</b>	Sadao	<b>Changwat</b>	Songkhla
<b>Drainage Area</b>	493	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	Near the top staff gage.				<b>Elevation</b>	+24.515 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1979 - 1996 , 2006 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	1979 - 1996 , 2006 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	1979 - 1996 , 2006 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.92	20.78	21.44	20.87	20.88	22.96	22.43	21.83	21.09	20.59	20.70	20.88	
2	20.87	20.64	21.43	20.86	20.85	21.60	21.86	21.74	21.04	20.56	20.69	20.88	
3	21.95	20.59	22.04	20.94	20.85	21.24	21.20	21.65	21.07	20.61	20.69	20.89	
4	22.24	20.56	22.16	20.92	20.83	21.10	21.18	21.51	21.06	20.61	20.72	20.88	
5	21.16	20.57	22.43	20.90	20.84	21.08	21.13	21.51	21.00	20.58	20.88	20.89	
6	20.82	20.59	21.97	20.89	20.86	21.02	21.57	21.90	20.96	20.58	20.92	20.92	
7	20.71	20.62	23.21	20.89	20.82	20.97	22.00	22.48	20.93	20.58	20.98	21.60	
8	20.66	20.91	23.52	20.86	20.81	20.94	21.86	22.16	20.89	20.64	20.99	21.58	
9	20.62	21.19	22.36	20.85	20.81	21.00	21.37	21.66	20.87	20.68	21.02	21.01	
10	20.62	20.90	21.76	20.85	21.05	21.01	22.03	22.28	20.86	20.55	21.07	21.03	
11	20.59	20.97	21.37	20.84	21.37	20.95	22.15	22.73	20.84	20.55	21.09	21.04	
12	20.57	20.78	21.10	20.90	21.50	20.91	22.82	22.07	20.81	20.54	21.12	21.09	
13	20.58	20.67	20.99	21.10	21.50	20.89	23.94	21.74	20.79	20.54	21.06	21.09	
14	20.75	20.63	20.90	21.04	21.13	20.89	24.64	23.40	20.77	20.54	20.88	21.02	
15	20.95	20.65	20.85	21.32	21.13	21.14	24.24	24.94	20.75	20.58	20.86	20.99	
16	20.95	20.77	20.81	21.26	21.11	21.51	23.37	24.25	20.75	20.55	20.87	20.98	
17	20.64	21.01	20.88	21.15	21.15	22.11	22.54	22.92	20.78	20.52	20.86	20.97	
18	20.63	20.77	20.91	21.11	21.07	22.02	22.46	22.05	20.86	20.52	20.85	20.97	
19	20.67	20.76	21.47	21.02	21.21	21.30	22.28	21.85	20.85	20.52	20.86	20.96	
20	20.71	20.69	21.36	20.98	21.21	21.12	21.91	21.75	20.79	20.54	20.86	20.97	
21	20.72	20.64	21.98	20.96	21.02	21.06	21.93	21.61	20.75	20.53	20.85	20.96	
22	20.59	20.74	21.33	20.92	20.97	21.04	24.45	21.45	20.72	20.53	20.87	20.97	
23	20.55	21.02	21.40	21.09	21.01	21.96	24.37	21.37	20.70	20.53	20.87	20.99	
24	20.53	20.77	21.63	21.22	20.95	21.48	23.89	21.32	20.69	20.52	20.87	20.98	
25	20.52	20.66	21.18	20.97	21.04	21.16	24.00	21.27	20.69	20.52	20.87	20.98	
26	20.52	20.61	21.02	20.92	21.21	21.14	23.97	21.24	20.64	20.51	20.89	20.97	
27	20.52	20.61	21.20	20.98	21.08	21.58	23.10	21.20	20.63	20.50	20.89	20.97	
28	21.15	20.57	21.20	21.09	21.41	21.32	22.63	21.20	20.63	20.51	20.88	20.97	
29	20.97	20.64	20.99	21.01	21.38	21.09	22.94	21.27	20.61	20.51	20.88	20.96	
30	21.04	20.88	20.93	20.94	21.25	21.17	23.33	21.15	20.62	20.57	20.88	20.95	
31		21.44		20.90	22.74		22.59		20.61	20.68		20.95	
Mean	20.82	20.76	21.53	20.99	21.13	21.29	22.72	21.98	20.81	20.56	20.89	21.01	
Max	22.24	21.44	23.52	21.32	22.74	22.96	24.64	24.94	21.09	20.68	21.12	21.60	24.94
Min	20.52	20.56	20.81	20.84	20.81	20.89	21.13	21.15	20.61	20.50	20.69	20.88	20.50
Annual Max Momentary Gage Height	25.05		m. (MSL.) ,				at 05.00 Hours ,	on Nov 15, 2019					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	19.98	m. (MSL.)				
Left Bank Elevation		25.80		m. (MSL.) ,									
Right Bank Elevation		25.05		m. (MSL.) ,			Drainage Are	493	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.92	2.08	6.04	2.62	2.68	17.80	13.04	8.61	3.94	0.95	1.60	2.68	
2	2.62	1.24	5.98	2.56	2.50	7.00	8.82	7.98	3.64	0.80	1.54	2.68	
3	9.45	0.95	10.08	3.04	2.50	4.84	4.60	7.35	3.82	1.06	1.54	2.74	
4	11.52	0.80	10.92	2.92	2.38	4.00	4.48	6.46	3.76	1.06	1.72	2.68	
5	4.36	0.85	13.04	2.80	2.44	3.88	4.18	6.46	3.40	0.90	2.68	2.74	
6	2.32	0.95	9.59	2.74	2.56	3.52	6.82	9.10	3.16	0.90	2.92	2.92	
7	1.66	1.12	20.53	2.74	2.32	3.22	9.80	13.44	2.98	0.90	3.28	7.00	
8	1.36	2.86	24.80	2.56	2.26	3.04	8.82	10.92	2.74	1.24	3.34	6.88	
9	1.12	4.54	12.48	2.50	2.26	3.40	5.62	7.42	2.62	1.48	3.52	3.46	
10	1.12	2.80	8.12	2.50	3.70	3.46	10.01	11.84	2.56	0.75	3.82	3.58	
11	0.95	3.22	5.62	2.44	5.62	3.10	10.85	15.57	2.44	0.75	3.94	3.64	
12	0.85	2.08	4.00	2.80	6.40	2.86	16.40	10.29	2.26	0.70	4.12	3.94	
13	0.90	1.42	3.34	4.00	6.40	2.74	31.86	7.98	2.14	0.70	3.76	3.94	
14	1.90	1.18	2.80	3.64	4.18	2.74	49.20	23.00	2.02	0.70	2.68	3.52	
15	3.10	1.30	2.50	5.32	4.18	4.24	38.36	59.84	1.90	0.90	2.56	3.34	
16	3.10	2.02	2.26	4.96	4.06	6.46	22.61	38.60	1.90	0.75	2.62	3.28	
17	1.24	3.46	2.68	4.30	4.30	10.57	13.92	17.40	2.08	0.60	2.56	3.22	
18	1.18	2.02	2.86	4.06	3.82	9.94	13.28	10.15	2.56	0.60	2.50	3.22	
19	1.42	1.96	6.22	3.52	4.66	5.20	11.84	8.75	2.50	0.60	2.56	3.16	
20	1.66	1.54	5.56	3.28	4.66	4.12	9.17	8.05	2.14	0.70	2.56	3.22	
21	1.72	1.24	9.66	3.16	3.52	3.76	9.31	7.07	1.90	0.65	2.50	3.16	
22	0.95	1.84	5.38	2.92	3.22	3.64	43.60	6.10	1.72	0.65	2.62	3.22	
23	0.75	3.52	5.80	3.94	3.46	9.52	41.48	5.62	1.60	0.65	2.62	3.34	
24	0.65	2.02	7.21	4.72	3.10	6.28	30.91	5.32	1.54	0.60	2.62	3.28	
25	0.60	1.36	4.48	3.22	3.64	4.36	33.00	5.02	1.54	0.60	2.62	3.28	
26	0.60	1.06	3.52	2.92	4.66	4.24	32.43	4.84	1.24	0.55	2.74	3.22	
27	0.60	1.06	4.60	3.28	3.88	6.88	19.30	4.60	1.18	0.50	2.74	3.22	
28	4.30	0.85	4.60	3.94	5.86	5.32	14.67	4.60	1.18	0.55	2.68	3.22	
29	3.22	1.24	3.34	3.46	5.68	3.94	17.60	5.02	1.06	0.55	2.68	3.16	
30	3.64	2.68	2.98	3.04	4.90	4.42	22.09	4.30	1.12	0.85		3.10	
31		6.04		2.80	15.66		14.32		1.06	1.48		3.10	
Total	71.78	61.30	210.99	102.70	131.46	158.49	572.39	341.70	69.70	24.67	79.64	107.14	1931.96 CMSDAY
Mean	2.39	1.98	7.03	3.31	4.24	5.28	18.46	11.39	2.25	0.80	2.75	3.46	5.28 CMS
Max	11.52	6.04	24.80	5.32	15.66	17.80	49.20	59.84	3.94	1.48	4.12	7.00	59.84 CMS
Min	0.60	0.80	2.26	2.44	2.26	2.74	4.18	4.30	1.06	0.50	1.54	2.68	0.50 CMS
Runoff	6.20	5.30	18.23	8.87	11.36	13.69	49.45	29.52	6.02	2.13	6.88	9.26	166.92 MCM
Momentary Peak	64.25 CMS. at 25.05 m. (MSL.) at 05.00 Hours , on Nov 15, 2019												
Runoff Yield	10.74 Liters/Second/Square KM.			Momentary Peak Yield			130.32 Liters/Second/Square KM.						

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

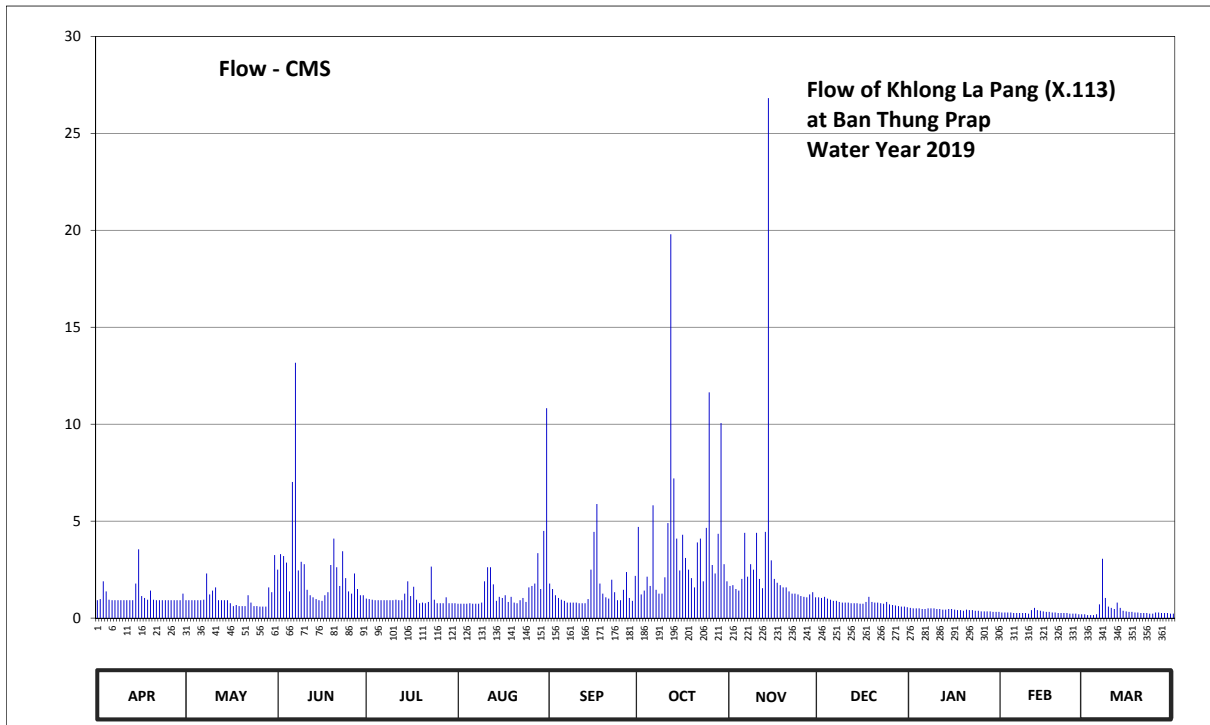
Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

	Ban Thung Prap	Amphoe Sadao	Changwat Songkhla
<b>Drainage Area</b>	118 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	About 15 meters from the gage observer's house.	<b>Elevation</b>	+37.552 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1979 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1979 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1979 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 34.760 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.64	31.64	32.05	31.67	31.58	31.87	32.52	31.84	31.69	31.51	31.43	31.40	
2	31.66	31.64	32.24	31.66	31.58	31.80	31.73	31.85	31.68	31.50	31.43	31.39	
3	31.90	31.64	32.22	31.65	31.58	31.72	31.78	31.80	31.70	31.50	31.43	31.39	
4	31.77	31.64	32.14	31.64	31.58	31.68	31.96	31.78	31.67	31.50	31.43	31.39	
5	31.65	31.64	31.77	31.64	31.59	31.65	31.84	31.93	31.65	31.49	31.42	31.40	
6	31.64	31.64	32.92	31.64	31.58	31.63	32.72	32.46	31.63	31.49	31.42	31.57	
7	31.64	31.65	33.73	31.64	31.58	31.60	31.79	31.96	31.63	31.50	31.42	32.19	
8	31.64	32.00	32.04	31.64	31.58	31.60	31.74	32.12	31.61	31.50	31.42	31.68	
9	31.64	31.73	32.15	31.64	31.60	31.60	31.74	32.05	31.60	31.50	31.42	31.53	
10	31.64	31.78	32.12	31.64	31.90	31.60	31.95	32.46	31.60	31.49	31.41	31.51	
11	31.64	31.82	31.79	31.65	32.08	31.59	32.56	31.93	31.60	31.49	31.47	31.49	
12	31.64	31.64	31.72	31.64	32.08	31.59	34.35	31.81	31.59	31.48	31.51	31.60	
13	31.64	31.64	31.69	31.64	31.86	31.59	32.95	32.47	31.59	31.48	31.47	31.51	
14	31.87	31.64	31.66	31.74	31.63	31.66	32.40	34.79	31.59	31.49	31.46	31.46	
15	32.29	31.64	31.64	31.90	31.70	32.05	32.04	32.17	31.58	31.49	31.45	31.45	
16	31.71	31.59	31.63	31.71	31.68	32.47	32.44	31.93	31.58	31.48	31.44	31.44	
17	31.68	31.54	31.72	31.83	31.72	32.73	32.20	31.88	31.61	31.47	31.44	31.44	
18	31.65	31.56	31.76	31.65	31.61	31.87	32.05	31.85	31.70	31.47	31.43	31.43	
19	31.78	31.54	32.11	31.59	31.70	31.74	31.94	31.82	31.61	31.46	31.43	31.43	
20	31.65	31.54	32.40	31.60	31.60	31.69	31.82	31.82	31.60	31.48	31.42	31.42	
21	31.64	31.54	32.08	31.59	31.59	31.67	32.36	31.77	31.60	31.47	31.42	31.42	
22	31.64	31.72	31.84	31.61	31.64	31.92	32.40	31.74	31.59	31.47	31.42	31.42	
23	31.64	31.60	32.27	32.09	31.68	31.76	31.90	31.74	31.58	31.46	31.42	31.41	
24	31.64	31.54	31.94	31.65	31.61	31.64	32.51	31.73	31.61	31.46	31.41	31.41	
25	31.64	31.54	31.77	31.59	31.82	31.64	33.56	31.71	31.57	31.45	31.41	31.43	
26	31.64	31.53	31.74	31.59	31.84	31.79	32.11	31.70	31.56	31.45	31.41	31.43	
27	31.64	31.53	32.00	31.59	31.87	32.02	32.00	31.69	31.55	31.45	31.40	31.42	
28	31.64	31.53	31.80	31.69	32.25	31.68	32.45	31.73	31.54	31.45	31.40	31.42	
29	31.64	31.82	31.72	31.59	31.80	31.63	33.38	31.76	31.53	31.44	31.40	31.42	
30	31.74	31.76	31.72	31.59	32.48	31.97	32.12	31.69	31.53	31.44		31.41	
31		32.23		31.59	33.47		31.90		31.52	31.44		31.41	
Mean	31.70	31.66	32.01	31.66	31.80	31.78	32.30	32.00	31.60	31.48	31.43	31.47	
Max	32.29	32.23	33.73	32.09	33.47	32.73	34.35	34.79	31.70	31.51	31.51	32.19	34.79
Min	31.64	31.53	31.63	31.59	31.58	31.59	31.73	31.69	31.52	31.44	31.40	31.39	31.39
Annual Max Momentary Gage Height	35.57		m. (MSL.) ,				at 04.00 Hours ,	on Nov 14, 2019					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	30.95	m. (MSL.)				
Left Bank Elevation		34.75		m. (MSL.) ,									
Right Bank Elevation		36.48		m. (MSL.) ,			Drainage Are	118	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.92	0.92	2.50	1.01	0.74	1.78	4.70	1.66	1.07	0.53	0.29	0.20	
2	0.98	0.92	3.30	0.98	0.74	1.50	1.22	1.70	1.04	0.50	0.29	0.16	
3	1.90	0.92	3.20	0.95	0.74	1.18	1.42	1.50	1.10	0.50	0.29	0.16	
4	1.38	0.92	2.86	0.92	0.74	1.04	2.14	1.42	1.01	0.50	0.29	0.16	
5	0.95	0.92	1.38	0.92	0.77	0.95	1.66	2.02	0.95	0.47	0.26	0.20	
6	0.92	0.92	7.02	0.92	0.74	0.89	5.82	4.40	0.89	0.47	0.26	0.71	
7	0.92	0.95	13.17	0.92	0.74	0.80	1.46	2.14	0.89	0.50	0.26	3.06	
8	0.92	2.30	2.46	0.92	0.74	0.80	1.26	2.78	0.83	0.50	0.26	1.04	
9	0.92	1.22	2.90	0.92	0.80	0.80	1.26	2.50	0.80	0.50	0.26	0.59	
10	0.92	1.42	2.78	0.92	1.90	0.80	2.10	4.40	0.80	0.47	0.23	0.53	
11	0.92	1.58	1.46	0.95	2.62	0.77	4.90	2.02	0.80	0.47	0.41	0.47	
12	0.92	0.92	1.18	0.92	2.62	0.77	19.80	1.54	0.77	0.44	0.53	0.80	
13	0.92	0.92	1.07	0.92	1.74	0.77	7.20	4.45	0.77	0.44	0.41	0.53	
14	1.78	0.92	0.98	1.26	0.89	0.98	4.10	26.82	0.77	0.47	0.38	0.38	
15	3.55	0.92	0.92	1.90	1.10	2.50	2.46	2.98	0.74	0.47	0.35	0.35	
16	1.14	0.77	0.89	1.14	1.04	4.45	4.30	2.02	0.74	0.44	0.32	0.32	
17	1.04	0.62	1.18	1.62	1.18	5.88	3.10	1.82	0.83	0.41	0.32	0.32	
18	0.95	0.68	1.34	0.95	0.83	1.78	2.50	1.70	1.10	0.41	0.29	0.29	
19	1.42	0.62	2.74	0.77	1.10	1.26	2.06	1.58	0.83	0.38	0.29	0.29	
20	0.95	0.62	4.10	0.80	0.80	1.07	1.58	1.58	0.80	0.44	0.26	0.26	
21	0.92	0.62	2.62	0.77	0.77	1.01	3.90	1.38	0.80	0.41	0.26	0.26	
22	0.92	1.18	1.66	0.83	0.92	1.98	4.10	1.26	0.77	0.41	0.26	0.26	
23	0.92	0.80	3.45	2.66	1.04	1.34	1.90	1.26	0.74	0.38	0.26	0.23	
24	0.92	0.62	2.06	0.95	0.83	0.92	4.65	1.22	0.83	0.38	0.23	0.23	
25	0.92	0.62	1.38	0.77	1.58	0.92	11.64	1.14	0.71	0.35	0.23	0.29	
26	0.92	0.59	1.26	0.77	1.66	1.46	2.74	1.10	0.68	0.35	0.23	0.29	
27	0.92	0.59	2.30	0.77	1.78	2.38	2.30	1.07	0.65	0.35	0.20	0.26	
28	0.92	0.59	1.50	1.07	3.35	1.04	4.35	1.22	0.62	0.35	0.20	0.26	
29	0.92	1.58	1.18	0.77	1.50	0.89	10.06	1.34	0.59	0.32	0.20	0.26	
30	1.26	1.34	1.18	0.77	4.50	2.18	2.78	1.07	0.59	0.32		0.23	
31		3.25		0.77	10.83		1.90		0.56	0.32		0.23	
<b>Total</b>	<b>33.86</b>	<b>31.76</b>	<b>76.02</b>	<b>31.51</b>	<b>51.33</b>	<b>44.89</b>	<b>125.36</b>	<b>83.09</b>	<b>25.07</b>	<b>13.25</b>	<b>8.32</b>	<b>13.62</b>	<b>538.08</b> CMSDAY
<b>Mean</b>	<b>1.13</b>	<b>1.02</b>	<b>2.53</b>	<b>1.02</b>	<b>1.66</b>	<b>1.50</b>	<b>4.04</b>	<b>2.77</b>	<b>0.81</b>	<b>0.43</b>	<b>0.29</b>	<b>0.44</b>	<b>1.47</b> CMS
<b>Max</b>	<b>3.55</b>	<b>3.25</b>	<b>13.17</b>	<b>2.66</b>	<b>10.83</b>	<b>5.88</b>	<b>19.80</b>	<b>26.82</b>	<b>1.10</b>	<b>0.53</b>	<b>0.53</b>	<b>3.06</b>	<b>26.82</b> CMS
<b>Min</b>	<b>0.92</b>	<b>0.59</b>	<b>0.89</b>	<b>0.77</b>	<b>0.74</b>	<b>0.77</b>	<b>1.22</b>	<b>1.07</b>	<b>0.56</b>	<b>0.32</b>	<b>0.20</b>	<b>0.16</b>	<b>0.16</b> CMS
<b>Runoff</b>	<b>2.93</b>	<b>2.74</b>	<b>6.57</b>	<b>2.72</b>	<b>4.43</b>	<b>3.88</b>	<b>10.83</b>	<b>7.18</b>	<b>2.17</b>	<b>1.14</b>	<b>0.72</b>	<b>1.18</b>	<b>46.49</b> MCM
<b>Momentary Peak</b>	<b>51.80</b>	<b>CMS. at 35.57 m. (MSL.) at 04.00 Hours , on Nov 14, 2019</b>											
<b>Runoff Yield</b>	<b>12.45</b>	<b>Liters/Second/Square KM. Momentary Peak Yield 437.32 Liters/Second/Square KM.</b>											



## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

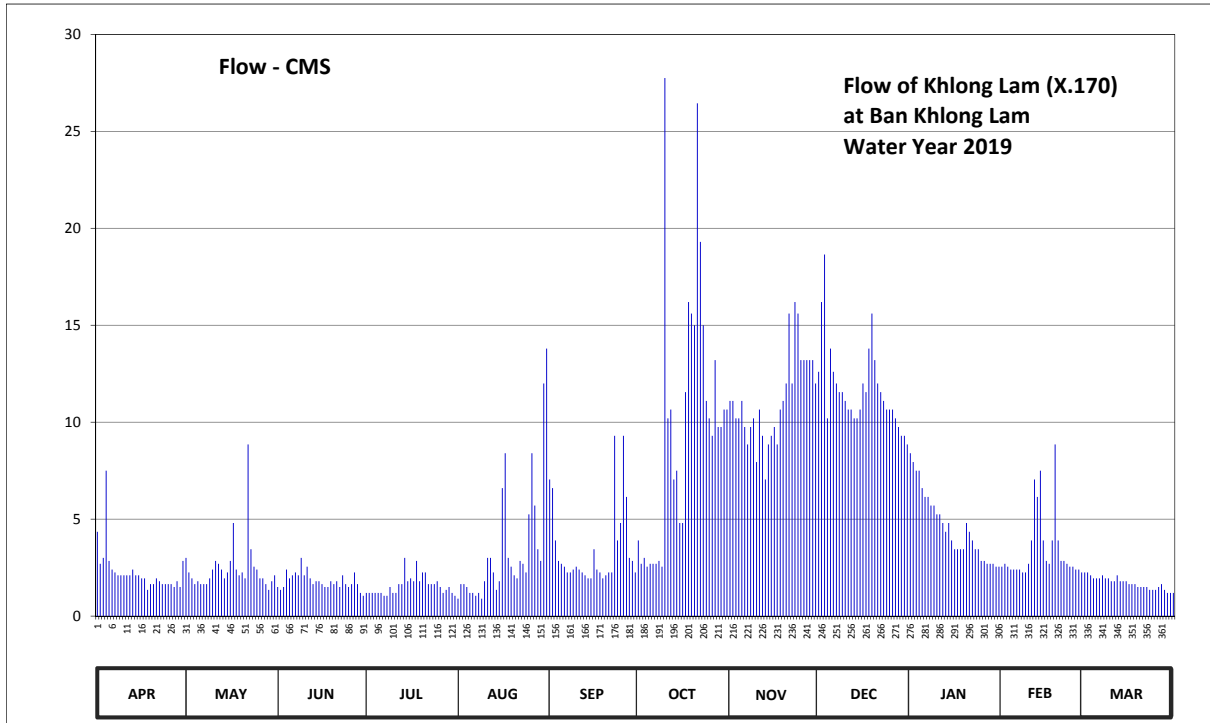
Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

	<b>Ban</b> Khlong Lam	<b>Amphoe</b> Srinagarindra	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	258 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 21 meters from the top staff gage.	<b>Elevation</b>	+27.274 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1987 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.83	20.80	20.70	20.68	20.66	20.89	20.82	20.98	21.01	20.92	20.77	20.75	
2	20.78	20.75	20.69	20.68	20.71	20.88	20.78	20.98	21.07	20.91	20.78	20.75	
3	20.80	20.73	20.70	20.68	20.71	20.82	20.80	20.96	21.11	20.90	20.77	20.74	
4	20.90	20.71	20.76	20.68	20.70	20.79	20.77	20.96	20.96	20.90	20.76	20.73	
5	20.79	20.72	20.73	20.68	20.68	20.78	20.78	20.98	21.03	20.88	20.76	20.73	
6	20.76	20.71	20.74	20.68	20.68	20.77	20.78	20.95	21.01	20.87	20.76	20.73	
7	20.75	20.71	20.75	20.67	20.67	20.75	20.78	20.93	21.00	20.87	20.76	20.74	
8	20.74	20.71	20.74	20.67	20.68	20.75	20.79	20.95	20.99	20.86	20.75	20.73	
9	20.74	20.73	20.80	20.70	20.66	20.76	20.77	20.96	20.99	20.86	20.75	20.73	
10	20.74	20.76	20.74	20.68	20.72	20.77	21.25	20.91	20.98	20.85	20.78	20.72	
11	20.74	20.79	20.77	20.68	20.80	20.76	20.96	20.97	20.97	20.85	20.82	20.72	
12	20.74	20.78	20.73	20.71	20.80	20.75	20.97	20.94	20.97	20.84	20.89	20.74	
13	20.76	20.76	20.71	20.71	20.75	20.74	20.89	20.89	20.96	20.83	20.87	20.72	
14	20.74	20.73	20.72	20.80	20.69	20.73	20.90	20.93	20.96	20.84	20.90	20.72	
15	20.74	20.75	20.72	20.72	20.72	20.73	20.84	20.94	20.97	20.82	20.82	20.72	
16	20.73	20.79	20.71	20.73	20.88	20.81	20.84	20.95	21.00	20.81	20.79	20.71	
17	20.73	20.84	20.70	20.72	20.92	20.76	20.99	20.93	20.99	20.81	20.78	20.71	
18	20.69	20.76	20.70	20.79	20.80	20.75	21.07	20.97	21.03	20.81	20.82	20.71	
19	20.71	20.74	20.72	20.72	20.77	20.73	21.06	20.98	21.06	20.81	20.93	20.70	
20	20.71	20.75	20.71	20.75	20.74	20.74	21.05	21.00	21.02	20.84	20.82	20.70	
21	20.73	20.73	20.72	20.75	20.73	20.75	21.23	21.06	21.00	20.83	20.79	20.70	
22	20.72	20.93	20.70	20.71	20.79	20.75	21.12	21.00	20.99	20.82	20.79	20.70	
23	20.71	20.81	20.74	20.71	20.78	20.94	21.05	21.07	20.98	20.81	20.78	20.69	
24	20.71	20.77	20.71	20.71	20.75	20.82	20.98	21.06	20.97	20.81	20.77	20.69	
25	20.71	20.76	20.70	20.72	20.85	20.84	20.96	21.02	20.97	20.79	20.77	20.69	
26	20.71	20.73	20.71	20.70	20.92	20.94	20.94	21.02	20.97	20.79	20.76	20.70	
27	20.70	20.73	20.75	20.68	20.86	20.87	21.02	21.02	20.96	20.78	20.76	20.71	
28	20.72	20.71	20.71	20.69	20.81	20.80	20.95	21.02	20.95	20.78	20.75	20.69	
29	20.70	20.69	20.68	20.70	20.79	20.79	20.95	21.02	20.94	20.78	20.75	20.68	
30	20.79	20.72	20.67	20.68	21.00	20.75	20.97	21.00	20.94	20.77		20.68	
31		20.74		20.67	21.03		20.97		20.93	20.77		20.68	
Mean	20.74	20.75	20.72	20.70	20.78	20.79	20.94	20.98	20.99	20.83	20.79	20.71	
Max	20.90	20.93	20.80	20.80	21.03	20.94	21.25	21.07	21.11	20.92	20.93	20.75	21.25
Min	20.69	20.69	20.67	20.67	20.66	20.73	20.77	20.89	20.93	20.77	20.75	20.68	20.66
Annual Max Momentary Gage Height	21.86		m. (MSL.) ,				at 06.00 Hours ,						on Oct 10, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	19.04	m. (MSL.)					
Left Bank Elevation		28.64		m. (MSL.) ,									
Right Bank Elevation		27.38		m. (MSL.) ,		Drainage Are	258	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.35	3.00	1.50	1.20	0.90	7.05	3.90	11.10	12.60	8.40	2.55	2.25		
2	2.70	2.25	1.35	1.20	1.65	6.60	2.70	11.10	16.20	7.95	2.70	2.25		
3	3.00	1.95	1.50	1.20	1.65	3.90	3.00	10.20	18.65	7.50	2.55	2.10		
4	7.50	1.65	2.40	1.20	1.50	2.85	2.55	10.20	10.20	7.50	2.40	1.95		
5	2.85	1.80	1.95	1.20	1.20	2.70	2.70	11.10	13.80	6.60	2.40	1.95		
6	2.40	1.65	2.10	1.20	1.20	2.55	2.70	9.75	12.60	6.15	2.40	1.95		
7	2.25	1.65	2.25	1.05	1.05	2.25	2.70	8.85	12.00	6.15	2.40	2.10		
8	2.10	1.65	2.10	1.05	1.20	2.25	2.85	9.75	11.55	5.70	2.25	1.95		
9	2.10	1.95	3.00	1.50	0.90	2.40	2.55	10.20	11.55	5.70	2.25	1.95		
10	2.10	2.40	2.10	1.20	1.80	2.55	27.75	7.95	11.10	5.25	2.70	1.80		
11	2.10	2.85	2.55	1.20	3.00	2.40	10.20	10.65	10.65	5.25	3.90	1.80		
12	2.10	2.70	1.95	1.65	3.00	2.25	10.65	9.30	10.65	4.80	7.05	2.10		
13	2.40	2.40	1.65	1.65	2.25	2.10	7.05	7.05	10.20	4.35	6.15	1.80		
14	2.10	1.95	1.80	3.00	1.35	1.95	7.50	8.85	10.20	4.80	7.50	1.80		
15	2.10	2.25	1.80	1.80	1.80	1.95	4.80	9.30	10.65	3.90	3.90	1.80		
16	1.95	2.85	1.65	1.95	6.60	3.45	4.80	9.75	12.00	3.45	2.85	1.65		
17	1.95	4.80	1.50	1.80	8.40	2.40	11.55	8.85	11.55	3.45	2.70	1.65		
18	1.35	2.40	1.50	2.85	3.00	2.25	16.20	10.65	13.80	3.45	3.90	1.65		
19	1.65	2.10	1.80	1.80	2.55	1.95	15.60	11.10	15.60	3.45	8.85	1.50		
20	1.65	2.25	1.65	2.25	2.10	2.10	15.00	12.00	13.20	4.80	3.90	1.50		
21	1.95	1.95	1.80	2.25	1.95	2.25	26.45	15.60	12.00	4.35	2.85	1.50		
22	1.80	8.85	1.50	1.65	2.85	2.25	19.30	12.00	11.55	3.90	2.85	1.50		
23	1.65	3.45	2.10	1.65	2.70	9.30	15.00	16.20	11.10	3.45	2.70	1.35		
24	1.65	2.55	1.65	1.65	2.25	3.90	11.10	15.60	10.65	3.45	2.55	1.35		
25	1.65	2.40	1.50	1.80	5.25	4.80	10.20	13.20	10.65	2.85	2.55	1.35		
26	1.65	1.95	1.65	1.50	8.40	9.30	9.30	13.20	10.65	2.85	2.40	1.50		
27	1.50	1.95	2.25	1.20	5.70	6.15	13.20	13.20	10.20	2.70	2.40	1.65		
28	1.80	1.65	1.65	1.35	3.45	3.00	9.75	13.20	9.75	2.70	2.25	1.35		
29	1.50	1.35	1.20	1.50	2.85	2.85	9.75	13.20	9.30	2.70	2.25	1.20		
30	2.85	1.80	1.05	1.20	12.00	2.25	10.65	12.00	9.30	2.55		1.20		
31		2.10		1.05	13.80		10.65		8.85	2.55		1.20		
Total	68.70	76.50	54.45	48.75	108.30	103.95	302.10	335.10	362.75	142.65	98.10	52.65	1754.00 CMSDAY	
Mean	2.29	2.47	1.81	1.57	3.49	3.47	9.75	11.17	11.70	4.60	3.38	1.70	4.79 CMS	
Max	7.50	8.85	3.00	3.00	13.80	9.30	27.75	16.20	18.65	8.40	8.85	2.25	27.75 CMS	
Min	1.35	1.35	1.05	1.05	0.90	1.95	2.55	7.05	8.85	2.55	2.25	1.20	0.90 CMS	
Runoff	5.94	6.61	4.70	4.21	9.36	8.98	26.10	28.95	31.34	12.32	8.48	4.55	151.55 MCM	
Momentary Peak	71.00	CMS.	at 21.86 m. (MSL.)											on Oct 10, 2019
Runoff Yield	18.65	Liters/Second/Square KM.												Momentary Peak Yield 275.51 Liters/Second/Square KM.

## WATER YEAR : 2019

## THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

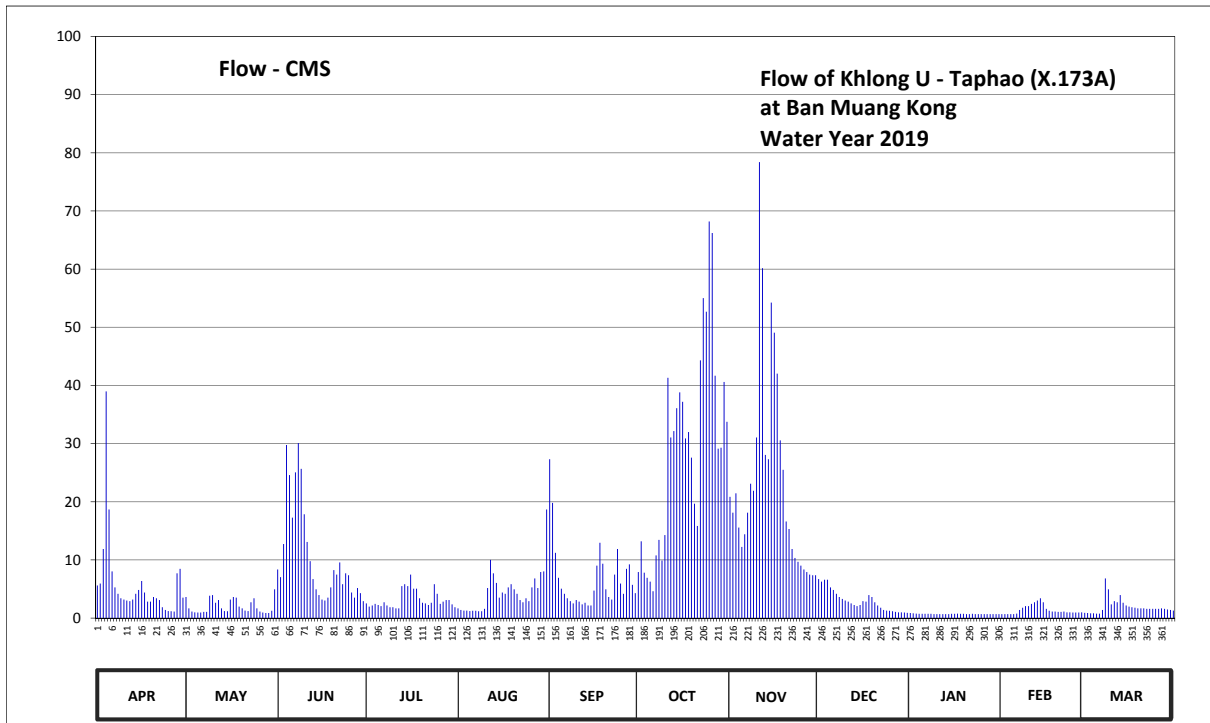
Lat 06 - 49 - 26 N Long 100 - 26 - 17 E

Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	Amphoe Sadao	Changwat Songkhla
<b>Drainage Area</b>	1,064 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 1.13 meters from the top staff gage.	<b>Elevation</b>	+16.125 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

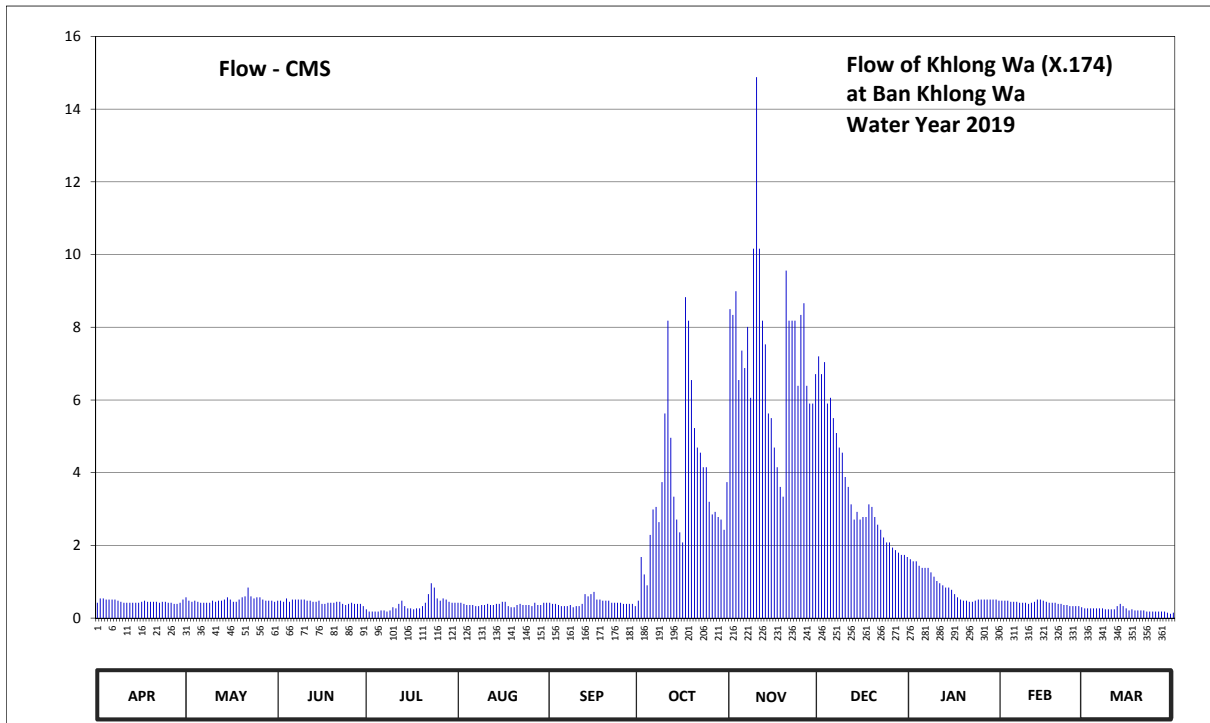
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.02	9.84	10.27	9.73	9.64	11.70	10.23	11.27	10.12	9.50	9.46	9.51	
2	10.05	9.64	10.15	9.67	9.61	11.20	10.70	11.08	10.08	9.49	9.46	9.50	
3	10.59	9.56	10.66	9.69	9.60	10.53	10.22	11.31	10.11	9.48	9.46	9.49	
4	12.41	9.53	11.86	9.72	9.60	10.14	10.14	10.89	10.11	9.47	9.46	9.49	
5	11.12	9.52	11.52	9.70	9.58	9.97	10.08	10.62	9.99	9.47	9.46	9.48	
6	10.24	9.52	11.02	9.68	9.59	9.89	9.93	10.80	9.95	9.47	9.48	9.48	
7	9.99	9.55	11.55	9.75	9.59	9.82	10.49	11.08	9.89	9.47	9.61	9.61	
8	9.89	9.55	11.88	9.69	9.57	9.77	10.72	11.42	9.84	9.47	9.65	10.13	
9	9.82	9.86	11.59	9.66	9.57	9.73	10.41	11.34	9.81	9.46	9.68	9.96	
10	9.80	9.87	11.06	9.66	9.63	9.79	10.79	11.94	9.78	9.46	9.68	9.71	
11	9.78	9.74	10.69	9.64	9.98	9.76	12.54	13.86	9.76	9.46	9.72	9.77	
12	9.77	9.79	10.40	9.64	10.42	9.71	11.94	13.35	9.73	9.46	9.75	9.75	
13	9.80	9.64	10.12	10.01	10.21	9.74	12.01	11.75	9.70	9.46	9.78	9.87	
14	9.89	9.58	9.96	10.04	10.06	9.69	12.25	11.70	9.68	9.46	9.82	9.74	
15	9.95	9.57	9.87	10.01	9.83	9.69	12.40	13.14	9.70	9.47	9.75	9.69	
16	10.09	9.80	9.80	10.19	9.91	9.94	12.31	12.93	9.77	9.47	9.63	9.67	
17	9.91	9.84	9.78	9.97	9.89	10.33	11.93	12.58	9.76	9.48	9.59	9.66	
18	9.76	9.83	9.83	9.97	9.99	10.68	12.00	11.91	9.87	9.47	9.56	9.65	
19	9.76	9.67	9.99	9.82	10.04	10.36	11.72	11.58	9.84	9.47	9.56	9.64	
20	9.84	9.64	10.26	9.74	9.96	9.96	11.19	10.97	9.75	9.46	9.55	9.64	
21	9.82	9.60	10.19	9.73	9.89	9.84	10.91	10.87	9.69	9.46	9.55	9.64	
22	9.79	9.58	10.38	9.70	9.79	9.80	12.70	10.59	9.65	9.47	9.56	9.63	
23	9.66	9.75	10.04	9.74	9.75	10.19	13.17	10.45	9.61	9.46	9.53	9.63	
24	9.61	9.82	10.21	10.04	9.82	10.59	13.08	10.39	9.60	9.46	9.53	9.63	
25	9.58	9.64	10.18	9.89	9.77	10.05	13.60	10.33	9.59	9.46	9.52	9.63	
26	9.57	9.56	9.91	9.72	9.99	9.89	13.54	10.27	9.57	9.46	9.52	9.63	
27	9.56	9.52	9.83	9.76	10.13	10.28	12.56	10.23	9.55	9.46	9.52	9.64	
28	10.21	9.50	9.98	9.79	9.98	10.35	11.82	10.19	9.53	9.46	9.53	9.63	
29	10.28	9.50	9.90	9.79	10.23	10.03	11.83	10.18	9.53	9.46	9.52	9.62	
30	9.83	9.59	9.77	9.71	10.24	9.90	12.50	10.18	9.52	9.46	9.46	9.61	
31		9.96		9.66	11.12		12.11		9.51	9.46		9.60	
Mean	10.01	9.66	10.42	9.79	9.90	10.11	11.67	11.31	9.76	9.47	9.58	9.66	
Max	12.41	9.96	11.88	10.19	11.12	11.70	13.60	13.86	10.12	9.50	9.82	10.13	13.86
Min	9.56	9.50	9.77	9.64	9.57	9.69	9.93	10.18	9.51	9.46	9.46	9.48	9.46
Annual Max Momentary Gage Height	14.05		m. (MSL.) ,				at 20.00 Hours ,	on Nov 11, 2019					
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	8.74	m. (MSL.)					
Left Bank Elevation		14.11		m. (MSL.) ,									
Right Bank Elevation		16.10		m. (MSL.) ,		Drainage Are	1,064	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.62	3.64	8.37	2.54	1.68	27.30	7.93	20.85	6.72	0.87	0.69	0.91	
2	5.95	1.68	7.05	1.97	1.40	19.80	13.20	18.12	6.28	0.82	0.69	0.87	
3	11.89	1.13	12.72	2.16	1.30	11.23	7.82	21.45	6.61	0.78	0.69	0.82	
4	38.98	1.00	29.76	2.44	1.30	6.94	6.94	15.57	6.61	0.74	0.69	0.82	
5	18.68	0.95	24.60	2.25	1.21	5.07	6.28	12.24	5.29	0.74	0.69	0.78	
6	8.04	0.95	17.28	2.06	1.26	4.19	4.63	14.40	4.85	0.74	0.78	0.78	
7	5.29	1.08	25.05	2.73	1.26	3.42	10.79	18.12	4.19	0.74	1.40	1.40	
8	4.19	1.08	30.08	2.16	1.17	2.92	13.44	23.10	3.64	0.74	1.78	6.83	
9	3.42	3.86	25.65	1.87	1.17	2.54	9.91	21.90	3.31	0.69	2.06	4.96	
10	3.20	3.97	17.84	1.87	1.59	3.11	14.28	31.04	3.01	0.69	2.06	2.35	
11	3.01	2.63	13.08	1.68	5.18	2.82	41.32	78.40	2.82	0.69	2.44	2.92	
12	2.92	3.11	9.80	1.68	10.02	2.35	31.04	60.15	2.54	0.69	2.73	2.73	
13	3.20	1.68	6.72	5.51	7.71	2.63	32.16	28.05	2.25	0.69	3.01	3.97	
14	4.19	1.21	4.96	5.84	6.06	2.16	36.10	27.30	2.06	0.69	3.42	2.63	
15	4.85	1.17	3.97	5.51	3.53	2.16	38.80	54.24	2.25	0.74	2.73	2.16	
16	6.39	3.20	3.20	7.49	4.41	4.74	37.18	49.06	2.92	0.74	1.59	1.97	
17	4.41	3.64	3.01	5.07	4.19	9.03	30.88	42.04	2.82	0.78	1.26	1.87	
18	2.82	3.53	3.53	5.07	5.29	12.96	32.00	30.56	3.97	0.74	1.13	1.78	
19	2.82	1.97	5.29	3.42	5.84	9.36	27.60	25.50	3.64	0.74	1.13	1.68	
20	3.64	1.68	8.26	2.63	4.96	4.96	19.66	16.61	2.73	0.69	1.08	1.68	
21	3.42	1.30	7.49	2.54	4.19	3.64	15.83	15.31	2.16	0.69	1.08	1.68	
22	3.11	1.21	9.58	2.25	3.11	3.20	44.30	11.89	1.78	0.74	1.13	1.59	
23	1.87	2.73	5.84	2.63	2.73	7.49	55.02	10.35	1.40	0.69	1.00	1.59	
24	1.40	3.42	7.71	5.84	3.42	11.89	52.68	9.69	1.30	0.69	1.00	1.59	
25	1.21	1.68	7.38	4.19	2.92	5.95	68.20	9.03	1.26	0.69	0.95	1.59	
26	1.17	1.13	4.41	2.44	5.29	4.19	66.22	8.37	1.17	0.69	0.95	1.59	
27	1.13	0.95	3.53	2.82	6.83	8.48	41.68	7.93	1.08	0.69	0.95	1.68	
28	7.71	0.87	5.18	3.11	5.18	9.25	29.12	7.49	1.00	0.69	1.00	1.59	
29	8.48	0.87	4.30	3.11	7.93	5.73	29.28	7.38	1.00	0.69	0.95	1.49	
30	3.53	1.26	2.92	2.35	8.04	4.30	40.60	7.38	0.95	0.69		1.40	
31		4.96		1.87	18.68		33.76		0.91	0.69		1.30	
<b>Total</b>	176.54	63.54	318.56	99.10	138.85	203.81	898.65	703.52	92.52	22.38	41.06	61.00	2819.53 CMSDAY
<b>Mean</b>	5.88	2.05	10.62	3.20	4.48	6.79	28.99	23.45	2.98	0.72	1.42	1.97	7.70 CMS
<b>Max</b>	38.98	4.96	30.08	7.49	18.68	27.30	68.20	78.40	6.72	0.87	3.42	6.83	78.40 CMS
<b>Min</b>	1.13	0.87	2.92	1.68	1.17	2.16	4.63	7.38	0.91	0.69	0.78	0.69	0.69 CMS
<b>Runoff</b>	15.25	5.49	27.52	8.56	12.00	17.61	77.64	60.78	7.99	1.93	3.55	5.27	243.61 MCM
<b>Momentary Peak</b>	86.50 CMS. at 14.05 m. (MSL.) at 20.00 Hours , on Nov 11, 2019												
<b>Runoff Yield</b>	7.26 Liters/Second/Square KM.			Momentary Peak Yield			81.30 Liters/Second/Square KM.						





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.57	0.48	0.24	0.42	0.42	0.48	8.50	7.20	1.62	0.48	0.27	
2	0.54	0.48	0.48	0.18	0.42	0.39	1.68	8.34	6.71	1.56	0.48	0.27	
3	0.54	0.45	0.45	0.18	0.39	0.39	1.20	8.99	7.04	1.56	0.48	0.27	
4	0.51	0.48	0.54	0.18	0.36	0.36	0.90	6.55	5.90	1.44	0.45	0.27	
5	0.51	0.45	0.45	0.18	0.36	0.33	2.29	7.36	6.06	1.38	0.45	0.27	
6	0.51	0.42	0.51	0.21	0.36	0.33	2.99	6.88	5.50	1.38	0.45	0.27	
7	0.51	0.42	0.51	0.21	0.33	0.33	3.06	8.01	5.09	1.38	0.42	0.27	
8	0.48	0.42	0.51	0.18	0.33	0.36	2.64	6.06	4.69	1.26	0.42	0.24	
9	0.45	0.42	0.51	0.21	0.36	0.30	3.74	10.16	4.55	1.14	0.42	0.24	
10	0.42	0.48	0.51	0.30	0.36	0.33	5.63	14.88	3.88	1.02	0.39	0.24	
11	0.42	0.45	0.48	0.27	0.39	0.33	8.18	10.16	3.61	0.96	0.42	0.24	
12	0.42	0.48	0.48	0.39	0.36	0.39	4.96	8.18	3.13	0.90	0.45	0.33	
13	0.42	0.48	0.45	0.48	0.36	0.66	3.34	7.53	2.71	0.84	0.51	0.39	
14	0.42	0.51	0.45	0.33	0.39	0.60	2.71	5.63	2.92	0.84	0.51	0.33	
15	0.42	0.57	0.48	0.27	0.39	0.66	2.36	5.50	2.71	0.78	0.48	0.27	
16	0.45	0.51	0.39	0.27	0.45	0.72	2.08	4.69	2.78	0.66	0.45	0.21	
17	0.48	0.45	0.39	0.24	0.45	0.51	8.83	4.15	2.78	0.57	0.42	0.24	
18	0.45	0.45	0.42	0.27	0.33	0.51	8.18	3.61	3.13	0.51	0.42	0.21	
19	0.45	0.51	0.42	0.27	0.30	0.48	6.55	3.34	3.06	0.48	0.42	0.21	
20	0.45	0.57	0.42	0.33	0.30	0.48	5.23	9.56	2.78	0.48	0.39	0.21	
21	0.45	0.60	0.45	0.42	0.36	0.48	4.69	8.18	2.57	0.45	0.39	0.21	
22	0.42	0.84	0.45	0.66	0.39	0.42	4.55	8.18	2.43	0.45	0.36	0.18	
23	0.45	0.60	0.39	0.96	0.36	0.42	4.15	8.18	2.22	0.48	0.36	0.18	
24	0.45	0.54	0.36	0.84	0.36	0.42	4.15	6.39	2.08	0.51	0.33	0.18	
25	0.42	0.57	0.39	0.54	0.36	0.42	3.20	8.34	2.08	0.51	0.33	0.18	
26	0.42	0.57	0.42	0.48	0.33	0.39	2.85	8.66	1.94	0.51	0.33	0.18	
27	0.39	0.51	0.39	0.54	0.42	0.39	2.92	6.39	1.87	0.51	0.33	0.18	
28	0.39	0.48	0.39	0.51	0.36	0.39	2.78	5.90	1.80	0.51	0.30	0.18	
29	0.42	0.48	0.39	0.45	0.36	0.39	2.71	5.90	1.74	0.51	0.30	0.15	
30	0.51	0.48	0.33	0.42	0.42	0.33	2.43	6.71	1.74	0.51		0.12	
31		0.45		0.42	0.42		3.74		1.68	0.48		0.15	
<b>Total</b>	13.59	15.69	13.29	11.43	11.55	12.93	115.20	220.91	108.38	26.19	11.94	7.14	568.24 CMSDAY
<b>Mean</b>	0.45	0.51	0.44	0.37	0.37	0.43	3.72	7.36	3.50	0.84	0.41	0.23	1.55 CMS
<b>Max</b>	0.54	0.84	0.54	0.96	0.45	0.72	8.83	14.88	7.20	1.62	0.51	0.39	14.88 CMS
<b>Min</b>	0.39	0.42	0.33	0.18	0.30	0.30	0.48	3.34	1.68	0.45	0.30	0.12	0.12 CMS
<b>Runoff</b>	1.17	1.36	1.15	0.99	1.00	1.12	9.95	19.09	9.36	2.26	1.03	0.62	49.10 MCM
<b>Momentary Peak</b>	19.30	CMS. at 5.45 m. (MSL.) at 05.00 Hours , on Nov 10, 2019											
<b>Runoff Yield</b>	13.43	Liters/Second/Square KM. Momentary Peak Yield 166.51 Liters/Second/Square KM.											

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

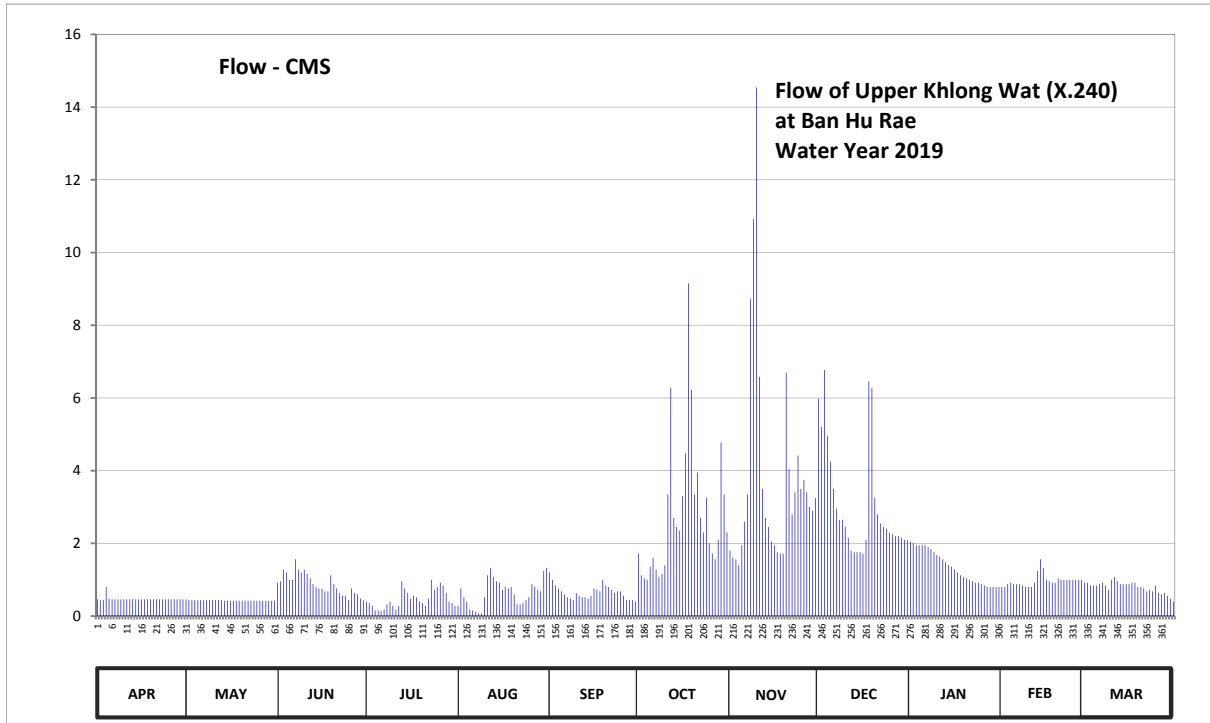
Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	<b>Ban Hu Rae</b>	<b>Amphoe Hat Yai</b>	<b>Changwat Songkhla</b>
<b>Drainage Area</b>	127 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.	<b>Elevation</b>	+25.224 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.68	17.68	17.58	17.45	17.42	17.65	17.78	17.80	18.58	17.85	17.55	17.58	
2	17.67	17.67	17.59	17.44	17.54	17.60	17.63	17.75	18.45	17.84	17.55	17.58	
3	17.67	17.67	17.67	17.42	17.48	17.56	17.61	17.74	18.71	17.83	17.57	17.56	
4	17.84	17.67	17.65	17.38	17.45	17.54	17.60	17.70	18.41	17.83	17.58	17.56	
5	17.69	17.67	17.60	17.38	17.39	17.52	17.69	17.83	18.29	17.83	17.57	17.56	
6	17.68	17.67	17.60	17.37	17.38	17.50	17.75	17.96	18.14	17.83	17.57	17.57	
7	17.68	17.67	17.74	17.39	17.36	17.48	17.67	18.11	18.03	17.82	17.57	17.58	
8	17.68	17.67	17.67	17.43	17.34	17.47	17.62	18.99	17.97	17.81	17.56	17.56	
9	17.68	17.67	17.65	17.45	17.34	17.46	17.64	19.28	17.97	17.79	17.55	17.53	
10	17.68	17.67	17.67	17.42	17.48	17.51	17.70	19.67	17.93	17.77	17.55	17.60	
11	17.68	17.67	17.64	17.39	17.63	17.49	18.11	18.68	17.87	17.76	17.55	17.62	
12	17.68	17.67	17.61	17.42	17.68	17.48	18.63	18.14	17.80	17.74	17.58	17.59	
13	17.68	17.67	17.57	17.59	17.62	17.48	17.98	17.98	17.79	17.72	17.66	17.57	
14	17.68	17.66	17.55	17.54	17.59	17.47	17.93	17.93	17.79	17.70	17.74	17.57	
15	17.68	17.66	17.54	17.51	17.58	17.49	17.91	17.85	17.79	17.69	17.68	17.57	
16	17.68	17.66	17.54	17.47	17.53	17.54	18.10	17.83	17.78	17.67	17.60	17.57	
17	17.68	17.66	17.52	17.49	17.55	17.53	18.33	17.79	17.86	17.65	17.59	17.58	
18	17.68	17.66	17.52	17.48	17.54	17.52	19.05	17.78	18.66	17.63	17.58	17.58	
19	17.68	17.66	17.63	17.45	17.55	17.60	18.62	17.78	18.63	17.62	17.58	17.55	
20	17.68	17.66	17.57	17.44	17.50	17.56	18.11	18.70	18.09	17.61	17.61	17.55	
21	17.68	17.66	17.54	17.42	17.43	17.55	18.23	18.25	18.00	17.60	17.60	17.54	
22	17.68	17.66	17.51	17.47	17.43	17.53	17.98	18.00	17.95	17.59	17.60	17.52	
23	17.68	17.66	17.49	17.60	17.44	17.51	17.90	18.12	17.93	17.58	17.60	17.53	
24	17.68	17.66	17.49	17.53	17.46	17.52	18.09	18.32	17.92	17.58	17.60	17.52	
25	17.68	17.66	17.46	17.55	17.48	17.52	17.84	18.14	17.90	17.57	17.60	17.56	
26	17.68	17.66	17.54	17.58	17.57	17.49	17.78	18.19	17.89	17.56	17.60	17.51	
27	17.68	17.66	17.51	17.56	17.55	17.46	17.74	18.12	17.88	17.55	17.60	17.50	
28	17.68	17.66	17.50	17.51	17.53	17.46	17.86	18.04	17.88	17.55	17.60	17.51	
29	17.68	17.66	17.47	17.45	17.52	17.46	18.38	18.02	17.87	17.55	17.60	17.49	
30	17.68	17.66	17.46	17.44	17.66	17.45	18.11	18.09	17.86	17.55	17.55	17.47	
31		17.66		17.42	17.68		17.90		17.86	17.55		17.45	
Mean	17.69	17.66	17.57	17.47	17.51	17.51	17.98	18.15	18.05	17.68	17.59	17.55	
Max	17.84	17.68	17.74	17.60	17.68	17.65	19.05	19.67	18.71	17.85	17.74	17.62	19.67
Min	17.67	17.66	17.46	17.37	17.34	17.45	17.60	17.70	17.78	17.55	17.55	17.45	17.34
Annual Max Momentary Gage Height	20.33		m. (MSL.) ,				at 07.00 Hours ,						on Nov 10 , 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	17.08		m. (MSL.)				
Left Bank Elevation		21.93		m. (MSL.) ,									
Right Bank Elevation		21.94		m. (MSL.) ,		Drainage Are	127		Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.46	0.92	0.40	0.28	1.20	1.72	1.80	5.98	2.05	0.80	0.92	
2	0.44	0.44	0.96	0.36	0.76	1.00	1.12	1.60	5.20	2.00	0.80	0.92	
3	0.44	0.44	1.28	0.28	0.52	0.84	1.04	1.56	6.77	1.95	0.88	0.84	
4	0.80	0.44	1.20	0.16	0.40	0.76	1.00	1.40	4.96	1.95	0.92	0.84	
5	0.48	0.44	1.00	0.16	0.18	0.68	1.36	1.95	4.25	1.95	0.88	0.84	
6	0.46	0.44	1.00	0.14	0.16	0.60	1.60	2.60	3.50	1.95	0.88	0.88	
7	0.46	0.44	1.56	0.18	0.12	0.52	1.28	3.35	2.95	1.90	0.88	0.92	
8	0.46	0.44	1.28	0.32	0.08	0.48	1.08	8.73	2.65	1.85	0.84	0.84	
9	0.46	0.44	1.20	0.40	0.08	0.44	1.16	10.92	2.65	1.76	0.80	0.72	
10	0.46	0.44	1.28	0.28	0.52	0.64	1.40	14.54	2.45	1.68	0.80	1.00	
11	0.46	0.44	1.16	0.18	1.12	0.56	3.35	6.58	2.15	1.64	0.80	1.08	
12	0.46	0.44	1.04	0.28	1.32	0.52	6.28	3.50	1.80	1.56	0.92	0.96	
13	0.46	0.44	0.88	0.96	1.08	0.52	2.70	2.70	1.76	1.48	1.24	0.88	
14	0.46	0.42	0.80	0.76	0.96	0.48	2.45	2.45	1.76	1.40	1.56	0.88	
15	0.46	0.42	0.76	0.64	0.92	0.56	2.35	2.05	1.76	1.36	1.32	0.88	
16	0.46	0.42	0.76	0.48	0.72	0.76	3.30	1.95	1.72	1.28	1.00	0.88	
17	0.46	0.42	0.68	0.56	0.80	0.72	4.48	1.76	2.10	1.20	0.96	0.92	
18	0.46	0.42	0.68	0.52	0.76	0.68	9.15	1.72	6.46	1.12	0.92	0.92	
19	0.46	0.42	1.12	0.40	0.80	1.00	6.22	1.72	6.28	1.08	0.92	0.80	
20	0.46	0.42	0.88	0.36	0.60	0.84	3.35	6.70	3.25	1.04	1.04	0.80	
21	0.46	0.42	0.76	0.28	0.32	0.80	3.95	4.05	2.80	1.00	1.00	0.76	
22	0.46	0.42	0.64	0.48	0.32	0.72	2.70	2.80	2.55	0.96	1.00	0.68	
23	0.46	0.42	0.56	1.00	0.36	0.64	2.30	3.40	2.45	0.92	1.00	0.72	
24	0.46	0.42	0.56	0.72	0.44	0.68	3.25	4.42	2.40	0.92	1.00	0.68	
25	0.46	0.42	0.44	0.80	0.52	0.68	2.00	3.50	2.30	0.88	1.00	0.84	
26	0.46	0.42	0.76	0.92	0.88	0.56	1.72	3.75	2.25	0.84	1.00	0.64	
27	0.46	0.42	0.64	0.84	0.80	0.44	1.56	3.40	2.20	0.80	1.00	0.60	
28	0.46	0.42	0.60	0.64	0.72	0.44	2.10	3.00	2.20	0.80	1.00	0.64	
29	0.46	0.42	0.48	0.40	0.68	0.44	4.78	2.90	2.15	0.80	1.00	0.56	
30	0.46	0.42	0.44	0.36	1.24	0.40	3.35	3.25	2.10	0.80		0.48	
31		0.42		0.28	1.32		2.30		2.10	0.80		0.40	
Total	14.12	13.30	26.32	14.54	19.78	19.60	86.40	114.05	95.90	41.72	28.16	24.72	498.61 CMSDAY
Mean	0.47	0.43	0.88	0.47	0.64	0.65	2.79	3.80	3.09	1.35	0.97	0.80	1.36 CMS
Max	0.80	0.46	1.56	1.00	1.32	1.20	9.15	14.54	6.77	2.05	1.56	1.08	14.54 CMS
Min	0.44	0.42	0.44	0.14	0.08	0.40	1.00	1.40	1.72	0.80	0.80	0.40	0.08 CMS
Runoff	1.22	1.15	2.27	1.26	1.71	1.69	7.46	9.85	8.29	3.60	2.43	2.14	43.08 MCM
Momentary Peak	25.32 CMS. at 20.33 m. (MSL.) at 07.00 Hours , on Nov 10 , 2019												
Runoff Yield	10.72 Liters/Second/Square KM.			Momentary Peak Yield 198.71 Liters/Second/Square KM.									



## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

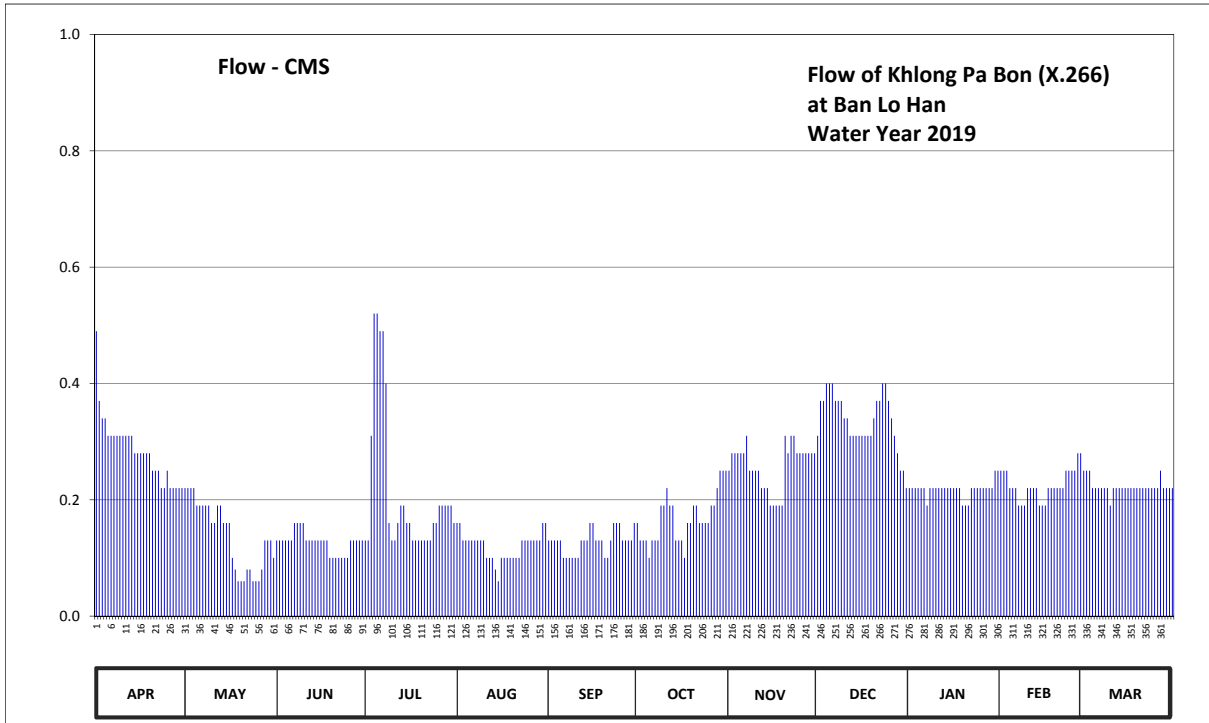
Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

Location : on left bank at Ban Lo Han.

	<b>Ban</b>	<b>Lo Han</b>	<b>Amphoe</b>	<b>Pa Bon</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	38	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (A.D.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the top staff gage.				<b>Elevation</b>	+7.165 m. (A.D.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings					
<b>Period of Available Gage Records</b>	2007 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2007 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2007 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2019.					

## Gage Height in Meter (A.D.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	0.14	0.11	0.11	0.12	0.11	0.12	0.15	0.17	0.14	0.15	0.15	
2	0.19	0.14	0.11	0.11	0.12	0.11	0.11	0.16	0.19	0.14	0.15	0.15	
3	0.18	0.14	0.11	0.17	0.11	0.11	0.11	0.16	0.19	0.14	0.15	0.15	
4	0.18	0.14	0.11	0.24	0.11	0.11	0.11	0.16	0.20	0.14	0.14	0.14	
5	0.17	0.13	0.11	0.24	0.11	0.11	0.10	0.16	0.20	0.14	0.14	0.14	
6	0.17	0.13	0.11	0.23	0.11	0.10	0.11	0.16	0.20	0.14	0.14	0.14	
7	0.17	0.13	0.12	0.23	0.11	0.10	0.11	0.17	0.19	0.13	0.13	0.14	
8	0.17	0.13	0.12	0.20	0.11	0.10	0.11	0.15	0.19	0.14	0.13	0.14	
9	0.17	0.13	0.12	0.12	0.11	0.10	0.13	0.15	0.19	0.14	0.13	0.14	
10	0.17	0.12	0.12	0.11	0.11	0.10	0.13	0.15	0.18	0.14	0.14	0.13	
11	0.17	0.12	0.11	0.11	0.10	0.10	0.14	0.15	0.18	0.14	0.14	0.14	
12	0.17	0.13	0.11	0.12	0.10	0.11	0.13	0.14	0.17	0.14	0.14	0.14	
13	0.17	0.13	0.11	0.13	0.10	0.11	0.13	0.14	0.17	0.14	0.14	0.14	
14	0.16	0.12	0.11	0.13	0.09	0.11	0.11	0.14	0.17	0.14	0.13	0.14	
15	0.16	0.12	0.11	0.12	0.08	0.12	0.11	0.13	0.17	0.14	0.13	0.14	
16	0.16	0.12	0.11	0.12	0.10	0.12	0.11	0.13	0.17	0.14	0.13	0.14	
17	0.16	0.10	0.11	0.11	0.10	0.11	0.10	0.13	0.17	0.14	0.14	0.14	
18	0.16	0.09	0.11	0.11	0.10	0.11	0.12	0.13	0.17	0.14	0.14	0.14	
19	0.16	0.08	0.10	0.11	0.10	0.11	0.12	0.13	0.17	0.13	0.14	0.14	
20	0.15	0.08	0.10	0.11	0.10	0.10	0.13	0.17	0.18	0.13	0.14	0.14	
21	0.15	0.08	0.10	0.11	0.10	0.10	0.13	0.16	0.19	0.13	0.14	0.14	
22	0.15	0.09	0.10	0.11	0.10	0.11	0.12	0.17	0.19	0.14	0.14	0.14	
23	0.14	0.09	0.10	0.11	0.11	0.12	0.12	0.17	0.20	0.14	0.15	0.14	
24	0.14	0.08	0.10	0.12	0.11	0.12	0.12	0.16	0.20	0.14	0.15	0.14	
25	0.15	0.08	0.10	0.12	0.11	0.12	0.12	0.16	0.19	0.14	0.15	0.14	
26	0.14	0.08	0.11	0.13	0.11	0.11	0.13	0.16	0.18	0.14	0.15	0.14	
27	0.14	0.09	0.11	0.13	0.11	0.11	0.13	0.16	0.17	0.14	0.16	0.15	
28	0.14	0.11	0.11	0.13	0.11	0.11	0.14	0.16	0.16	0.14	0.16	0.14	
29	0.14	0.11	0.11	0.13	0.11	0.11	0.15	0.16	0.15	0.14	0.15	0.14	
30	0.14	0.11	0.11	0.13	0.12	0.12	0.15	0.16	0.15	0.15	0.15	0.14	
31		0.10		0.12	0.12		0.15		0.14	0.15		0.14	
Mean	0.16	0.11	0.11	0.14	0.11	0.11	0.12	0.15	0.18	0.14	0.14	0.14	
Max	0.23	0.14	0.12	0.24	0.12	0.12	0.15	0.17	0.20	0.15	0.16	0.15	0.24
Min	0.14	0.08	0.10	0.11	0.08	0.10	0.10	0.13	0.14	0.13	0.13	0.13	0.08
Annual Max Momentary Gage Height	0.43	m. (A.D.) ,		at 22.00 Hours , on Nov 20, 2019									
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,		River Bed -0.21 m. (A.D.)									
Left Bank Elevation	4.80	m. (A.D.) ,											
Right Bank Elevation	6.01	m. (A.D.) ,		Drainage Are	38	Square Kilometers							



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.49	0.22	0.13	0.13	0.16	0.13	0.16	0.25	0.31	0.22	0.25	0.25	
2	0.37	0.22	0.13	0.13	0.16	0.13	0.13	0.28	0.37	0.22	0.25	0.25	
3	0.34	0.22	0.13	0.31	0.13	0.13	0.13	0.28	0.37	0.22	0.25	0.25	
4	0.34	0.22	0.13	0.52	0.13	0.13	0.13	0.28	0.40	0.22	0.22	0.22	
5	0.31	0.19	0.13	0.52	0.13	0.13	0.10	0.28	0.40	0.22	0.22	0.22	
6	0.31	0.19	0.13	0.49	0.13	0.10	0.13	0.28	0.40	0.22	0.22	0.22	
7	0.31	0.19	0.16	0.49	0.13	0.10	0.13	0.31	0.37	0.19	0.19	0.22	
8	0.31	0.19	0.16	0.40	0.13	0.10	0.13	0.25	0.37	0.22	0.19	0.22	
9	0.31	0.19	0.16	0.16	0.13	0.10	0.19	0.25	0.37	0.22	0.19	0.22	
10	0.31	0.16	0.16	0.13	0.13	0.10	0.19	0.25	0.34	0.22	0.22	0.19	
11	0.31	0.16	0.13	0.13	0.10	0.10	0.22	0.25	0.34	0.22	0.22	0.22	
12	0.31	0.19	0.13	0.16	0.10	0.13	0.19	0.22	0.31	0.22	0.22	0.22	
13	0.31	0.19	0.13	0.19	0.10	0.13	0.19	0.22	0.31	0.22	0.22	0.22	
14	0.28	0.16	0.13	0.19	0.08	0.13	0.13	0.22	0.31	0.22	0.19	0.22	
15	0.28	0.16	0.13	0.16	0.06	0.16	0.13	0.19	0.31	0.22	0.19	0.22	
16	0.28	0.16	0.13	0.16	0.10	0.16	0.13	0.19	0.31	0.22	0.19	0.22	
17	0.28	0.10	0.13	0.13	0.10	0.13	0.10	0.19	0.31	0.22	0.22	0.22	
18	0.28	0.08	0.13	0.13	0.10	0.13	0.16	0.19	0.31	0.22	0.22	0.22	
19	0.28	0.06	0.10	0.13	0.10	0.13	0.16	0.19	0.31	0.19	0.22	0.22	
20	0.25	0.06	0.10	0.13	0.10	0.10	0.19	0.31	0.34	0.19	0.22	0.22	
21	0.25	0.06	0.10	0.13	0.10	0.10	0.19	0.28	0.37	0.19	0.22	0.22	
22	0.25	0.08	0.10	0.13	0.10	0.13	0.16	0.31	0.37	0.22	0.22	0.22	
23	0.22	0.08	0.10	0.13	0.13	0.16	0.16	0.31	0.40	0.22	0.25	0.22	
24	0.22	0.06	0.10	0.16	0.13	0.16	0.16	0.28	0.40	0.22	0.25	0.22	
25	0.25	0.06	0.10	0.16	0.13	0.16	0.16	0.28	0.37	0.22	0.25	0.22	
26	0.22	0.06	0.13	0.19	0.13	0.13	0.19	0.28	0.34	0.22	0.25	0.22	
27	0.22	0.08	0.13	0.19	0.13	0.13	0.19	0.28	0.31	0.22	0.28	0.25	
28	0.22	0.13	0.13	0.19	0.13	0.13	0.22	0.28	0.28	0.22	0.28	0.22	
29	0.22	0.13	0.13	0.19	0.13	0.13	0.25	0.28	0.25	0.22	0.25	0.22	
30	0.22	0.13	0.13	0.19	0.16	0.16	0.25	0.28	0.25	0.25		0.22	
31		0.10		0.16	0.16		0.25		0.22	0.25		0.22	
<b>Total</b>	8.55	4.28	3.81	6.61	3.73	3.84	5.20	7.74	10.42	6.76	6.56	6.91	74.41 CMSDAY
<b>Mean</b>	0.29	0.14	0.13	0.21	0.12	0.13	0.17	0.26	0.34	0.22	0.23	0.22	0.20 CMS
<b>Max</b>	0.49	0.22	0.16	0.52	0.16	0.16	0.25	0.31	0.40	0.25	0.28	0.25	0.52 CMS
<b>Min</b>	0.22	0.06	0.10	0.13	0.06	0.10	0.10	0.19	0.22	0.19	0.19	0.19	0.06 CMS
<b>Runoff</b>	0.74	0.37	0.33	0.57	0.32	0.33	0.45	0.67	0.90	0.58	0.57	0.60	6.43 MCM
<b>Momentary Peak</b>	1.25	CMS. at 0.43 m. (A.D.) at 22.00 Hours , on Nov 20, 2019											
<b>Runoff Yield</b>	5.36	Liters/Second/Square KM. Momentary Peak Yield 32.89 Liters/Second/Square KM.											

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Tha Cheat at Ban Mae Khree , Phatthalung (X.267)

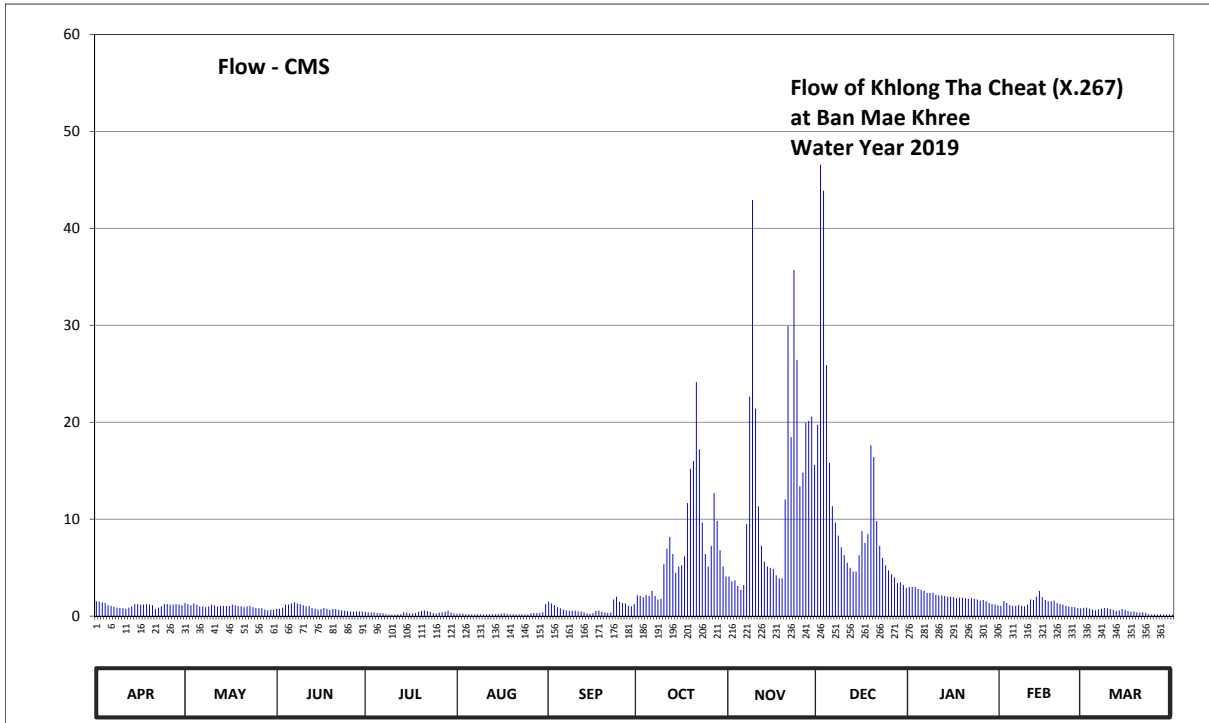
Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	<b>Ban Mae Khree</b>	<b>Amphoe Tamot</b>	<b>Changwat Phatthalung</b>
<b>Drainage Area</b>	295 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.	<b>Elevation</b>	+27.878 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2007 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2007 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2007 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.89	21.86	21.74	21.66	21.61	21.88	21.99	22.19	23.12	22.08	21.81	21.76	
2	21.88	21.84	21.74	21.65	21.61	21.85	21.98	22.14	24.07	22.08	21.89	21.77	
3	21.87	21.82	21.77	21.64	21.61	21.82	21.96	22.15	23.99	22.08	21.86	21.74	
4	21.86	21.85	21.83	21.64	21.60	21.78	22.00	22.09	23.38	22.06	21.82	21.72	
5	21.82	21.83	21.83	21.63	21.60	21.75	21.98	22.05	22.93	22.05	21.81	21.70	
6	21.81	21.80	21.85	21.63	21.59	21.72	22.04	22.10	22.69	22.04	21.81	21.72	
7	21.79	21.80	21.87	21.62	21.59	21.70	21.98	22.58	22.59	22.02	21.82	21.74	
8	21.77	21.78	21.85	21.60	21.59	21.69	21.92	23.25	22.50	22.02	21.81	21.76	
9	21.76	21.80	21.84	21.58	21.59	21.69	21.93	23.96	22.42	22.02	21.80	21.75	
10	21.75	21.83	21.82	21.57	21.59	21.69	22.29	23.20	22.36	22.00	21.83	21.73	
11	21.74	21.82	21.80	21.57	21.59	21.67	22.41	22.69	22.30	21.99	21.92	21.71	
12	21.77	21.80	21.81	21.59	21.59	21.67	22.49	22.43	22.26	21.99	21.91	21.68	
13	21.80	21.81	21.76	21.60	21.60	21.65	22.37	22.31	22.23	21.98	21.97	21.70	
14	21.84	21.81	21.74	21.65	21.60	21.62	22.22	22.27	22.23	21.97	22.04	21.73	
15	21.84	21.81	21.72	21.64	21.60	21.61	22.27	22.26	22.36	21.97	21.96	21.71	
16	21.83	21.81	21.73	21.62	21.61	21.63	22.28	22.25	22.53	21.96	21.91	21.68	
17	21.83	21.83	21.76	21.62	21.62	21.68	22.35	22.20	22.45	21.94	21.89	21.66	
18	21.84	21.82	21.74	21.63	21.60	21.69	22.71	22.17	22.51	21.95	21.89	21.67	
19	21.83	21.81	21.71	21.66	21.59	21.66	22.90	22.17	23.02	21.95	21.90	21.65	
20	21.82	21.80	21.73	21.68	21.59	21.64	22.94	22.73	22.96	21.94	21.86	21.64	
21	21.74	21.78	21.73	21.70	21.59	21.63	23.31	23.53	22.60	21.93	21.84	21.65	
22	21.77	21.80	21.71	21.68	21.59	21.64	23.00	23.06	22.43	21.94	21.83	21.63	
23	21.80	21.81	21.70	21.66	21.59	21.92	22.59	23.73	22.34	21.93	21.81	21.60	
24	21.84	21.78	21.69	21.63	21.59	21.97	22.37	23.40	22.28	21.92	21.80	21.59	
25	21.84	21.76	21.68	21.62	21.59	21.88	22.27	22.81	22.24	21.90	21.79	21.59	
26	21.83	21.75	21.67	21.64	21.62	21.86	22.43	22.88	22.21	21.91	21.78	21.59	
27	21.83	21.75	21.67	21.65	21.63	21.85	22.77	23.13	22.18	21.89	21.76	21.59	
28	21.84	21.72	21.67	21.66	21.63	21.81	22.60	23.14	22.12	21.86	21.75	21.59	
29	21.83	21.70	21.67	21.69	21.63	21.80	22.40	23.16	22.13	21.84	21.74	21.58	
30	21.82	21.71	21.67	21.64	21.65	21.84	22.27	22.92	22.10	21.83		21.58	
31		21.71		21.62	21.84		22.19		22.07	21.82		21.57	
Mean	21.82	21.79	21.75	21.63	21.61	21.74	22.36	22.70	22.57	21.96	21.85	21.67	
Max	21.89	21.86	21.87	21.70	21.84	21.97	23.31	23.96	24.07	22.08	22.04	21.77	24.07
Min	21.74	21.70	21.67	21.57	21.59	21.61	21.92	22.05	22.07	21.82	21.74	21.57	21.57
Annual Max Momentary Gage Height	24.23		m. (MSL.) ,				at 09.00 Hours ,						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed	21.09	m. (MSL.)				
Left Bank Elevation	26.67		m. (MSL.) ,										
Right Bank Elevation	26.52		m. (MSL.) ,				Drainage Are	295	Square Kilometers				



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.54	1.36	0.76	0.44	0.24	1.48	2.14	4.10	19.72	3.00	1.06	0.84	
2	1.48	1.24	0.76	0.40	0.24	1.30	2.08	3.60	46.58	3.00	1.54	0.88	
3	1.42	1.12	0.88	0.36	0.24	1.12	1.96	3.70	43.88	3.00	1.36	0.76	
4	1.36	1.30	1.18	0.36	0.20	0.92	2.20	3.10	25.90	2.80	1.12	0.68	
5	1.12	1.18	1.18	0.32	0.20	0.80	2.08	2.70	15.80	2.70	1.06	0.60	
6	1.06	1.00	1.30	0.32	0.18	0.68	2.60	3.20	11.33	2.60	1.06	0.68	
7	0.96	1.00	1.42	0.28	0.18	0.60	2.08	9.50	9.65	2.40	1.12	0.76	
8	0.88	0.92	1.30	0.20	0.18	0.56	1.72	22.65	8.30	2.40	1.06	0.84	
9	0.84	1.00	1.24	0.16	0.18	0.56	1.78	42.92	7.10	2.40	1.00	0.80	
10	0.80	1.18	1.12	0.14	0.18	0.56	5.37	21.40	6.28	2.20	1.18	0.72	
11	0.76	1.12	1.00	0.14	0.18	0.48	6.95	11.33	5.50	2.14	1.72	0.64	
12	0.88	1.00	1.06	0.18	0.18	0.48	8.15	7.25	4.98	2.14	1.66	0.52	
13	1.00	1.06	0.84	0.20	0.20	0.40	6.41	5.63	4.59	2.08	2.02	0.60	
14	1.24	1.06	0.76	0.40	0.20	0.28	4.46	5.11	4.59	2.02	2.60	0.72	
15	1.24	1.06	0.68	0.36	0.20	0.24	5.11	4.98	6.28	2.02	1.96	0.64	
16	1.18	1.06	0.72	0.28	0.24	0.32	5.24	4.85	8.75	1.96	1.66	0.52	
17	1.18	1.18	0.84	0.28	0.28	0.52	6.15	4.20	7.55	1.84	1.54	0.44	
18	1.24	1.12	0.76	0.32	0.20	0.56	11.67	3.90	8.45	1.90	1.54	0.48	
19	1.18	1.06	0.64	0.44	0.18	0.44	15.20	3.90	17.62	1.90	1.60	0.40	
20	1.12	1.00	0.72	0.52	0.18	0.36	16.00	12.01	16.40	1.84	1.36	0.36	
21	0.76	0.92	0.72	0.60	0.18	0.32	24.15	29.91	9.80	1.78	1.24	0.40	
22	0.88	1.00	0.64	0.52	0.18	0.36	17.20	18.46	7.25	1.84	1.18	0.32	
23	1.00	1.06	0.60	0.44	0.18	1.72	9.65	35.70	6.02	1.78	1.06	0.20	
24	1.24	0.92	0.56	0.32	0.18	2.02	6.41	26.40	5.24	1.72	1.00	0.18	
25	1.24	0.84	0.52	0.28	0.18	1.48	5.11	13.40	4.72	1.60	0.96	0.18	
26	1.18	0.80	0.48	0.36	0.28	1.36	7.25	14.80	4.33	1.66	0.92	0.18	
27	1.18	0.80	0.48	0.40	0.32	1.30	12.69	19.93	4.00	1.54	0.84	0.18	
28	1.24	0.68	0.48	0.44	0.32	1.06	9.80	20.14	3.40	1.36	0.80	0.18	
29	1.18	0.60	0.48	0.56	0.32	1.00	6.80	20.56	3.50	1.24	0.76	0.16	
30	1.12	0.64	0.48	0.36	0.40	1.24	5.11	15.60	3.20	1.18		0.16	
31		0.64		0.28	1.24		4.10		2.90	1.12		0.14	
<b>Total</b>	33.50	30.92	24.60	10.66	7.84	24.52	217.62	394.93	333.61	63.16	37.98	15.16	1194.50 CMSDAY
<b>Mean</b>	1.12	1.00	0.82	0.34	0.25	0.82	7.02	13.16	10.76	2.04	1.31	0.49	3.26 CMS
<b>Max</b>	1.54	1.36	1.42	0.60	1.24	2.02	24.15	42.92	46.58	3.00	2.60	0.88	46.58 CMS
<b>Min</b>	0.76	0.60	0.48	0.14	0.18	0.24	1.72	2.70	2.90	1.12	0.76	0.14	0.14 CMS
<b>Runoff</b>	2.89	2.67	2.13	0.92	0.68	2.12	18.80	34.12	28.82	5.46	3.28	1.31	103.20 MCM
<b>Momentary Peak</b>	52.02 CMS. at 24.23 m. (MSL.) at 09.00 Hours , on Nov 9, 2019												
<b>Runoff Yield</b>	11.09 Liters/Second/Square KM.			Momentary Peak Yield 176.34 Liters/Second/Square KM.									

**WATER YEAR : 2019****THALE SAP SONGKHLA****Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)**

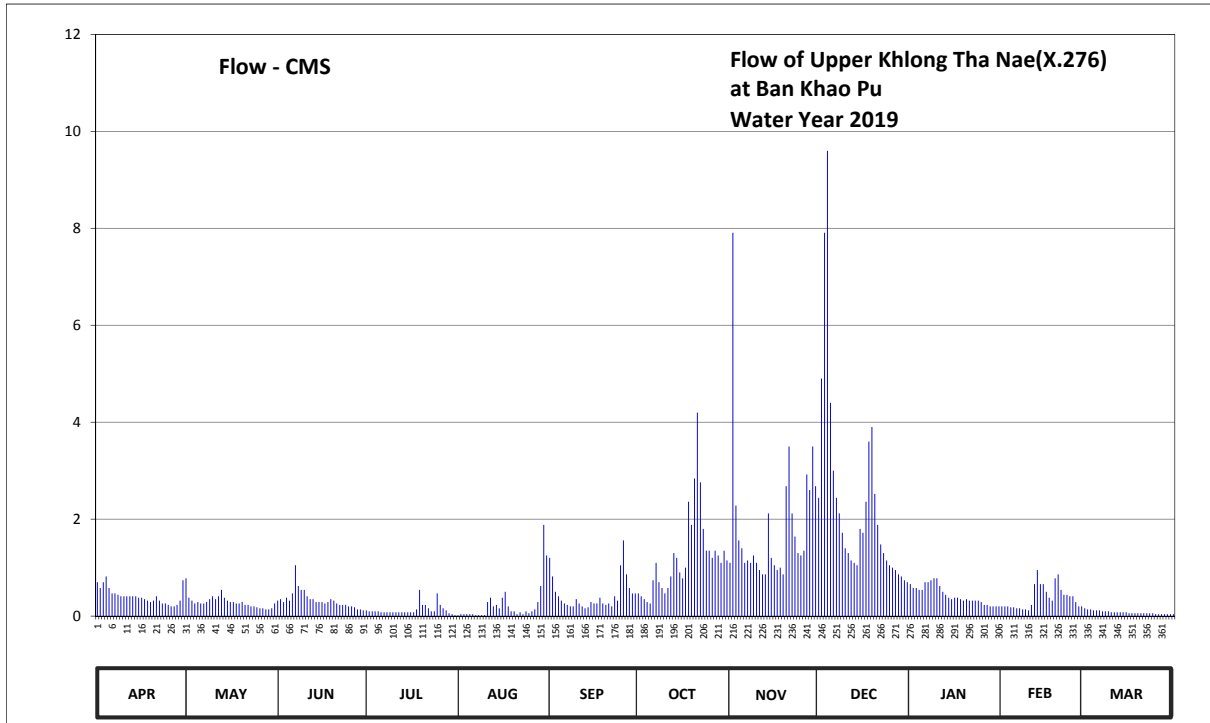
Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

	<b>Ban Khao Pu</b>	<b>Amphoe Si Banphot</b>	<b>Changwat Phatthalung</b>
<b>Drainage Area</b>	47 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank at the abutment of the bridge.	<b>Elevation</b>	+55.054 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.45	50.47	50.34	50.26	50.21	50.56	50.39	50.54	50.73	50.44	50.30	50.28	
2	50.42	50.36	50.35	50.25	50.22	50.48	50.37	51.27	50.99	50.42	50.30	50.27	
3	50.45	50.34	50.33	50.25	50.22	50.40	50.35	50.71	51.27	50.42	50.30	50.27	
4	50.48	50.32	50.36	50.25	50.22	50.37	50.33	50.62	51.40	50.41	50.29	50.26	
5	50.42	50.33	50.34	50.25	50.22	50.34	50.32	50.60	50.94	50.41	50.29	50.26	
6	50.39	50.32	50.39	50.24	50.22	50.32	50.46	50.54	50.80	50.45	50.28	50.26	
7	50.39	50.32	50.53	50.24	50.21	50.31	50.54	50.55	50.73	50.45	50.28	50.25	
8	50.38	50.33	50.43	50.24	50.21	50.30	50.45	50.54	50.69	50.46	50.27	50.25	
9	50.37	50.35	50.41	50.24	50.21	50.30	50.42	50.57	50.64	50.47	50.27	50.25	
10	50.37	50.37	50.41	50.24	50.21	50.35	50.39	50.54	50.60	50.47	50.26	50.24	
11	50.37	50.35	50.37	50.24	50.33	50.32	50.42	50.51	50.58	50.43	50.31	50.24	
12	50.37	50.37	50.35	50.24	50.36	50.30	50.48	50.49	50.55	50.40	50.44	50.24	
13	50.37	50.41	50.35	50.24	50.30	50.28	50.58	50.49	50.54	50.38	50.51	50.24	
14	50.37	50.36	50.33	50.24	50.31	50.29	50.56	50.69	50.53	50.36	50.44	50.24	
15	50.36	50.34	50.33	50.24	50.28	50.33	50.50	50.56	50.65	50.35	50.44	50.24	
16	50.36	50.33	50.33	50.24	50.36	50.32	50.47	50.53	50.64	50.36	50.40	50.23	
17	50.35	50.33	50.32	50.24	50.40	50.32	50.52	50.51	50.72	50.36	50.36	50.23	
18	50.34	50.32	50.33	50.27	50.30	50.36	50.72	50.52	50.86	50.35	50.34	50.23	
19	50.33	50.32	50.35	50.41	50.25	50.32	50.66	50.49	50.89	50.34	50.47	50.23	
20	50.34	50.33	50.34	50.31	50.25	50.31	50.78	50.76	50.74	50.35	50.49	50.23	
21	50.37	50.31	50.32	50.31	50.22	50.32	50.92	50.85	50.66	50.34	50.41	50.23	
22	50.34	50.31	50.31	50.28	50.24	50.30	50.77	50.69	50.61	50.34	50.38	50.23	
23	50.32	50.30	50.31	50.25	50.22	50.37	50.65	50.63	50.58	50.34	50.38	50.23	
24	50.32	50.30	50.31	50.25	50.25	50.34	50.59	50.58	50.55	50.34	50.37	50.23	
25	50.31	50.29	50.30	50.39	50.23	50.53	50.59	50.57	50.53	50.33	50.37	50.22	
26	50.30	50.28	50.30	50.31	50.25	50.62	50.56	50.59	50.52	50.31	50.33	50.22	
27	50.30	50.28	50.29	50.28	50.27	50.49	50.59	50.79	50.51	50.31	50.30	50.22	
28	50.31	50.27	50.27	50.26	50.33	50.42	50.57	50.75	50.49	50.30	50.30	50.22	
29	50.34	50.27	50.27	50.23	50.43	50.39	50.54	50.85	50.48	50.30	50.29	50.22	
30	50.46	50.28	50.26	50.22	50.66	50.39	50.59	50.76	50.46	50.30	50.28	50.22	
31		50.32		50.21	50.57		50.55		50.45	50.30		50.22	
Mean	50.37	50.33	50.34	50.26	50.29	50.37	50.54	50.64	50.69	50.37	50.35	50.24	
Max	50.48	50.47	50.53	50.41	50.66	50.62	50.92	51.27	51.40	50.47	50.51	50.28	51.40
Min	50.30	50.27	50.26	50.21	50.21	50.28	50.32	50.49	50.45	50.30	50.26	50.22	50.21
Annual Max Momentary Gage Height	52.78		m. (MSL.) ,			at 03.00 Hours ,	on Nov 2, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	49.86	m. (MSL.)					
Left Bank Elevation		54.21		m. (MSL.) ,									
Right Bank Elevation		53.87		m. (MSL.) ,		Drainage Are	47	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.78	0.32	0.12	0.02	1.20	0.47	1.10	2.44	0.66	0.20	0.16	
2	0.58	0.38	0.35	0.10	0.04	0.82	0.41	7.91	4.90	0.58	0.20	0.14	
3	0.70	0.32	0.29	0.10	0.04	0.50	0.35	2.28	7.91	0.58	0.20	0.14	
4	0.82	0.26	0.38	0.10	0.04	0.41	0.29	1.56	9.60	0.54	0.18	0.12	
5	0.58	0.29	0.32	0.10	0.04	0.32	0.26	1.40	4.40	0.54	0.18	0.12	
6	0.47	0.26	0.47	0.08	0.04	0.26	0.74	1.10	3.00	0.70	0.16	0.12	
7	0.47	0.26	1.05	0.08	0.02	0.23	1.10	1.15	2.44	0.70	0.16	0.10	
8	0.44	0.29	0.62	0.08	0.02	0.20	0.70	1.10	2.12	0.74	0.14	0.10	
9	0.41	0.35	0.54	0.08	0.02	0.20	0.58	1.25	1.72	0.78	0.14	0.10	
10	0.41	0.41	0.54	0.08	0.02	0.35	0.47	1.10	1.40	0.78	0.12	0.08	
11	0.41	0.35	0.41	0.08	0.29	0.26	0.58	0.95	1.30	0.62	0.23	0.08	
12	0.41	0.41	0.35	0.08	0.38	0.20	0.82	0.86	1.15	0.50	0.66	0.08	
13	0.41	0.54	0.35	0.08	0.20	0.16	1.30	0.86	1.10	0.44	0.95	0.08	
14	0.41	0.38	0.29	0.08	0.23	0.18	1.20	2.12	1.05	0.38	0.66	0.08	
15	0.38	0.32	0.29	0.08	0.16	0.29	0.90	1.20	1.80	0.35	0.66	0.08	
16	0.38	0.29	0.29	0.08	0.38	0.26	0.78	1.05	1.72	0.38	0.50	0.06	
17	0.35	0.29	0.26	0.08	0.50	0.26	1.00	0.95	2.36	0.38	0.38	0.06	
18	0.32	0.26	0.29	0.14	0.20	0.38	2.36	1.00	3.60	0.35	0.32	0.06	
19	0.29	0.26	0.35	0.54	0.10	0.26	1.88	0.86	3.90	0.32	0.78	0.06	
20	0.32	0.29	0.32	0.23	0.10	0.23	2.84	2.68	2.52	0.35	0.86	0.06	
21	0.41	0.23	0.26	0.23	0.04	0.26	4.20	3.50	1.88	0.32	0.54	0.06	
22	0.32	0.23	0.23	0.16	0.08	0.20	2.76	2.12	1.48	0.32	0.44	0.06	
23	0.26	0.20	0.23	0.10	0.04	0.41	1.80	1.64	1.30	0.32	0.44	0.06	
24	0.26	0.20	0.23	0.10	0.10	0.32	1.35	1.30	1.15	0.32	0.41	0.06	
25	0.23	0.18	0.20	0.47	0.06	1.05	1.35	1.25	1.05	0.29	0.41	0.04	
26	0.20	0.16	0.20	0.23	0.10	1.56	1.20	1.35	1.00	0.23	0.29	0.04	
27	0.20	0.16	0.18	0.16	0.14	0.86	1.35	2.92	0.95	0.23	0.20	0.04	
28	0.23	0.14	0.14	0.12	0.29	0.58	1.25	2.60	0.86	0.20	0.20	0.04	
29	0.32	0.14	0.14	0.06	0.62	0.47	1.10	3.50	0.82	0.20	0.18	0.04	
30	0.74	0.16	0.12	0.04	1.88	0.47	1.35	2.68	0.74	0.20		0.04	
31		0.26		0.02	1.25		1.15		0.70	0.20		0.04	
<b>Total</b>	12.43	9.05	10.01	4.08	7.44	13.15	37.89	55.34	72.36	13.50	10.79	2.40	248.44 CMSDAY
<b>Mean</b>	0.41	0.29	0.33	0.13	0.24	0.44	1.22	1.84	2.33	0.44	0.37	0.08	0.68 CMS
<b>Max</b>	0.82	0.78	1.05	0.54	1.88	1.56	4.20	7.91	9.60	0.78	0.95	0.16	9.60 CMS
<b>Min</b>	0.20	0.14	0.12	0.02	0.02	0.16	0.26	0.86	0.70	0.20	0.12	0.04	0.02 CMS
<b>Runoff</b>	1.07	0.78	0.86	0.35	0.64	1.14	3.27	4.78	6.25	1.17	0.93	0.21	21.47 MCM
<b>Momentary Peak</b>	33.20	CMS. at 52.78 m. (MSL.) at 03.00 Hours , on Nov 2, 2019											
<b>Runoff Yield</b>	14.33	Liters/Second/Square KM. Momentary Peak Yield 698.95 Liters/Second/Square KM.											

## WATER YEAR : 2019

## PATTANI RIVER BASIN

## Pattani River at Ban Tha Sap, Yala (X.40A)

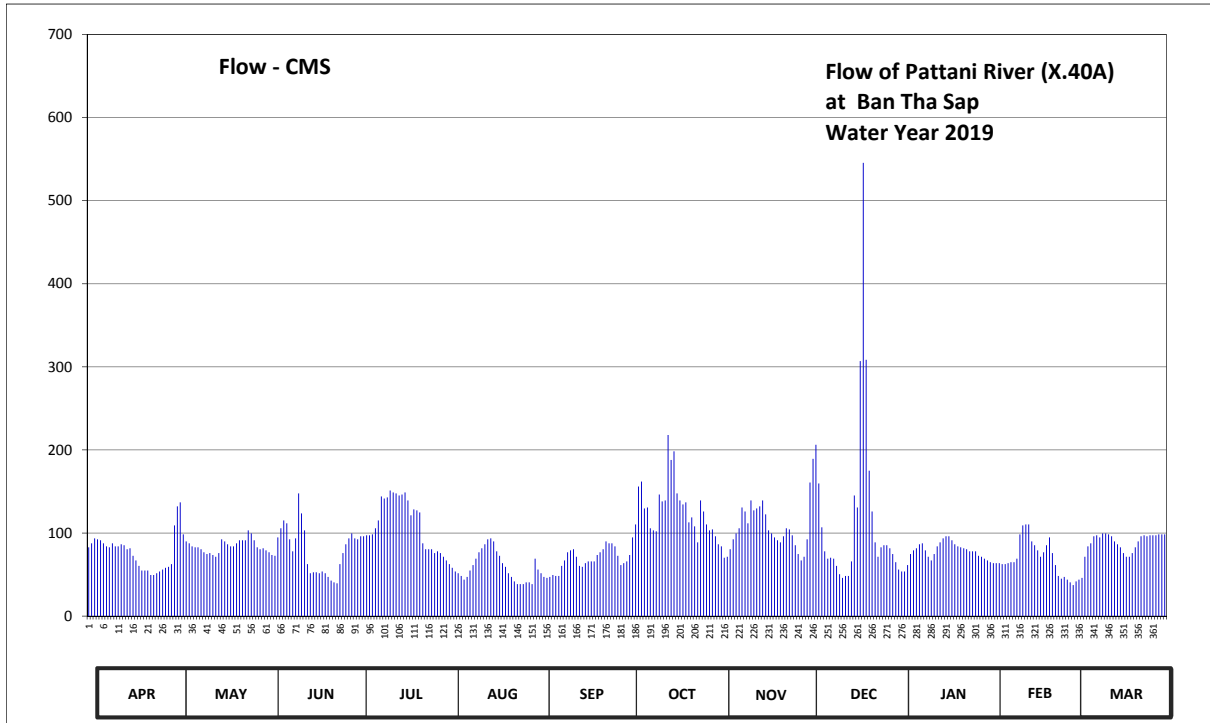
Lat 06 - 33 - 03 N Long 101 - 16 - 10 E

Location : on left bank at the bridge of Yala - Ban Niang Road.

	<b>Ban Tha Sap</b>	<b>Amphoe Mueang</b>	<b>Changwat Yala</b>
<b>Drainage Area</b>	3,259 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank between the fourth and the fifth staff gage.	<b>Elevation</b>	+22.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1988 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1989 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1989 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 16.510 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair. Flow regulated by Bang Lang Dam upstream. Stage-discharge relation defined by 13 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.34	13.75	13.29	13.42	13.16	13.06	13.26	13.35	13.99	13.08	13.17	12.97	
2	13.38	13.79	13.26	13.45	13.12	13.02	13.44	13.23	14.21	13.08	13.17	12.99	
3	13.43	13.47	13.25	13.45	13.08	13.01	13.57	13.24	14.34	13.15	13.17	13.01	
4	13.42	13.40	13.44	13.46	13.06	13.02	13.95	13.32	13.98	13.27	13.16	13.24	
5	13.41	13.38	13.53	13.46	13.03	13.04	14.00	13.42	13.54	13.31	13.16	13.35	
6	13.38	13.35	13.61	13.47	12.99	13.03	13.73	13.48	13.30	13.33	13.17	13.38	
7	13.35	13.34	13.58	13.53	13.02	13.03	13.74	13.53	13.22	13.37	13.18	13.45	
8	13.34	13.34	13.42	13.61	13.09	13.14	13.53	13.74	13.23	13.38	13.18	13.46	
9	13.38	13.32	13.30	13.85	13.15	13.20	13.51	13.70	13.22	13.31	13.22	13.44	
10	13.35	13.29	13.43	13.83	13.22	13.29	13.50	13.58	13.14	13.24	13.47	13.48	
11	13.35	13.27	13.88	13.84	13.29	13.31	13.87	13.81	13.05	13.20	13.56	13.48	
12	13.37	13.28	13.68	13.91	13.33	13.32	13.80	13.71	13.01	13.27	13.57	13.47	
13	13.36	13.26	13.51	13.89	13.37	13.24	13.81	13.73	13.03	13.35	13.57	13.45	
14	13.32	13.24	13.16	13.88	13.42	13.14	14.43	13.75	13.03	13.39	13.40	13.40	
15	13.33	13.28	13.06	13.86	13.43	13.13	14.20	13.81	13.19	13.43	13.36	13.37	
16	13.25	13.42	13.07	13.87	13.40	13.17	14.28	13.67	13.86	13.45	13.31	13.34	
17	13.20	13.40	13.07	13.89	13.30	13.19	13.88	13.51	13.74	13.45	13.24	13.28	
18	13.14	13.37	13.06	13.81	13.25	13.19	13.81	13.48	15.08	13.41	13.29	13.24	
19	13.09	13.35	13.08	13.66	13.17	13.19	13.77	13.44	16.53	13.37	13.36	13.24	
20	13.09	13.35	13.06	13.72	13.13	13.26	13.79	13.41	15.09	13.35	13.44	13.28	
21	13.09	13.38	13.02	13.71	13.06	13.29	13.59	13.39	14.10	13.34	13.28	13.34	
22	13.04	13.41	12.98	13.69	13.02	13.32	13.64	13.45	13.70	13.33	13.15	13.40	
23	13.04	13.41	12.96	13.38	12.97	13.40	13.55	13.53	13.39	13.32	13.03	13.45	
24	13.06	13.41	12.95	13.32	12.94	13.38	13.39	13.52	13.24	13.30	13.00	13.46	
25	13.08	13.51	13.16	13.32	12.94	13.38	13.81	13.46	13.34	13.30	13.02	13.45	
26	13.10	13.48	13.28	13.32	12.94	13.35	13.70	13.36	13.36	13.30	12.99	13.46	
27	13.12	13.41	13.37	13.28	12.96	13.25	13.57	13.27	13.36	13.25	12.96	13.46	
28	13.13	13.34	13.43	13.30	12.96	13.15	13.51	13.20	13.33	13.24	12.93	13.46	
29	13.16	13.32	13.48	13.28	12.94	13.17	13.52	13.24	13.27	13.22	12.95	13.47	
30	13.56	13.33	13.43	13.24	13.22	13.19	13.45	13.42	13.18	13.20		13.47	
31		13.31		13.20	13.10		13.37		13.10	13.18		13.47	
Mean	13.26	13.39	13.29	13.58	13.13	13.20	13.71	13.49	13.65	13.30	13.22	13.36	
Max	13.56	13.79	13.88	13.91	13.43	13.40	14.43	13.81	16.53	13.45	13.57	13.48	16.53
Min	13.04	13.24	12.95	13.20	12.94	13.01	13.26	13.20	13.01	13.08	12.93	12.97	12.93
Annual Max Momentary Gage Height	16.80	m. (MSL.) ,		at 10.00 Hours , on Dec 19, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed	10.06	m. (MSL.)							
Left Bank Elevation	16.50	m. (MSL.) ,											
Right Bank Elevation	18.70	m. (MSL.) ,		Drainage Area	3,259	Square Kilometers							



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	82.80	132.00	76.90	92.40	62.60	51.60	73.60	84.00	160.80	53.80	63.70	41.70		
2	87.60	136.80	73.60	96.00	58.20	47.20	94.80	70.30	189.30	53.80	63.70	43.90		
3	93.60	98.40	72.50	96.00	53.80	46.10	110.40	71.40	206.20	61.50	63.70	46.10		
4	92.40	90.00	94.80	97.20	51.60	47.20	156.00	80.40	159.60	74.70	62.60	71.40		
5	91.20	87.60	105.60	97.20	48.30	49.40	162.00	92.40	106.80	79.20	62.60	84.00		
6	87.60	84.00	115.20	98.40	43.90	48.30	129.60	99.60	78.00	81.60	63.70	87.60		
7	84.00	82.80	111.60	105.60	47.20	48.30	130.80	105.60	69.20	86.40	64.80	96.00		
8	82.80	82.80	92.40	115.20	54.90	60.40	105.60	130.80	70.30	87.60	64.80	97.20		
9	87.60	80.40	78.00	144.00	61.50	67.00	103.20	126.00	69.20	79.20	69.20	94.80		
10	84.00	76.90	93.60	141.60	69.20	76.90	102.00	111.60	60.40	71.40	98.40	99.60		
11	84.00	74.70	147.60	142.80	76.90	79.20	146.40	139.20	50.50	67.00	109.20	99.60		
12	86.40	75.80	123.60	151.20	81.60	80.40	138.00	127.20	46.10	74.70	110.40	98.40		
13	85.20	73.60	103.20	148.80	86.40	71.40	139.20	129.60	48.30	84.00	110.40	96.00		
14	80.40	71.40	62.60	147.60	92.40	60.40	217.90	132.00	48.30	88.80	90.00	90.00		
15	81.60	75.80	51.60	145.20	93.60	59.30	188.00	139.20	65.90	93.60	85.20	86.40		
16	72.50	92.40	52.70	146.40	90.00	63.70	198.40	122.40	145.20	96.00	79.20	82.80		
17	67.00	90.00	52.70	148.80	78.00	65.90	147.60	103.20	130.80	96.00	71.40	75.80		
18	60.40	86.40	51.60	139.20	72.50	65.90	139.20	99.60	307.00	91.20	76.90	71.40		
19	54.90	84.00	53.80	121.20	63.70	65.90	134.40	94.80	545.40	86.40	85.20	71.40		
20	54.90	84.00	51.60	128.40	59.30	73.60	136.80	91.20	308.50	84.00	94.80	75.80		
21	54.90	87.60	47.20	127.20	51.60	76.90	112.80	88.80	175.00	82.80	75.80	82.80		
22	49.40	91.20	42.80	124.80	47.20	80.40	118.80	96.00	126.00	81.60	61.50	90.00		
23	49.40	91.20	40.60	87.60	41.70	90.00	108.00	105.60	88.80	80.40	48.30	96.00		
24	51.60	91.20	39.50	80.40	38.40	87.60	88.80	104.40	71.40	78.00	45.00	97.20		
25	53.80	103.20	62.60	80.40	38.40	87.60	139.20	97.20	82.80	78.00	47.20	96.00		
26	56.00	99.60	75.80	80.40	38.40	84.00	126.00	85.20	85.20	78.00	43.90	97.20		
27	58.20	91.20	86.40	75.80	40.60	72.50	110.40	74.70	85.20	72.50	40.60	97.20		
28	59.30	82.80	93.60	78.00	40.60	61.50	103.20	67.00	81.60	71.40	37.30	97.20		
29	62.60	80.40	99.60	75.80	38.40	63.70	104.40	71.40	74.70	69.20	39.50	98.40		
30	109.20	81.60	93.60	71.40	69.20	65.90	96.00	92.40	64.80	67.00		98.40		
31		79.20		67.00	56.00		86.40		56.00	64.80		98.40		
<b>Total</b>	2205.30	2739.00	2346.90	3452.00	1846.10	1998.20	3947.90	3033.20	3857.30	2414.60	2029.00	2658.70	32528.20	CMSDAY
<b>Mean</b>	73.51	88.35	78.23	111.35	59.55	66.61	127.35	101.11	124.43	77.89	69.97	85.76	88.87	CMS
<b>Max</b>	109.20	136.80	147.60	151.20	93.60	90.00	217.90	139.20	545.40	96.00	110.40	99.60	545.40	CMS
<b>Min</b>	49.40	71.40	39.50	67.00	38.40	46.10	73.60	67.00	46.10	53.80	37.30	41.70	37.30	CMS
<b>Runoff</b>	190.54	236.65	202.77	298.25	159.50	172.64	341.10	262.07	333.27	208.62	175.31	229.71	2810.44	MCM
<b>Momentary Peak</b>		596.00	CMS. at 16.80 m. (MSL.)											on Dec 19, 2019
<b>Runoff Yield</b>		27.35	Liters/Second/Square KM.											Momentary Peak Yield 182.89 Liters/Second/Square KM.



**WATER YEAR : 2019****PATTANI RIVER BASIN**

Pattani River at Ban Pree Kee, Pattani (X.283)

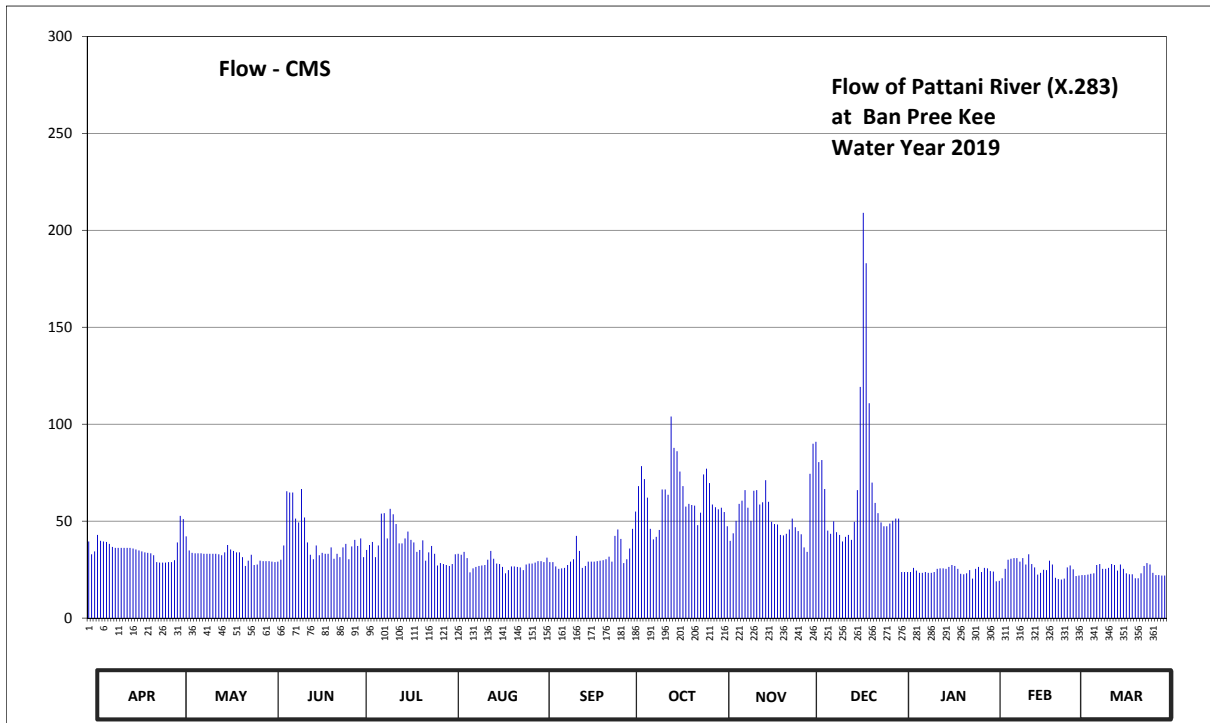
Lat 06 - 33 - 03 N Long 101 - 16 - 10 E

Location : on left bank at the bridge .

	<b>Ban Pree Kee</b>	<b>Amphoe Yarang</b>	<b>Changwat Pattani</b>
<b>Drainage Area</b>	-	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank downstream side at the footpath of the bridge.	<b>Elevation</b>	+11.400 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2019 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2019 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2019 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 7.520 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records fair.Stage-discharge relation defined by 12 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.06	5.04	4.66	4.97	4.56	4.66	4.92	5.69	6.28	4.43	4.44	4.34	
2	4.80	5.54	4.65	5.12	4.60	4.64	5.30	5.61	6.74	4.43	4.22	4.35	
3	4.86	5.48	4.64	4.74	4.80	4.73	5.62	5.35	6.77	4.43	4.23	4.36	
4	5.19	5.16	4.65	4.89	4.81	4.64	6.07	5.07	6.47	4.43	4.29	4.36	
5	5.07	4.88	4.69	4.99	4.79	4.64	6.41	5.22	6.50	4.52	4.50	4.37	
6	5.06	4.83	4.98	5.05	4.85	4.55	6.19	5.45	6.02	4.46	4.69	4.39	
7	5.05	4.82	5.98	4.74	4.72	4.50	5.87	5.76	5.27	4.41	4.71	4.40	
8	5.01	4.82	5.96	4.98	4.42	4.51	5.30	5.82	5.21	4.41	4.72	4.58	
9	4.95	4.82	5.96	5.58	4.51	4.52	5.10	6.00	5.44	4.43	4.72	4.60	
10	4.93	4.81	5.49	5.59	4.54	4.58	5.15	5.69	5.24	4.41	4.65	4.50	
11	4.93	4.81	5.42	5.12	4.56	4.65	5.28	5.45	5.19	4.41	4.72	4.50	
12	4.93	4.81	6.02	5.67	4.57	4.70	6.01	5.99	5.06	4.43	4.59	4.52	
13	4.93	4.81	5.51	5.57	4.58	5.17	6.01	6.00	5.15	4.50	4.80	4.60	
14	4.93	4.81	5.04	5.39	4.69	4.87	5.92	5.75	5.19	4.51	4.60	4.58	
15	4.93	4.80	4.79	5.02	4.87	4.52	7.10	5.79	5.09	4.51	4.53	4.46	
16	4.92	4.78	4.70	5.02	4.71	4.56	6.68	6.17	5.43	4.50	4.37	4.59	
17	4.90	4.84	4.98	5.12	4.61	4.65	6.63	5.80	6.00	4.54	4.41	4.50	
18	4.88	4.99	4.78	5.25	4.60	4.65	6.32	5.43	7.48	4.58	4.48	4.40	
19	4.86	4.90	4.83	5.09	4.54	4.65	6.07	5.39	9.25	4.56	4.47	4.38	
20	4.84	4.87	4.81	5.04	4.40	4.66	5.71	5.38	8.81	4.50	4.67	4.38	
21	4.83	4.84	4.81	4.85	4.47	4.67	5.76	5.19	7.27	4.39	4.59	4.29	
22	4.82	4.84	4.94	4.89	4.55	4.68	5.74	5.18	6.13	4.38	4.30	4.29	
23	4.78	4.74	4.71	5.08	4.55	4.70	5.73	5.21	5.78	4.40	4.27	4.40	
24	4.64	4.56	4.81	4.67	4.54	4.75	5.37	5.29	5.59	4.47	4.26	4.56	
25	4.63	4.67	4.74	4.84	4.53	4.65	5.60	5.49	5.42	4.28	4.28	4.62	
26	4.63	4.79	4.94	4.97	4.47	5.17	6.27	5.33	5.35	4.50	4.53	4.59	
27	4.63	4.58	5.01	4.81	4.59	5.29	6.37	5.26	5.35	4.54	4.57	4.41	
28	4.64	4.59	4.70	4.57	4.61	5.11	6.12	5.20	5.40	4.43	4.49	4.36	
29	4.64	4.67	4.96	4.62	4.61	4.62	5.75	4.94	5.45	4.52	4.35	4.36	
30	4.68	4.66	5.09	4.60	4.63	4.70	5.70	4.85	5.49	4.51	4.51	4.35	
31		4.66		4.58	4.66		5.66		5.49	4.45		4.35	
Mean	4.86	4.85	5.04	5.01	4.61	4.71	5.86	5.49	5.98	4.46	4.50	4.44	
Max	5.19	5.54	6.02	5.67	4.87	5.29	7.10	6.17	9.25	4.58	4.80	4.62	9.25
Min	4.63	4.56	4.64	4.57	4.40	4.50	4.92	4.85	5.06	4.28	4.22	4.29	4.22
Annual Max Momentary Gage Height	9.49												
Zero Gage at Bottom Elevation	0.00						1.69						
Left Bank Elevation		7.51											
Right Bank Elevation		10.09											
Annual Max Momentary Gage Height	m. (MSL.) , at 13.00 Hours , on Dec 19, 2019												
Zero Gage at Bottom Elevation	m. (MSL.) , River Bed												
Left Bank Elevation	m. (MSL.) ,												
Right Bank Elevation	m. (MSL.) , Drainage Are - Square Kilometers												



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.56	39.04	29.40	37.22	26.90	29.40	35.92	56.92	74.40	23.79	24.02	21.72	
2	32.90	52.72	29.15	41.12	27.90	28.90	46.00	54.68	89.90	23.79	18.96	21.95	
3	34.40	51.04	28.90	31.40	32.90	31.15	54.96	47.40	90.95	23.79	19.19	22.18	
4	42.94	42.16	29.15	35.15	33.15	28.90	68.10	39.82	80.45	23.79	20.57	22.18	
5	39.82	34.90	30.15	37.74	32.65	28.90	78.35	43.76	81.50	25.90	25.40	22.41	
6	39.56	33.65	37.48	39.30	34.15	26.65	71.70	50.20	66.60	24.48	30.15	22.87	
7	39.30	33.40	65.40	31.40	30.90	25.40	62.10	58.88	45.16	23.33	30.65	23.10	
8	38.26	33.40	64.80	37.48	23.56	25.65	46.00	60.60	43.48	23.33	30.90	27.40	
9	36.70	33.40	64.80	53.84	25.65	25.90	40.60	66.00	49.92	23.79	30.90	27.90	
10	36.18	33.15	51.32	54.12	26.40	27.40	41.90	56.92	44.32	23.33	29.15	25.40	
11	36.18	33.15	49.36	41.12	26.90	29.15	45.44	50.20	42.94	23.33	30.90	25.40	
12	36.18	33.15	66.60	56.36	27.15	30.40	66.30	65.70	39.56	23.79	27.65	25.90	
13	36.18	33.15	51.88	53.56	27.40	42.42	66.30	66.00	41.90	25.40	32.90	27.90	
14	36.18	33.15	39.04	48.52	30.15	34.65	63.60	58.60	42.94	25.65	27.90	27.40	
15	36.18	32.90	32.65	38.52	34.65	25.90	104.00	59.72	40.34	25.65	26.15	24.48	
16	35.92	32.40	30.40	38.52	30.65	26.90	87.80	71.10	49.64	25.40	22.41	27.65	
17	35.40	33.90	37.48	41.12	28.15	29.15	86.05	60.00	66.00	26.40	23.33	25.40	
18	34.90	37.74	32.40	44.60	27.90	29.15	75.60	49.64	119.20	27.40	24.94	23.10	
19	34.40	35.40	33.65	40.34	26.40	29.15	68.10	48.52	209.00	26.90	24.71	22.64	
20	33.90	34.65	33.15	39.04	23.10	29.40	57.48	48.24	183.05	25.40	29.65	22.64	
21	33.65	33.90	33.15	34.15	24.71	29.65	58.88	42.94	110.80	22.87	27.65	20.57	
22	33.40	33.90	36.44	35.15	26.65	29.90	58.32	42.68	69.90	22.64	20.80	20.57	
23	32.40	31.40	30.65	40.08	26.65	30.40	58.04	43.48	59.44	23.10	20.11	23.10	
24	28.90	26.90	33.15	29.65	26.40	31.65	47.96	45.72	54.12	24.71	19.88	26.90	
25	28.65	29.65	31.40	33.90	26.15	29.15	54.40	51.32	49.36	20.34	20.34	28.40	
26	28.65	32.65	36.44	37.22	24.71	42.42	74.10	46.84	47.40	25.40	26.15	27.65	
27	28.65	27.40	38.26	33.15	27.65	45.72	77.10	44.88	47.40	26.40	27.15	23.33	
28	28.90	27.65	30.40	27.15	28.15	40.86	69.60	43.20	48.80	23.79	25.17	22.18	
29	28.90	29.65	36.96	28.40	28.15	28.40	58.60	36.44	50.20	25.90	21.95	22.18	
30	29.90	29.40	40.34	27.90	28.65	30.40	57.20	34.15	51.32	25.65		21.95	
31		29.40		27.40	29.40		56.08		51.32	24.25		21.95	
Total	1037.04	1058.35	1184.35	1194.62	873.88	923.07	1936.58	1544.55	2141.31	759.69	739.63	748.40	14141.47 CMSDAY
Mean	34.57	34.14	39.48	38.54	28.19	30.77	62.47	51.49	69.07	24.51	25.50	24.14	38.64 CMS
Max	42.94	52.72	66.60	56.36	34.65	45.72	104.00	71.10	209.00	27.40	32.90	28.40	209.00 CMS
Min	28.65	26.90	28.90	27.15	23.10	25.40	35.92	34.15	39.56	20.34	18.96	20.57	18.96 CMS
Runoff	89.60	91.44	102.33	103.22	75.50	79.75	167.32	133.45	185.01	65.64	63.90	64.66	1221.82 MCM
Momentary Peak	223.40 CMS. at 9.49 m. (MSL.) at 13.00 Hours , on Dec 19, 2019												
Runoff Yield	***** Liters/Second/Square KM. Momentary Peak Yield ***** Liters/Second/Square KM.												

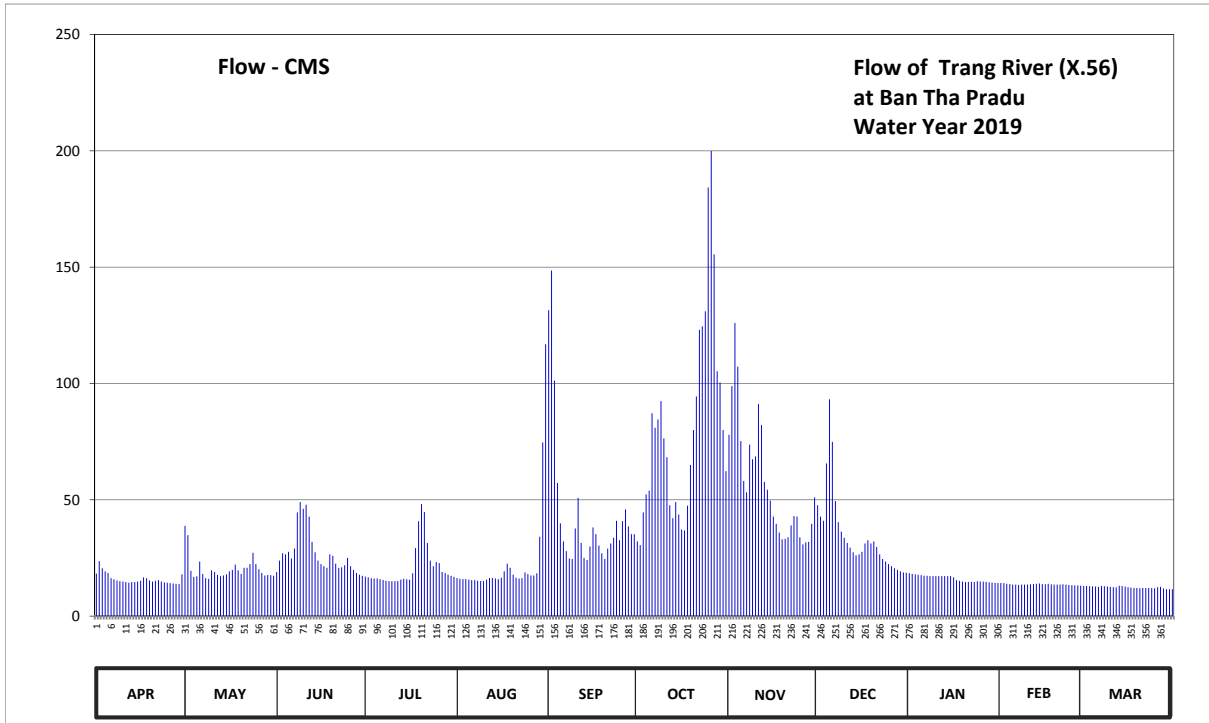
**WATER YEAR : 2019**  
**SOUTHERN PENINSULA WEST COAST**  
**Trang River at Ban Tha Pradu , Trang (X.56)**  
 Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	<b>Ban</b>	<b>Tha Pradu</b>	<b>Amphoe</b>	<b>Huai Yot</b>	<b>Changwat</b>	<b>Trang</b>
<b>Drainage Area</b>	1,801 sq.km.					
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank near the top staff gage.				<b>Elevation</b>	+19.353 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	2004 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2004 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2004 to date					
<b>Stability of Channel Regimes</b>	Stable.					
<b>Overbank Flow Conditions</b>	No overbank flow.					
<b>General Description</b>	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2019.					

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.54	8.49	7.59	7.43	7.38	11.39	8.19	10.03	8.89	7.55	7.20	7.09	
2	7.81	8.31	7.82	7.40	7.35	11.73	8.12	10.62	8.67	7.53	7.19	7.09	
3	7.67	7.62	7.96	7.37	7.34	10.68	8.75	11.28	8.59	7.51	7.17	7.08	
4	7.61	7.42	7.94	7.36	7.34	9.32	9.10	10.83	9.62	7.50	7.16	7.07	
5	7.56	7.44	7.99	7.36	7.32	8.54	9.17	9.94	10.48	7.48	7.14	7.07	
6	7.37	7.80	7.86	7.34	7.30	8.19	10.33	9.36	9.93	7.46	7.14	7.06	
7	7.33	7.53	8.05	7.31	7.30	8.00	10.13	9.14	8.97	7.46	7.13	7.09	
8	7.29	7.37	8.75	7.28	7.28	7.86	10.25	9.89	8.56	7.45	7.14	7.08	
9	7.26	7.35	8.95	7.27	7.27	7.85	10.46	9.68	8.38	7.45	7.14	7.07	
10	7.25	7.63	8.82	7.26	7.27	8.44	9.98	9.72	8.26	7.45	7.14	7.06	
11	7.23	7.60	8.90	7.26	7.32	9.03	9.71	10.43	8.16	7.45	7.15	7.05	
12	7.21	7.49	8.67	7.27	7.38	8.16	8.89	10.17	8.07	7.45	7.16	7.04	
13	7.23	7.44	8.18	7.32	7.38	7.87	8.64	9.34	7.98	7.45	7.17	7.10	
14	7.23	7.47	7.98	7.35	7.36	7.83	8.95	9.19	7.92	7.45	7.18	7.09	
15	7.25	7.51	7.82	7.33	7.34	8.09	8.71	8.98	7.94	7.45	7.16	7.07	
16	7.28	7.61	7.75	7.32	7.39	8.46	8.42	8.67	7.99	7.40	7.15	7.05	
17	7.40	7.64	7.71	7.55	7.61	8.33	8.40	8.53	8.15	7.30	7.17	7.03	
18	7.37	7.74	7.68	8.06	7.76	8.11	8.88	8.36	8.21	7.28	7.15	7.02	
19	7.29	7.63	7.94	8.58	7.68	7.96	9.60	8.23	8.15	7.25	7.14	7.02	
20	7.25	7.53	7.91	8.91	7.50	7.85	10.10	8.24	8.19	7.23	7.14	7.01	
21	7.28	7.68	7.76	8.76	7.39	8.05	10.51	8.27	8.08	7.24	7.14	7.02	
22	7.30	7.68	7.68	8.16	7.36	8.15	11.22	8.50	7.94	7.24	7.15	7.02	
23	7.25	7.75	7.69	7.82	7.37	8.26	11.25	8.68	7.85	7.24	7.14	7.02	
24	7.22	7.97	7.73	7.71	7.58	8.59	11.38	8.67	7.80	7.26	7.13	7.02	
25	7.21	7.75	7.87	7.79	7.52	8.21	12.42	8.27	7.75	7.25	7.12	7.01	
26	7.19	7.65	7.71	7.77	7.47	8.58	12.67	8.13	7.71	7.25	7.11	7.05	
27	7.18	7.56	7.64	7.60	7.47	8.81	11.87	8.17	7.67	7.24	7.11	7.06	
28	7.17	7.47	7.56	7.56	7.55	8.48	10.78	8.18	7.64	7.22	7.10	7.00	
29	7.16	7.49	7.50	7.50	8.28	8.33	10.66	8.53	7.61	7.21	7.10	6.97	
30	7.51	7.48	7.46	7.46	9.92	8.33	10.10	9.04	7.58	7.20	7.10	6.97	
31		7.46		7.42	11.07		9.51		7.57	7.20		6.97	
Mean	7.33	7.63	7.96	7.61	7.64	8.58	9.91	9.17	8.27	7.36	7.15	7.04	
Max	7.81	8.49	8.95	8.91	11.07	11.73	12.67	11.28	10.48	7.55	7.20	7.10	12.67
Min	7.16	7.35	7.46	7.26	7.27	7.83	8.12	8.13	7.57	7.20	7.10	6.97	6.97
Annual Max Momentary Gage Height	12.75	m. (MSL.) ,		at 08.00 Hours , on Oct 26, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed		5.99	m. (MSL.)						
Left Bank Elevation	13.07	m. (MSL.) ,											
Right Bank Elevation	15.00	m. (MSL.) ,		Drainage Are		1,801	Square Kilometers						

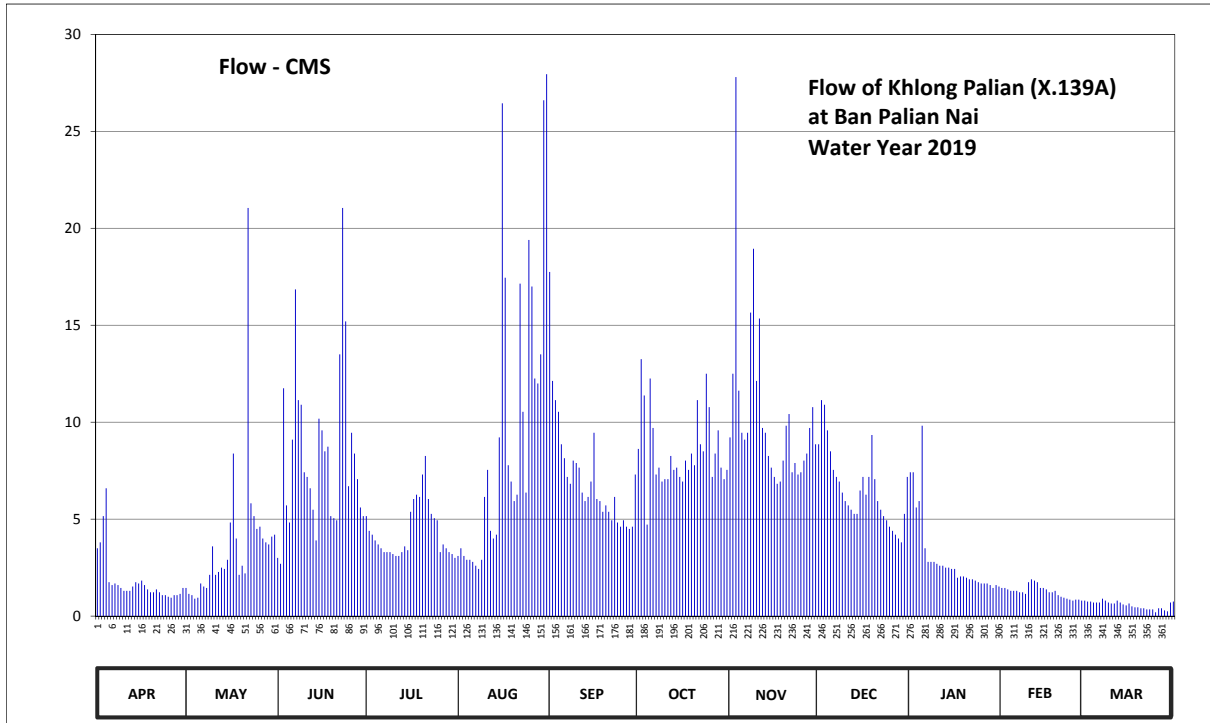


APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.29	38.78	18.88	16.98	16.39	131.50	32.11	77.90	47.67	18.41	14.25	12.94		
2	23.67	34.78	23.89	16.63	16.03	148.50	30.56	98.80	42.78	18.17	14.13	12.94		
3	20.56	19.44	27.00	16.27	15.91	101.20	44.56	126.00	41.00	17.93	13.89	12.83		
4	19.22	16.86	26.56	16.15	15.91	57.22	52.33	107.20	65.60	17.81	13.78	12.71		
5	18.53	17.10	27.67	16.15	15.68	39.89	53.89	75.20	93.20	17.58	13.54	12.71		
6	16.27	23.44	24.78	15.91	15.44	32.11	87.20	58.11	74.90	17.34	13.54	12.59		
7	15.79	18.17	29.00	15.56	15.44	27.89	80.90	53.22	49.45	17.34	13.42	12.94		
8	15.32	16.27	44.56	15.20	15.20	24.78	84.50	73.70	40.33	17.22	13.54	12.83		
9	14.96	16.03	49.00	15.08	15.08	24.56	92.40	67.40	36.33	17.22	13.54	12.71		
10	14.84	19.67	46.11	14.96	15.08	37.67	76.40	68.60	33.67	17.22	13.54	12.59		
11	14.61	19.00	47.89	14.96	15.68	50.78	68.30	91.20	31.44	17.22	13.66	12.47		
12	14.37	17.69	42.78	15.08	16.39	31.44	47.67	82.10	29.44	17.22	13.78	12.35		
13	14.61	17.10	31.89	15.68	16.39	25.00	42.11	57.67	27.44	17.22	13.89	13.06		
14	14.61	17.46	27.44	16.03	16.15	24.11	49.00	54.33	26.11	17.22	14.01	12.94		
15	14.84	17.93	23.89	15.79	15.91	29.89	43.67	49.67	26.56	17.22	13.78	12.71		
16	15.20	19.22	22.33	15.68	16.51	38.11	37.22	42.78	27.67	16.63	13.66	12.47		
17	16.63	19.89	21.44	18.41	19.22	35.22	36.78	39.67	31.22	15.44	13.89	12.23		
18	16.27	22.11	20.78	29.22	22.56	30.33	47.45	35.89	32.56	15.20	13.66	12.11		
19	15.32	19.67	26.56	40.78	20.78	27.00	65.00	33.00	31.22	14.84	13.54	12.11		
20	14.84	18.17	25.89	48.11	17.81	24.56	80.00	33.22	32.11	14.61	13.54	11.99		
21	15.20	20.78	22.56	44.78	16.51	29.00	94.40	33.89	29.67	14.73	13.54	12.11		
22	15.44	20.78	20.78	31.44	16.15	31.22	123.00	39.00	26.56	14.73	13.66	12.11		
23	14.84	22.33	21.00	23.89	16.27	33.67	124.50	43.00	24.56	14.73	13.54	12.11		
24	14.49	27.22	21.89	21.44	18.76	41.00	131.00	42.78	23.44	14.96	13.42	12.11		
25	14.37	22.33	25.00	23.22	18.05	32.56	184.20	33.89	22.33	14.84	13.30	11.99		
26	14.13	20.11	21.44	22.78	17.46	40.78	199.90	30.78	21.44	14.84	13.18	12.47		
27	14.01	18.53	19.89	19.00	17.46	45.89	155.50	31.67	20.56	14.73	13.18	12.59		
28	13.89	17.46	18.53	18.53	18.41	38.56	105.20	31.89	19.89	14.49	13.06	11.88		
29	13.78	17.69	17.81	17.81	34.11	35.22	100.40	39.67	19.22	14.37	13.06	11.52		
30	17.93	17.58	17.34	17.34	74.60	35.22	80.00	51.00	18.76	14.25		11.52		
31		17.34		16.86	116.80		62.30		18.64	14.25		11.52		
Total	476.83	630.93	814.58	645.72	698.14	1304.88	2512.45	1703.23	1065.77	499.98	394.52	384.16	11131.19	CMSDAY
Mean	15.89	20.35	27.15	20.83	22.52	43.50	81.05	56.77	34.38	16.13	13.60	12.39	30.41	CMS
Max	23.67	38.78	49.00	48.11	116.80	148.50	199.90	126.00	93.20	18.41	14.25	13.06	199.90	CMS
Min	13.78	16.03	17.34	14.96	15.08	24.11	30.56	30.78	18.64	14.25	13.06	11.52	11.52	CMS
Runoff	41.20	54.51	70.38	55.79	60.32	112.74	217.08	147.16	92.08	43.20	34.09	33.19	961.73	MCM
Momentary Peak	205.50	CMS.	at 12.75 m. (MSL.)				08.00 Hours							on Oct 26, 2019
Runoff Yield	16.93	Liters/Second/Square KM.					Momentary Peak Yield	114.10	Liters/Second/Square KM.					





Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	1.45	3.00	5.16	3.10	17.75	8.62	9.22	8.86	7.42	1.45	0.80	
2	3.80	1.15	2.70	4.40	3.50	12.13	13.25	12.50	11.14	7.42	1.45	0.75	
3	5.16	1.08	11.75	4.20	3.10	11.14	11.38	27.80	10.90	5.60	1.38	0.75	
4	6.59	0.90	5.71	3.90	2.90	10.54	4.72	11.63	9.58	5.93	1.30	0.70	
5	1.75	0.95	4.83	3.70	2.90	8.86	12.25	9.46	8.50	9.82	1.30	0.70	
6	1.60	1.68	9.10	3.50	2.80	8.14	9.70	9.10	7.54	3.50	1.30	0.70	
7	1.68	1.53	16.85	3.30	2.60	7.18	7.30	9.46	7.18	2.80	1.23	0.90	
8	1.60	1.45	11.14	3.30	2.43	6.82	7.66	15.65	6.94	2.80	1.23	0.80	
9	1.45	2.13	10.90	3.30	2.90	8.02	6.94	18.95	6.37	2.80	1.15	0.70	
10	1.30	3.60	7.42	3.20	6.15	7.90	7.06	12.13	5.93	2.70	1.75	0.65	
11	1.30	2.13	7.18	3.10	7.54	7.66	7.06	15.35	5.71	2.60	1.90	0.65	
12	1.30	2.28	6.59	3.10	4.40	6.37	8.26	9.70	5.49	2.60	1.83	0.80	
13	1.53	2.50	5.49	3.30	4.00	5.93	7.54	9.46	5.27	2.50	1.75	0.70	
14	1.75	2.43	3.90	3.60	4.20	6.15	7.66	8.26	5.27	2.50	1.45	0.60	
15	1.68	2.90	10.18	3.40	9.22	6.94	7.18	7.66	6.48	2.43	1.45	0.55	
16	1.83	4.83	9.58	5.38	26.45	9.46	6.94	7.18	7.18	2.43	1.38	0.65	
17	1.60	8.38	8.50	6.04	17.45	6.04	8.02	6.82	6.26	1.98	1.23	0.50	
18	1.38	4.00	8.74	6.26	7.78	5.93	7.54	6.94	7.18	2.05	1.23	0.45	
19	1.23	2.13	5.16	6.15	6.94	5.38	8.38	8.02	9.34	2.05	1.30	0.45	
20	1.23	2.60	5.05	7.30	5.93	5.71	7.78	9.82	7.06	1.98	1.08	0.40	
21	1.38	2.20	4.94	8.26	6.26	5.38	11.14	10.42	5.93	1.90	1.00	0.40	
22	1.23	21.05	13.50	6.04	17.15	4.94	8.86	7.42	5.49	1.90	0.95	0.35	
23	1.08	5.82	21.05	5.27	10.54	6.15	8.50	7.90	5.16	1.83	0.90	0.35	
24	1.08	5.16	15.20	5.05	6.37	4.83	12.50	7.30	4.94	1.75	0.85	0.35	
25	1.00	4.50	6.70	4.94	19.40	4.61	10.78	7.42	4.61	1.68	0.80	0.20	
26	0.95	4.61	9.46	3.30	17.00	4.94	7.18	8.02	4.40	1.68	0.85	0.40	
27	1.08	4.00	8.38	3.70	12.25	4.61	8.38	8.38	4.20	1.68	0.85	0.40	
28	1.08	3.80	7.06	3.50	12.00	4.50	9.58	9.70	4.00	1.60	0.80	0.30	
29	1.15	3.70	5.60	3.30	13.50	4.61	7.66	10.78	3.80	1.45	0.80	0.25	
30	1.45	4.10	5.16	3.20	26.60	7.30	7.06	8.86	5.27	1.60		0.70	
31		4.20		3.00	27.95		7.54		7.18	1.53		0.75	
Total	54.74	113.24	250.82	135.15	295.31	215.92	264.42	311.31	203.16	92.51	35.94	17.65	1990.17 CMSDAY
Mean	1.82	3.65	8.36	4.36	9.53	7.20	8.53	10.38	6.55	2.98	1.24	0.57	5.44 CMS
Max	6.59	21.05	21.05	8.26	27.95	17.75	13.25	27.80	11.14	9.82	1.90	0.90	27.95 CMS
Min	0.95	0.90	2.70	3.00	2.43	4.50	4.72	6.82	3.80	1.45	0.80	0.20	0.20 CMS
Runoff	4.73	9.78	21.67	11.68	25.51	18.66	22.85	26.90	17.55	7.99	3.11	1.52	171.95 MCM
Momentary Peak	54.45	CMS.	at 3.87 m. (A.D.)	at 01.00 Hours	, on Aug 31, 2019								
Runoff Yield	33.92	Liters/Second/Square KM.		Momentary Peak Yield	338.72	Liters/Second/Square KM.							

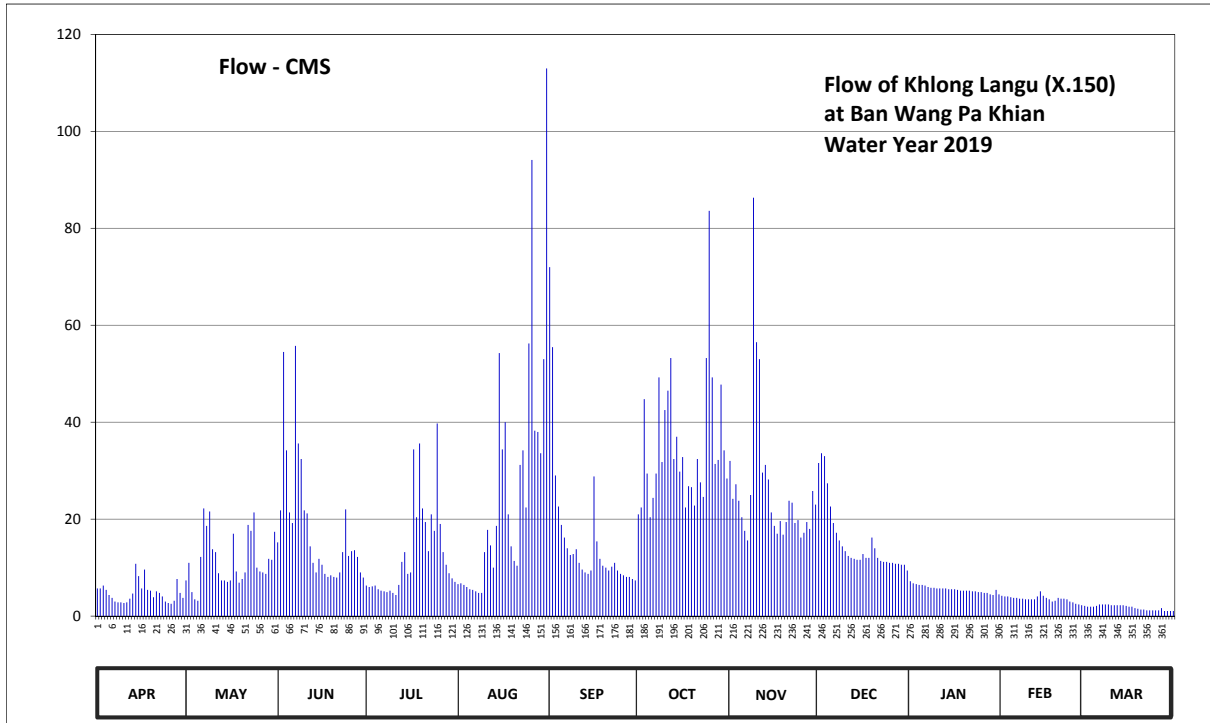
**WATER YEAR : 2019**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Langu at Ban Wang Pa Khian , Satun (X.150)**  
 Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Wang Pa Khian.

	<b>Ban Wang Pa Khian</b>	<b>Amphoe Langu</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	480 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank about 5 meters from the top staff gage.		<b>Elevation</b> +16.164 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	1984 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1984 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	1984 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.38	5.49	5.91	5.42	5.44	8.40	6.20	6.75	6.73	5.48	5.28	5.14	
2	5.38	5.70	6.24	5.40	5.45	7.74	6.27	6.36	6.83	5.45	5.27	5.13	
3	5.42	5.33	7.70	5.41	5.43	6.60	7.31	6.51	6.80	5.44	5.27	5.13	
4	5.36	5.23	6.86	5.42	5.40	6.28	6.62	6.34	6.52	5.43	5.26	5.13	
5	5.29	5.21	6.22	5.37	5.37	6.09	6.17	6.17	6.28	5.43	5.25	5.14	
6	5.25	5.76	6.11	5.35	5.36	5.96	6.37	6.03	6.11	5.42	5.25	5.16	
7	5.20	6.26	7.75	5.34	5.34	5.85	6.62	5.93	6.01	5.40	5.24	5.16	
8	5.19	6.08	6.93	5.33	5.32	5.78	7.49	6.40	5.93	5.39	5.24	5.16	
9	5.19	6.23	6.77	5.35	5.32	5.79	6.74	8.91	5.87	5.39	5.23	5.16	
10	5.18	5.84	6.24	5.32	5.81	5.84	7.22	7.78	5.82	5.38	5.23	5.15	
11	5.19	5.81	6.21	5.29	6.04	5.70	7.38	7.64	5.77	5.38	5.23	5.15	
12	5.24	5.59	5.87	5.43	5.88	5.63	7.65	6.63	5.75	5.38	5.23	5.15	
13	5.31	5.49	5.70	5.71	5.65	5.60	6.77	6.71	5.74	5.38	5.27	5.15	
14	5.69	5.49	5.60	5.81	6.08	5.58	7.00	6.56	5.73	5.37	5.34	5.15	
15	5.55	5.47	5.74	5.58	7.69	5.62	6.64	6.22	5.73	5.37	5.28	5.14	
16	5.38	5.49	5.68	5.60	6.87	6.59	6.79	6.08	5.79	5.37	5.25	5.13	
17	5.63	6.00	5.58	6.87	7.12	5.92	6.27	6.00	5.75	5.36	5.23	5.13	
18	5.36	5.61	5.54	6.17	6.20	5.74	6.49	6.13	5.75	5.35	5.20	5.11	
19	5.35	5.46	5.56	6.93	5.87	5.67	6.48	5.99	5.96	5.35	5.21	5.10	
20	5.26	5.51	5.54	6.26	5.72	5.65	6.29	6.12	5.85	5.35	5.25	5.09	
21	5.34	5.60	5.53	6.12	5.67	5.62	6.77	6.34	5.75	5.35	5.24	5.09	
22	5.32	6.09	5.60	5.82	6.71	5.66	6.53	6.32	5.72	5.34	5.24	5.08	
23	5.27	6.03	5.81	6.20	6.86	5.70	6.38	6.11	5.71	5.34	5.23	5.08	
24	5.20	6.22	6.25	6.03	6.27	5.62	7.65	6.14	5.71	5.33	5.20	5.08	
25	5.18	5.65	5.77	7.11	7.77	5.58	8.82	5.96	5.70	5.33	5.19	5.08	
26	5.17	5.61	5.82	6.10	9.17	5.56	7.49	6.01	5.70	5.32	5.17	5.08	
27	5.21	5.60	5.83	5.81	7.05	5.54	6.72	6.12	5.69	5.32	5.16	5.11	
28	5.51	5.58	5.76	5.68	7.04	5.54	6.76	6.05	5.69	5.30	5.15	5.07	
29	5.32	5.74	5.60	5.59	6.83	5.51	7.43	6.44	5.68	5.29	5.15	5.07	
30	5.25	5.73	5.53	5.52	7.64	5.49	6.86	6.30	5.68	5.36	5.15	5.07	
31		6.02		5.47	9.80		6.57		5.62	5.30		5.07	
Mean	5.32	5.71	6.04	5.77	6.39	5.93	6.86	6.43	5.92	5.37	5.23	5.12	
Max	5.69	6.26	7.75	7.11	9.80	8.40	8.82	8.91	6.83	5.48	5.34	5.16	9.80
Min	5.17	5.21	5.53	5.29	5.32	5.49	6.17	5.93	5.62	5.29	5.15	5.07	5.07
Annual Max Momentary Gage Height	10.11		m. (MSL.) ,				at 17.00 Hours , on Aug 31, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	4.20	m. (MSL.)					
Left Bank Elevation		12.80	m. (MSL.) ,										
Right Bank Elevation		12.97	m. (MSL.) ,			Drainage Are	480	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.70	7.35	15.20	6.30	6.60	72.00	21.00	32.00	31.60	7.20	4.20	2.10	
2	5.70	11.00	21.80	6.00	6.75	55.50	22.40	24.20	33.60	6.75	4.05	1.95	
3	6.30	4.95	54.50	6.15	6.45	29.00	44.75	27.20	33.00	6.60	4.05	1.95	
4	5.40	3.45	34.20	6.30	6.00	22.60	29.40	23.80	27.40	6.45	3.90	1.95	
5	4.35	3.15	21.40	5.55	5.55	18.80	20.40	20.40	22.60	6.45	3.75	2.10	
6	3.75	12.20	19.20	5.25	5.40	16.20	24.40	17.60	19.20	6.30	3.75	2.40	
7	3.00	22.20	55.75	5.10	5.10	14.00	29.40	15.60	17.20	6.00	3.60	2.40	
8	2.85	18.60	35.60	4.95	4.80	12.60	49.25	25.00	15.60	5.85	3.60	2.40	
9	2.85	21.60	32.40	5.25	4.80	12.80	31.80	86.30	14.40	5.85	3.45	2.40	
10	2.70	13.80	21.80	4.80	13.20	13.80	42.50	56.50	13.40	5.70	3.45	2.25	
11	2.85	13.20	21.20	4.35	17.80	11.00	46.50	53.00	12.40	5.70	3.45	2.25	
12	3.60	8.85	14.40	6.45	14.60	9.60	53.25	29.60	12.00	5.70	3.45	2.25	
13	4.65	7.35	11.00	11.20	10.00	9.00	32.40	31.20	11.80	5.70	4.05	2.25	
14	10.80	7.35	9.00	13.20	18.60	8.70	37.00	28.20	11.60	5.55	5.10	2.25	
15	8.25	7.05	11.80	8.70	54.25	9.40	29.80	21.40	11.60	5.55	4.20	2.10	
16	5.70	7.35	10.60	9.00	34.40	28.80	32.80	18.60	12.80	5.55	3.75	1.95	
17	9.60	17.00	8.70	34.40	40.00	15.40	22.40	17.00	12.00	5.40	3.45	1.95	
18	5.40	9.20	8.10	20.40	21.00	11.80	26.80	19.60	12.00	5.25	3.00	1.65	
19	5.25	6.90	8.40	35.60	14.40	10.40	26.60	16.80	16.20	5.25	3.15	1.50	
20	3.90	7.65	8.10	22.20	11.40	10.00	22.80	19.40	14.00	5.25	3.75	1.35	
21	5.10	9.00	7.95	19.40	10.40	9.40	32.40	23.80	12.00	5.25	3.60	1.35	
22	4.80	18.80	9.00	13.40	31.20	10.20	27.60	23.40	11.40	5.10	3.60	1.20	
23	4.05	17.60	13.20	21.00	34.20	11.00	24.60	19.20	11.20	5.10	3.45	1.20	
24	3.00	21.40	22.00	17.60	22.40	9.40	53.25	19.80	11.20	4.95	3.00	1.20	
25	2.70	10.00	12.40	39.75	56.25	8.70	83.60	16.20	11.00	4.95	2.85	1.20	
26	2.55	9.20	13.40	19.00	94.10	8.40	49.25	17.20	11.00	4.80	2.55	1.20	
27	3.15	9.00	13.60	13.20	38.25	8.10	31.40	19.40	10.80	4.80	2.40	1.65	
28	7.65	8.70	12.20	10.60	38.00	8.10	32.20	18.00	10.80	4.50	2.25	1.05	
29	4.80	11.80	9.00	8.85	33.60	7.65	47.75	25.80	10.60	4.35	2.25	1.05	
30	3.75	11.60	7.95	7.80	53.00	7.35	34.20	23.00	10.60	5.40		1.05	
31		17.40		7.05	113.00		28.40		9.40	4.50		1.05	
<b>Total</b>	144.15	354.70	543.85	398.80	825.50	479.70	1090.30	789.20	474.40	171.75	101.10	54.60	5428.05 CMSDAY
<b>Mean</b>	4.81	11.44	18.13	12.86	26.63	15.99	35.17	26.31	15.30	5.54	3.49	1.76	14.83 CMS
<b>Max</b>	10.80	22.20	55.75	39.75	113.00	72.00	83.60	86.30	33.60	7.20	5.10	2.40	113.00 CMS
<b>Min</b>	2.55	3.15	7.95	4.35	4.80	7.35	20.40	15.60	9.40	4.35	2.25	1.05	1.05 CMS
<b>Runoff</b>	12.45	30.65	46.99	34.46	71.32	41.45	94.20	68.19	40.99	14.84	8.74	4.72	468.98 MCM
<b>Momentary Peak</b>		123.85 CMS.			at 10.11 m. (MSL.)								at 17.00 Hours , on Aug 31, 2019
<b>Runoff Yield</b>		30.97			Liters/Second/Square KM.								Momentary Peak Yield 257.89 Liters/Second/Square KM.



## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlong Ta Kuaw Pa at Ban Talat Kao , Phangnga (X.186)

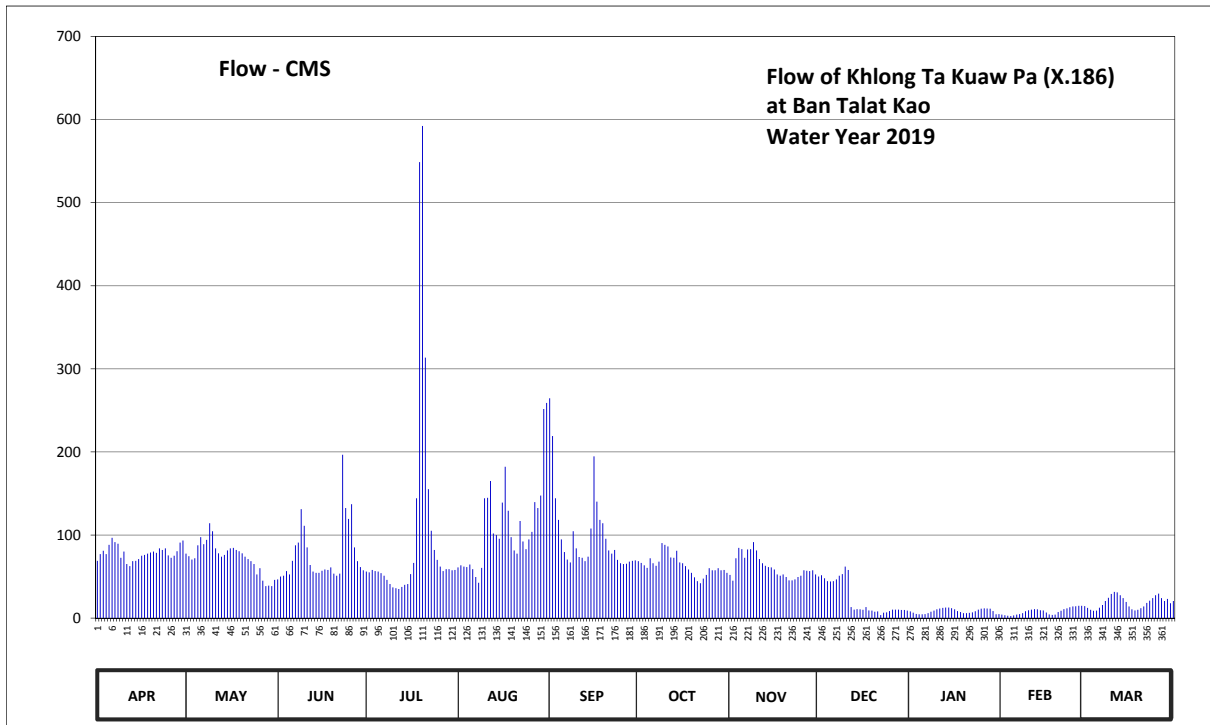
Lat 08 - 49 - 47 N Long 98 - 22 - 17 E

Location : on left bank at Ban Talat Kao.

	<b>Ban</b>	Talat Kao	<b>Amphoe</b>	Ta Kuaw Pa	<b>Changwat</b>	Phangnga
<b>Drainage Area</b>	726	sq.km.				
<b>Type of Gage</b>	Water - stage recorder					
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)					
<b>Bench Mark</b>	B.M.-H.D.					
<b>Location BM</b>	On left bank about 10 meters from the top staff gage.				<b>Elevation</b>	+4.980 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording					
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings					
<b>Period of Available Gage Records</b>	1996 to date					
<b>Rating Operation</b>						
<b>Period of Rating</b>	2003 to date					
<b>Rated by Flot</b>	-					
<b>Rated by Current Meter</b>	2003 to date					
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.					
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 3.340 m.(MSL.), records are channel flow only.					
<b>General Description</b>	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2019.					

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.32	-0.15	-0.77	-0.58	-0.48	2.24	-0.33	-0.66	-0.70	-1.08	-1.27	-0.82	
2	-0.16	-0.21	-0.70	-0.60	-0.43	1.79	-0.37	-0.80	-0.67	-1.14	-1.35	-0.91	
3	-0.08	-0.29	-0.68	-0.54	-0.46	0.91	-0.43	-0.26	-0.74	-1.21	-1.42	-1.00	
4	-0.16	-0.26	-0.57	-0.57	-0.47	0.51	-0.49	-0.01	-0.81	-1.24	-1.45	-1.05	
5	0.05	0.04	-0.65	-0.58	-0.41	0.15	-0.26	-0.04	-0.82	-1.23	-1.38	-1.04	
6	0.18	0.19	-0.32	-0.62	-0.52	-0.11	-0.38	-0.25	-0.81	-1.22	-1.28	-0.90	
7	0.10	0.06	0.04	-0.68	-0.71	-0.29	-0.44	-0.05	-0.77	-1.16	-1.22	-0.78	
8	0.07	0.14	0.09	-0.78	-0.85	-0.36	-0.34	-0.04	-0.68	-1.09	-1.16	-0.66	
9	-0.25	0.45	0.71	-0.88	-0.49	0.30	0.08	0.10	-0.64	-1.04	-1.07	-0.57	
10	-0.10	0.30	0.40	-0.96	0.91	-0.02	0.05	-0.07	-0.46	-0.98	-1.02	-0.48	
11	-0.40	-0.02	0.00	-0.98	0.92	-0.23	0.02	-0.28	-0.54	-0.94	-0.99	-0.43	
12	-0.45	-0.14	-0.42	-1.00	1.20	-0.25	-0.24	-0.38	-0.87	-0.91	-0.97	-0.44	
13	-0.33	-0.22	-0.58	-0.95	0.26	-0.33	-0.25	-0.44	-0.99	-0.89	-0.98	-0.51	
14	-0.32	-0.18	-0.61	-0.90	0.23	-0.22	-0.08	-0.47	-0.97	-0.89	-1.02	-0.58	
15	-0.28	-0.07	-0.61	-0.88	0.16	0.35	-0.36	-0.48	-0.98	-0.92	-1.03	-0.69	
16	-0.20	-0.02	-0.56	-0.64	0.83	1.53	-0.38	-0.53	-1.00	-0.98	-1.13	-0.84	
17	-0.18	-0.01	-0.53	-0.37	1.39	0.85	-0.45	-0.65	-0.87	-1.06	-1.26	-0.98	
18	-0.15	-0.06	-0.54	0.91	0.68	0.51	-0.53	-0.68	-1.03	-1.11	-1.31	-1.03	
19	-0.12	-0.09	-0.48	4.06	0.19	0.45	-0.61	-0.65	-1.04	-1.16	-1.27	-1.00	
20	-0.10	-0.14	-0.63	4.24	-0.07	0.16	-0.72	-0.71	-1.09	-1.16	-1.11	-0.92	
21	-0.13	-0.22	-0.68	2.64	-0.15	-0.07	-0.81	-0.79	-1.08	-1.15	-1.05	-0.84	
22	-0.02	-0.28	-0.63	1.07	0.49	-0.15	-0.86	-0.79	-1.33	-1.12	-0.97	-0.72	
23	-0.06	-0.33	1.55	0.31	0.11	-0.06	-0.75	-0.77	-1.14	-1.07	-0.93	-0.65	
24	-0.02	-0.40	0.73	-0.06	-0.04	-0.30	-0.66	-0.71	-1.12	-0.99	-0.88	-0.58	
25	-0.19	-0.65	0.53	-0.30	0.15	-0.38	-0.50	-0.68	-1.06	-0.95	-0.84	-0.51	
26	-0.25	-0.50	0.80	-0.46	0.29	-0.40	-0.55	-0.55	-0.99	-0.93	-0.83	-0.47	
27	-0.20	-0.80	0.00	-0.57	0.84	-0.39	-0.55	-0.56	-0.99	-0.94	-0.81	-0.58	
28	-0.09	-0.93	-0.33	-0.52	0.73	-0.34	-0.50	-0.57	-0.99	-0.95	-0.81	-0.66	
29	0.09	-0.92	-0.47	-0.52	0.96	-0.32	-0.55	-0.55	-1.01	-1.06	-0.80	-0.60	
30	0.13	-0.93	-0.55	-0.55	2.12	-0.31	-0.54	-0.65	-1.01	-1.23	-1.05	-0.73	
31		-0.78		-0.54	2.19		-0.61		-1.04	-1.22		-0.66	
Mean	-0.13	-0.24	-0.22	-0.09	0.31	0.17	-0.43	-0.47	-0.91	-1.07	-1.09	-0.73	
Max	0.18	0.45	1.55	4.24	2.19	2.24	0.08	0.10	-0.46	-0.89	-0.80	-0.43	4.24
Min	-0.45	-0.93	-0.77	-1.00	-0.85	-0.40	-0.86	-0.80	-1.33	-1.24	-1.45	-1.05	-1.45
Annual Max Momentary Gage Height	4.68	m. (MSL.) ,		at 01.00 Hours , on Jul 20, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed -4.32 m. (MSL.)									
Left Bank Elevation	4.40	m. (MSL.) ,											
Right Bank Elevation	3.33	m. (MSL.) ,		Drainage Area 726 Square Kilometers									



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	69.00	77.50	46.50	56.00	61.00	264.60	68.50	52.00	50.00	8.00	4.30	14.50		
2	77.00	74.50	50.00	55.00	63.50	219.05	66.50	45.00	51.50	6.50	3.50	12.25		
3	81.00	70.50	51.00	58.00	62.00	144.15	63.50	72.00	48.00	4.90	2.80	10.00		
4	77.00	72.00	56.50	56.50	61.50	118.15	60.50	84.50	44.50	4.60	2.50	8.75		
5	88.25	87.60	52.50	56.00	64.50	94.75	72.00	83.00	44.00	4.70	3.20	9.00		
6	96.70	97.35	69.00	54.00	59.00	79.50	66.00	72.50	44.50	4.80	4.20	12.50		
7	91.50	88.90	87.60	51.00	49.50	70.50	63.00	82.50	46.50	6.00	4.80	15.80		
8	89.55	94.10	90.85	46.00	42.50	67.00	68.00	83.00	51.00	7.75	6.00	20.60		
9	72.50	114.25	131.15	41.00	60.50	104.50	90.20	91.50	53.00	9.00	8.25	24.50		
10	80.00	104.50	111.00	37.00	144.15	84.00	88.25	81.50	62.00	10.50	9.50	29.00		
11	65.00	84.00	85.00	36.00	144.80	73.50	86.30	71.00	58.00	11.50	10.25	31.50		
12	62.50	78.00	64.00	35.00	165.00	72.50	73.00	66.00	13.25	12.25	10.75	31.00		
13	68.50	74.00	56.00	37.50	101.90	68.50	72.50	63.00	10.25	12.75	10.50	27.50		
14	69.00	76.00	54.50	40.00	99.95	74.00	81.00	61.50	10.75	12.75	9.50	24.00		
15	71.00	81.50	54.50	41.00	95.40	107.75	67.00	61.00	10.50	12.00	9.25	19.40		
16	75.00	84.00	57.00	53.00	138.95	194.70	66.00	58.50	10.00	10.50	6.75	14.00		
17	76.00	84.50	58.50	66.50	182.10	140.25	62.50	52.50	13.25	8.50	4.40	10.50		
18	77.50	82.00	58.00	144.15	129.20	118.15	58.50	51.00	9.25	7.25	3.90	9.25		
19	79.00	80.50	61.00	548.80	97.35	114.25	54.50	52.50	9.00	6.00	4.30	10.00		
20	80.00	78.00	53.50	592.20	81.50	95.40	49.00	49.50	7.75	6.00	7.25	12.00		
21	78.50	74.00	51.00	313.40	77.50	81.50	44.50	45.50	8.00	6.25	8.75	14.00		
22	84.00	71.00	53.50	155.25	116.85	77.50	42.00	45.50	3.70	7.00	10.75	18.20		
23	82.00	68.50	196.50	105.15	92.15	82.00	47.50	46.50	6.50	8.25	11.75	21.00		
24	84.00	65.00	132.45	82.00	83.00	70.00	52.00	49.50	7.00	10.25	13.00	24.00		
25	75.50	52.50	119.45	70.00	94.75	66.00	60.00	51.00	8.50	11.25	14.00	27.50		
26	72.50	60.00	137.00	62.00	103.85	65.00	57.50	57.50	10.25	11.75	14.25	29.50		
27	75.00	45.00	85.00	56.50	139.60	65.50	57.50	57.00	10.25	11.50	14.75	24.00		
28	80.50	38.50	68.50	59.00	132.45	68.00	60.00	56.50	10.25	11.25	14.75	20.60		
29	90.85	39.00	61.50	59.00	147.40	69.00	57.50	57.50	9.75	8.50	15.00	23.00		
30	93.45	38.50	57.50	57.50	251.60	69.50	58.00	52.50	9.75	4.70		17.80		
31		46.00		58.00	258.95		54.50		9.00	4.80		20.60		
<b>Total</b>	2362.30	2281.70	2310.50	3182.45	3402.40	3019.20	1967.75	1853.00	739.95	261.75	242.90	586.25	22210.15	CMSDAY
<b>Mean</b>	78.74	73.60	77.02	102.66	109.75	100.64	63.48	61.77	23.87	8.44	8.38	18.91	60.68	CMS
<b>Max</b>	96.70	114.25	196.50	592.20	258.95	264.60	90.20	91.50	62.00	12.75	15.00	31.50	592.20	CMS
<b>Min</b>	62.50	38.50	46.50	35.00	42.50	65.00	42.00	45.00	3.70	4.60	2.50	8.75	2.50	CMS
<b>Runoff</b>	204.10	197.14	199.63	274.96	293.97	260.86	170.01	160.10	63.93	22.62	20.99	50.65	1918.96	MCM
<b>Momentary Peak</b>	741.00	CMS.	CMS.	at 4.68 m. (MSL.)	at 01.00 Hours ,	on Jul 20, 2019								
<b>Runoff Yield</b>	83.82	Liters/Second/Square KM.			Momentary Peak Yield	1020.66	Liters/Second/Square KM.							

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlong Ta Kuaw Pa at Ban Hin Dan , Phangnga (X.187)

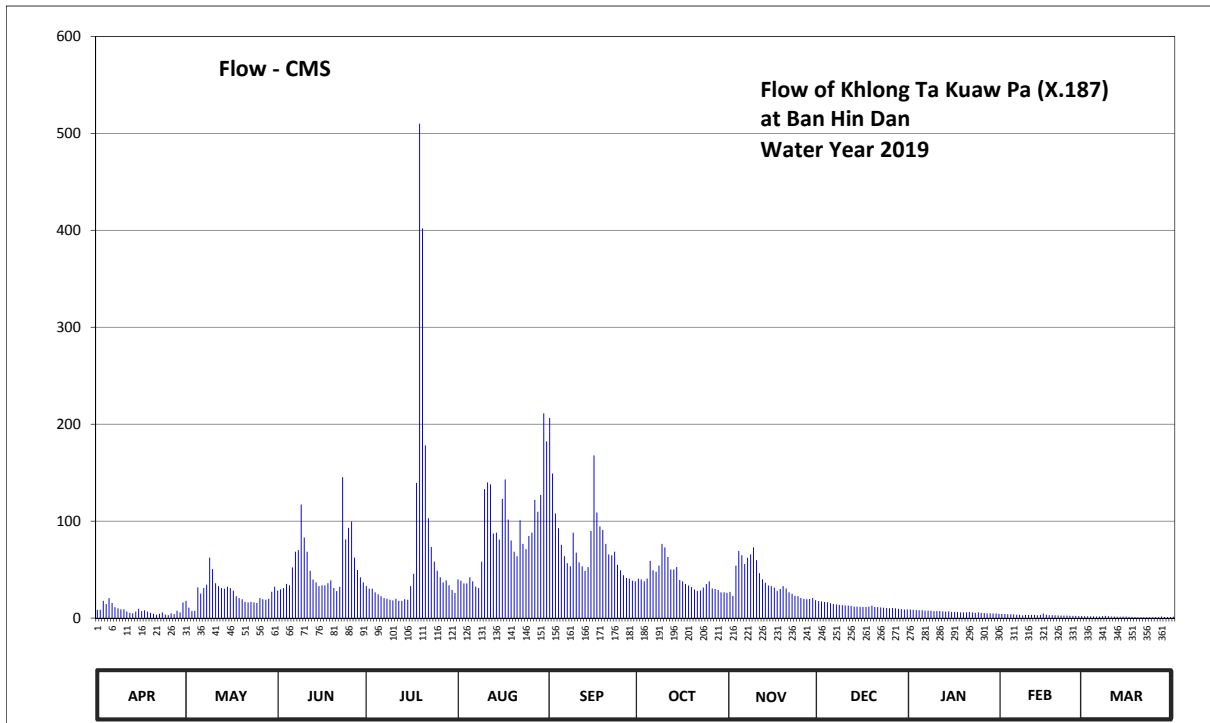
Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

	Ban Hin Dan	Amphoe Ta Kuaw Pa	Changwat Phangnga
<b>Drainage Area</b>	546 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank about 4 meters from the top staff gage.	<b>Elevation</b>	+9.230 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	1996 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	1996 to date		
<b>Rated by Float</b>	-		
<b>Rated by Current Meter</b>	1996 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.99	4.16	4.33	4.40	4.30	6.02	4.31	4.08	3.88	3.63	3.46	3.33	
2	3.99	4.03	4.35	4.36	4.28	5.52	4.30	4.00	3.87	3.62	3.45	3.32	
3	4.16	3.96	4.37	4.36	4.24	5.10	4.27	4.49	3.86	3.61	3.44	3.32	
4	4.10	3.97	4.43	4.30	4.24	4.93	4.31	4.67	3.85	3.60	3.44	3.32	
5	4.21	4.38	4.41	4.27	4.33	4.74	4.55	4.62	3.83	3.60	3.43	3.31	
6	4.12	4.28	4.65	4.24	4.27	4.61	4.43	4.51	3.81	3.59	3.42	3.31	
7	4.04	4.37	4.84	4.21	4.19	4.52	4.41	4.59	3.80	3.59	3.42	3.33	
8	4.02	4.42	4.86	4.20	4.16	4.48	4.49	4.63	3.79	3.58	3.39	3.35	
9	4.00	4.77	5.32	4.18	4.54	4.88	4.75	4.71	3.78	3.57	3.41	3.33	
10	4.00	4.63	5.01	4.17	5.36	4.65	4.71	4.56	3.77	3.57	3.41	3.31	
11	3.95	4.44	4.84	4.20	5.43	4.53	4.60	4.39	3.76	3.57	3.41	3.31	
12	3.92	4.40	4.61	4.16	5.41	4.48	4.44	4.30	3.75	3.56	3.41	3.30	
13	3.91	4.37	4.49	4.16	4.87	4.42	4.44	4.25	3.73	3.55	3.40	3.30	
14	3.95	4.36	4.45	4.19	4.88	4.47	4.47	4.21	3.73	3.56	3.41	3.31	
15	4.01	4.39	4.40	4.18	4.80	4.90	4.29	4.20	3.72	3.54	3.47	3.31	
16	3.96	4.37	4.41	4.40	5.26	5.69	4.27	4.17	3.72	3.54	3.42	3.29	
17	3.98	4.33	4.41	4.57	5.46	5.11	4.23	4.10	3.72	3.53	3.40	3.29	
18	3.95	4.24	4.44	5.52	5.03	4.95	4.21	4.14	3.73	3.52	3.40	3.28	
19	3.92	4.21	4.48	7.78	4.79	4.91	4.18	4.20	3.76	3.52	3.40	3.27	
20	3.90	4.19	4.37	7.24	4.66	4.75	4.13	4.15	3.72	3.52	3.39	3.27	
21	3.88	4.14	4.32	5.84	4.61	4.63	4.10	4.07	3.71	3.53	3.38	3.27	
22	3.90	4.13	4.39	5.19	5.02	4.62	4.11	4.04	3.70	3.51	3.37	3.26	
23	3.93	4.14	5.57	4.90	4.75	4.66	4.17	4.00	3.69	3.50	3.37	3.26	
24	3.88	4.13	4.99	4.72	4.69	4.50	4.23	3.99	3.68	3.52	3.36	3.26	
25	3.87	4.12	5.10	4.61	4.84	4.43	4.27	3.95	3.67	3.50	3.35	3.26	
26	3.91	4.21	5.16	4.52	4.88	4.36	4.15	3.93	3.68	3.49	3.35	3.27	
27	3.89	4.19	4.77	4.45	5.25	4.32	4.14	3.92	3.67	3.48	3.34	3.31	
28	3.97	4.18	4.62	4.48	5.12	4.31	4.12	3.93	3.65	3.48	3.34	3.28	
29	3.93	4.20	4.52	4.41	5.30	4.28	4.07	3.95	3.64	3.47	3.34	3.28	
30	4.13	4.31	4.45	4.34	6.06	4.27	4.07	3.90	3.63	3.47	3.34	3.28	
31		4.39		4.29	5.82		4.06		3.63	3.46		3.30	
Mean	3.98	4.27	4.65	4.67	4.87	4.73	4.30	4.22	3.74	3.54	3.40	3.30	
Max	4.21	4.77	5.57	7.78	6.06	6.02	4.75	4.71	3.88	3.63	3.47	3.35	7.78
Min	3.87	3.96	4.32	4.16	4.16	4.27	4.06	3.90	3.63	3.46	3.34	3.26	3.26
Annual Max Momentary Gage Height	8.19		m. (MSL.) ,				at 01.00 Hours , on Jul 20, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.03	m. (MSL.)					
Left Bank Elevation		8.25	m. (MSL.) ,										
Right Bank Elevation		8.50	m. (MSL.) ,			Drainage Are	546	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.55	17.80	28.45	33.00	40.00	206.40	40.70	27.00	17.60	8.90	4.50	1.95	
2	8.55	10.65	29.75	30.40	38.60	149.20	40.00	23.00	17.15	8.60	4.25	1.80	
3	17.80	7.20	31.05	30.40	35.80	108.00	37.90	54.20	16.70	8.30	4.00	1.80	
4	14.50	7.65	35.25	26.50	35.80	92.70	40.70	69.30	16.25	8.00	4.00	1.80	
5	20.65	31.70	33.75	24.55	42.10	75.60	59.00	64.80	15.35	8.00	3.75	1.65	
6	15.60	25.20	52.25	22.60	37.90	63.90	49.40	55.80	14.45	7.75	3.50	1.65	
7	11.20	31.05	68.40	20.65	32.50	56.60	47.80	62.20	14.00	7.75	3.50	1.95	
8	10.10	34.50	70.10	20.00	31.00	53.40	54.20	65.70	13.70	7.50	2.85	2.25	
9	9.00	62.45	117.20	18.90	58.20	88.20	76.50	72.90	13.40	7.25	3.25	1.95	
10	9.00	50.55	83.10	18.35	133.00	67.50	72.90	59.80	13.10	7.25	3.25	1.65	
11	6.75	36.00	68.40	20.00	140.00	57.40	63.00	46.30	12.80	7.25	3.25	1.65	
12	5.40	33.00	48.85	17.80	138.00	53.40	50.20	40.00	12.50	7.00	3.25	1.50	
13	4.95	31.05	39.75	17.80	87.30	48.60	50.20	36.50	11.90	6.75	3.00	1.50	
14	6.75	30.40	36.75	19.45	88.20	52.60	52.60	33.70	11.90	7.00	3.25	1.65	
15	9.55	32.35	33.00	18.90	81.00	90.00	39.30	33.00	11.60	6.50	4.75	1.65	
16	7.20	31.05	33.75	33.00	123.00	167.90	37.90	31.50	11.60	6.50	3.50	1.35	
17	8.10	28.45	33.75	45.75	143.00	108.90	35.10	28.00	11.60	6.25	3.00	1.35	
18	6.75	22.60	36.00	139.40	101.70	94.50	33.70	30.00	11.90	6.00	3.00	1.20	
19	5.40	20.65	39.00	510.00	80.10	90.90	32.00	33.00	12.80	6.00	3.00	1.05	
20	4.50	19.45	31.05	402.00	68.40	76.50	29.50	30.50	11.60	6.00	2.85	1.05	
21	3.60	16.70	27.80	178.20	63.90	65.70	28.00	26.50	11.30	6.25	2.70	1.05	
22	4.50	16.15	32.35	102.90	100.80	64.80	28.50	25.00	11.00	5.75	2.55	0.90	
23	5.85	16.70	145.40	73.50	76.50	68.40	31.50	23.00	10.70	5.50	2.55	0.90	
24	3.60	16.15	81.15	58.20	71.10	55.00	35.10	22.55	10.40	6.00	2.40	0.90	
25	3.15	15.60	93.00	48.85	84.60	49.40	37.90	20.75	10.10	5.50	2.25	0.90	
26	4.95	20.65	99.60	42.00	88.20	44.20	30.50	19.85	10.40	5.25	2.25	1.05	
27	4.05	19.45	62.45	36.75	122.00	41.40	30.00	19.40	10.10	5.00	2.10	1.65	
28	7.65	18.90	49.70	39.00	109.80	40.70	29.00	19.85	9.50	5.00	2.10	1.20	
29	5.85	20.00	42.00	33.75	127.00	38.60	26.50	20.75	9.20	4.75	2.10	1.20	
30	16.15	27.15	36.75	29.10	211.20	37.90	26.50	18.50	8.90	4.75		1.20	
31		32.35		25.85	182.40		26.00		8.90	4.50		1.50	
Total	249.65	783.55	1619.80	2137.55	2773.10	2308.30	1272.10	1113.35	382.40	202.80	90.70	44.85	12978.15 CMSDAY
Mean	8.32	25.28	53.99	68.95	89.45	76.94	41.04	37.11	12.34	6.54	3.13	1.45	35.46 CMS
Max	20.65	62.45	145.40	510.00	211.20	206.40	76.50	72.90	17.60	8.90	4.75	2.25	510.00 CMS
Min	3.15	7.20	27.80	17.80	31.00	37.90	26.00	18.50	8.90	4.50	2.10	0.90	0.90 CMS
Runoff	21.57	67.70	139.95	184.68	239.60	199.44	109.91	96.19	33.04	17.52	7.84	3.88	1121.31 MCM
Momentary Peak		596.80 CMS.		at 8.19 m. (MSL.)			at 01.00 Hours ,						on Jul 20, 2019
Runoff Yield		65.16		Liters/Second/Square KM.			Momentary Peak Yield	1093.60					Liters/Second/Square KM.

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlung Rommanee at Ban Rommanee , Phangnga (X.188A)

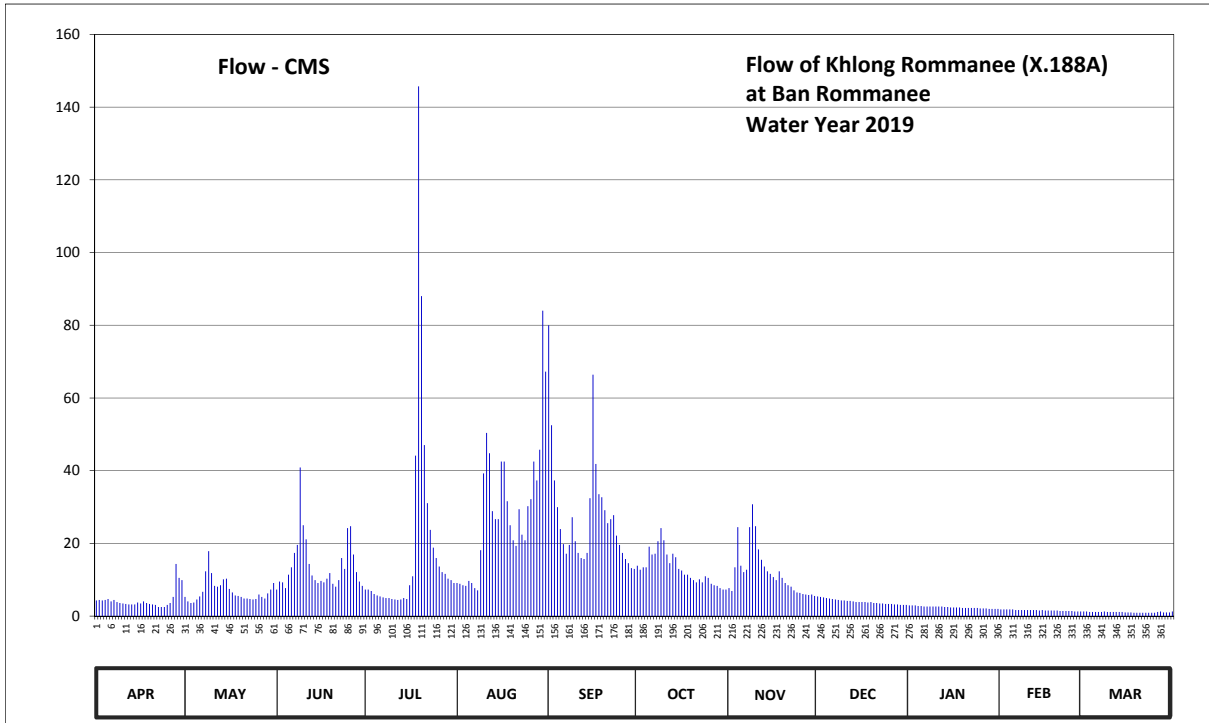
Lat 08 - 45 - 50 N Long 98 - 27 - 35 E

Location : on left bank at the bridge.

	<b>Ban</b> Rommanee	<b>Amphoe</b> Kapong	<b>Changwat</b> Phangnga
<b>Drainage Area</b>	232 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank at the abutment of the bridge.	<b>Elevation</b>	+18.740 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2009 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2009 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2009 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	Overbank flow starts at elevation + 17.470 m.(MSL.), records are channel flow only.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.24	13.31	13.44	13.44	13.53	15.80	13.75	13.46	13.32	13.14	13.06	13.02	
2	13.25	13.22	13.55	13.44	13.52	15.10	13.70	13.42	13.31	13.14	13.06	13.02	
3	13.24	13.19	13.54	13.42	13.50	14.64	13.73	13.73	13.30	13.14	13.06	13.01	
4	13.25	13.20	13.46	13.37	13.49	14.38	13.73	14.18	13.29	13.13	13.06	13.01	
5	13.27	13.26	13.64	13.34	13.56	14.16	13.97	13.75	13.28	13.13	13.06	13.01	
6	13.22	13.32	13.73	13.32	13.53	14.00	13.88	13.67	13.27	13.12	13.05	13.01	
7	13.25	13.41	13.90	13.30	13.46	13.89	13.89	13.70	13.26	13.12	13.05	13.01	
8	13.21	13.68	13.99	13.29	13.43	13.99	14.03	14.18	13.25	13.12	13.05	13.02	
9	13.19	13.92	14.75	13.29	13.93	14.28	14.17	14.41	13.24	13.12	13.05	13.01	
10	13.18	13.66	14.20	13.27	14.70	14.03	14.04	14.19	13.24	13.12	13.05	13.01	
11	13.17	13.49	14.05	13.26	15.04	13.90	13.88	13.94	13.23	13.12	13.05	13.01	
12	13.16	13.48	13.77	13.25	14.87	13.84	13.78	13.82	13.23	13.12	13.05	13.01	
13	13.16	13.50	13.63	13.26	14.34	13.83	13.89	13.74	13.22	13.11	13.05	13.01	
14	13.16	13.58	13.57	13.29	14.26	13.90	13.85	13.68	13.21	13.11	13.04	13.01	
15	13.20	13.59	13.53	13.27	14.26	14.47	13.71	13.65	13.21	13.10	13.05	13.00	
16	13.18	13.45	13.56	13.50	14.80	15.48	13.69	13.61	13.21	13.10	13.04	13.00	
17	13.22	13.40	13.54	13.62	14.80	14.78	13.64	13.57	13.21	13.10	13.04	13.00	
18	13.19	13.34	13.59	14.85	14.44	14.51	13.64	13.68	13.20	13.10	13.04	12.99	
19	13.17	13.33	13.66	17.07	14.20	14.48	13.60	13.60	13.21	13.09	13.04	12.99	
20	13.16	13.31	13.52	15.96	14.04	14.35	13.57	13.53	13.19	13.09	13.04	12.99	
21	13.15	13.28	13.48	14.94	13.98	14.22	13.54	13.50	13.19	13.09	13.03	12.99	
22	13.11	13.28	13.57	14.42	14.36	14.26	13.58	13.48	13.18	13.09	13.03	12.99	
23	13.11	13.27	13.84	14.15	14.10	14.30	13.54	13.43	13.18	13.09	13.03	12.99	
24	13.11	13.26	13.71	13.96	14.04	14.09	13.62	13.40	13.17	13.09	13.03	12.99	
25	13.15	13.27	14.17	13.84	14.39	13.99	13.60	13.39	13.17	13.08	13.03	12.99	
26	13.19	13.36	14.19	13.74	14.46	13.90	13.52	13.37	13.17	13.08	13.02	13.01	
27	13.31	13.31	13.88	13.67	14.80	13.83	13.50	13.36	13.16	13.08	13.02	13.02	
28	13.77	13.28	13.67	13.65	14.64	13.78	13.49	13.35	13.16	13.07	13.02	13.00	
29	13.60	13.38	13.55	13.59	14.90	13.72	13.46	13.36	13.15	13.07	13.02	13.00	
30	13.57	13.44	13.49	13.57	15.88	13.71	13.44	13.33	13.15	13.07	13.02	13.00	
31		13.53		13.53	15.50		13.44		13.15	13.07		13.02	
Mean	13.24	13.40	13.74	13.80	14.28	14.25	13.71	13.65	13.22	13.10	13.04	13.00	
Max	13.77	13.92	14.75	17.07	15.88	15.80	14.17	14.41	13.32	13.14	13.06	13.02	17.07
Min	13.11	13.19	13.44	13.25	13.43	13.71	13.44	13.33	13.15	13.07	13.02	12.99	12.99
Annual Max Momentary Gage Height	17.60		m. (MSL.) ,				at 22.00 Hours , on Jul 19, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed 12.30	m. (MSL.)					
Left Bank Elevation		17.46		m. (MSL.) ,									
Right Bank Elevation		17.72		m. (MSL.) ,			Drainage Are 232	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.30	5.26	7.30	7.30	9.10	80.00	13.88	7.70	5.40	2.93	1.83	1.28	
2	4.44	4.03	9.50	7.30	8.90	52.50	12.75	6.90	5.26	2.93	1.83	1.28	
3	4.30	3.61	9.30	6.90	8.50	37.30	13.43	13.43	5.13	2.93	1.83	1.14	
4	4.44	3.75	7.70	6.09	8.30	29.95	13.43	24.48	4.99	2.79	1.83	1.14	
5	4.71	4.58	11.40	5.68	9.70	23.96	19.08	13.88	4.85	2.79	1.83	1.14	
6	4.03	5.40	13.43	5.40	9.10	19.80	16.92	12.08	4.71	2.65	1.69	1.14	
7	4.44	6.70	17.40	5.13	7.70	17.16	17.16	12.75	4.58	2.65	1.69	1.14	
8	3.89	12.30	19.56	4.99	7.10	19.56	20.58	24.48	4.44	2.65	1.69	1.28	
9	3.61	17.88	40.88	4.99	18.12	27.20	24.22	30.78	4.30	2.65	1.69	1.14	
10	3.48	11.85	25.00	4.71	39.25	20.58	20.84	24.74	4.30	2.65	1.69	1.14	
11	3.34	8.30	21.10	4.58	50.40	17.40	16.92	18.36	4.16	2.65	1.69	1.14	
12	3.20	8.10	14.33	4.44	44.78	15.96	14.55	15.48	4.16	2.65	1.69	1.14	
13	3.20	8.50	11.18	4.58	28.85	15.72	17.16	13.65	4.03	2.51	1.69	1.14	
14	3.20	10.10	9.90	4.99	26.65	17.40	16.20	12.30	3.89	2.51	1.55	1.14	
15	3.75	10.30	9.10	4.71	26.65	32.43	12.98	11.63	3.89	2.38	1.69	1.00	
16	3.48	7.50	9.70	8.50	42.50	66.40	12.53	10.73	3.89	2.38	1.55	1.00	
17	4.03	6.50	9.30	10.95	42.50	41.85	11.40	9.90	3.89	2.38	1.55	1.00	
18	3.61	5.68	10.30	44.13	31.60	33.53	11.40	12.30	3.75	2.38	1.55	0.90	
19	3.34	5.54	11.85	145.70	25.00	32.70	10.50	10.50	3.89	2.24	1.55	0.90	
20	3.20	5.26	8.90	88.00	20.84	29.13	9.90	9.10	3.61	2.24	1.55	0.90	
21	3.06	4.85	8.10	47.05	19.32	25.55	9.30	8.50	3.61	2.24	1.41	0.90	
22	2.51	4.85	9.90	31.05	29.40	26.65	10.10	8.10	3.48	2.24	1.41	0.90	
23	2.51	4.71	15.96	23.70	22.40	27.75	9.30	7.10	3.48	2.24	1.41	0.90	
24	2.51	4.58	12.98	18.84	20.84	22.14	10.95	6.50	3.34	2.24	1.41	0.90	
25	3.06	4.71	24.22	15.96	30.23	19.56	10.50	6.36	3.34	2.10	1.41	0.90	
26	3.61	5.95	24.74	13.65	32.15	17.40	8.90	6.09	3.34	2.10	1.28	1.14	
27	5.26	5.26	16.92	12.08	42.50	15.72	8.50	5.95	3.20	2.10	1.28	1.28	
28	14.33	4.85	12.08	11.63	37.30	14.55	8.30	5.81	3.20	1.96	1.28	1.00	
29	10.50	6.23	9.50	10.30	45.75	13.20	7.70	5.95	3.06	1.96	1.28	1.00	
30	9.90	7.30	8.30	9.90	84.00	12.98	7.30	5.54	3.06	1.96	1.28	1.00	
31		9.10		9.10	67.25		7.30		3.06	1.96		1.28	
Total	133.24	213.53	419.83	582.33	896.68	826.03	403.98	361.07	123.29	75.04	45.83	33.28	4114.13 CMSDAY
Mean	4.44	6.89	13.99	18.78	28.93	27.53	13.03	12.04	3.98	2.42	1.58	1.07	11.24 CMS
Max	14.33	17.88	40.88	145.70	84.00	80.00	24.22	30.78	5.40	2.93	1.83	1.28	145.70 CMS
Min	2.51	3.61	7.30	4.44	7.10	12.98	7.30	5.54	3.06	1.96	1.28	0.90	0.90 CMS
Runoff	11.51	18.45	36.27	50.31	77.47	71.37	34.90	31.20	10.65	6.48	3.96	2.88	355.46 MCM
Momentary Peak	181.00	CMS.	at 17.60 m. (MSL.)	at 22.00 Hours	on Jul 19, 2019								
Runoff Yield	48.52	Liters/Second/Square KM.		Momentary Peak Yield	779.16	Liters/Second/Square KM.							

**WATER YEAR : 2019**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)**

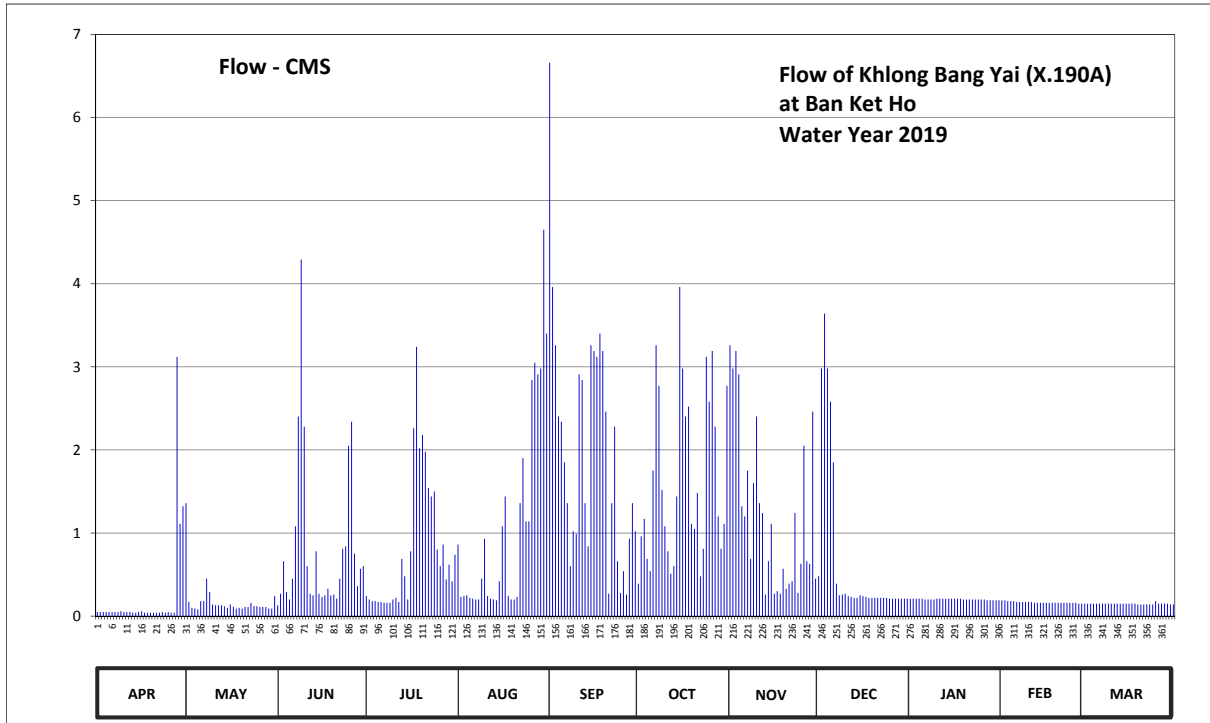
Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

**Location : on left bank at Ban Ket Ho.**

	<b>Ban Ket Ho</b>	<b>Amphoe Kathu</b>	<b>Changwat Phuket</b>
<b>Drainage Area</b>	28 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+17.360 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.25	14.84	14.33	14.44	14.78	15.53	14.53	15.18	14.56	14.41	14.39	14.35	
2	14.25	14.37	14.47	14.40	14.43	15.27	14.72	15.14	15.14	14.41	14.39	14.35	
3	14.25	14.30	14.62	14.38	14.44	15.18	14.79	15.17	15.23	14.41	14.38	14.35	
4	14.25	14.29	14.49	14.38	14.45	15.05	14.63	15.13	15.14	14.41	14.38	14.35	
5	14.25	14.28	14.40	14.37	14.42	15.04	14.58	14.83	15.08	14.41	14.38	14.35	
6	14.25	14.38	14.55	14.37	14.41	14.95	14.93	14.80	14.95	14.40	14.37	14.35	
7	14.25	14.38	14.76	14.36	14.40	14.84	15.18	14.93	14.53	14.40	14.37	14.35	
8	14.25	14.55	15.05	14.36	14.40	14.60	15.11	14.63	14.45	14.40	14.37	14.35	
9	14.26	14.49	15.31	14.36	14.55	14.74	14.88	14.90	14.46	14.40	14.37	14.35	
10	14.25	14.34	15.03	14.40	14.71	14.73	14.76	15.05	14.47	14.41	14.37	14.35	
11	14.25	14.33	14.60	14.42	14.44	15.13	14.66	14.84	14.44	14.41	14.37	14.35	
12	14.25	14.33	14.47	14.37	14.41	15.12	14.57	14.81	14.43	14.41	14.36	14.35	
13	14.24	14.33	14.45	14.63	14.40	14.84	14.60	14.46	14.42	14.41	14.36	14.35	
14	14.24	14.32	14.66	14.56	14.39	14.68	14.86	14.62	14.42	14.41	14.36	14.35	
15	14.25	14.30	14.47	14.40	14.54	15.18	15.27	14.77	14.45	14.41	14.36	14.35	
16	14.26	14.34	14.43	14.66	14.76	15.17	15.14	14.47	14.44	14.41	14.36	14.35	
17	14.24	14.31	14.45	15.29	14.86	15.16	15.05	14.50	14.43	14.41	14.36	14.35	
18	14.24	14.29	14.51	15.43	14.44	15.20	15.07	14.47	14.42	14.41	14.36	14.35	
19	14.24	14.30	14.45	15.23	14.40	15.17	14.77	14.59	14.42	14.40	14.36	14.34	
20	14.24	14.29	14.46	15.27	14.40	15.06	14.75	14.51	14.42	14.40	14.36	14.34	
21	14.24	14.31	14.41	15.22	14.43	14.47	14.87	14.53	14.42	14.40	14.36	14.34	
22	14.24	14.31	14.55	15.11	14.84	14.84	14.56	14.54	14.42	14.40	14.36	14.34	
23	14.25	14.36	14.67	15.07	14.96	15.03	14.67	14.81	14.42	14.40	14.36	14.34	
24	14.24	14.32	14.68	15.10	14.78	14.62	15.16	14.48	14.42	14.40	14.36	14.34	
25	14.25	14.32	14.99	14.75	14.78	14.48	15.08	14.61	14.41	14.40	14.36	14.38	
26	14.24	14.31	15.04	14.65	15.12	14.58	15.17	14.99	14.41	14.40	14.36	14.35	
27	14.24	14.31	14.65	14.78	15.15	14.46	15.03	14.62	14.41	14.39	14.35	14.35	
28	15.16	14.31	14.52	14.57	15.13	14.71	14.80	14.61	14.41	14.39	14.35	14.35	
29	14.77	14.29	14.59	14.66	15.14	14.84	14.67	15.06	14.41	14.39	14.35	14.35	
30	14.83	14.29	14.60	14.56	15.35	14.74	14.77	14.55	14.41	14.39	14.35	14.34	
31		14.44		14.72	15.20		15.11		14.41	14.39		14.34	
Mean	14.31	14.35	14.62	14.69	14.67	14.91	14.86	14.75	14.54	14.40	14.37	14.35	
Max	15.16	14.84	15.31	15.43	15.35	15.53	15.27	15.18	15.23	14.41	14.39	14.38	15.53
Min	14.24	14.28	14.33	14.36	14.39	14.46	14.53	14.46	14.41	14.39	14.35	14.34	14.24
Annual Max Momentary Gage Height	15.99		m. (MSL.) ,				at 11.00 Hours , on Sep 1, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	13.84	m. (MSL.)					
Left Bank Elevation		17.13	m. (MSL.) ,										
Right Bank Elevation		17.23	m. (MSL.) ,		Drainage Are	28	Square Kilometers						

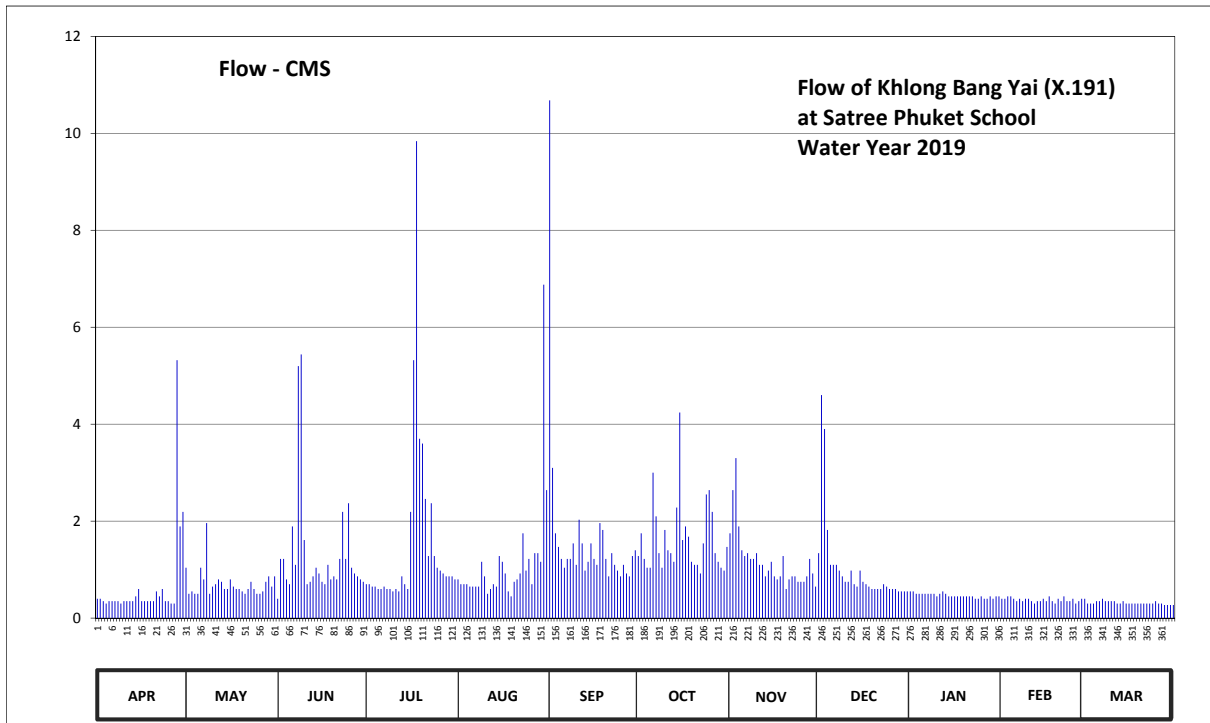


**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	1.36	0.13	0.24	0.86	6.66	0.39	3.26	0.48	0.21	0.19	0.15	
2	0.05	0.17	0.27	0.20	0.23	3.96	0.96	2.98	2.98	0.21	0.19	0.15	
3	0.05	0.10	0.66	0.18	0.24	3.26	1.17	3.19	3.64	0.21	0.18	0.15	
4	0.05	0.09	0.29	0.18	0.25	2.40	0.69	2.91	2.98	0.21	0.18	0.15	
5	0.05	0.08	0.20	0.17	0.22	2.34	0.54	1.32	2.58	0.21	0.18	0.15	
6	0.05	0.18	0.45	0.17	0.21	1.85	1.75	1.20	1.85	0.20	0.17	0.15	
7	0.05	0.18	1.08	0.16	0.20	1.36	3.26	1.75	0.39	0.20	0.17	0.15	
8	0.05	0.45	2.40	0.16	0.20	0.60	2.77	0.69	0.25	0.20	0.17	0.15	
9	0.06	0.29	4.29	0.16	0.45	1.02	1.52	1.60	0.26	0.20	0.17	0.15	
10	0.05	0.14	2.28	0.20	0.93	0.99	1.08	2.40	0.27	0.21	0.17	0.15	
11	0.05	0.13	0.60	0.22	0.24	2.91	0.78	1.36	0.24	0.21	0.17	0.15	
12	0.05	0.13	0.27	0.17	0.21	2.84	0.51	1.24	0.23	0.21	0.16	0.15	
13	0.04	0.13	0.25	0.69	0.20	1.36	0.60	0.26	0.22	0.21	0.16	0.15	
14	0.04	0.12	0.78	0.48	0.19	0.84	1.44	0.66	0.22	0.21	0.16	0.15	
15	0.05	0.10	0.27	0.20	0.42	3.26	3.96	1.11	0.25	0.21	0.16	0.15	
16	0.06	0.14	0.23	0.78	1.08	3.19	2.98	0.27	0.24	0.21	0.16	0.15	
17	0.04	0.11	0.25	2.26	1.44	3.12	2.40	0.30	0.23	0.21	0.16	0.15	
18	0.04	0.09	0.33	3.24	0.24	3.40	2.52	0.27	0.22	0.21	0.16	0.15	
19	0.04	0.10	0.25	2.02	0.20	3.19	1.11	0.57	0.22	0.20	0.16	0.14	
20	0.04	0.09	0.26	2.18	0.20	2.46	1.05	0.33	0.22	0.20	0.16	0.14	
21	0.04	0.11	0.21	1.98	0.23	0.27	1.48	0.39	0.22	0.20	0.16	0.14	
22	0.04	0.11	0.45	1.54	1.36	1.36	0.48	0.42	0.22	0.20	0.16	0.14	
23	0.05	0.16	0.81	1.44	1.90	2.28	0.81	1.24	0.22	0.20	0.16	0.14	
24	0.04	0.12	0.84	1.50	1.14	0.66	3.12	0.28	0.22	0.20	0.16	0.14	
25	0.05	0.12	2.05	0.80	1.14	0.28	2.58	0.63	0.21	0.20	0.16	0.18	
26	0.04	0.11	2.34	0.60	2.84	0.54	3.19	2.05	0.21	0.20	0.16	0.15	
27	0.04	0.11	0.75	0.86	3.05	0.26	2.28	0.66	0.21	0.19	0.15	0.15	
28	3.12	0.11	0.36	0.44	2.91	0.93	1.20	0.63	0.21	0.19	0.15	0.15	
29	1.11	0.09	0.57	0.62	2.98	1.36	0.81	2.46	0.21	0.19	0.15	0.15	
30	1.32	0.09	0.60	0.42	4.65	1.02	1.11	0.45	0.21	0.19	0.15	0.14	
31		0.24		0.74	3.40		2.77		0.21	0.19		0.14	
<b>Total</b>	6.81	5.55	24.52	25.00	33.81	59.97	51.31	36.88	20.32	6.29	4.79	4.60	279.85 CMSDAY
<b>Mean</b>	0.23	0.18	0.82	0.81	1.09	2.00	1.66	1.23	0.66	0.20	0.17	0.15	0.76 CMS
<b>Max</b>	3.12	1.36	4.29	3.24	4.65	6.66	3.96	3.26	3.64	0.21	0.19	0.18	6.66 CMS
<b>Min</b>	0.04	0.08	0.13	0.16	0.19	0.26	0.39	0.26	0.21	0.19	0.15	0.14	0.04 CMS
<b>Runoff</b>	0.59	0.48	2.12	2.16	2.92	5.18	4.43	3.19	1.76	0.54	0.41	0.40	24.18 MCM
<b>Momentary Peak</b>	13.80	CMS. at 15.99 m. (MSL.) at 11.00 Hours , on Sep 1, 2019											
<b>Runoff Yield</b>	26.51	Liters/Second/Square KM. Momentary Peak Yield 477.18 Liters/Second/Square KM.											







**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	1.04	0.40	0.70	0.80	10.68	1.28	1.75	1.34	0.55	0.40	0.40	
2	0.40	0.50	1.22	0.70	0.70	3.10	1.75	2.64	4.60	0.55	0.40	0.30	
3	0.35	0.55	1.22	0.65	0.70	1.75	1.22	3.30	3.90	0.50	0.45	0.30	
4	0.30	0.50	0.80	0.65	0.70	1.47	1.04	1.89	1.82	0.50	0.45	0.30	
5	0.35	0.50	0.70	0.60	0.65	1.22	1.04	1.40	1.10	0.50	0.40	0.35	
6	0.35	1.04	1.89	0.60	0.65	1.04	3.00	1.28	1.10	0.50	0.35	0.35	
7	0.35	0.80	1.10	0.65	0.65	1.22	2.10	1.34	1.10	0.50	0.40	0.40	
8	0.35	1.96	5.20	0.60	0.65	1.22	1.34	1.22	0.98	0.50	0.35	0.35	
9	0.30	0.50	5.44	0.60	1.16	1.54	1.04	1.22	0.86	0.50	0.40	0.35	
10	0.35	0.65	1.61	0.55	0.86	1.10	1.82	1.34	0.75	0.45	0.40	0.35	
11	0.35	0.70	0.70	0.60	0.50	2.03	1.40	1.10	0.75	0.50	0.35	0.35	
12	0.35	0.80	0.75	0.55	0.60	1.54	1.34	1.10	0.98	0.55	0.30	0.30	
13	0.35	0.75	0.86	0.86	0.70	0.98	1.16	0.86	0.70	0.50	0.35	0.30	
14	0.45	0.60	1.04	0.70	0.65	1.16	2.28	0.98	0.65	0.45	0.35	0.35	
15	0.60	0.60	0.92	0.60	1.28	1.54	4.24	1.16	0.98	0.45	0.40	0.30	
16	0.35	0.80	0.75	2.19	1.16	1.22	1.61	0.86	0.75	0.45	0.35	0.30	
17	0.35	0.65	0.70	5.32	0.92	1.10	1.89	0.80	0.70	0.45	0.45	0.30	
18	0.35	0.60	1.10	9.84	0.55	1.96	1.68	0.86	0.65	0.45	0.35	0.30	
19	0.35	0.60	0.80	3.70	0.45	1.82	1.16	1.28	0.60	0.45	0.30	0.30	
20	0.35	0.55	0.86	3.60	0.75	1.22	1.10	0.60	0.60	0.45	0.40	0.30	
21	0.55	0.50	0.80	2.46	0.80	0.86	1.10	0.80	0.60	0.45	0.35	0.30	
22	0.45	0.60	1.22	1.28	0.92	1.34	0.92	0.86	0.60	0.45	0.45	0.30	
23	0.60	0.75	2.19	2.37	1.75	1.10	1.54	0.86	0.70	0.40	0.35	0.30	
24	0.35	0.60	1.22	1.28	0.98	0.98	2.55	0.75	0.65	0.40	0.35	0.30	
25	0.35	0.50	2.37	1.04	1.22	0.86	2.64	0.75	0.60	0.45	0.40	0.35	
26	0.30	0.50	1.04	0.98	0.70	1.10	2.19	0.75	0.60	0.40	0.30	0.30	
27	0.30	0.55	0.92	0.92	1.34	0.92	1.34	0.86	0.60	0.40	0.35	0.30	
28	5.32	0.75	0.86	0.86	1.34	0.86	1.16	1.22	0.55	0.45	0.40	0.27	
29	1.89	0.86	0.80	0.86	1.16	1.28	1.04	0.92	0.55	0.40	0.35	0.27	
30	2.19	0.65	0.75	0.86	6.88	1.40	0.98	0.65	0.55	0.45		0.27	
31		0.86		0.80	2.64		1.47		0.55	0.45		0.27	
<b>Total</b>	19.65	21.81	40.23	47.97	34.81	49.61	50.42	35.40	31.46	14.45	10.90	9.78	366.49 CMSDAY
<b>Mean</b>	0.65	0.70	1.34	1.55	1.12	1.65	1.63	1.18	1.01	0.47	0.38	0.32	1.00 CMS
<b>Max</b>	5.32	1.96	5.44	9.84	6.88	10.68	4.24	3.30	4.60	0.55	0.45	0.40	10.68 CMS
<b>Min</b>	0.30	0.50	0.40	0.55	0.45	0.86	0.92	0.60	0.55	0.40	0.30	0.27	0.27 CMS
<b>Runoff</b>	1.70	1.88	3.48	4.14	3.01	4.29	4.36	3.06	2.72	1.25	0.94	0.84	31.66 MCM
<b>Momentary Peak</b>	27.70 CMS. at 3.55 m. (MSL.) at 20.00 Hours , on Dec 2, 2019												
<b>Runoff Yield</b>	18.57 Liters/Second/Square KM. Momentary Peak Yield 512.39 Liters/Second/Square KM.												

**WATER YEAR : 2019**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Kapong at Ban Tha Na , Phang Nga (X.196)**

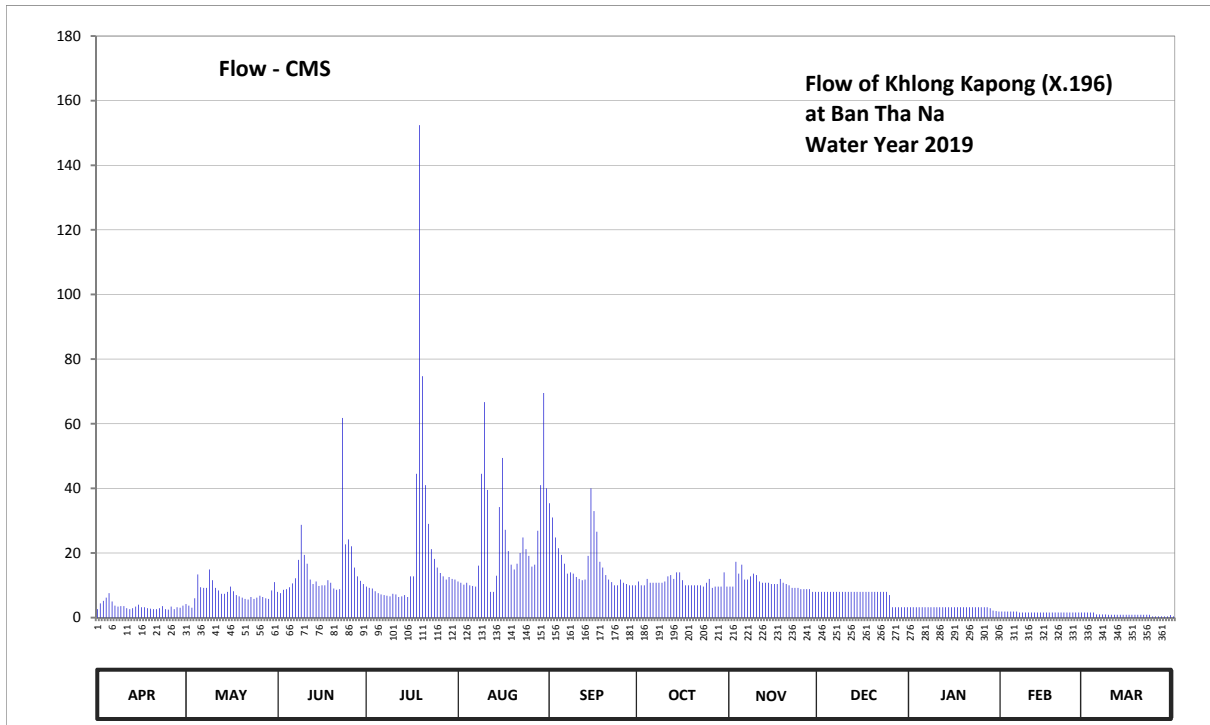
Lat 08 - 42 - 02 N Long 98 - 24 - 42 E

Location : on left bank at the bridge.

	<b>Ban Tha Na</b>	<b>Amphoe Kapong</b>	<b>Changwat Phang Nga</b>
<b>Drainage Area</b>	139	sq.km.	
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000	m. (MSL.)	
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the top staff gage.		<b>Elevation</b> +20.086 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	1999 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2003 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2003 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

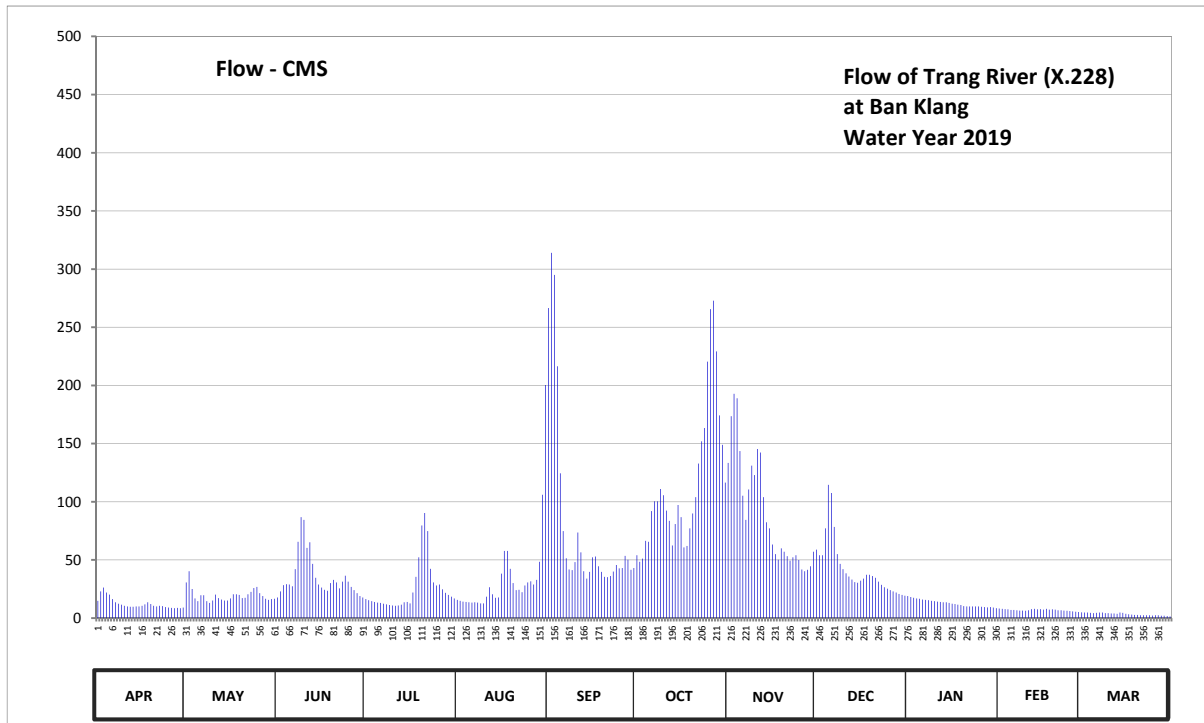
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.91	15.01	15.20	15.28	15.36	16.16	15.36	15.28	15.20	14.95	14.86	14.84	
2	15.02	14.98	15.18	15.26	15.34	16.05	15.30	15.28	15.20	14.95	14.86	14.84	
3	15.06	14.94	15.23	15.25	15.31	15.86	15.30	15.61	15.20	14.95	14.86	14.84	
4	15.11	15.10	15.24	15.21	15.34	15.75	15.40	15.48	15.20	14.95	14.86	14.84	
5	15.18	15.47	15.27	15.18	15.30	15.68	15.34	15.58	15.20	14.95	14.86	14.80	
6	15.05	15.27	15.33	15.16	15.29	15.59	15.34	15.39	15.20	14.95	14.86	14.80	
7	14.98	15.26	15.41	15.15	15.28	15.48	15.34	15.39	15.20	14.95	14.84	14.80	
8	14.96	15.26	15.63	15.14	15.57	15.50	15.34	15.44	15.20	14.95	14.84	14.80	
9	14.97	15.53	15.99	15.13	16.35	15.48	15.34	15.48	15.20	14.95	14.84	14.79	
10	14.97	15.38	15.68	15.17	16.71	15.43	15.36	15.46	15.20	14.95	14.84	14.79	
11	14.93	15.26	15.59	15.16	16.25	15.40	15.44	15.36	15.20	14.95	14.84	14.79	
12	14.91	15.22	15.39	15.12	15.20	15.38	15.46	15.34	15.20	14.95	14.84	14.79	
13	14.93	15.17	15.32	15.13	15.20	15.39	15.40	15.34	15.20	14.95	14.84	14.79	
14	14.96	15.17	15.36	15.15	15.45	15.67	15.50	15.34	15.20	14.95	14.84	14.79	
15	15.00	15.20	15.29	15.12	16.13	16.26	15.50	15.32	15.20	14.95	14.84	14.79	
16	14.95	15.28	15.30	15.44	16.44	16.10	15.38	15.32	15.20	14.95	14.84	14.79	
17	14.95	15.21	15.30	15.44	15.94	15.92	15.30	15.32	15.20	14.95	14.84	14.79	
18	14.93	15.15	15.38	16.35	15.72	15.61	15.30	15.40	15.20	14.95	14.84	14.79	
19	14.92	15.13	15.34	17.64	15.58	15.55	15.30	15.34	15.20	14.95	14.84	14.79	
20	14.91	15.11	15.25	16.82	15.53	15.46	15.30	15.32	15.20	14.95	14.84	14.79	
21	14.91	15.09	15.23	16.28	15.59	15.39	15.30	15.30	15.20	14.95	14.84	14.79	
22	14.93	15.08	15.24	16.00	15.70	15.35	15.30	15.26	15.20	14.95	14.84	14.79	
23	14.97	15.12	16.64	15.74	15.86	15.30	15.28	15.26	15.20	14.95	14.84	14.79	
24	14.91	15.09	15.79	15.64	15.74	15.30	15.34	15.26	15.20	14.95	14.84	14.74	
25	14.90	15.11	15.84	15.55	15.67	15.39	15.40	15.24	15.15	14.95	14.84	14.74	
26	14.96	15.14	15.77	15.49	15.56	15.34	15.26	15.24	14.95	14.95	14.84	14.74	
27	14.91	15.12	15.55	15.44	15.58	15.32	15.28	15.24	14.95	14.95	14.84	14.74	
28	14.95	15.10	15.44	15.39	15.93	15.30	15.28	15.24	14.95	14.93	14.84	14.74	
29	14.94	15.09	15.37	15.43	16.28	15.30	15.28	15.20	14.95	14.88	14.84	14.74	
30	14.98	15.22	15.32	15.40	16.75	15.30	15.50	15.20	14.95	14.87		14.78	
31		15.35		15.39	16.26		15.28		14.95	14.86		14.74	
Mean	14.97	15.18	15.46	15.52	15.75	15.57	15.35	15.34	15.15	14.94	14.84	14.79	
Max	15.18	15.53	16.64	17.64	16.75	16.26	15.50	15.61	15.20	14.95	14.86	14.84	17.64
Min	14.90	14.94	15.18	15.12	15.20	15.30	15.26	15.20	14.95	14.86	14.84	14.74	14.74
Annual Max Momentary Gage Height	17.90	m. (MSL.) ,		at 15.00 Hours , on Jul 19, 2019									
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,		River Bed 13.77 m. (MSL)									
Left Bank Elevation		18.54	m. (MSL.) ,										
Right Bank Elevation		19.18	m. (MSL.) ,		Drainage Are	139	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.65	4.20	8.00	9.60	11.20	35.40	11.20	9.60	8.00	3.25	1.90	1.60		
2	4.40	3.70	7.60	9.20	10.80	31.00	10.00	9.60	8.00	3.25	1.90	1.60		
3	5.20	3.10	8.60	9.00	10.20	24.80	10.00	17.30	8.00	3.25	1.90	1.60		
4	6.20	6.00	8.80	8.20	10.80	21.50	12.00	13.60	8.00	3.25	1.90	1.60		
5	7.60	13.40	9.40	7.60	10.00	19.40	10.80	16.40	8.00	3.25	1.90	1.00		
6	5.00	9.40	10.60	7.20	9.80	16.70	10.80	11.80	8.00	3.25	1.90	1.00		
7	3.70	9.20	12.20	7.00	9.60	13.60	10.80	11.80	8.00	3.25	1.60	1.00		
8	3.40	9.20	17.90	6.80	16.10	14.00	10.80	12.80	8.00	3.25	1.60	1.00		
9	3.55	14.90	28.70	6.60	44.50	13.60	10.80	13.60	8.00	3.25	1.60	0.90		
10	3.55	11.60	19.40	7.40	66.70	12.60	11.20	13.20	8.00	3.25	1.60	0.90		
11	2.95	9.20	16.70	7.20	39.50	12.00	12.80	11.20	8.00	3.25	1.60	0.90		
12	2.65	8.40	11.80	6.40	8.00	11.60	13.20	10.80	8.00	3.25	1.60	0.90		
13	2.95	7.40	10.40	6.60	8.00	11.80	12.00	10.80	8.00	3.25	1.60	0.90		
14	3.40	7.40	11.20	7.00	13.00	19.10	14.00	10.80	8.00	3.25	1.60	0.90		
15	4.00	8.00	9.80	6.40	34.20	40.00	14.00	10.40	8.00	3.25	1.60	0.90		
16	3.25	9.60	10.00	12.80	49.40	33.00	11.60	10.40	8.00	3.25	1.60	0.90		
17	3.25	8.20	10.00	12.80	27.20	26.60	10.00	10.40	8.00	3.25	1.60	0.90		
18	2.95	7.00	11.60	44.50	20.60	17.30	10.00	12.00	8.00	3.25	1.60	0.90		
19	2.80	6.60	10.80	152.40	16.40	15.50	10.00	10.80	8.00	3.25	1.60	0.90		
20	2.65	6.20	9.00	74.70	14.90	13.20	10.00	10.40	8.00	3.25	1.60	0.90		
21	2.65	5.80	8.60	41.00	16.70	11.80	10.00	10.00	8.00	3.25	1.60	0.90		
22	2.95	5.60	8.80	29.00	20.00	11.00	10.00	9.20	8.00	3.25	1.60	0.90		
23	3.55	6.40	61.80	21.20	24.80	10.00	9.60	9.20	8.00	3.25	1.60	0.90		
24	2.65	5.80	22.70	18.20	21.20	10.00	10.80	9.20	8.00	3.25	1.60	0.40		
25	2.50	6.20	24.20	15.50	19.10	11.80	12.00	8.80	7.00	3.25	1.60	0.40		
26	3.40	6.80	22.10	13.80	15.80	10.80	9.20	8.80	3.25	3.25	1.60	0.40		
27	2.65	6.40	15.50	12.80	16.40	10.40	9.60	8.80	3.25	3.25	1.60	0.40		
28	3.25	6.00	12.80	11.80	26.90	10.00	9.60	8.80	3.25	2.95	1.60	0.40		
29	3.10	5.80	11.40	12.60	41.00	10.00	9.60	8.00	3.25	2.20	1.60	0.40		
30	3.70	8.40	10.40	12.00	69.50	10.00	14.00	8.00	3.25	2.05		0.80		
31		11.00		11.80	40.00		9.60		3.25	1.90		0.40		
Total	106.50	236.90	440.80	609.10	742.30	508.50	340.00	326.50	218.50	96.85	48.20	27.50	3701.65	CMSDAY
Mean	3.55	7.64	14.69	19.65	23.95	16.95	10.97	10.88	7.05	3.12	1.66	0.89	10.11	CMS
Max	7.60	14.90	61.80	152.40	69.50	40.00	14.00	17.30	8.00	3.25	1.90	1.60	152.40	CMS
Min	2.50	3.10	7.60	6.40	8.00	10.00	9.20	8.00	3.25	1.90	1.60	0.40	0.40	CMS
Runoff	9.20	20.47	38.09	52.63	64.13	43.93	29.38	28.21	18.88	8.37	4.16	2.38	319.82	MCM
Momentary Peak		182.00	CMS. at 17.90 m. (MSL.)	at 15.00 Hours	on Jul 19, 2019									
Runoff Yield		73.01	Liters/Second/Square KM.		Momentary Peak Yield	1310.20	Liters/Second/Square KM.							





APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
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Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.80	30.70	17.80	16.30	15.70	266.50	54.10	133.40	58.80	19.00	8.25	5.00	
2	22.90	40.30	22.90	15.40	14.80	314.00	48.40	173.60	54.10	18.10	8.00	4.75	
3	26.20	25.00	28.30	14.50	14.20	295.00	51.10	192.80	54.10	17.50	7.75	4.75	
4	22.00	16.90	29.20	13.90	13.90	216.40	66.40	188.90	77.20	16.90	7.50	4.50	
5	20.20	14.50	28.90	13.30	13.60	124.50	65.60	143.60	114.50	16.60	7.00	4.25	
6	16.30	19.60	27.40	13.00	13.30	74.80	92.00	105.20	107.60	16.00	7.00	4.50	
7	13.60	19.60	42.10	12.40	13.60	51.40	100.40	84.40	78.40	15.70	6.75	4.75	
8	12.40	14.50	65.60	11.80	13.30	41.80	100.40	110.50	55.00	15.40	6.50	4.75	
9	11.50	13.00	86.80	11.20	12.70	41.20	111.00	131.00	46.60	14.80	6.50	4.25	
10	10.60	15.10	84.40	10.90	12.70	48.10	105.60	123.00	42.10	14.50	6.25	4.25	
11	10.00	20.20	60.40	10.60	18.40	73.60	92.40	145.40	38.50	14.20	6.75	4.00	
12	9.75	17.20	65.20	10.90	26.50	56.50	83.60	142.40	35.80	13.90	7.75	4.00	
13	9.75	16.00	46.60	11.50	20.50	40.30	62.40	104.00	33.10	13.60	8.00	3.75	
14	10.00	15.10	34.60	13.60	17.50	34.00	80.80	82.40	31.00	13.60	7.50	4.75	
15	10.00	15.10	28.90	13.90	17.80	39.70	97.20	77.20	30.40	13.00	7.75	4.50	
16	10.60	16.90	26.20	12.70	38.20	52.30	86.80	63.20	32.20	12.40	7.25	3.75	
17	11.80	20.50	24.40	22.00	57.70	52.90	60.80	55.00	34.00	12.10	8.00	3.25	
18	13.60	20.50	23.50	35.50	57.70	44.50	62.00	50.20	37.30	11.50	7.25	3.00	
19	12.10	19.90	30.10	52.30	42.40	39.70	77.20	60.00	37.30	11.20	7.50	2.75	
20	10.60	17.20	32.80	79.60	30.10	35.50	90.00	57.10	36.10	10.30	7.25	2.75	
21	10.00	17.50	30.70	90.40	24.10	35.20	104.00	53.20	34.60	10.00	6.75	2.50	
22	10.60	20.50	25.60	74.80	24.40	36.10	132.80	49.30	31.30	10.00	6.75	2.50	
23	10.30	22.60	31.30	42.40	22.30	40.00	152.00	52.30	28.60	10.00	6.50	2.50	
24	9.50	25.90	36.40	30.70	28.00	45.70	163.40	54.10	26.50	10.00	6.25	2.50	
25	9.00	26.80	31.30	28.00	30.70	42.70	220.40	49.90	25.30	10.00	6.00	2.25	
26	8.75	21.40	26.80	28.90	31.60	43.00	265.60	41.80	24.10	9.75	5.75	2.50	
27	8.50	19.00	24.10	24.70	28.90	53.50	272.80	40.30	22.90	9.50	5.50	2.50	
28	8.75	16.60	21.40	21.70	32.80	50.20	229.20	41.50	22.00	9.25	5.25	2.00	
29	8.50	15.70	19.00	19.90	48.40	41.50	174.20	44.50	20.80	9.50	5.25	2.00	
30	9.00	16.30	17.80	18.40	106.00	43.00	149.00	57.10	19.90	9.00		1.75	
31		16.60		16.90	200.40		116.50		19.30	8.50		1.50	
Total	371.60	606.70	1070.50	792.10	1042.20	2373.60	3568.10	2707.30	1309.40	395.80	200.50	106.75	14544.55 CMSDAY
Mean	12.39	19.57	35.68	25.55	33.62	79.12	115.10	90.24	42.24	12.77	6.91	3.44	39.74 CMS
Max	26.20	40.30	86.80	90.40	200.40	314.00	272.80	192.80	114.50	19.00	8.25	5.00	314.00 CMS
Min	8.50	13.00	17.80	10.60	12.70	34.00	48.40	40.30	19.30	8.50	5.25	1.50	1.50 CMS
Runoff	32.11	52.42	92.49	68.44	90.05	205.08	308.28	233.91	113.13	34.20	17.32	9.22	1256.65 MCM
Momentary Peak		318.00	CMS. at 7.78 m. (MSL.) at 20.00 Hours , on Sep 2 , 2019										
Runoff Yield		14.83	Liters/Second/Square KM.				118.37	Liters/Second/Square KM.					

**WATER YEAR : 2019**  
**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.

	<b>Ban Pa Mak</b>	<b>Amphoe Mueang</b>	<b>Changwat Trang</b>
<b>Drainage Area</b>	2,809 sq.km.		
<b>Type of Gage</b>	Water - stage recorder.		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On left bank near the top staff gage.		<b>Elevation</b> +6.388 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

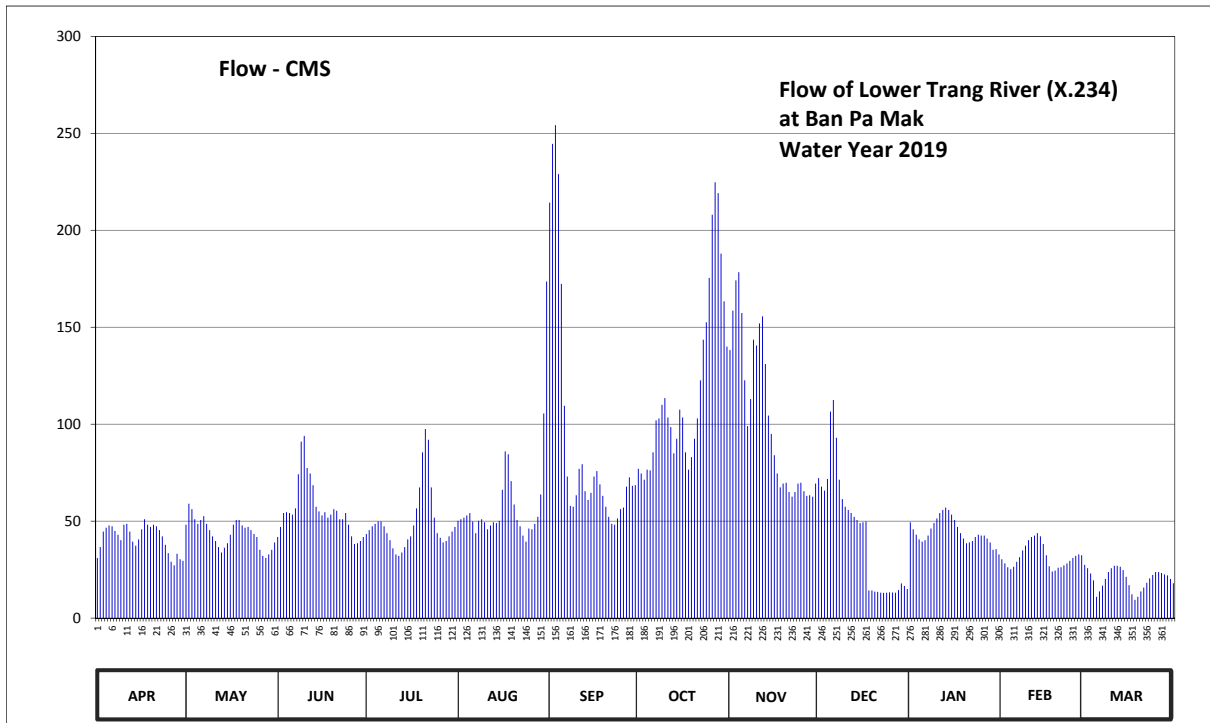
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.43	0.88	0.72	0.76	0.93	3.99	1.60	2.77	1.48	0.91	0.41	0.30	
2	0.59	1.15	0.85	0.81	0.95	4.42	1.54	3.11	1.37	0.82	0.33	0.23	
3	0.79	1.08	1.03	0.86	0.97	4.54	1.46	3.37	1.32	0.75	0.25	0.12	
4	0.84	0.95	1.04	0.89	1.00	4.20	1.59	3.44	1.47	0.69	0.21	-0.02	
5	0.87	0.89	1.03	0.92	1.03	3.34	1.58	3.09	2.21	0.66	0.26	-0.36	
6	0.86	0.94	1.01	0.92	0.92	2.27	1.79	2.51	2.33	0.68	0.36	-0.25	
7	0.80	0.99	1.09	0.86	0.77	1.50	2.12	2.06	1.94	0.74	0.44	-0.13	
8	0.75	0.89	1.53	0.77	0.93	1.12	2.14	2.34	1.46	0.83	0.54	0.01	
9	0.68	0.81	1.90	0.68	0.95	1.11	2.28	2.86	1.21	0.90	0.61	0.15	
10	0.88	0.73	1.96	0.57	0.91	1.26	2.35	2.81	1.11	0.96	0.68	0.23	
11	0.89	0.67	1.61	0.48	0.82	1.60	2.15	3.00	1.07	1.03	0.72	0.28	
12	0.79	0.59	1.54	0.46	0.87	1.66	2.05	3.06	1.03	1.07	0.74	0.28	
13	0.66	0.51	1.39	0.51	0.91	1.31	1.78	2.65	0.98	1.10	0.77	0.26	
14	0.61	0.58	1.11	0.59	0.90	1.20	1.93	2.17	0.94	1.07	0.73	0.19	
15	0.69	0.64	1.05	0.69	0.93	1.29	2.23	1.98	0.90	1.01	0.63	0.05	
16	0.82	0.75	1.00	0.73	1.33	1.50	2.15	1.76	0.91	0.94	0.47	-0.12	
17	0.95	0.88	1.04	0.87	1.80	1.57	1.79	1.54	0.92	0.85	0.27	-0.31	
18	0.88	0.94	0.97	1.09	1.77	1.40	1.59	1.36	0.93	0.77	0.16	-0.43	
19	0.85	0.94	1.01	1.36	1.44	1.25	1.74	1.41	0.93	0.70	0.18	-0.36	
20	0.88	0.87	1.08	1.79	1.14	1.11	1.93	1.42	0.87	0.64	0.24	-0.25	
21	0.86	0.84	1.06	2.03	0.94	0.98	2.14	1.30	0.85	0.65	0.25	-0.17	
22	0.81	0.85	0.95	1.92	0.86	0.89	2.51	1.24	0.81	0.67	0.29	-0.07	
23	0.73	0.81	0.95	1.36	0.74	0.88	2.86	1.30	0.80	0.72	0.33	0.02	
24	0.62	0.76	1.03	0.97	0.66	0.96	3.01	1.41	0.81	0.75	0.38	0.09	
25	0.50	0.72	0.88	0.77	0.83	1.08	3.39	1.42	0.83	0.74	0.43	0.15	
26	0.36	0.55	0.73	0.71	0.82	1.10	3.90	1.31	0.82	0.74	0.46	0.15	
27	0.29	0.46	0.63	0.65	0.89	1.37	4.14	1.25	0.81	0.70	0.48	0.13	
28	0.49	0.43	0.64	0.67	0.98	1.49	4.06	1.26	0.94	0.65	0.47	0.10	
29	0.41	0.48	0.67	0.73	1.27	1.38	3.60	1.24	1.13	0.55	0.40	0.08	
30	0.38	0.55	0.72	0.79	2.19	1.39	3.19	1.41	1.08	0.56		0.01	
31		0.65		0.85	3.36		2.80		1.00	0.48		-0.08	
Mean	0.70	0.77	1.07	0.91	1.12	1.77	2.37	2.06	1.14	0.78	0.43	0.01	
Max	0.95	1.15	1.96	2.03	3.36	4.54	4.14	3.44	2.33	1.10	0.77	0.30	4.54
Min	0.29	0.43	0.63	0.46	0.66	0.88	1.46	1.24	0.80	0.48	0.16	-0.43	-0.43
Annual Max Momentary Gage Height	4.57												
Zero Gage at Bottom Elevation	0.00												
Left Bank Elevation	6.40												
Right Bank Elevation	4.95												

Annual Max Momentary Gage Height 4.57 m. (MSL.) , at 07.00 Hours , on Sep 3, 2019

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.56 m. (MSL.)

Left Bank Elevation 6.40 m. (MSL.) ,

Right Bank Elevation 4.95 m. (MSL.) , Drainage Area 2,809 Square Kilometers



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	31.05	48.20	41.80	43.40	50.20	214.30	77.00	138.20	72.20	49.40	30.35	27.50		
2	36.65	59.00	47.00	45.40	51.00	244.60	74.60	158.60	67.80	45.80	28.25	25.75		
3	44.60	56.20	54.20	47.40	51.80	254.20	71.40	174.20	65.80	43.00	26.25	23.00		
4	46.60	51.00	54.60	48.60	53.00	229.00	76.60	178.40	71.80	40.60	25.25	19.50		
5	47.80	48.60	54.20	49.80	54.20	172.40	76.20	157.40	106.50	39.40	26.50	11.00		
6	47.40	50.60	53.40	49.80	49.80	109.50	85.50	122.60	112.50	40.20	29.00	13.75		
7	45.00	52.60	56.60	47.40	43.80	73.00	102.00	99.00	93.00	42.60	31.40	16.75		
8	43.00	48.60	74.20	43.80	50.20	57.80	103.00	113.00	71.40	46.20	34.90	20.25		
9	40.20	45.40	91.00	40.20	51.00	57.40	110.00	143.60	61.40	49.00	37.40	23.75		
10	48.20	42.20	94.00	35.95	49.40	63.40	113.50	140.60	57.40	51.40	40.20	25.75		
11	48.60	39.80	77.40	32.80	45.80	77.00	103.50	152.00	55.80	54.20	41.80	27.00		
12	44.60	36.65	74.60	32.10	47.80	79.40	98.50	155.60	54.20	55.80	42.60	27.00		
13	39.40	33.85	68.60	33.85	49.40	65.40	85.00	131.00	52.20	57.00	43.80	26.50		
14	37.40	36.30	57.40	36.65	49.00	61.00	92.50	104.50	50.60	55.80	42.20	24.75		
15	40.60	38.60	55.00	40.60	50.20	64.60	107.50	95.00	49.00	53.40	38.20	21.25		
16	45.80	43.00	53.00	42.20	66.20	73.00	103.50	84.00	49.40	50.60	32.45	17.00		
17	51.00	48.20	54.60	47.80	86.00	75.80	85.50	74.60	49.80	47.00	26.75	12.25		
18	48.20	50.60	51.80	56.60	84.50	69.00	76.60	67.40	14.30	43.80	24.00	9.40		
19	47.00	50.60	53.40	67.40	70.60	63.00	83.00	69.40	14.30	41.00	24.50	11.00		
20	48.20	47.80	56.20	85.50	58.60	57.40	92.50	69.80	13.70	38.60	26.00	13.75		
21	47.40	46.60	55.40	97.50	50.60	52.20	103.00	65.00	13.50	39.00	26.25	15.75		
22	45.40	47.00	51.00	92.00	47.40	48.60	122.60	62.60	13.10	39.80	27.25	18.25		
23	42.20	45.40	51.00	67.40	42.60	48.20	143.60	65.00	13.00	41.80	28.25	20.50		
24	37.80	43.40	54.20	51.80	39.40	51.40	152.60	69.40	13.10	43.00	29.50	22.25		
25	33.50	41.80	48.20	43.80	46.20	56.20	175.40	69.80	13.30	42.60	31.05	23.75		
26	29.00	35.25	42.20	41.40	45.80	57.00	208.00	65.40	13.20	42.60	32.10	23.75		
27	27.25	32.10	38.20	39.00	48.60	67.80	224.80	63.00	13.10	41.00	32.80	23.25		
28	33.15	31.05	38.60	39.80	52.20	72.60	219.20	63.40	14.40	39.00	32.45	22.50		
29	30.35	32.80	39.80	42.20	63.80	68.20	188.00	62.60	17.90	35.25	30.00	22.00		
30	29.50	35.25	41.80	44.60	105.50	68.60	163.40	69.40	16.60	35.60		20.25		
31		39.00		47.00	173.60		140.00		15.00	32.80		18.00		
<b>Total</b>	1236.85	1357.45	1683.40	1533.75	1828.20	2752.00	3658.50	3084.50	1339.30	1377.25	921.45	627.15	21399.80	CMSDAY
<b>Mean</b>	41.23	43.79	56.11	49.48	58.97	91.73	118.02	102.82	43.20	44.43	31.77	20.23	58.47	CMS
<b>Max</b>	51.00	59.00	94.00	97.50	173.60	254.20	224.80	178.40	112.50	57.00	43.80	27.50	254.20	CMS
<b>Min</b>	27.25	31.05	38.20	32.10	39.40	48.20	71.40	62.60	13.00	32.80	24.00	9.40	9.40	CMS
<b>Runoff</b>	106.86	117.28	145.45	132.52	157.96	237.77	316.09	266.50	115.72	118.99	79.61	54.19	1848.94	MCM
<b>Momentary Peak</b>	256.60	CMS.	CMS.	at 4.57 m. (MSL.)	at 07.00 Hours	, on Sep 3, 2019								
<b>Runoff Yield</b>	20.88	Liters/Second/Square KM.			Momentary Peak Yield	91.37	Liters/Second/Square KM.							



## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

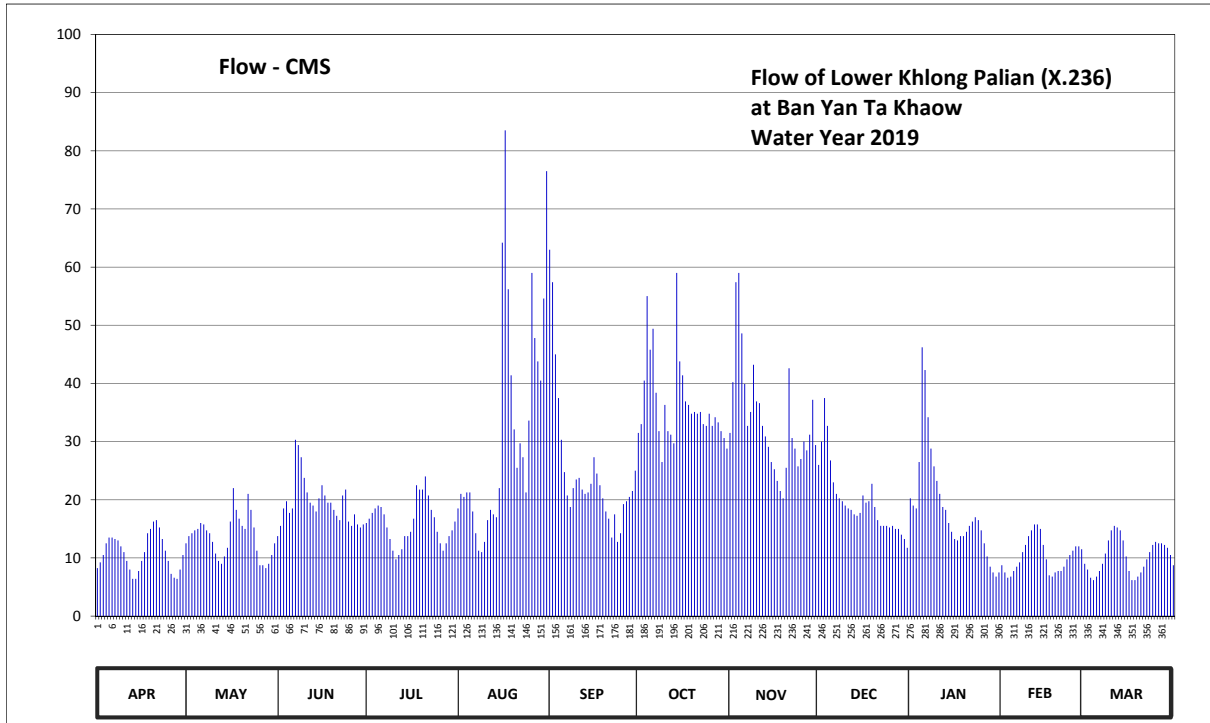
Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

Location : on right bank at Ban Yan Ta Khaow.

	Ban Yan Ta Khaow	Amphoe Yan Ta Khaow	Changwat Trang
<b>Drainage Area</b>	588 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+5.628 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 24 readings		
<b>Period of Available Gage Records</b>	2004 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2004 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2004 to date		
<b>Stability of Channel Regimes</b>	Fairly stable because of backwater effect.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.25	0.42	0.47	0.56	0.66	2.05	1.15	1.15	0.96	0.73	0.27	0.28	
2	0.29	0.47	0.54	0.59	0.76	1.91	1.20	1.44	1.10	0.68	0.22	0.24	
3	0.34	0.49	0.66	0.63	0.74	1.60	1.45	1.91	1.35	0.66	0.18	0.18	
4	0.42	0.51	0.71	0.66	0.77	1.35	1.85	1.95	1.19	0.98	0.19	0.16	
5	0.46	0.52	0.63	0.68	0.77	1.11	1.62	1.69	0.99	1.63	0.23	0.19	
6	0.46	0.56	0.66	0.67	0.64	0.91	1.71	1.43	0.84	1.51	0.26	0.23	
7	0.45	0.55	1.11	0.62	0.49	0.75	1.38	1.19	0.76	1.24	0.29	0.28	
8	0.44	0.51	1.08	0.53	0.37	0.67	1.16	1.27	0.73	1.06	0.36	0.35	
9	0.40	0.49	1.01	0.45	0.36	0.80	0.98	1.54	0.71	0.95	0.41	0.44	
10	0.36	0.43	0.87	0.37	0.43	0.86	1.31	1.33	0.68	0.85	0.47	0.51	
11	0.30	0.35	0.77	0.31	0.58	0.87	1.16	1.32	0.66	0.76	0.51	0.54	
12	0.24	0.30	0.70	0.34	0.65	0.79	1.14	1.19	0.65	0.67	0.55	0.53	
13	0.17	0.28	0.68	0.38	0.62	0.76	1.09	1.13	0.62	0.65	0.55	0.51	
14	0.17	0.33	0.64	0.47	0.60	0.77	1.95	1.07	0.61	0.56	0.52	0.44	
15	0.23	0.39	0.73	0.47	0.80	0.83	1.56	0.98	0.63	0.50	0.41	0.33	
16	0.30	0.57	0.82	0.50	2.08	1.01	1.48	0.93	0.75	0.45	0.31	0.23	
17	0.36	0.80	0.75	0.59	2.47	0.90	1.33	0.85	0.70	0.44	0.20	0.16	
18	0.49	0.65	0.70	0.82	1.88	0.82	1.31	0.78	0.71	0.47	0.19	0.16	
19	0.52	0.59	0.70	0.79	1.48	0.73	1.26	0.73	0.83	0.47	0.22	0.19	
20	0.57	0.54	0.65	0.79	1.17	0.64	1.27	0.94	0.67	0.50	0.23	0.22	
21	0.58	0.52	0.61	0.88	0.94	0.59	1.26	1.52	0.58	0.54	0.23	0.26	
22	0.53	0.76	0.58	0.75	1.09	0.46	1.27	1.12	0.54	0.57	0.26	0.31	
23	0.45	0.65	0.75	0.65	1.01	0.62	1.20	1.06	0.54	0.60	0.31	0.36	
24	0.37	0.53	0.79	0.60	0.77	0.43	1.19	0.95	0.54	0.58	0.34	0.41	
25	0.30	0.37	0.57	0.50	1.22	0.49	1.26	1.00	0.53	0.51	0.37	0.43	
26	0.21	0.27	0.54	0.42	1.95	0.69	1.19	1.10	0.54	0.42	0.40	0.42	
27	0.18	0.27	0.62	0.37	1.67	0.71	1.24	1.05	0.52	0.33	0.40	0.42	
28	0.17	0.25	0.55	0.42	1.56	0.74	1.21	1.14	0.52	0.26	0.38	0.41	
29	0.24	0.28	0.53	0.47	1.45	0.78	1.16	1.34	0.48	0.22	0.34	0.39	
30	0.34	0.34	0.55	0.51	1.84	0.92	1.12	1.08	0.45	0.19	0.18	0.34	
31		0.42		0.57	2.33		1.06		0.39	0.22		0.27	
Mean	0.35	0.46	0.70	0.56	1.10	0.89	1.31	1.21	0.70	0.65	0.33	0.33	
Max	0.58	0.80	1.11	0.88	2.47	2.05	1.95	1.95	1.35	1.63	0.55	0.54	2.47
Min	0.17	0.25	0.47	0.31	0.36	0.43	0.98	0.73	0.39	0.19	0.18	0.16	0.16
Annual Max Momentary Gage Height	2.84		m. (MSL.) ,				at 01.00 Hours ,						on Aug 17, 2019
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,				River Bed -1.23		m. (MSL.)				
Left Bank Elevation		5.70		m. (MSL.) ,									
Right Bank Elevation		5.10		m. (MSL.) ,		Drainage Are	588		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.25	12.50	13.75	16.00	18.50	63.00	31.50	31.50	26.00	20.25	8.75	9.00	
2	9.25	13.75	15.50	16.75	21.00	57.40	33.00	40.20	30.00	19.00	7.50	8.00	
3	10.50	14.25	18.50	17.75	20.50	45.00	40.50	57.40	37.50	18.50	6.60	6.60	
4	12.50	14.75	19.75	18.50	21.25	37.50	55.00	59.00	32.70	26.50	6.80	6.20	
5	13.50	15.00	17.75	19.00	21.25	30.30	45.80	48.60	26.75	46.20	7.75	6.80	
6	13.50	16.00	18.50	18.75	18.00	24.75	49.40	39.90	23.00	42.30	8.50	7.75	
7	13.25	15.75	30.30	17.50	14.25	20.75	38.40	32.70	21.00	34.20	9.25	9.00	
8	13.00	14.75	29.40	15.25	11.25	18.75	31.80	35.10	20.25	28.80	11.00	10.75	
9	12.00	14.25	27.30	13.25	11.00	22.00	26.50	43.20	19.75	25.75	12.25	13.00	
10	11.00	12.75	23.75	11.25	12.75	23.50	36.30	36.90	19.00	23.25	13.75	14.75	
11	9.50	10.75	21.25	9.75	16.50	23.75	31.80	36.60	18.50	21.00	14.75	15.50	
12	8.00	9.50	19.50	10.50	18.25	21.75	31.20	32.70	18.25	18.75	15.75	15.25	
13	6.40	9.00	19.00	11.50	17.50	21.00	29.70	30.90	17.50	18.25	15.75	14.75	
14	6.40	10.25	18.00	13.75	17.00	21.25	59.00	29.10	17.25	16.00	15.00	13.00	
15	7.75	11.75	20.25	13.75	22.00	22.75	43.80	26.50	17.75	14.50	12.25	10.25	
16	9.50	16.25	22.50	14.50	64.20	27.30	41.40	25.25	20.75	13.25	9.75	7.75	
17	11.00	22.00	20.75	16.75	83.50	24.50	36.90	23.25	19.50	13.00	7.00	6.20	
18	14.25	18.25	19.50	22.50	56.20	22.50	36.30	21.50	19.75	13.75	6.80	6.20	
19	15.00	16.75	19.50	21.75	41.40	20.25	34.80	20.25	22.75	13.75	7.50	6.80	
20	16.25	15.50	18.25	21.75	32.10	18.00	35.10	25.50	18.75	14.50	7.75	7.50	
21	16.50	15.00	17.25	24.00	25.50	16.75	34.80	42.60	16.50	15.50	7.75	8.50	
22	15.25	21.00	16.50	20.75	29.70	13.50	35.10	30.60	15.50	16.25	8.50	9.75	
23	13.25	18.25	20.75	18.25	27.30	17.50	33.00	28.80	15.50	17.00	9.75	11.00	
24	11.25	15.25	21.75	17.00	21.25	12.75	32.70	25.75	15.50	16.50	10.50	12.25	
25	9.50	11.25	16.25	14.50	33.60	14.25	34.80	27.00	15.25	14.75	11.25	12.75	
26	7.25	8.75	15.50	12.50	59.00	19.25	32.70	30.00	15.50	12.50	12.00	12.50	
27	6.60	8.75	17.50	11.25	47.80	19.75	34.20	28.50	15.00	10.25	12.00	12.50	
28	6.40	8.25	15.75	12.50	43.80	20.50	33.30	31.20	15.00	8.50	11.50	12.25	
29	8.00	9.00	15.25	13.75	40.50	21.50	31.80	37.20	14.00	7.50	10.50	11.75	
30	10.50	10.50	15.75	14.75	54.60	25.00	30.60	29.40	13.25	6.80		10.50	
31		12.50		16.25	76.50		28.80		11.75	7.50		8.75	
Total	325.30	422.25	585.25	496.00	997.95	746.75	1130.00	1007.10	609.45	574.55	298.20	317.55	7510.35 CMSDAY
Mean	10.84	13.62	19.51	16.00	32.19	24.89	36.45	33.57	19.66	18.53	10.28	10.24	20.52 CMS
Max	16.50	22.00	30.30	24.00	83.50	63.00	59.00	59.00	37.50	46.20	15.75	15.50	83.50 CMS
Min	6.40	8.25	13.75	9.75	11.00	12.75	26.50	20.25	11.75	6.80	6.60	6.20	6.20 CMS
Runoff	28.11	36.48	50.57	42.85	86.22	64.52	97.63	87.01	52.66	49.64	25.76	27.44	648.89 MCM
Momentary Peak	104.40	CMS.	at 2.84 m. (MSL.)	at 01.00 Hours	, on Aug 17, 2019								
Runoff Yield	35.01	Liters/Second/Square KM.		Momentary Peak Yield	177.61	Liters/Second/Square KM.							

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

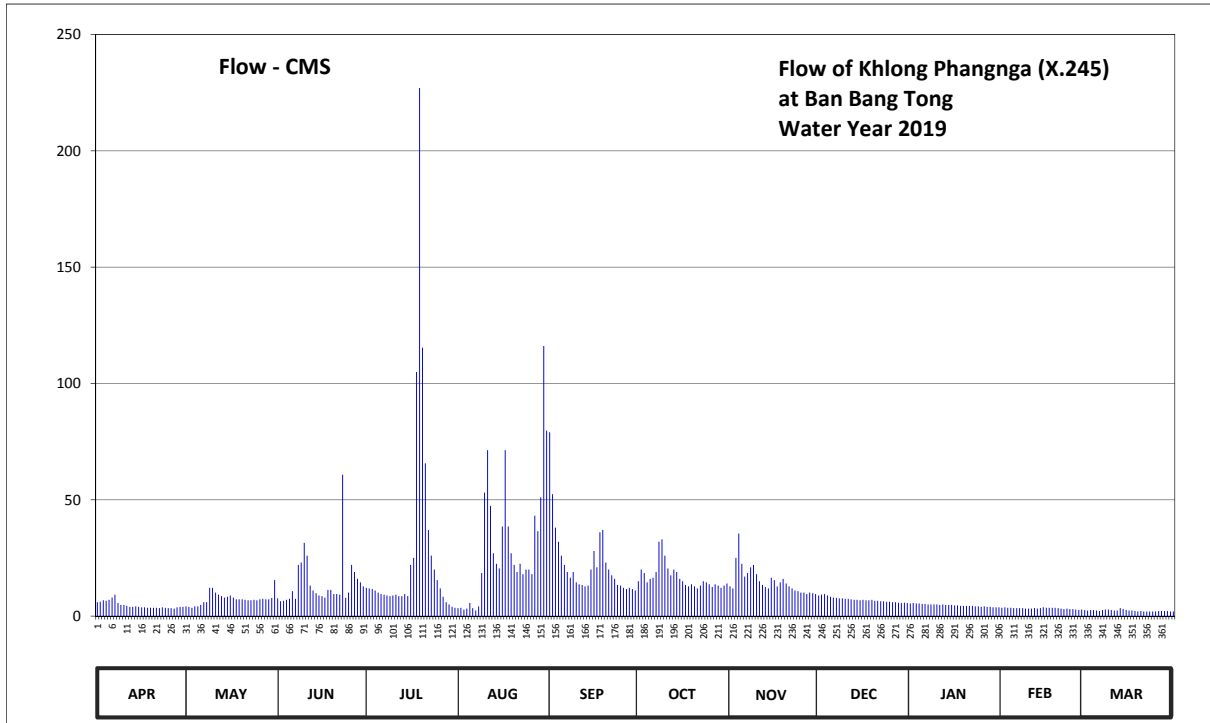
Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

	Ban Bang Tong	Amphoe Mueang	Changwat Phangnga
<b>Drainage Area</b>	242 sq.km.		
<b>Type of Gage</b>	Staff gage		
<b>Zero Gage at Bottom</b>	+0.000 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	Near the gage site.	<b>Elevation</b>	+16.857 m. (MSL.)
<b>Gage Reading Frequency</b>	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic means of 5 readings		
<b>Period of Available Gage Records</b>	2006 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2006 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2006 to date		
<b>Stability of Channel Regimes</b>	Stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2019.		

## Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020

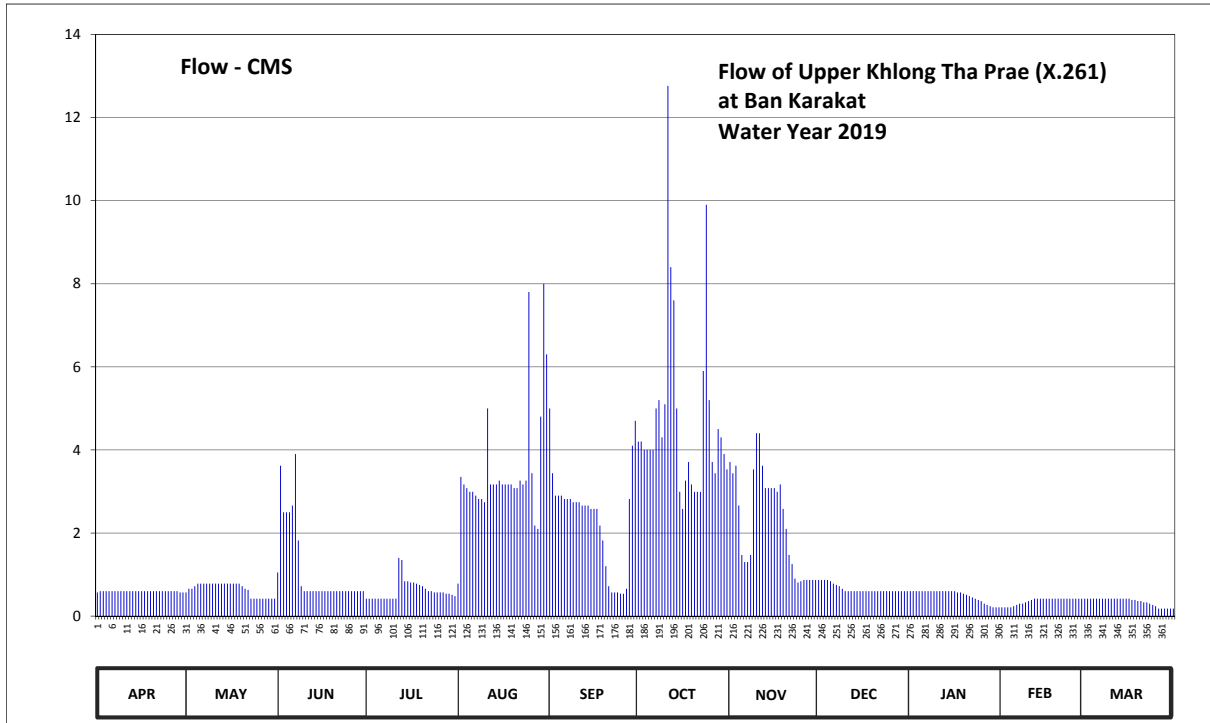
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.90	7.81	7.98	8.14	7.77	9.30	8.22	8.16	8.03	7.87	7.78	7.73	
2	7.91	7.80	7.92	8.13	7.78	8.92	8.32	8.13	8.04	7.88	7.79	7.72	
3	7.94	7.78	7.93	8.12	7.74	8.68	8.29	8.42	8.05	7.87	7.78	7.73	
4	7.93	7.81	7.95	8.10	7.76	8.56	8.21	8.63	8.03	7.87	7.78	7.73	
5	7.95	7.81	7.97	8.07	7.88	8.44	8.24	8.37	8.01	7.86	7.77	7.72	
6	8.00	7.84	8.09	8.05	7.77	8.36	8.25	8.26	8.00	7.86	7.77	7.71	
7	8.04	7.90	7.97	8.04	7.72	8.30	8.30	8.29	7.99	7.85	7.77	7.73	
8	7.88	7.90	8.36	8.03	7.81	8.25	8.56	8.34	7.98	7.85	7.77	7.74	
9	7.84	8.14	8.38	8.02	8.29	8.30	8.58	8.36	7.98	7.85	7.76	7.74	
10	7.84	8.14	8.55	8.03	8.93	8.21	8.44	8.28	7.97	7.85	7.76	7.73	
11	7.82	8.07	8.44	8.04	9.19	8.19	8.33	8.22	7.97	7.84	7.76	7.72	
12	7.80	8.04	8.17	8.02	8.84	8.18	8.27	8.18	7.96	7.85	7.77	7.72	
13	7.80	8.02	8.10	8.02	8.46	8.16	8.32	8.15	7.95	7.84	7.76	7.77	
14	7.81	8.00	8.06	8.05	8.37	8.17	8.30	8.13	7.95	7.84	7.77	7.75	
15	7.80	8.01	8.03	8.02	8.33	8.32	8.24	8.25	7.94	7.84	7.79	7.73	
16	7.79	8.03	8.02	8.36	8.69	8.48	8.22	8.23	7.95	7.83	7.78	7.72	
17	7.79	8.00	8.00	8.42	9.19	8.34	8.18	8.16	7.94	7.83	7.78	7.72	
18	7.78	7.96	8.11	9.67	8.69	8.64	8.16	8.21	7.94	7.82	7.78	7.71	
19	7.78	7.96	8.11	11.08	8.46	8.66	8.19	8.24	7.95	7.82	7.78	7.70	
20	7.78	7.96	8.05	9.82	8.36	8.38	8.16	8.20	7.93	7.82	7.77	7.71	
21	7.78	7.95	8.05	9.11	8.30	8.32	8.13	8.16	7.93	7.82	7.76	7.70	
22	7.77	7.94	8.04	8.66	8.37	8.27	8.17	8.13	7.92	7.82	7.75	7.70	
23	7.79	7.94	9.04	8.44	8.28	8.24	8.22	8.10	7.92	7.81	7.76	7.70	
24	7.78	7.95	7.99	8.32	8.32	8.18	8.21	8.09	7.91	7.81	7.75	7.70	
25	7.77	7.94	8.07	8.23	8.32	8.17	8.19	8.07	7.91	7.80	7.75	7.70	
26	7.77	7.96	8.36	8.13	8.28	8.14	8.15	8.07	7.90	7.81	7.74	7.71	
27	7.76	7.97	8.30	8.01	8.77	8.12	8.19	8.05	7.90	7.80	7.73	7.71	
28	7.79	7.96	8.24	7.90	8.65	8.14	8.17	8.07	7.89	7.80	7.74	7.71	
29	7.80	7.96	8.21	7.85	8.90	8.12	8.14	8.06	7.88	7.79	7.75	7.71	
30	7.80	7.99	8.16	7.80	9.83	8.10	8.17	8.05	7.89	7.79	7.79	7.70	
31		8.23		7.78	9.31		8.20		7.88	7.79		7.70	
Mean	7.83	7.96	8.16	8.34	8.43	8.35	8.25	8.20	7.95	7.83	7.77	7.72	
Max	8.04	8.23	9.04	11.08	9.83	9.30	8.58	8.63	8.05	7.88	7.79	7.77	11.08
Min	7.76	7.78	7.92	7.78	7.72	8.10	8.13	8.05	7.88	7.79	7.73	7.70	7.70
Annual Max Momentary Gage Height	12.26		m. (MSL.) ,			at 20.00 Hours ,	on Jul 18, 2019						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.73	m. (MSL.)					
Left Bank Elevation		15.24		m. (MSL.) ,									
Right Bank Elevation		16.31		m. (MSL.) ,		Drainage Are	242	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.00	4.20	7.60	12.20	3.40	79.00	15.00	12.80	8.90	5.40	3.60	2.60	
2	6.20	4.00	6.40	11.90	3.60	52.40	20.00	11.90	9.20	5.60	3.80	2.40	
3	6.80	3.60	6.60	11.60	2.80	38.00	18.50	25.00	9.50	5.40	3.60	2.60	
4	6.60	4.20	7.00	11.00	3.20	32.00	14.50	35.50	8.90	5.40	3.60	2.60	
5	7.00	4.20	7.40	10.10	5.60	26.00	16.00	22.50	8.30	5.20	3.40	2.40	
6	8.00	4.80	10.70	9.50	3.40	22.00	16.50	17.00	8.00	5.20	3.40	2.20	
7	9.20	6.00	7.40	9.20	2.40	19.00	19.00	18.50	7.80	5.00	3.40	2.60	
8	5.60	6.00	22.00	8.90	4.20	16.50	32.00	21.00	7.60	5.00	3.40	2.80	
9	4.80	12.20	23.00	8.60	18.50	19.00	33.00	22.00	7.60	5.00	3.20	2.80	
10	4.80	12.20	31.50	8.90	53.10	14.50	26.00	18.00	7.40	5.00	3.20	2.60	
11	4.40	10.10	26.00	9.20	71.30	13.70	20.50	15.00	7.40	4.80	3.20	2.40	
12	4.00	9.20	13.10	8.60	47.40	13.40	17.50	13.40	7.20	5.00	3.40	2.40	
13	4.00	8.60	11.00	8.60	27.00	12.80	20.00	12.50	7.00	4.80	3.20	3.40	
14	4.20	8.00	9.80	9.50	22.50	13.10	19.00	11.90	7.00	4.80	3.40	3.00	
15	4.00	8.30	8.90	8.60	20.50	20.00	16.00	16.50	6.80	4.80	3.80	2.60	
16	3.80	8.90	8.60	22.00	38.50	28.00	15.00	15.50	7.00	4.60	3.60	2.40	
17	3.80	8.00	8.00	25.00	71.30	21.00	13.40	12.80	6.80	4.60	3.60	2.40	
18	3.60	7.20	11.30	104.90	38.50	36.00	12.80	14.50	6.80	4.40	3.60	2.20	
19	3.60	7.20	11.30	227.00	27.00	37.00	13.70	16.00	7.00	4.40	3.60	2.00	
20	3.60	7.20	9.50	115.40	22.00	23.00	12.80	14.00	6.60	4.40	3.40	2.20	
21	3.60	7.00	9.50	65.70	19.00	20.00	11.90	12.80	6.60	4.40	3.20	2.00	
22	3.40	6.80	9.20	37.00	22.50	17.50	13.10	11.90	6.40	4.40	3.00	2.00	
23	3.80	6.80	60.80	26.00	18.00	16.00	15.00	11.00	6.40	4.20	3.20	2.00	
24	3.60	7.00	7.80	20.00	20.00	13.40	14.50	10.70	6.20	4.20	3.00	2.00	
25	3.40	6.80	10.10	15.50	20.00	13.10	13.70	10.10	6.20	4.00	3.00	2.00	
26	3.40	7.20	22.00	11.90	18.00	12.20	12.50	10.10	6.00	4.20	2.80	2.20	
27	3.20	7.40	19.00	8.30	43.20	11.60	13.70	9.50	6.00	4.00	2.60	2.20	
28	3.80	7.20	16.00	6.00	36.50	12.20	13.10	10.10	5.80	4.00	2.80	2.20	
29	4.00	7.20	14.50	5.00	51.00	11.60	12.20	9.80	5.60	3.80	3.00	2.20	
30	4.00	7.80	12.80	4.00	116.10	11.00	13.10	9.50	5.80	3.80		2.00	
31		15.50		3.60	79.70		14.00		5.60	3.80		2.00	
<b>Total</b>	140.20	230.80	428.80	843.70	930.20	675.00	518.00	451.80	219.40	143.60	96.00	73.40	4750.90 CMSDAY
<b>Mean</b>	4.67	7.45	14.29	27.22	30.01	22.50	16.71	15.06	7.08	4.63	3.31	2.37	12.98 CMS
<b>Max</b>	9.20	15.50	60.80	227.00	116.10	79.00	33.00	35.50	9.50	5.60	3.80	3.40	227.00 CMS
<b>Min</b>	3.20	3.60	6.40	3.60	2.40	11.00	11.90	9.50	5.60	3.80	2.60	2.00	2.00 CMS
<b>Runoff</b>	12.11	19.94	37.05	72.90	80.37	58.32	44.76	39.04	18.96	12.41	8.29	6.34	410.48 MCM
<b>Momentary Peak</b>		348.60 CMS.		at 12.26 m. (MSL.)		at 20.00 Hours		on Jul 18, 2019					
<b>Runoff Yield</b>		53.71		Liters/Second/Square KM.		Momentary Peak Yield	1438.42		Liters/Second/Square KM.				





**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.57	0.57	1.05	0.42	0.78	5.00	4.20	3.71	0.87	0.60	0.21	0.42	
2	0.60	0.66	3.62	0.42	3.35	3.44	4.20	3.44	0.87	0.60	0.21	0.42	
3	0.60	0.66	2.50	0.42	3.17	2.90	4.00	3.62	0.87	0.60	0.21	0.42	
4	0.60	0.72	2.50	0.42	3.08	2.90	4.00	2.66	0.87	0.60	0.21	0.42	
5	0.60	0.78	2.50	0.42	2.99	2.90	4.00	1.47	0.84	0.60	0.24	0.42	
6	0.60	0.78	2.66	0.42	2.99	2.82	4.00	1.30	0.78	0.60	0.27	0.42	
7	0.60	0.78	3.90	0.42	2.90	2.82	5.00	1.30	0.75	0.60	0.30	0.42	
8	0.60	0.78	1.82	0.42	2.82	2.82	5.20	1.47	0.72	0.60	0.30	0.42	
9	0.60	0.78	0.72	0.42	2.82	2.74	4.30	3.53	0.66	0.60	0.33	0.42	
10	0.60	0.78	0.60	0.42	2.74	2.74	5.10	4.40	0.60	0.60	0.36	0.42	
11	0.60	0.78	0.60	0.42	5.00	2.74	12.76	4.40	0.60	0.60	0.39	0.42	
12	0.60	0.78	0.60	1.40	3.17	2.66	8.40	3.62	0.60	0.60	0.42	0.42	
13	0.60	0.78	0.60	1.35	3.17	2.66	7.60	3.08	0.60	0.60	0.42	0.42	
14	0.60	0.78	0.60	0.84	3.17	2.66	5.00	3.08	0.60	0.60	0.42	0.42	
15	0.60	0.78	0.60	0.84	3.26	2.58	2.99	3.08	0.60	0.60	0.42	0.42	
16	0.60	0.78	0.60	0.81	3.17	2.58	2.58	3.08	0.60	0.60	0.42	0.42	
17	0.60	0.78	0.60	0.81	3.17	2.58	3.26	2.99	0.60	0.57	0.42	0.39	
18	0.60	0.78	0.60	0.78	3.17	2.18	3.71	3.17	0.60	0.57	0.42	0.39	
19	0.60	0.78	0.60	0.75	3.17	1.82	3.17	2.58	0.60	0.54	0.42	0.36	
20	0.60	0.72	0.60	0.72	3.08	1.20	2.99	2.10	0.60	0.51	0.42	0.36	
21	0.60	0.66	0.60	0.66	3.08	0.72	2.99	1.47	0.60	0.48	0.42	0.33	
22	0.60	0.63	0.60	0.60	3.26	0.57	2.99	1.25	0.60	0.45	0.42	0.33	
23	0.60	0.42	0.60	0.60	3.17	0.57	5.90	0.90	0.60	0.42	0.42	0.30	
24	0.60	0.42	0.60	0.57	3.26	0.57	9.90	0.81	0.60	0.39	0.42	0.27	
25	0.60	0.42	0.60	0.57	7.80	0.54	5.20	0.84	0.60	0.36	0.42	0.24	
26	0.60	0.42	0.60	0.57	3.44	0.54	3.71	0.87	0.60	0.30	0.42	0.18	
27	0.60	0.42	0.60	0.57	2.18	0.66	3.44	0.87	0.60	0.27	0.42	0.18	
28	0.60	0.42	0.60	0.54	2.10	2.82	4.50	0.87	0.60	0.24	0.42	0.18	
29	0.57	0.42	0.60	0.54	4.80	4.10	4.30	0.87	0.60	0.21	0.42	0.18	
30	0.57	0.42	0.60	0.51	8.00	4.70	3.90	0.87	0.60	0.21	0.42	0.18	
31		0.42		0.48	6.30		3.53		0.60	0.21		0.18	
<b>Total</b>	17.91	20.10	33.87	19.13	108.56	70.53	146.82	67.70	20.43	15.33	10.59	10.77	541.74 CMSDAY
<b>Mean</b>	0.60	0.65	1.13	0.62	3.50	2.35	4.74	2.26	0.66	0.49	0.37	0.35	1.48 CMS
<b>Max</b>	0.60	0.78	3.90	1.40	8.00	5.00	12.76	4.40	0.87	0.60	0.42	0.42	12.76 CMS
<b>Min</b>	0.57	0.42	0.60	0.42	0.78	0.54	2.58	0.81	0.60	0.21	0.21	0.18	0.18 CMS
<b>Runoff</b>	1.55	1.74	2.93	1.65	9.38	6.09	12.69	5.85	1.77	1.32	0.91	0.93	46.81 MCM
<b>Momentary Peak</b>	22.68 CMS. at 28.99 m. (MSL.) at 05.00 Hours , on Oct 11, 2019												
<b>Runoff Yield</b>	14.99 Liters/Second/Square KM.			Momentary Peak Yield 229.09 Liters/Second/Square KM.									

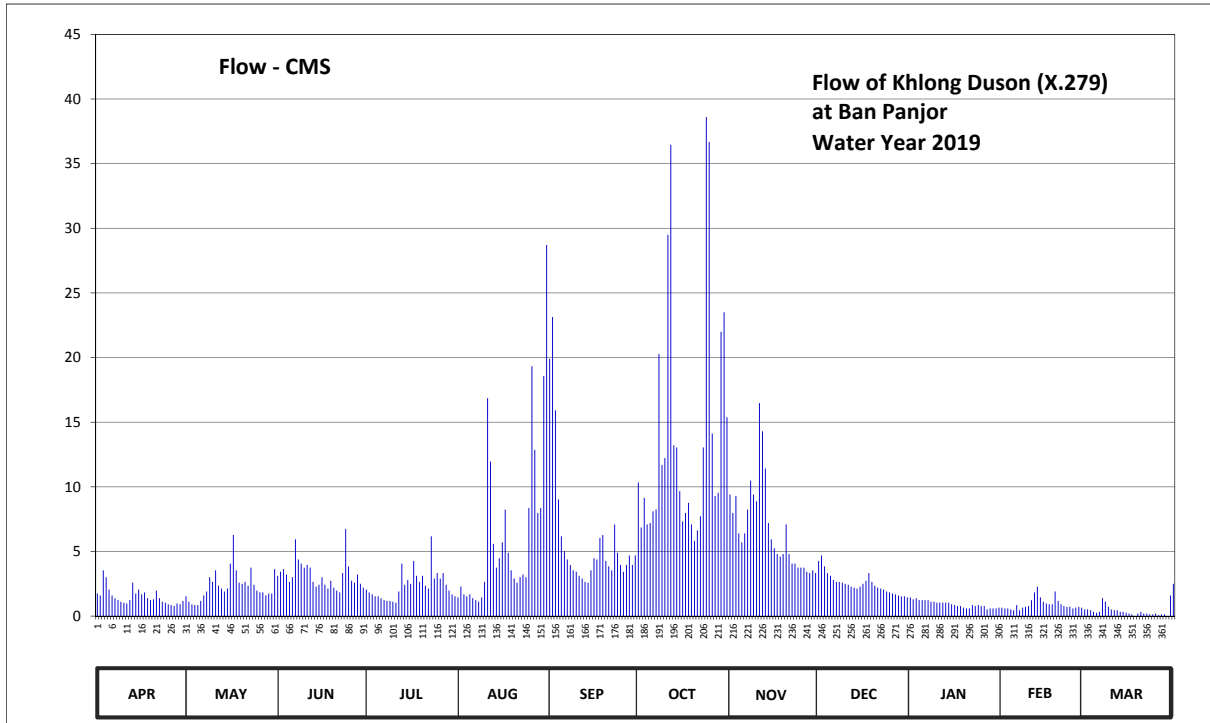
**WATER YEAR : 2019**  
**SOUTHERN PENINSULA WEST COAST**  
**Khlong Duson at Ban Panjor , Satun (X.279)**  
 Lat 06 - 46 - 39 N Long 100 - 04 - 16 E

Location : on right bank at Ban Panjor.

	<b>Ban Panjor</b>	<b>Amphoe Khuan Don</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	262 sq.km.		
<b>Type of Gage</b>	Water - stage recorder		
<b>Zero Gage at Bottom</b>	+18.423 m. (MSL.)		
<b>Bench Mark</b>	B.M.-H.D.		
<b>Location BM</b>	On right bank near the top staff gage.		<b>Elevation</b> +25.537 m. (MSL.)
<b>Gage Reading Frequency</b>	Recording		
<b>Basis of Mean Daily Gage Height</b>	Arithmetic mean of 24 readings		
<b>Period of Available Gage Records</b>	2011 to date		
<b>Rating Operation</b>			
<b>Period of Rating</b>	2011 to date		
<b>Rated by Flot</b>	-		
<b>Rated by Current Meter</b>	2011 to date		
<b>Stability of Channel Regimes</b>	Fairly stable.		
<b>Overbank Flow Conditions</b>	No overbank flow.		
<b>General Description</b>	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2019.		

**Gage Height in Meter (MSL.) Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.26	19.23	19.43	19.30	19.22	20.60	20.04	19.97	19.54	19.22	19.10	19.08	
2	19.24	19.17	19.46	19.27	19.33	20.77	19.77	19.86	19.58	19.20	19.09	19.08	
3	19.47	19.14	19.48	19.25	19.25	20.39	19.95	19.96	19.50	19.21	19.09	19.07	
4	19.42	19.13	19.44	19.23	19.23	19.94	19.79	19.73	19.45	19.19	19.08	19.05	
5	19.30	19.13	19.38	19.23	19.25	19.71	19.80	19.67	19.43	19.19	19.07	19.04	
6	19.24	19.18	19.42	19.21	19.21	19.61	19.87	19.73	19.40	19.19	19.13	19.05	
7	19.21	19.24	19.69	19.19	19.19	19.55	19.88	19.88	19.38	19.19	19.07	19.21	
8	19.19	19.28	19.55	19.18	19.17	19.51	20.62	20.05	19.38	19.17	19.10	19.17	
9	19.17	19.42	19.52	19.18	19.22	19.47	20.14	19.97	19.37	19.17	19.11	19.11	
10	19.16	19.38	19.49	19.17	19.38	19.46	20.18	19.93	19.36	19.16	19.12	19.08	
11	19.15	19.47	19.51	19.16	20.44	19.43	21.10	20.42	19.35	19.16	19.19	19.07	
12	19.19	19.34	19.49	19.28	20.16	19.41	21.44	20.30	19.33	19.16	19.27	19.07	
13	19.37	19.31	19.38	19.52	19.66	19.38	20.24	20.12	19.32	19.16	19.33	19.05	
14	19.26	19.28	19.33	19.35	19.49	19.37	20.23	19.80	19.31	19.16	19.22	19.05	
15	19.30	19.31	19.35	19.40	19.56	19.47	19.99	19.69	19.33	19.14	19.17	19.04	
16	19.25	19.52	19.42	19.36	19.67	19.56	19.81	19.63	19.36	19.13	19.15	19.03	
17	19.27	19.72	19.35	19.54	19.88	19.55	19.86	19.59	19.39	19.12	19.14	19.02	
18	19.21	19.47	19.31	19.43	19.60	19.70	19.92	19.57	19.45	19.12	19.14	19.00	
19	19.19	19.37	19.39	19.38	19.47	19.72	19.79	19.59	19.38	19.10	19.28	19.03	
20	19.20	19.36	19.32	19.43	19.41	19.54	19.68	19.79	19.34	19.09	19.18	19.05	
21	19.29	19.38	19.29	19.34	19.37	19.50	19.75	19.59	19.32	19.09	19.14	19.03	
22	19.21	19.34	19.27	19.31	19.42	19.47	19.84	19.52	19.31	19.13	19.12	19.03	
23	19.17	19.49	19.45	19.71	19.44	19.79	20.23	19.52	19.30	19.12	19.11	19.02	
24	19.16	19.35	19.76	19.41	19.42	19.60	21.54	19.49	19.28	19.13	19.11	19.02	
25	19.14	19.29	19.50	19.45	19.89	19.51	21.45	19.49	19.27	19.12	19.09	19.03	
26	19.13	19.27	19.39	19.41	20.57	19.46	20.29	19.49	19.26	19.12	19.10	19.01	
27	19.12	19.27	19.37	19.45	20.22	19.51	19.96	19.46	19.25	19.08	19.11	19.02	
28	19.15	19.24	19.44	19.35	19.86	19.58	19.98	19.45	19.24	19.09	19.10	19.02	
29	19.14	19.26	19.36	19.29	19.89	19.51	20.71	19.47	19.23	19.09	19.08	19.00	
30	19.18	19.26	19.32	19.25	20.53	19.58	20.79	19.45	19.23	19.09	19.09	19.24	
31		19.48		19.23	21.06		20.36		19.22	19.10		19.36	
Mean	19.22	19.33	19.43	19.33	19.66	19.66	20.23	19.74	19.35	19.14	19.14	19.07	
Max	19.47	19.72	19.76	19.71	21.06	20.77	21.54	20.42	19.58	19.22	19.33	19.36	21.54
Min	19.12	19.13	19.27	19.16	19.17	19.37	19.68	19.45	19.22	19.08	19.07	19.00	19.00
Annual Max Momentary Gage Height	22.66		m. (MSL.) ,				at 05.00 Hours , on Oct 12, 2019						
Zero Gage at Bottom Elevation	18.42		m. (MSL.) ,			River Bed	18.16	m. (MSL.)					
Left Bank Elevation		24.10		m. (MSL.) ,									
Right Bank Elevation		23.96		m. (MSL.) ,		Drainage Are	262	Square Kilometers					



**Discharge in Cubic Meter per Second , Water Year April 1, 2019 to March 31, 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.75	1.53	3.12	2.05	1.45	19.90	10.34	9.41	4.27	1.45	0.65	0.52	
2	1.60	1.11	3.43	1.83	2.28	23.13	6.86	7.98	4.69	1.30	0.59	0.52	
3	3.54	0.91	3.64	1.68	1.68	15.92	9.15	9.28	3.85	1.38	0.59	0.46	
4	3.01	0.85	3.22	1.53	1.53	9.02	7.09	6.40	3.33	1.24	0.52	0.33	
5	2.05	0.85	2.65	1.53	1.68	6.17	7.20	5.71	3.12	1.24	0.46	0.26	
6	1.60	1.17	3.01	1.38	1.38	5.02	8.11	6.40	2.80	1.24	0.85	0.33	
7	1.38	1.60	5.94	1.24	1.24	4.38	8.24	8.24	2.65	1.24	0.46	1.38	
8	1.24	1.90	4.38	1.17	1.11	3.96	20.28	10.48	2.65	1.11	0.65	1.11	
9	1.11	3.01	4.06	1.17	1.45	3.54	11.69	9.41	2.58	1.11	0.72	0.72	
10	1.04	2.65	3.75	1.11	2.65	3.43	12.23	8.89	2.50	1.04	0.78	0.52	
11	0.98	3.54	3.96	1.04	16.86	3.12	29.50	16.48	2.43	1.04	1.24	0.46	
12	1.24	2.35	3.75	1.90	11.96	2.91	36.46	14.30	2.28	1.04	1.83	0.46	
13	2.58	2.13	2.65	4.06	5.59	2.65	13.22	11.42	2.20	1.04	2.28	0.33	
14	1.75	1.90	2.28	2.43	3.75	2.58	13.04	7.20	2.13	1.04	1.45	0.33	
15	2.05	2.13	2.43	2.80	4.48	3.54	9.67	5.94	2.28	0.91	1.11	0.26	
16	1.68	4.06	3.01	2.50	5.71	4.48	7.33	5.25	2.50	0.85	0.98	0.20	
17	1.83	6.28	2.43	4.27	8.24	4.38	7.98	4.80	2.73	0.78	0.91	0.13	
18	1.38	3.54	2.13	3.12	4.90	6.05	8.76	4.59	3.33	0.78	0.91	0.00	
19	1.24	2.58	2.73	2.65	3.54	6.28	7.09	4.80	2.65	0.65	1.90	0.20	
20	1.30	2.50	2.20	3.12	2.91	4.27	5.82	7.09	2.35	0.59	1.17	0.33	
21	1.98	2.65	1.98	2.35	2.58	3.85	6.63	4.80	2.20	0.59	0.91	0.20	
22	1.38	2.35	1.83	2.13	3.01	3.54	7.72	4.06	2.13	0.85	0.78	0.20	
23	1.11	3.75	3.33	6.17	3.22	7.09	13.04	4.06	2.05	0.78	0.72	0.13	
24	1.04	2.43	6.74	2.91	3.01	4.90	38.61	3.75	1.90	0.85	0.72	0.13	
25	0.91	1.98	3.85	3.33	8.37	3.96	36.68	3.75	1.83	0.78	0.59	0.20	
26	0.85	1.83	2.73	2.91	19.33	3.43	14.12	3.75	1.75	0.78	0.65	0.07	
27	0.78	1.83	2.58	3.33	12.86	3.96	9.28	3.43	1.68	0.52	0.72	0.13	
28	0.98	1.60	3.22	2.43	7.98	4.69	9.54	3.33	1.60	0.59	0.65	0.13	
29	0.91	1.75	2.50	1.98	8.37	3.96	21.99	3.54	1.53	0.59	0.52	0.00	
30	1.17	1.75	2.20	1.68	18.57	4.69	23.51	3.33	1.53	0.59		1.60	
31		3.64		1.53	28.70		15.38		1.45	0.65		2.50	
<b>Total</b>	45.46	72.15	95.73	73.33	200.39	178.80	436.56	201.87	76.97	28.64	26.31	14.14	1450.35 CMSDAY
<b>Mean</b>	1.52	2.33	3.19	2.37	6.46	5.96	14.08	6.73	2.48	0.92	0.91	0.46	3.96 CMS
<b>Max</b>	3.54	6.28	6.74	6.17	28.70	23.13	38.61	16.48	4.69	1.45	2.28	2.50	38.61 CMS
<b>Min</b>	0.78	0.85	1.83	1.04	1.11	2.58	5.82	3.33	1.45	0.52	0.46	0.00	0.00 CMS
<b>Runoff</b>	3.93	6.23	8.27	6.34	17.31	15.45	37.72	17.44	6.65	2.47	2.27	1.22	125.31 MCM
<b>Momentary Peak</b>	65.36 CMS. at 22.66 m. (MSL.) at 05.00 Hours , on Oct 12, 2019												
<b>Runoff Yield</b>	15.17 Liters/Second/Square KM.			Momentary Peak Yield			249.47 Liters/Second/Square KM.						





# Suspended Sediment Station

## Water Year 2019

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	1,309 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	1999-2019		
<b>Number of observation</b>	299		
<b>R-Square</b>	0.8466		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.8447 QW^{1.18350}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	19.83	3.39	409.62	5.73	3.84	2.10	0.00	0.00	0.00	
2	0.00	0.00	0.00	15.80	3.84	445.23	5.73	3.84	0.25	0.00	0.00	0.00	
3	0.00	0.00	0.00	15.80	5.73	501.56	4.77	3.84	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	15.80	6.71	612.85	4.30	3.84	0.00	0.00	0.00	0.00	
5	0.00	0.00	70.64	15.80	6.21	727.37	4.77	3.84	0.00	0.00	0.00	0.00	
6	0.00	0.00	77.12	12.46	3.84	836.07	5.24	3.84	0.00	0.00	0.00	0.00	
7	0.00	0.00	27.06	12.46	3.84	774.90	4.77	3.84	0.00	0.00	0.00	0.00	
8	0.00	0.00	18.09	11.37	2.95	663.41	3.84	4.30	0.00	0.00	0.00	0.00	
9	0.00	0.00	11.91	8.73	3.84	546.50	3.39	4.30	0.00	0.00	0.00	0.00	
10	0.00	0.00	10.30	6.21	4.30	405.68	2.95	4.30	0.00	0.00	0.00	0.00	
11	0.00	0.00	7.20	5.24	7.71	358.99	2.95	4.30	0.00	0.00	0.00	0.00	
12	0.00	0.00	3.84	5.24	97.04	374.48	2.52	4.30	0.00	0.00	0.00	0.00	
13	0.00	0.00	2.52	4.77	401.75	339.76	2.52	4.30	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.84	4.30	382.18	298.24	2.10	4.30	0.00	0.00	0.00	0.00	
15	0.00	0.00	3.84	3.39	305.67	264.78	2.10	4.30	0.00	0.00	0.00	0.00	
16	0.00	0.00	4.30	2.52	160.45	196.49	1.69	4.77	0.00	0.00	0.00	0.00	
17	0.00	0.00	41.73	1.69	131.66	115.30	1.69	4.77	0.00	0.00	0.00	0.00	
18	0.00	0.00	429.30	0.92	112.99	41.73	1.30	4.77	0.00	0.00	0.00	0.00	
19	0.00	0.00	629.66	0.25	94.79	18.67	1.69	4.77	0.00	0.00	0.00	0.00	
20	0.00	0.00	469.19	0.00	81.48	15.80	1.69	4.77	0.00	0.00	0.00	0.00	
21	0.00	0.00	224.84	0.00	77.12	19.25	2.10	4.77	0.00	0.00	0.00	0.00	
22	0.00	0.00	88.10	0.00	72.79	16.36	2.10	4.77	0.00	0.00	0.00	0.00	
23	0.00	0.00	35.88	0.00	68.50	14.11	2.10	4.77	0.00	0.00	0.00	0.00	
24	0.00	0.00	19.25	0.00	64.26	14.67	2.10	4.30	0.00	0.00	0.00	0.00	
25	0.00	0.00	33.95	0.00	90.32	11.37	2.10	4.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	88.10	0.00	196.49	8.73	2.52	4.30	0.00	0.00	0.00	0.00	
27	0.00	0.00	88.10	0.00	339.76	8.73	2.95	4.30	0.00	0.00	0.00	0.00	
28	0.00	0.00	68.50	0.25	433.28	8.22	3.39	3.84	0.00	0.00	0.00	0.00	
29	0.00	0.00	41.73	0.92	441.24	6.21	3.39	3.84	0.00	0.00	0.00	0.00	
30	0.00	0.00	21.01	1.69	328.39	5.73	3.84	3.39	0.00	0.00		0.00	
31		0.00		2.10	328.39		3.84		0.00	0.00		0.00	
Total	0.00	0.00	2520.00	167.54	4260.91	8060.81	96.17	127.71	2.35	0.00	0.00	0.00	15235.49 Tonday
Mean	0.00	0.00	84.00	5.40	137.45	268.69	3.10	4.26	0.08	0.00	0.00	0.00	41.63 Ton/day
Max	0.00	0.00	629.66	19.83	441.24	836.07	5.73	4.77	2.10	0.00	0.00	0.00	836.07 Ton/day
Min	0.00	0.00	0.00	0.00	2.95	5.73	1.30	3.39	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Na Lak</b>	<b>Amphoe Wang Saphung</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	1,271 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	18		
<b>R-Square</b>	0.8112		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.8848 QW^{1.12520}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	42.83	36.46	68.16	38.57	30.21	1908.25	3.61	92.27	59.21	39.63	61.43	42.83		
2	42.83	37.52	65.91	39.63	32.28	1262.13	2.81	85.30	58.10	40.70	59.21	42.83		
3	48.22	36.46	70.42	39.63	38.57	1781.27	2.81	79.54	58.10	39.63	55.89	46.06		
4	47.14	36.46	68.16	52.59	38.57	1878.86	59.21	77.25	58.10	39.63	56.99	48.22		
5	46.06	36.46	92.27	59.21	39.63	607.30	59.21	77.25	55.89	38.57	55.89	51.49		
6	47.14	38.57	121.90	43.91	39.63	444.57	68.16	79.54	53.68	38.57	54.78	55.89		
7	51.49	39.63	92.27	52.59	42.83	396.24	63.67	74.96	52.59	38.57	54.78	49.31		
8	47.14	37.52	70.42	47.14	38.57	341.81	59.21	77.25	52.59	38.57	53.68	53.68		
9	44.98	38.57	63.67	47.14	40.70	308.26	55.89	74.96	52.59	37.52	53.68	47.14		
10	44.98	37.52	59.21	44.98	47.14	211.47	58.10	72.69	51.49	37.52	53.68	46.06		
11	44.98	36.46	56.99	43.91	68.16	52.59	92.27	70.42	50.40	37.52	52.59	44.98		
12	44.98	36.46	59.21	40.70	55.89	237.22	61.43	70.42	46.06	37.52	51.49	43.91		
13	43.91	39.63	56.99	36.46	63.67	171.00	106.38	68.16	44.98	36.46	52.59	43.91		
14	43.91	39.63	55.89	28.16	74.96	55.89	63.67	68.16	43.91	36.46	51.49	43.91		
15	42.83	42.83	55.89	26.13	74.96	48.22	72.69	70.42	43.91	36.46	50.40	43.91		
16	41.76	43.91	53.68	26.13	81.84	44.98	70.42	79.54	43.91	37.52	50.40	43.91		
17	43.91	42.83	48.22	28.16	95.77	42.83	85.30	77.25	42.83	37.52	49.31	42.83		
18	41.76	42.83	48.22	25.11	430.70	41.76	72.69	70.42	42.83	41.76	49.31	41.76		
19	41.76	42.83	41.76	24.11	708.90	39.63	65.91	68.16	42.83	95.77	48.22	41.76		
20	41.76	42.83	38.57	22.11	368.91	32.28	61.43	68.16	43.91	70.42	48.22	40.70		
21	40.70	56.99	36.46	25.11	268.54	51.49	58.10	68.16	47.14	77.25	48.22	39.63		
22	39.63	46.06	34.37	20.13	247.61	40.70	56.99	68.16	42.83	74.96	47.14	39.63		
23	39.63	42.83	34.37	25.11	288.32	32.28	56.99	65.91	42.83	72.69	47.14	42.83		
24	39.63	50.40	34.37	24.11	275.12	28.16	58.10	65.91	41.76	72.69	46.06	42.83		
25	39.63	52.59	33.32	27.14	954.61	25.11	56.99	63.67	41.76	74.96	46.06	42.83		
26	38.57	51.49	33.32	28.16	1356.15	20.13	56.99	63.67	41.76	70.42	44.98	43.91		
27	39.63	55.89	33.32	30.21	1466.75	11.51	55.89	63.67	41.76	70.42	43.91	42.83		
28	38.57	68.16	33.32	33.32	1099.49	8.78	55.89	61.43	41.76	70.42	43.91	41.76		
29	37.52	63.67	34.37	34.37	578.61	11.51	55.89	61.43	41.76	63.67	43.91	40.70		
30	38.57	70.42	36.46	31.25	557.19	4.44	61.43	61.43	40.70	63.67		39.63		
31		70.42		33.32	1130.28		109.94		40.70	61.43		39.63		
Total	1286.45	1414.33	1631.49	1078.60	10634.56	10140.67	1868.07	2145.56	1462.67	1628.90	1475.36	1371.30	36137.96	Ton/day
Mean	42.88	45.62	54.38	34.79	343.05	338.02	60.26	71.52	47.18	52.55	50.87	44.24	98.74	Ton/day
Max	51.49	70.42	121.90	59.21	1466.75	1908.25	109.94	92.27	59.21	95.77	61.43	55.89	1908.25	Ton/day
Min	37.52	36.46	33.32	20.13	30.21	4.44	2.81	61.43	40.70	36.46	43.91	39.63	2.81	Ton/day

**WATER YEAR : 2019****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.**

	<b>Ban</b>	<b>Fak Loei</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Loei</b>
<b>Drainage Area</b>	3,093	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	25					
<b>R-Square</b>	0.7653					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.8678 QW^{1.17760}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	1.21	19.08	8.84	5.92	1249.97	0.97	0.64	0.78	5.10	3.48	2.70	
2	0.15	0.92	16.42	9.64	4.80	1120.97	0.78	0.78	0.78	4.80	4.80	3.48	
3	0.51	0.78	18.19	8.04	4.26	1231.42	0.38	0.92	0.92	5.10	5.66	4.26	
4	0.92	1.06	19.08	8.84	6.49	1844.10	0.31	0.97	1.06	4.55	2.47	7.65	
5	1.12	1.51	32.22	40.13	6.49	657.41	0.00	1.06	0.97	4.55	1.98	8.84	
6	0.97	2.21	75.08	20.89	8.04	328.95	0.92	1.12	0.64	4.01	2.21	5.92	
7	0.97	2.47	103.42	11.28	8.84	304.92	0.92	1.12	0.31	3.21	2.21	5.10	
8	1.27	2.70	29.32	15.54	8.04	220.87	1.12	1.06	0.19	2.47	1.98	4.26	
9	0.92	1.98	42.15	10.05	5.36	182.40	1.27	1.21	0.05	3.48	1.73	6.49	
10	0.83	2.21	26.46	11.28	10.87	66.86	1.51	1.27	0.00	2.70	1.51	2.47	
11	0.64	1.98	18.19	10.05	25.05	16.42	2.47	1.51	0.00	1.51	1.98	5.66	
12	0.43	1.51	16.42	8.84	197.65	46.23	4.26	1.51	2.47	1.98	1.73	2.47	
13	0.31	0.97	18.19	7.26	174.84	83.44	4.26	1.73	0.38	1.51	1.51	2.21	
14	0.97	0.97	18.19	5.66	115.11	23.65	7.26	2.21	0.00	1.51	2.21	3.21	
15	0.83	2.47	17.30	2.97	23.65	13.81	3.21	1.73	0.00	3.48	1.98	4.01	
16	1.06	4.26	17.30	1.12	21.81	16.42	2.47	1.51	0.00	4.80	2.47	3.73	
17	1.12	5.10	16.42	1.12	23.65	13.81	3.48	1.51	0.00	4.55	2.97	3.48	
18	1.27	4.55	13.81	2.97	86.25	11.70	3.21	1.27	0.19	5.36	2.47	3.21	
19	1.12	4.26	11.28	1.73	348.37	8.44	2.47	1.12	0.64	3.73	3.21	3.21	
20	1.98	2.97	14.67	0.64	174.84	8.84	1.21	1.06	1.21	2.97	2.47	2.70	
21	1.73	4.01	11.28	1.73	100.52	30.76	1.06	1.06	2.21	2.97	2.97	2.70	
22	1.27	7.26	8.84	2.21	103.42	22.73	0.83	1.06	3.48	3.21	3.21	3.21	
23	1.12	6.49	6.87	2.70	94.77	10.46	0.78	1.27	4.55	3.73	2.47	3.21	
24	1.06	5.36	6.49	2.47	152.47	6.22	0.92	1.06	3.73	3.48	3.73	3.73	
25	1.06	8.84	8.84	2.47	234.59	5.10	0.92	1.12	2.97	4.01	3.73	4.55	
26	0.51	7.65	7.65	3.73	626.86	2.70	0.92	1.21	3.73	4.26	3.21	5.36	
27	1.51	9.64	8.44	3.21	645.17	1.51	0.97	1.12	2.21	2.70	2.47	5.66	
28	1.98	9.24	7.26	4.26	712.94	0.64	1.12	0.97	1.73	2.21	2.97	6.49	
29	2.47	14.24	6.87	4.55	314.50	0.92	0.92	0.83	2.47	3.73	2.97	6.22	
30	1.27	18.19	6.87	4.26	248.43	1.21	0.78	0.83	3.73	5.10		4.80	
31		19.08		6.49	530.64		0.56		5.36	4.01		6.49	
Total	31.75	156.09	622.60	224.97	5024.64	7532.88	52.26	35.84	46.76	110.78	78.76	137.48	14054.81 Tonday
Mean	1.06	5.04	20.75	7.26	162.09	251.10	1.69	1.19	1.51	3.57	2.72	4.43	38.40 Ton/day
Max	2.47	19.08	103.42	40.13	712.94	1844.10	7.26	2.21	5.36	5.36	5.66	8.84	1844.10 Ton/day
Min	0.15	0.78	6.49	0.64	4.26	0.64	0.00	0.64	0.00	1.51	1.51	2.21	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Keng Bong</b>	<b>Amphoe Phu Luang</b>	<b>Changwat Loei</b>
<b>Drainage Area</b>	549 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	1998-2019		
<b>Number of observation</b>	366		
<b>R-Square</b>	0.7369		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.4372 QW^{1.34030}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.18	6.87	19.66	11.08	10.11	3310.63	9.62	10.11	6.87	3.25	0.74	2.21	
2	8.68	6.87	19.09	10.11	9.15	1548.85	9.62	9.62	6.87	3.25	0.74	2.21	
3	7.31	6.87	19.66	10.11	9.62	3539.92	9.62	9.62	7.31	3.25	0.51	2.21	
4	6.44	6.87	19.66	11.08	11.08	1425.18	7.76	9.62	7.31	3.25	0.29	2.54	
5	6.44	7.31	19.66	13.11	9.62	501.99	15.22	9.62	7.76	3.25	1.00	5.59	
6	6.87	6.87	19.66	24.98	13.63	440.41	13.63	9.62	8.22	3.25	4.77	6.44	
7	7.31	6.87	19.09	19.09	23.17	491.58	12.09	9.62	8.22	3.25	3.61	5.59	
8	6.87	6.87	19.09	19.09	12.59	410.41	9.62	9.15	7.31	3.25	2.89	3.25	
9	6.87	6.87	19.66	19.09	14.68	269.04	9.15	9.62	6.87	2.89	2.21	3.25	
10	6.87	6.87	19.66	18.52	15.22	42.66	9.62	9.62	6.01	2.89	2.21	3.25	
11	6.87	6.87	23.77	19.09	14.68	67.12	9.15	10.11	6.01	2.89	1.89	2.89	
12	6.87	6.87	23.17	16.85	22.57	181.95	9.15	9.62	4.38	2.89	2.21	2.89	
13	6.87	6.87	21.98	9.15	28.07	73.46	9.62	9.15	6.01	2.89	3.25	3.25	
14	6.87	7.31	21.98	8.68	26.82	44.76	9.15	9.15	5.18	2.89	2.89	2.89	
15	7.31	8.22	21.39	8.68	40.58	41.96	10.59	9.62	5.18	2.89	1.89	3.25	
16	7.31	7.76	15.22	8.22	40.58	42.66	10.11	9.62	5.18	3.25	1.28	2.89	
17	6.87	7.76	7.31	8.22	51.23	38.53	9.15	9.15	4.77	2.54	1.28	3.25	
18	7.31	8.68	10.11	8.22	970.74	38.53	9.15	9.15	4.38	2.54	1.00	3.25	
19	7.31	8.68	10.11	9.62	544.14	28.69	9.62	9.15	3.61	1.89	1.00	3.25	
20	7.31	8.68	9.62	9.15	225.48	15.76	9.62	9.15	4.77	1.58	0.51	4.38	
21	6.87	8.22	8.68	9.62	108.01	19.66	9.62	9.62	4.38	1.00	2.89	28.69	
22	6.87	9.62	8.68	9.62	122.37	18.52	9.62	9.62	4.38	1.00	1.89	18.52	
23	6.87	14.68	9.15	9.62	99.28	19.66	9.15	9.62	4.38	0.74	1.89	3.99	
24	6.87	12.09	9.15	10.11	251.38	18.52	9.15	9.62	4.38	1.00	1.89	4.77	
25	6.87	12.59	10.11	10.11	1832.71	15.22	8.68	9.62	4.38	0.51	1.89	4.77	
26	6.87	14.68	10.59	10.11	1290.89	10.59	9.62	10.11	3.99	0.29	1.89	4.38	
27	6.87	20.81	11.58	9.62	2023.52	10.59	9.62	9.15	3.99	0.00	1.58	3.99	
28	6.87	18.52	10.11	9.62	390.71	10.59	9.62	9.15	3.99	0.00	1.89	4.38	
29	6.87	21.39	8.68	9.62	333.13	8.68	9.62	7.31	4.38	2.54	1.89	4.38	
30	6.87	20.81	9.15	9.62	778.69	11.08	9.62	6.44	4.38	1.89		4.38	
31		19.66		9.62	1548.85		10.59		3.99	1.28		4.38	
Total	208.44	319.91	455.43	369.43	10873.30	12697.20	306.17	280.35	168.84	68.28	53.87	155.36	25956.58 Tonday
Mean	6.95	10.32	15.18	11.92	350.75	423.24	9.88	9.35	5.45	2.20	1.86	5.01	70.92 Ton/day
Max	8.68	21.39	23.77	24.98	2023.52	3539.92	15.22	10.11	8.22	3.25	4.77	28.69	3539.92 Ton/day
Min	5.18	6.87	7.31	8.22	9.15	8.68	7.76	6.44	3.61	0.00	0.29	2.21	0.00 Ton/day

## WATER YEAR : 2019

## 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
Drainage Area	667	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	2019		
Number of observation	27		
R-Square	0.9360		
Remarks	Continued Sediment Station		

$$QS = 2.1090 QW^{2.01300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.43	4.52	104.17	5.43	21.93	668.83	1.71	1.98	1.03	1.52	0.89	0.52	
2	6.73	4.52	40.49	6.73	13.34	391.69	1.71	1.98	1.03	1.35	0.89	0.52	
3	5.43	4.09	26.26	7.44	7.44	133.49	1.98	1.71	1.03	1.35	0.75	0.42	
4	5.43	4.09	23.33	6.73	40.49	42.77	4.09	1.71	0.89	1.18	0.75	0.52	
5	5.43	4.52	21.93	9.75	415.58	21.93	4.96	1.71	0.89	1.18	0.89	0.42	
6	5.43	4.52	20.57	11.48	223.03	16.76	2.60	2.28	1.03	1.18	0.75	0.33	
7	5.43	4.52	19.25	9.75	73.09	12.39	2.94	4.09	1.03	1.35	0.75	0.42	
8	5.43	4.52	19.25	8.95	23.33	8.95	3.30	5.43	1.03	1.52	0.75	0.42	
9	5.43	4.52	17.98	7.44	14.44	5.43	3.30	4.52	0.89	1.52	0.75	0.33	
10	5.43	4.52	12.39	7.44	23.33	10.60	2.94	3.30	0.89	1.35	0.75	0.33	
11	5.43	4.96	8.95	7.44	95.88	50.43	3.69	2.60	0.89	1.35	0.63	0.33	
12	5.43	4.96	9.75	7.44	1319.68	66.19	3.69	3.30	1.18	1.18	0.75	0.42	
13	5.43	5.43	10.60	6.73	3549.08	38.27	4.09	2.28	0.75	1.35	0.89	0.52	
14	5.43	5.43	8.95	5.43	380.01	21.93	4.52	1.71	0.75	1.35	0.63	0.42	
15	5.43	6.73	7.44	5.43	91.87	12.39	5.43	1.71	1.18	1.35	0.75	0.52	
16	5.43	6.73	4.09	5.43	59.62	6.73	3.69	1.98	1.18	1.52	0.63	0.63	
17	5.43	6.06	4.52	5.43	117.25	4.09	3.30	1.71	1.18	1.35	0.63	0.52	
18	5.43	5.43	4.09	5.43	158.53	4.52	3.69	1.71	1.18	1.35	0.63	0.52	
19	5.43	5.43	4.96	5.43	45.12	4.96	3.30	1.52	1.18	1.35	0.63	0.52	
20	5.43	4.52	4.09	5.43	28.10	5.43	3.30	1.52	1.18	1.35	0.63	0.52	
21	5.43	3.30	3.69	5.43	87.94	4.52	2.94	1.52	1.03	1.35	0.63	0.63	
22	5.43	3.69	3.30	6.73	80.34	4.09	2.94	1.35	1.03	1.52	0.63	0.63	
23	5.43	4.52	3.30	8.95	158.53	3.30	2.28	1.35	1.03	1.52	0.63	0.42	
24	5.43	3.69	5.43	8.17	76.67	2.60	2.60	1.35	1.03	1.35	0.52	0.33	
25	5.43	3.69	19.25	6.73	42.77	2.60	4.09	1.35	1.03	1.03	0.52	0.33	
26	5.43	4.52	17.98	20.57	26.26	2.60	3.30	1.35	1.18	1.03	0.52	0.33	
27	4.52	3.69	11.48	80.34	30.01	2.28	3.30	1.35	1.18	1.03	0.52	0.33	
28	4.52	3.69	7.44	38.27	50.43	2.28	2.60	1.35	1.18	1.35	0.52	0.33	
29	4.52	3.69	5.43	9.75	53.41	2.60	2.28	1.35	1.35	1.18	0.52	0.33	
30	4.52	223.03	5.43	5.43	19.25	2.94	1.71	1.03	1.71	0.89		0.33	
31		1038.44		8.17	59.62		1.71		1.71	0.89		0.33	
Total	160.56	1395.97	455.79	339.30	7386.37	1557.59	97.98	62.10	33.85	40.14	19.73	13.47	11562.85 Today
Mean	5.35	45.03	15.19	10.95	238.27	51.92	3.16	2.07	1.09	1.29	0.68	0.43	31.59 Ton/day
Max	6.73	1038.44	104.17	80.34	3549.08	668.83	5.43	5.43	1.71	1.52	0.89	0.63	3549.08 Ton/day
Min	4.52	3.30	3.30	5.43	7.44	2.28	1.71	1.03	0.75	0.89	0.52	0.33	0.33 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Tha Huai Lua</b>	<b>Amphoe</b>	<b>Ban Muang</b>	<b>Changwat</b>	<b>Sakon Nakhon</b>
<b>Drainage Area</b>	2,199	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2012-2019					
<b>Number of observation</b>	206					
<b>R-Square</b>	0.5118					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.0509 QW^{1.15250}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	43.08	40.33	1059.93	49.58	19.38	6.89	0.00	0.00	0.00	
2	0.00	0.00	0.00	47.71	41.25	1031.88	45.85	19.38	6.89	0.00	0.00	0.00	
3	0.00	0.00	0.00	53.34	38.52	1004.47	43.08	18.55	6.17	0.00	0.00	0.00	
4	0.00	0.00	0.00	60.98	40.33	972.36	43.08	18.55	5.46	0.00	0.00	0.00	
5	0.00	0.00	0.00	66.79	38.52	959.55	42.16	18.55	4.77	0.00	0.00	0.00	
6	0.00	0.00	0.00	69.72	38.52	953.15	40.33	18.55	4.09	0.00	0.00	0.00	
7	0.00	0.00	0.00	70.70	36.71	940.38	37.61	17.73	4.09	0.00	0.00	0.00	
8	0.00	0.00	0.00	67.77	34.92	927.63	36.71	17.73	2.78	0.00	0.00	0.00	
9	0.00	0.00	0.00	63.88	38.52	902.19	34.92	16.92	0.97	0.00	0.00	0.00	
10	0.00	0.00	0.00	60.02	44.92	860.02	34.92	17.73	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	56.19	54.29	831.18	35.81	16.92	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	53.34	107.09	764.06	32.25	16.92	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	50.52	199.32	718.71	31.36	16.11	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	48.64	278.04	681.89	30.48	16.92	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	46.78	302.62	657.48	28.73	16.92	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	44.92	305.92	627.65	27.86	16.11	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	43.08	319.16	599.50	27.00	16.11	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	41.25	347.53	568.05	27.00	15.31	0.00	0.00	0.00	0.00	
19	0.00	0.00	57.14	39.42	372.82	531.40	26.14	15.31	0.00	0.00	0.00	0.00	
20	0.00	0.00	73.66	37.61	384.70	496.64	25.28	15.31	0.00	0.00	0.00	0.00	
21	0.00	0.00	70.70	35.81	389.81	461.62	24.42	14.51	0.00	0.00	0.00	0.00	
22	0.00	0.00	62.91	36.71	391.51	422.35	24.42	14.51	0.00	0.00	0.00	0.00	
23	0.00	0.00	54.29	35.81	408.61	381.30	23.57	12.93	0.00	0.00	0.00	0.00	
24	0.00	0.00	47.71	37.61	454.66	342.50	23.57	12.15	0.00	0.00	0.00	0.00	
25	0.00	0.00	44.00	39.42	506.04	292.76	22.72	11.37	0.00	0.00	0.00	0.00	
26	0.00	0.00	42.16	41.25	575.02	229.75	22.72	10.60	0.00	0.00	0.00	0.00	
27	0.00	0.00	39.42	41.25	722.82	157.51	21.88	9.84	0.00	0.00	0.00	0.00	
28	0.00	0.00	37.61	42.16	860.02	94.75	21.88	9.09	0.00	0.00	0.00	0.00	
29	0.00	0.00	37.61	41.25	965.95	67.77	21.04	8.35	0.00	0.00	0.00	0.00	
30	0.00	0.00	40.33	39.42	1017.90	55.24	21.04	7.61	0.00	0.00	0.00	0.00	
31		0.00		37.61	1045.89		19.38		0.00	0.00		0.00	
Total	0.00	0.00	607.54	1494.04	10402.26	18593.67	946.79	455.97	42.11	0.00	0.00	0.00	32542.38 Tonday
Mean	0.00	0.00	20.25	48.19	335.56	619.79	30.54	15.20	1.36	0.00	0.00	0.00	88.91 Ton/day
Max	0.00	0.00	73.66	70.70	1045.89	1059.93	49.58	19.38	6.89	0.00	0.00	0.00	1059.93 Ton/day
Min	0.00	0.00	0.00	35.81	34.92	55.24	19.38	7.61	0.00	0.00	0.00	0.00	0.00 Ton/day



**WATER YEAR : 2019****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.

	<b>Ban</b> Tong Khop	<b>Amphoe</b> Khok Si Suphan	<b>Changwat</b> Sakon Nakhon
<b>Drainage Area</b>	861 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8308		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.3494 QW^{0.92510}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.35	18.66	32.79	30.22	20.36	369.90	16.96	11.93	8.55	7.78	16.96	8.93	
2	30.22	18.66	45.44	36.62	22.87	296.79	16.96	11.93	7.78	7.01	16.96	7.78	
3	27.63	14.87	35.35	69.14	17.81	604.30	16.96	11.56	7.78	7.01	16.96	12.67	
4	19.51	18.66	35.35	83.11	13.77	615.90	18.66	11.93	7.78	6.23	16.96	16.96	
5	14.51	27.63	35.35	73.35	13.41	512.79	19.51	11.93	5.84	6.23	16.96	15.24	
6	12.67	25.02	56.98	51.23	13.41	374.96	19.51	11.93	6.23	6.23	16.96	15.24	
7	12.67	22.87	45.44	35.35	12.30	250.15	21.20	11.56	7.01	5.84	15.24	16.10	
8	13.41	22.04	34.07	32.79	12.30	190.66	20.36	10.44	7.01	5.84	12.67	15.24	
9	32.79	22.04	30.22	30.22	12.67	155.40	19.51	10.06	7.78	7.01	11.93	15.24	
10	36.62	21.20	27.63	30.22	16.96	135.40	19.51	10.44	7.78	8.55	12.30	14.87	
11	35.35	22.87	22.87	30.22	16.10	454.44	19.51	10.44	7.78	8.93	11.93	12.30	
12	31.51	19.51	28.93	30.22	14.87	551.87	19.51	10.06	7.78	7.40	8.93	10.44	
13	30.22	20.36	26.33	30.22	16.10	283.40	16.96	11.93	8.17	5.84	8.93	8.55	
14	31.51	20.36	31.51	30.22	16.10	182.34	17.81	11.93	8.17	5.84	13.04	7.01	
15	30.22	20.36	32.79	30.22	15.24	137.23	17.81	11.19	7.78	5.84	14.51	6.62	
16	31.51	20.36	92.58	30.22	16.96	115.93	17.81	10.06	7.78	6.23	14.87	5.84	
17	32.79	19.51	79.14	30.22	30.22	102.75	17.81	10.06	7.78	7.01	14.51	5.84	
18	23.71	19.51	66.12	30.22	36.62	91.01	16.96	10.06	8.55	7.01	15.24	8.55	
19	26.33	18.66	42.52	19.51	26.33	84.69	16.96	9.69	9.31	7.78	14.51	15.24	
20	31.51	18.66	31.51	14.14	22.87	67.93	16.10	9.69	8.55	9.31	14.51	16.96	
21	32.79	18.66	28.93	12.67	30.22	36.62	15.24	9.69	7.78	10.81	14.14	16.96	
22	30.22	31.51	32.79	12.67	32.79	32.79	14.87	9.31	7.78	9.69	14.14	16.96	
23	28.93	48.34	36.62	12.67	199.98	28.93	13.77	9.31	7.01	7.78	11.93	16.96	
24	28.93	51.23	32.79	14.51	391.34	22.04	13.41	9.31	7.01	7.01	10.06	16.96	
25	30.22	42.52	30.22	18.66	395.12	19.51	12.67	9.31	7.01	5.84	7.78	19.51	
26	31.51	36.62	30.22	16.10	231.82	19.51	12.67	8.55	7.40	5.84	8.55	22.87	
27	36.62	39.58	30.22	14.87	157.21	20.36	12.67	8.55	7.40	5.84	13.41	21.20	
28	28.93	31.51	30.22	13.41	134.49	19.51	12.67	8.55	7.01	7.01	14.14	16.10	
29	28.93	32.79	30.22	12.30	108.19	19.51	12.30	8.93	7.78	9.31	13.77	14.14	
30	21.20	30.22	30.22	13.41	458.37	17.81	13.41	8.93	7.78	7.78		11.56	
31		19.51		13.41	563.55		12.30		7.78	14.87		9.69	
Total	838.32	794.30	1145.37	902.34	3070.35	5814.43	512.36	309.26	236.93	230.70	392.80	418.53	14665.69 Tonday
Mean	27.94	25.62	38.18	29.11	99.04	193.81	16.53	10.31	7.64	7.44	13.54	13.50	40.07 Ton/day
Max	36.62	51.23	92.58	83.11	563.55	615.90	21.20	11.93	9.31	14.87	16.96	22.87	615.90 Ton/day
Min	12.67	14.87	22.87	12.30	12.30	17.81	12.30	8.55	5.84	5.84	7.78	5.84	5.84 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Don Sawan	<b>Amphoe</b> That Phanom	<b>Changwat</b> Nakhon Phanom
<b>Drainage Area</b>	172 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	1998-2019		
<b>Number of observation</b>	421		
<b>R-Square</b>	0.8129		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.6595 QW^{1.06380}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.56	2.01	20.79	2.31	26.37	151.67	2.69	2.43	0.38	0.18	0.09	0.00	
2	1.56	1.90	11.94	2.69	19.41	90.73	2.69	2.43	0.38	0.15	0.09	0.00	
3	1.56	1.90	7.49	12.53	10.78	128.67	2.66	2.58	0.32	0.15	0.25	0.00	
4	1.60	1.90	5.23	14.97	6.27	287.14	2.81	2.58	0.28	0.15	0.28	0.00	
5	1.64	2.05	3.43	9.91	4.05	252.88	3.58	1.49	0.25	0.12	0.15	0.09	
6	1.64	2.05	3.04	5.43	5.63	161.43	3.66	0.49	0.25	0.09	0.12	0.15	
7	1.64	2.16	2.73	3.43	5.63	126.26	3.66	0.42	0.22	0.09	0.09	0.09	
8	1.60	2.20	2.54	2.69	3.82	81.32	3.66	0.42	0.18	0.09	0.00	0.09	
9	1.60	3.19	2.39	2.54	3.66	66.63	3.43	0.42	0.18	0.15	0.00	0.12	
10	1.60	3.04	2.31	2.39	3.50	50.14	3.04	0.42	0.28	0.22	0.00	0.15	
11	1.68	2.89	2.24	2.28	3.23	94.32	2.69	0.42	0.32	0.15	0.09	0.15	
12	1.90	2.43	2.16	2.28	2.58	123.85	3.00	0.42	0.32	0.09	0.12	0.09	
13	1.97	2.31	2.16	2.43	2.50	98.06	2.89	0.42	0.25	0.03	0.28	0.09	
14	1.90	2.28	2.35	2.43	2.58	63.86	2.81	0.42	0.25	0.25	0.18	0.15	
15	1.75	2.20	2.62	2.66	2.47	34.76	2.73	0.38	0.22	0.32	0.15	0.25	
16	1.75	2.16	3.19	2.43	2.58	20.10	2.69	0.38	0.18	0.25	0.00	0.25	
17	1.75	2.16	3.97	2.43	2.58	7.49	2.69	0.38	0.22	0.09	0.00	0.28	
18	1.75	2.13	6.03	2.43	2.58	5.04	2.69	0.38	0.25	0.00	0.00	0.15	
19	1.75	2.01	5.04	2.31	2.50	5.04	2.77	0.35	0.42	0.00	0.00	0.09	
20	1.75	2.01	3.74	2.24	9.91	5.04	2.96	0.35	0.35	0.00	0.00	0.09	
21	1.75	2.01	3.04	2.24	3.50	5.83	2.81	0.32	0.25	0.09	0.00	0.18	
22	1.90	2.58	2.96	2.39	2.62	5.23	2.81	0.32	0.25	0.22	0.00	0.32	
23	3.12	2.69	2.85	2.43	28.56	3.97	2.81	0.32	0.25	0.15	0.00	0.25	
24	2.58	3.35	2.66	13.41	54.47	3.58	2.77	0.25	0.22	0.32	0.00	0.18	
25	2.35	2.81	2.58	17.36	148.03	3.23	2.62	0.25	0.22	0.32	0.09	0.22	
26	2.31	3.00	2.50	15.65	38.52	3.04	2.54	0.25	0.22	0.28	0.09	0.77	
27	2.13	7.00	2.43	14.30	12.24	2.89	2.54	0.22	0.22	0.15	0.06	0.84	
28	2.01	9.91	2.43	13.12	4.05	2.77	2.54	0.18	0.22	0.09	0.06	0.59	
29	1.97	11.36	2.39	12.82	3.19	2.77	2.50	0.18	0.18	0.12	0.06	0.42	
30	2.01	13.71	2.31	13.41	117.85	2.73	2.50	0.32	0.18	0.12		0.32	
31		14.00		13.41	295.24		2.50		0.18	0.12		0.25	
Total	56.08	117.40	121.54	203.35	830.90	1890.47	88.74	20.19	7.89	4.55	2.25	6.62	3349.98 Tonday
Mean	1.87	3.79	4.05	6.56	26.80	63.02	2.86	0.67	0.25	0.15	0.08	0.21	9.15 Ton/day
Max	3.12	14.00	20.79	17.36	295.24	287.14	3.66	2.58	0.42	0.32	0.28	0.84	295.24 Ton/day
Min	1.56	1.90	2.16	2.24	2.47	2.73	2.50	0.18	0.18	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Kan Luang Dong</b>	<b>Amphoe Dong Luang</b>	<b>Changwat Muk Dahan</b>
<b>Drainage Area</b>	1,119 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	19		
<b>R-Square</b>	0.7098		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 11.7930 QW^{0.93930}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.40	10.68	207.71	16.18	688.06	3509.47	112.15	53.48	22.61	12.35	6.15	13.45	
2	4.40	8.44	182.76	23.67	224.23	1817.34	126.46	53.48	22.61	12.35	6.15	17.48	
3	4.40	6.15	182.76	129.31	71.38	2923.50	117.89	53.48	22.61	12.35	6.15	18.12	
4	4.40	6.15	72.37	248.87	54.48	3952.36	112.15	48.44	19.41	10.68	6.15	18.12	
5	4.40	8.44	53.48	104.47	47.43	2939.01	115.02	48.44	19.41	10.68	6.15	17.48	
6	6.15	8.89	44.38	70.40	47.43	1398.00	146.32	43.36	19.41	10.68	6.15	15.09	
7	6.15	11.79	33.10	49.45	42.35	912.64	191.10	43.36	19.41	10.68	6.15	14.00	
8	6.15	20.06	31.02	25.79	33.10	702.70	207.71	43.36	18.12	10.68	6.15	14.00	
9	6.61	73.35	25.79	22.61	35.17	614.38	163.20	43.36	18.12	12.90	6.15	12.90	
10	8.44	46.41	27.89	25.79	52.47	720.97	126.46	38.25	16.18	10.68	6.15	11.24	
11	8.44	27.89	23.67	22.61	52.47	1862.10	110.23	36.20	16.18	8.44	6.15	10.68	
12	6.15	19.41	23.67	22.61	43.36	978.55	92.88	36.20	16.18	8.44	6.15	11.24	
13	6.15	16.18	26.84	22.61	43.36	662.31	92.88	36.20	16.18	8.44	6.15	11.79	
14	6.15	13.45	26.84	25.79	46.41	532.76	100.62	33.10	16.83	8.44	6.15	11.79	
15	6.15	13.45	38.25	22.61	45.40	377.97	92.88	33.10	17.48	8.44	6.15	12.90	
16	7.53	13.45	106.40	22.61	57.49	292.30	79.25	33.10	16.83	8.44	4.40	12.90	
17	7.53	12.35	71.38	19.41	90.94	289.60	72.37	33.10	16.83	8.44	4.40	13.45	
18	7.53	10.68	55.48	19.41	110.23	254.32	65.45	33.10	16.18	8.44	4.40	12.90	
19	6.15	10.68	44.38	16.18	85.11	248.87	63.47	33.10	16.18	7.53	4.40	13.45	
20	6.15	13.45	38.25	16.18	68.42	210.47	63.47	32.06	15.63	7.53	4.40	16.18	
21	8.44	13.45	33.10	16.18	226.98	224.23	61.48	29.98	15.63	7.53	4.40	16.18	
22	8.89	14.00	27.89	16.18	117.89	224.23	60.48	28.93	15.63	6.15	4.40	16.18	
23	12.90	54.48	25.79	16.83	823.02	218.73	59.48	27.89	15.63	6.15	4.40	16.18	
24	11.24	49.45	24.73	36.20	3563.10	210.47	58.49	26.84	15.09	6.15	4.40	16.18	
25	18.77	37.23	19.41	33.10	5460.94	191.10	58.49	25.79	15.09	6.15	4.40	14.54	
26	39.28	45.40	16.18	29.98	2084.90	168.80	54.48	24.73	15.09	6.15	4.40	14.54	
27	20.70	33.10	18.12	25.79	988.54	140.66	53.48	22.61	15.09	6.15	4.40	13.45	
28	15.63	52.47	18.12	22.61	658.64	126.46	53.48	22.61	15.09	6.15	4.40	13.45	
29	13.45	69.41	16.18	24.73	543.92	112.15	53.48	22.61	14.54	6.15	4.40	14.00	
30	14.00	115.02	16.18	137.83	3593.73	112.15	53.48	22.61	14.54	6.15		14.54	
31		126.46		149.14	5309.56		53.48		14.54	6.15		11.24	
Total	286.73	961.82	1532.12	1435.13	25310.51	26928.60	2872.26	1062.87	528.35	265.64	153.85	439.64	61777.52 Tonday
Mean	9.56	31.03	51.07	46.29	816.47	897.62	92.65	35.43	17.04	8.57	5.31	14.18	168.79 Ton/day
Max	39.28	126.46	207.71	248.87	5460.94	3952.36	207.71	53.48	22.61	12.90	6.15	18.12	5460.94 Ton/day
Min	4.40	6.15	16.18	16.18	33.10	112.15	53.48	22.61	14.54	6.15	4.40	10.68	4.40 Ton/day





## WATER YEAR : 2019

## 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.

	<b>Ban Non Toom</b>	<b>Amphoe Mueang</b>	<b>Changwat Udon Thani</b>
<b>Drainage Area</b>	1,235 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	34		
<b>R-Square</b>	0.7238		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.0021 QW^{0.84730}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	0.65	1.32	9.14	1.87	245.62	12.86	6.16	2.09	1.64	1.48	0.91	
2	1.32	0.74	2.02	8.46	1.32	239.98	8.11	6.16	2.09	1.64	1.48	0.91	
3	1.32	0.74	7.42	8.29	1.00	245.62	7.06	6.16	2.02	1.64	1.40	0.82	
4	1.24	0.82	13.13	7.94	0.91	249.36	6.70	5.98	2.02	1.64	1.40	0.82	
5	1.24	0.82	23.14	8.11	1.08	259.61	7.06	6.34	1.94	1.64	1.32	0.82	
6	1.24	0.91	43.23	7.24	1.40	263.93	7.42	6.52	1.94	1.71	1.32	0.91	
7	1.16	1.00	34.38	5.61	1.48	272.54	7.94	5.80	1.87	1.71	1.24	1.00	
8	1.16	1.00	31.05	4.28	1.40	276.83	8.97	5.24	1.87	1.71	1.24	1.00	
9	1.16	1.08	26.45	3.36	1.24	278.97	9.14	4.48	1.87	1.71	1.24	1.00	
10	1.08	1.16	15.99	3.08	1.24	272.54	8.46	3.63	1.87	1.71	1.24	1.00	
11	1.08	1.24	7.42	3.08	5.43	272.54	8.46	3.22	1.79	1.71	1.24	1.00	
12	1.08	1.32	4.09	3.08	30.60	266.09	8.80	3.08	1.79	1.71	1.24	1.00	
13	1.00	1.40	3.63	2.81	67.89	261.77	8.97	3.08	1.79	1.71	1.16	1.00	
14	1.00	1.48	3.36	2.81	103.58	257.44	9.87	3.08	1.71	1.71	1.16	1.00	
15	1.00	1.56	3.08	2.38	120.36	253.10	11.25	3.08	1.71	1.71	1.16	1.00	
16	0.91	1.64	2.95	1.79	123.27	239.98	12.60	3.08	1.71	1.64	1.08	1.00	
17	0.91	1.71	3.49	1.48	109.14	219.10	13.92	3.08	1.64	1.64	1.08	1.00	
18	0.91	1.79	9.14	1.08	95.46	195.91	14.70	3.08	1.64	1.56	1.08	1.00	
19	0.91	1.87	37.47	1.24	90.39	175.66	16.25	3.08	1.64	1.56	1.16	1.00	
20	0.82	1.87	50.01	1.08	70.87	154.18	17.76	2.95	1.71	1.64	1.16	1.00	
21	0.82	1.94	33.75	1.08	55.62	134.01	19.01	2.52	1.71	1.64	1.00	1.00	
22	0.82	2.02	20.00	1.24	62.13	126.24	17.76	2.38	1.71	1.64	1.00	1.00	
23	0.74	2.02	10.15	1.32	89.20	114.65	15.73	2.24	1.71	1.64	1.00	1.00	
24	0.74	2.09	9.59	1.48	128.45	79.84	13.66	2.24	1.79	1.64	1.00	1.24	
25	0.74	2.09	9.59	1.48	166.06	57.70	11.52	2.24	1.79	1.64	1.08	1.94	
26	0.65	2.16	9.59	1.56	193.30	43.82	9.59	2.24	1.79	1.64	1.08	1.71	
27	0.65	2.16	9.87	1.48	219.10	33.53	8.80	2.16	1.79	1.64	1.08	1.71	
28	0.65	2.38	9.87	1.24	241.86	26.92	8.63	2.16	1.71	1.56	1.00	1.71	
29	0.65	1.71	9.59	1.24	241.86	21.94	7.24	2.16	1.71	1.56	1.08	1.71	
30	0.65	1.32	9.59	2.09	243.74	21.46	5.80	2.16	1.71	1.56		1.71	
31		1.16		1.94	247.49		5.05		1.64	1.56		1.71	
<b>Total</b>	29.05	45.85	454.36	102.49	2718.74	5560.88	329.09	109.78	55.77	51.06	34.20	35.63	9526.90 Ton/day
<b>Mean</b>	0.97	1.48	15.15	3.31	87.70	185.36	10.62	3.66	1.80	1.65	1.18	1.15	26.03 Ton/day
<b>Max</b>	1.40	2.38	50.01	9.14	247.49	278.97	19.01	6.52	2.09	1.71	1.48	1.94	278.97 Ton/day
<b>Min</b>	0.65	0.65	1.32	1.08	0.91	21.46	5.05	2.16	1.64	1.56	1.00	0.82	0.65 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Nam Ing</b>	<b>Amphoe Khun Tan</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	6,266 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1994-Cont'd		
<b>Actual Measurement</b>	1994-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.8700		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9900 QW^{1.40200}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.28	0.02	0.16	69.19	2577.12	59.63	24.04	24.77	0.01	0.01	0.02	
2	0.16	0.21	0.03	0.13	88.76	2651.54	55.01	24.04	22.63	0.02	0.01	0.02	
3	0.15	0.18	0.03	0.10	175.08	2840.22	49.81	23.35	21.25	0.02	0.01	0.03	
4	0.17	0.17	0.03	0.09	693.16	3090.96	44.89	22.63	20.58	0.02	0.01	0.03	
5	0.17	0.16	0.03	0.08	1482.21	2945.56	44.89	22.63	19.89	0.02	0.01	0.03	
6	0.23	0.14	0.03	0.04	2577.12	2792.70	42.96	21.96	19.89	0.02	0.01	0.03	
7	0.25	0.06	0.03	0.03	2887.96	2614.26	40.08	21.96	19.24	0.01	0.01	0.03	
8	0.26	0.03	0.03	0.03	2878.40	2494.13	37.30	22.63	19.24	0.01	0.01	0.03	
9	0.23	0.03	0.03	0.03	2540.14	2339.52	36.36	25.47	18.59	0.01	0.01	0.03	
10	0.21	0.03	0.03	0.02	2312.53	2196.63	35.47	32.22	17.95	0.01	0.01	0.03	
11	0.21	0.03	0.03	0.02	2047.68	1455.18	37.30	37.30	17.32	0.01	0.01	0.03	
12	0.21	0.03	0.03	0.02	1851.02	869.74	30.69	36.36	17.32	0.01	0.01	0.03	
13	0.23	0.03	0.02	0.02	1699.40	688.62	28.41	35.47	17.32	0.01	0.02	0.03	
14	0.25	0.03	0.02	0.02	1600.98	437.81	26.93	32.98	16.69	0.01	0.02	0.03	
15	0.25	0.03	0.03	0.02	1519.04	291.61	27.68	32.22	15.46	0.01	0.02	0.03	
16	0.28	0.03	0.03	0.03	1468.68	168.69	29.17	29.91	15.46	0.01	0.02	0.03	
17	0.29	0.03	0.03	0.02	1368.31	130.69	28.41	29.17	13.66	0.01	0.02	0.03	
18	0.30	0.03	0.03	0.02	1355.08	112.77	29.17	29.17	12.72	0.01	0.02	0.03	
19	0.28	0.03	0.03	0.02	1448.44	111.04	29.17	28.41	12.26	0.01	0.02	0.03	
20	0.27	0.03	0.03	0.02	1401.54	107.57	28.41	27.68	10.92	0.01	0.02	0.03	
21	0.30	0.03	0.03	0.02	1408.21	107.57	27.68	27.68	10.04	0.01	0.03	0.03	
22	0.34	0.03	0.03	0.02	1526.44	105.82	26.93	26.93	9.19	0.01	0.03	0.03	
23	0.32	0.03	0.03	0.02	1809.03	104.39	26.22	26.93	8.46	0.01	0.03	0.03	
24	0.33	0.03	0.03	0.03	2214.35	102.91	25.47	26.22	7.06	0.01	0.03	0.03	
25	0.34	0.03	0.03	0.03	2792.70	98.63	26.22	26.22	6.72	0.01	0.02	0.02	
26	0.35	0.03	0.03	0.03	3130.07	90.17	25.47	25.47	4.28	0.01	0.02	0.02	
27	0.35	0.03	0.04	0.03	3198.85	76.62	25.47	25.47	4.75	0.01	0.02	0.02	
28	0.35	0.03	0.05	0.03	3013.16	58.47	25.47	24.77	4.51	0.01	0.02	0.02	
29	0.35	0.03	0.07	0.03	2840.22	48.84	24.77	24.77	4.51	0.01	0.02	0.02	
30	0.35	0.02	0.13	0.02	2726.57	48.84	24.77	24.77	4.05	0.01		0.02	
31		0.02		0.02	2614.26		24.77		4.05	0.01		0.02	
Total	7.92	1.90	1.04	1.20	58738.58	31758.62	1024.98	818.83	420.78	0.36	0.50	0.84	92775.55 Tonday
Mean	0.26	0.06	0.03	0.04	1894.79	1058.62	33.06	27.29	13.57	0.01	0.02	0.03	253.49 Ton/day
Max	0.35	0.28	0.13	0.16	3198.85	3090.96	59.63	37.30	24.77	0.02	0.03	0.03	3198.85 Ton/day
Min	0.14	0.02	0.02	0.02	69.19	48.84	24.77	21.96	4.05	0.01	0.01	0.02	0.01 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Ton Yang</b>	<b>Amphoe Mae Lao</b>	<b>Changwat Chiang Rai</b>
<b>Drainage Area</b>	2,909 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9370		
<b>Remarks</b>	Continued Sediment Station		

QS = 2.1020 QW<sup>1.57100</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.86	2.80	62.22	1.37	8.98	1894.05	4.88	11.32	18.26	4.27	0.33	0.30	
2	6.54	2.80	78.28	1.07	28.02	2113.79	4.27	8.10	20.03	0.52	0.30	0.30	
3	7.25	2.80	58.19	1.07	11.81	2405.92	4.27	5.86	21.94	0.40	0.33	0.27	
4	7.25	2.80	48.57	1.07	28.02	1297.95	3.57	4.88	19.14	0.37	0.30	0.24	
5	7.25	2.44	27.01	1.07	1008.99	750.22	2.62	3.97	15.72	0.46	0.33	0.27	
6	6.20	2.00	22.95	1.07	3232.35	397.89	2.44	6.20	9.89	0.40	0.33	0.24	
7	6.20	2.00	18.26	1.07	1572.06	236.23	2.10	14.11	9.89	0.37	0.33	0.27	
8	6.54	1.88	19.14	1.07	520.52	140.33	2.10	14.11	5.86	0.37	0.33	0.27	
9	7.25	1.88	25.93	1.17	184.34	72.22	2.10	15.72	2.10	0.33	0.40	0.27	
10	6.54	1.88	19.14	1.37	144.15	54.27	2.10	10.83	2.10	0.33	0.37	0.27	
11	6.89	2.00	15.72	1.37	299.63	45.00	2.00	9.89	1.88	0.30	0.37	0.27	
12	7.67	1.88	14.11	1.25	546.46	36.47	2.00	9.89	1.57	0.37	0.33	0.27	
13	7.67	1.88	14.11	1.37	779.79	29.13	2.44	11.81	1.45	0.37	0.33	0.30	
14	6.54	1.88	15.72	1.37	976.48	23.91	4.57	21.02	1.17	0.33	0.37	0.27	
15	6.20	1.88	15.72	1.37	1064.02	21.02	8.10	41.53	1.07	0.33	0.40	0.30	
16	5.53	1.88	14.11	1.25	1030.87	19.14	8.10	39.79	1.37	0.30	0.37	0.27	
17	5.20	2.00	10.36	1.25	789.74	17.40	6.54	39.79	1.66	0.30	0.33	0.30	
18	5.53	2.10	4.57	1.25	546.46	14.91	7.67	38.16	3.77	0.30	0.33	0.30	
19	7.25	2.10	2.62	1.25	299.63	107.67	6.89	33.26	2.98	0.33	0.33	0.30	
20	5.53	2.10	2.10	1.07	121.80	711.45	5.53	30.17	1.37	0.33	0.30	0.27	
21	3.17	2.10	1.78	1.07	87.70	270.13	3.97	28.02	0.92	0.33	0.30	0.27	
22	2.44	2.10	1.66	1.17	281.80	121.80	2.62	24.95	0.64	0.30	0.33	0.27	
23	2.98	2.10	1.66	1.37	1237.06	56.22	2.10	22.95	0.27	0.30	0.33	0.27	
24	2.80	2.10	1.57	2.10	5322.24	21.02	2.00	22.95	0.27	0.30	0.30	0.24	
25	2.62	2.10	1.37	2.80	6883.57	13.33	1.88	22.95	0.27	0.30	0.30	0.24	
26	2.80	2.27	1.45	2.44	2960.88	9.43	1.78	21.94	0.24	0.33	0.33	0.27	
27	2.80	2.62	1.78	3.37	1359.91	8.54	1.57	21.94	0.27	0.30	0.33	0.27	
28	3.37	2.62	1.57	3.77	692.34	7.25	1.45	20.03	0.27	0.33	0.33	0.24	
29	3.97	2.80	1.37	3.17	673.43	6.54	1.25	18.26	0.85	0.64	0.30	0.27	
30	3.57	3.57	1.37	3.17	840.16	5.86	1.66	18.26	7.67	0.92		0.27	
31		9.89		3.77	912.64		7.67		10.83	0.40		0.24	
Total	161.41	77.25	504.41	52.40	34445.85	10909.09	112.24	592.66	165.72	15.53	9.66	8.43	47054.65 Tonday
Mean	5.38	2.49	16.81	1.69	1111.16	363.64	3.62	19.76	5.35	0.50	0.33	0.27	128.56 Ton/day
Max	7.67	9.89	78.28	3.77	6883.57	2405.92	8.10	41.53	21.94	4.27	0.40	0.30	6883.57 Ton/day
Min	2.44	1.88	1.37	1.07	8.98	5.86	1.25	3.97	0.24	0.30	0.30	0.24	0.24 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban</b> Kariang Thung Phrao	<b>Amphoe</b> Mae Suai	<b>Changwat</b> Chiang Rai
<b>Drainage Area</b>	386 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.7810		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.2350 QW^{2.83400}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.87	15.25	140.73	3.60	101.17	367.52	7.05	15.25	10.64	12.81	2.94	1.87	
2	1.87	15.25	50.24	4.35	291.64	4436.13	8.73	15.25	10.64	10.64	2.37	1.87	
3	1.87	15.25	32.76	5.59	315.68	340.96	5.59	15.25	10.64	10.64	2.37	1.87	
4	1.87	15.25	32.76	5.59	6313.80	101.17	5.59	10.64	8.73	12.81	2.37	1.87	
5	1.87	12.81	32.76	5.59	23689.20	64.71	5.59	8.73	8.73	12.81	1.87	1.87	
6	1.87	12.81	24.32	5.59	340.96	43.88	5.59	17.97	8.73	12.81	1.87	1.87	
7	1.87	12.81	24.32	5.59	50.24	15.25	5.59	72.85	8.73	10.64	1.87	1.87	
8	1.87	10.64	24.32	3.60	15.25	15.25	5.59	32.76	7.05	10.64	1.87	1.87	
9	1.87	10.64	24.32	3.60	15.25	15.25	5.59	15.25	8.73	10.64	2.37	1.45	
10	1.87	10.64	20.99	3.60	17.97	20.99	5.59	15.25	10.64	10.64	2.94	1.09	
11	1.87	10.64	20.99	3.60	27.97	32.76	5.59	15.25	10.64	10.64	1.87	1.09	
12	1.87	10.64	20.99	3.60	268.82	43.88	5.59	15.25	10.64	10.64	1.87	1.09	
13	1.87	10.64	20.99	3.60	1507.61	50.24	12.81	15.25	10.64	10.64	1.87	0.80	
14	1.87	10.64	15.25	3.60	72.85	50.24	50.24	15.25	10.64	10.64	1.87	0.80	
15	1.87	10.64	15.25	2.94	140.73	50.24	32.76	12.81	8.73	12.81	1.87	1.09	
16	1.87	10.64	15.25	2.94	367.52	38.06	27.97	10.64	8.73	8.73	1.87	1.09	
17	1.87	8.73	15.25	2.94	247.19	32.76	24.32	10.64	8.73	8.73	1.87	1.09	
18	2.37	8.73	15.25	1.87	57.18	32.76	20.99	10.64	10.64	8.73	1.87	1.09	
19	2.94	7.05	15.25	1.87	32.76	32.76	17.97	10.64	10.64	8.73	1.87	1.09	
20	3.60	7.05	10.64	1.87	57.18	38.06	20.99	10.64	10.64	8.73	1.87	1.09	
21	3.60	5.59	3.60	4.35	72.85	32.76	24.32	10.64	8.73	3.60	1.87	1.09	
22	4.35	7.05	3.60	10.64	57.18	27.97	32.76	10.64	10.64	3.60	1.87	1.09	
23	5.59	12.81	2.94	5.59	340.96	24.32	27.97	10.64	10.64	3.60	1.87	1.09	
24	7.05	12.81	2.94	5.59	1003.50	20.99	20.99	7.05	10.64	3.60	1.87	1.09	
25	8.73	10.64	3.60	8.73	340.96	15.25	15.25	5.59	10.64	2.94	1.87	1.09	
26	12.81	15.25	64.71	12.81	155.85	15.25	15.25	5.59	8.73	2.94	1.87	1.09	
27	15.25	15.25	15.25	15.25	64.71	15.25	15.25	8.73	8.73	2.94	1.87	1.09	
28	15.25	15.25	15.25	15.25	72.85	15.25	15.25	10.64	10.64	2.94	1.87	1.87	
29	15.25	12.81	15.25	10.64	91.06	10.64	15.25	10.64	10.64	2.94	1.87	1.87	
30	15.25	17.97	8.73	5.59	50.24	8.73	15.25	10.64	12.81	2.94		1.87	
31		91.06		5.59	15.25		15.25		12.81	2.94		1.87	
Total	143.83	443.24	708.50	175.56	36196.38	6009.28	492.52	437.01	309.58	249.08	58.37	42.93	45266.28 Ton/day
Mean	4.79	14.30	23.62	5.66	1167.63	200.31	15.89	14.57	9.99	8.03	2.01	1.38	123.68 Ton/day
Max	15.25	91.06	140.73	15.25	23689.20	4436.13	50.24	72.85	12.81	12.81	2.94	1.87	23689.20 Ton/day
Min	1.87	5.59	2.94	1.87	15.25	8.73	5.59	5.59	7.05	2.94	1.87	0.80	0.80 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Tha Mao</b>	<b>Amphoe</b>	<b>Nam Phong</b>	<b>Changwat</b>	<b>Khon Kaen</b>
<b>Drainage Area</b>	13,638 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2004-Cont'd					
<b>Actual Measurement</b>	2004-Cont'd					
<b>Using Rating Curve Water Year</b>	2004-2019					
<b>Number of observation</b>	271					
<b>R-Square</b>	0.7794					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.2138 QW^{1.20060}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.47	13.47	36.83	13.47	10.82	29.73	8.28	7.78	15.10	12.93	9.79	7.30	
2	13.47	13.47	31.79	13.47	10.82	88.08	7.30	12.93	14.01	12.93	9.28	7.30	
3	13.47	13.47	43.73	13.47	10.82	321.67	7.78	15.65	13.47	12.93	9.28	7.78	
4	13.47	13.47	48.14	13.47	10.82	444.56	7.30	16.21	13.47	12.93	9.28	7.30	
5	13.47	13.47	46.37	13.47	10.82	368.37	7.30	15.65	13.47	12.93	9.28	6.81	
6	13.47	13.47	42.86	13.47	10.82	341.56	7.78	15.65	12.93	12.93	9.28	7.78	
7	13.47	13.47	28.50	13.47	10.82	411.50	7.78	16.21	12.93	11.87	9.28	8.28	
8	13.47	13.47	26.07	13.47	10.82	424.01	7.30	15.65	12.93	10.82	9.28	7.30	
9	13.47	13.47	26.07	13.47	10.82	301.99	7.30	15.65	12.93	10.82	9.28	6.81	
10	13.47	13.47	26.07	13.47	10.82	151.62	7.30	15.65	12.93	10.82	9.79	6.33	
11	13.47	13.47	26.07	13.47	12.93	59.92	7.30	15.65	11.87	10.30	9.79	6.33	
12	13.47	13.47	25.47	13.47	11.87	89.31	7.30	15.65	11.87	10.30	9.79	6.33	
13	15.10	13.47	21.33	13.47	11.87	106.83	7.30	15.65	11.87	10.82	9.79	6.33	
14	19.03	13.47	16.21	13.47	11.87	119.65	7.30	16.21	10.82	10.82	9.79	6.33	
15	19.03	13.47	16.21	13.47	12.93	94.26	6.81	16.21	10.82	10.30	9.79	6.33	
16	18.46	14.01	16.21	13.47	12.40	27.89	6.81	15.65	9.79	10.30	9.28	6.81	
17	16.21	16.21	15.65	13.47	12.40	18.46	6.81	15.65	10.30	10.30	8.28	6.81	
18	16.21	16.21	13.47	13.47	11.34	15.65	7.30	15.65	10.82	10.30	8.28	6.33	
19	15.65	16.21	13.47	13.47	11.34	14.56	6.81	15.65	10.82	10.30	8.78	6.33	
20	13.47	15.65	13.47	13.47	11.34	14.01	6.81	15.65	11.87	10.30	8.28	6.81	
21	13.47	13.47	13.47	13.47	11.87	15.10	6.33	16.21	12.93	10.82	8.78	7.30	
22	13.47	13.47	13.47	12.93	12.93	14.01	6.33	16.21	12.93	10.82	8.28	6.33	
23	13.47	13.47	13.47	12.40	13.47	12.93	6.81	16.21	12.93	10.30	8.28	6.33	
24	13.47	13.47	13.47	12.40	13.47	12.40	6.33	16.21	12.93	9.28	8.28	6.81	
25	13.47	13.47	13.47	12.40	22.50	11.87	6.33	16.21	12.93	9.28	8.28	6.33	
26	13.47	13.47	13.47	12.40	50.82	10.82	6.33	16.21	12.93	9.28	8.28	6.33	
27	13.47	14.01	13.47	12.40	51.72	9.79	6.33	15.65	12.93	9.28	8.28	6.33	
28	13.47	16.21	13.47	12.40	32.62	9.79	5.86	15.65	12.93	9.79	8.28	6.33	
29	13.47	22.50	13.47	12.40	23.68	8.78	5.86	15.10	12.93	9.79	8.28	6.81	
30	13.47	43.73	13.47	12.40	20.75	8.28	5.86	15.65	12.93	9.79		6.81	
31		51.72		11.34	22.50		5.86		12.93	9.79		6.81	
Total	429.50	509.33	668.69	406.34	504.82	3557.40	214.20	463.96	387.25	334.17	260.69	210.25	7946.60 Tonday
Mean	14.32	16.43	22.29	13.11	16.28	118.58	6.91	15.47	12.49	10.78	8.99	6.78	21.71 Ton/day
Max	19.03	51.72	48.14	13.47	51.72	444.56	8.28	16.21	15.10	12.93	9.79	8.28	444.56 Ton/day
Min	13.47	13.47	13.47	11.34	10.82	8.28	5.86	7.78	9.79	9.28	8.28	6.33	5.86 Ton/day



**WATER YEAR : 2019****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.

	<b>Ban Nong O</b>	<b>Amphoe Ban Khwao</b>	<b>Changwat Chaiyaphum</b>
<b>Drainage Area</b>	2,867 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1968-Cont'd		
<b>Actual Measurement</b>	1968-Cont'd		
<b>Using Rating Curve Water Year</b>	2018-2019		
<b>Number of observation</b>	18		
<b>R-Square</b>	0.9058		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.3399 QW^{1.14420}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.87	3.20	27.45	18.09	0.00	1907.98	22.28	6.34	7.07	2.54	0.00	0.00	
2	4.22	1.60	17.26	10.86	0.00	2254.19	25.37	6.34	6.70	2.54	0.00	0.00	
3	4.56	0.72	32.75	8.94	0.00	1425.10	34.90	6.34	6.34	2.22	0.00	0.00	
4	4.56	0.72	43.66	14.01	0.00	1007.79	33.82	5.98	6.34	2.22	0.00	0.00	
5	4.91	0.45	22.28	41.45	0.00	694.36	23.31	6.70	6.34	1.91	0.00	0.00	
6	6.34	0.45	28.50	44.87	0.00	381.19	25.37	7.07	6.34	1.91	0.00	0.00	
7	6.34	0.00	54.64	20.59	0.00	276.73	27.45	7.07	6.34	2.22	0.00	0.00	
8	5.62	0.00	48.50	13.21	0.00	174.89	22.28	7.07	5.62	2.22	0.00	0.00	
9	5.62	0.00	29.56	9.70	0.00	123.51	22.28	6.70	5.26	2.54	0.00	0.00	
10	5.26	0.21	18.92	8.18	0.00	95.89	33.82	6.70	4.56	2.54	0.00	0.00	
11	4.91	0.45	15.63	9.32	0.00	83.93	55.88	8.56	5.26	2.87	0.00	0.00	
12	4.91	0.45	12.42	10.08	0.00	103.07	87.86	9.70	5.62	2.87	0.00	0.00	
13	4.56	0.72	9.32	6.34	0.00	78.73	111.77	10.08	5.62	3.20	0.00	0.00	
14	4.56	2.22	9.32	5.98	0.00	71.01	110.32	10.08	5.26	3.20	0.00	0.00	
15	4.56	5.26	7.07	6.34	0.00	72.29	60.87	10.47	4.91	3.53	0.00	0.00	
16	4.22	6.70	7.07	8.18	0.00	54.64	39.25	10.86	4.91	3.87	0.00	0.00	
17	4.22	7.81	10.08	5.98	0.00	33.82	20.59	10.47	4.91	4.22	0.00	0.00	
18	3.87	9.32	16.44	2.54	0.00	32.75	15.63	10.08	4.56	4.56	0.00	0.00	
19	3.87	10.47	10.47	1.01	0.21	46.07	15.63	9.70	4.56	4.56	0.00	0.00	
20	3.53	8.56	10.86	0.00	1.01	162.60	14.01	9.32	4.22	4.91	0.00	0.00	
21	3.53	7.81	10.86	0.00	1.30	712.75	13.21	9.32	4.22	5.26	0.00	0.00	
22	3.20	7.07	10.08	0.00	0.45	832.32	10.86	9.32	3.87	5.26	0.00	0.00	
23	3.20	7.07	10.08	0.00	0.00	702.24	8.94	9.32	3.87	5.62	0.00	0.00	
24	3.53	8.18	8.94	0.00	2.54	458.70	7.44	8.94	3.53	5.62	0.00	0.00	
25	3.87	12.03	8.94	0.00	9.70	237.86	6.70	8.94	3.53	5.98	0.00	0.00	
26	3.87	23.31	12.82	0.00	63.39	147.41	6.34	8.56	3.53	5.98	0.00	0.00	
27	3.87	26.41	18.09	0.00	83.93	95.89	5.62	8.56	3.20	0.00	0.00	0.00	
28	4.22	28.50	28.50	0.00	114.70	72.29	4.91	7.81	3.20	0.00	0.00	0.00	
29	4.22	30.62	41.45	0.00	86.55	54.64	5.62	7.44	3.20	0.00	0.00	0.00	
30	4.56	33.82	29.56	0.00	69.73	34.90	6.34	7.44	2.87	0.00		0.00	
31		35.98		0.00	467.67		6.70		2.87	0.00		0.00	
Total	132.58	280.11	611.52	245.67	901.18	12429.54	885.37	251.28	148.63	94.37	0.00	0.00	15980.25 Tonday
Mean	4.42	9.04	20.38	7.92	29.07	414.32	28.56	8.38	4.79	3.04	0.00	0.00	43.66 Ton/day
Max	6.34	35.98	54.64	44.87	467.67	2254.19	111.77	10.86	7.07	5.98	0.00	0.00	2254.19 Ton/day
Min	3.20	0.00	7.07	0.00	0.00	32.75	4.91	5.98	2.87	0.00	0.00	0.00	0.00 Ton/day



## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	31,879 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9077		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.3500 QW^{1.23080}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.98	0.00	31.02	0.00	10.09	5512.90	27.92	33.54	23.99	22.50	6.67	0.00	
2	1.43	0.00	32.91	0.00	10.35	7071.26	36.10	33.54	21.62	22.50	9.34	0.00	
3	0.00	0.00	22.50	0.00	9.84	8172.61	38.04	33.54	19.31	20.75	12.16	0.00	
4	0.00	0.00	7.62	0.00	6.67	9383.62	33.54	34.18	18.45	16.49	13.48	0.00	
5	0.00	0.00	3.15	0.00	1.61	10389.44	32.91	34.18	17.89	12.69	13.22	0.00	
6	0.00	0.00	7.38	0.00	2.55	10911.90	41.98	34.82	17.04	13.75	13.22	0.20	
7	0.00	0.00	10.35	0.00	3.56	11087.11	40.66	35.46	16.49	14.02	13.75	4.41	
8	0.00	0.00	8.10	0.00	3.98	11011.96	35.46	34.82	15.66	14.83	14.56	10.35	
9	0.00	0.00	1.97	0.00	3.77	10836.97	36.10	34.18	15.11	17.04	15.11	15.11	
10	0.00	0.00	0.00	0.00	3.56	10513.40	39.35	32.91	14.02	20.46	15.93	17.04	
11	0.00	0.00	0.00	0.00	4.41	9798.33	41.98	33.54	13.22	26.09	16.21	17.60	
12	0.00	0.00	0.00	0.00	4.19	9189.63	34.18	32.91	12.42	34.82	17.04	16.76	
13	0.00	0.00	0.00	0.00	3.56	8404.62	34.18	31.02	12.42	36.10	17.32	15.11	
14	0.00	0.00	0.00	0.00	4.63	7532.21	32.91	29.77	12.69	27.92	17.32	12.95	
15	0.00	0.00	0.00	0.00	8.10	6517.64	32.91	29.77	13.22	23.39	17.04	11.38	
16	0.00	0.32	0.00	0.00	9.84	5097.64	32.91	29.77	14.02	24.28	17.04	11.12	
17	0.00	0.61	0.00	0.00	10.35	3528.52	32.28	29.15	14.02	29.15	16.49	10.35	
18	0.00	1.08	0.00	0.00	11.64	2630.08	31.65	29.15	15.11	31.02	15.66	10.09	
19	0.00	1.25	0.00	0.00	11.12	2018.25	31.65	28.53	16.76	31.65	14.83	11.90	
20	0.00	1.43	0.00	0.00	9.09	1588.10	31.02	27.92	19.59	30.39	12.95	16.76	
21	0.00	1.79	0.00	0.00	10.60	1331.22	31.02	28.53	22.80	29.77	9.84	23.99	
22	0.00	2.16	0.00	0.00	11.12	1190.81	32.28	27.92	27.31	27.92	7.38	39.35	
23	0.00	1.61	0.00	0.00	12.69	943.53	34.18	27.31	30.39	24.88	5.07	25.49	
24	0.00	1.61	0.00	0.00	14.29	816.97	34.82	27.31	26.70	21.62	2.94	12.42	
25	0.00	3.15	0.00	0.00	19.59	821.59	34.18	27.31	24.28	19.02	2.94	5.97	
26	0.00	5.75	0.00	0.00	64.81	722.12	36.10	27.92	23.69	16.21	2.55	4.19	
27	0.00	6.91	0.00	0.61	98.52	353.03	36.10	28.53	24.28	13.22	0.76	5.29	
28	0.00	6.20	0.00	1.97	56.30	252.39	34.82	28.53	23.99	12.42	0.08	5.52	
29	0.00	7.14	0.00	2.74	30.39	152.95	33.54	28.53	23.09	13.22	0.00	4.63	
30	0.00	12.42	0.00	8.10	663.85	43.31	33.54	27.92	22.21	13.75		4.41	
31		23.09		9.09	2904.06		34.18		21.92	11.12		5.07	
Total	5.41	76.52	125.00	22.51	4019.13	157824.11	1072.49	922.51	593.71	672.99	320.90	317.46	165972.74
Mean	0.18	2.47	4.17	0.73	129.65	5260.80	34.60	30.75	19.15	21.71	11.07	10.24	453.48
Max	3.98	23.09	32.91	9.09	2904.06	11087.11	41.98	35.46	30.39	36.10	17.32	39.35	11087.11
Min	0.00	0.00	0.00	0.00	1.61	43.31	27.92	27.31	12.42	11.12	0.00	0.00	0.00



## WATER YEAR : 2019

## 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 Chumpho	Changwat Chaiyaphum
Drainage Area	323 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2007-2019		
Number of observation	241		
R-Square	0.8313		
Remarks	Continued Sediment Station		

$$QS = 5.8578 QW^{1.34160}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.83	3.08	2.50	604.21	4.64	1.95	0.86	0.00	0.00	0.00	
2	0.01	0.00	1.71	2.69	2.31	122.45	4.34	1.95	0.86	0.00	0.00	0.00	
3	0.01	0.00	1.49	2.31	2.07	193.54	4.13	1.83	0.86	0.00	0.00	0.00	
4	0.03	0.00	1.16	2.19	1.95	51.85	3.70	1.83	0.68	0.00	0.00	0.00	
5	0.03	0.00	1.06	1.95	1.83	43.80	3.49	1.83	0.68	0.00	0.00	0.00	
6	0.05	0.00	1.06	1.83	1.71	32.18	3.29	1.83	0.68	0.00	0.00	0.00	
7	0.05	0.00	1.06	1.71	1.60	18.96	3.29	1.83	0.59	0.00	0.00	0.00	
8	0.05	0.00	1.06	1.49	1.49	20.03	3.29	1.83	0.50	0.00	0.00	0.00	
9	0.05	0.00	1.06	1.16	1.38	16.87	6.17	1.83	0.42	0.00	0.00	0.00	
10	0.08	0.00	1.06	1.06	1.27	14.85	6.82	1.83	0.23	0.00	0.00	0.00	
11	0.08	0.00	0.96	0.96	1.06	10.55	7.15	1.71	0.20	0.00	0.00	0.00	
12	0.08	0.00	0.96	0.86	0.77	8.67	7.48	1.71	0.20	0.00	0.00	0.00	
13	0.11	2.50	0.96	0.77	0.23	7.48	7.48	1.71	0.20	0.00	0.00	0.00	
14	0.13	4.64	0.96	0.68	0.20	9.29	9.91	1.71	0.20	0.00	0.00	0.00	
15	0.13	2.31	0.96	1.83	5.24	5.86	9.91	1.71	0.20	0.00	0.00	0.00	
16	0.17	1.95	0.96	0.50	5.55	5.24	8.67	1.71	0.20	0.00	0.00	0.00	
17	0.17	1.83	0.96	0.42	5.24	4.93	8.07	1.60	0.20	0.00	0.00	0.00	
18	0.20	1.83	0.86	0.34	5.55	4.64	5.86	1.60	0.17	0.00	0.00	0.00	
19	0.20	1.71	0.86	0.27	5.86	4.64	4.93	1.60	0.13	0.00	0.00	0.00	
20	0.20	1.71	0.86	0.27	6.49	10.55	4.34	1.60	0.13	0.00	0.00	0.00	
21	0.23	1.60	0.77	0.05	6.17	56.83	4.13	1.60	0.11	0.00	0.00	0.00	
22	0.23	1.60	0.77	0.00	5.24	36.24	3.70	1.60	0.11	0.00	0.00	0.00	
23	0.27	1.49	0.68	0.00	2.50	28.24	3.70	1.49	0.11	0.00	0.00	0.00	
24	0.27	1.95	0.50	0.00	11.19	36.24	3.49	1.49	0.11	0.00	0.00	0.00	
25	0.27	2.19	0.34	0.08	10.55	9.91	3.29	1.49	0.03	0.00	0.00	0.00	
26	0.23	2.31	0.34	0.00	13.86	6.49	3.08	1.27	0.03	0.00	0.00	0.00	
27	0.20	3.49	1.16	0.17	37.62	5.55	2.31	1.27	0.01	0.00	0.00	0.00	
28	0.11	4.13	5.86	3.08	30.85	4.93	2.31	1.16	0.01	0.00	0.00	0.00	
29	0.00	1.95	6.49	2.19	8.07	4.93	2.31	1.16	0.01	0.00	0.00	0.00	
30	0.00	1.27	3.91	1.27	65.40	3.70	2.07	1.16	0.00	0.00	0.00	0.00	
31		1.16		1.16	1730.89		2.07		0.00	0.00		0.00	
Total	3.64	41.62	42.67	34.37	1976.64	1383.65	149.42	48.89	8.72	0.00	0.00	0.00	3689.62 Tonday
Mean	0.12	1.34	1.42	1.11	63.76	46.12	4.82	1.63	0.28	0.00	0.00	0.00	10.08 Ton/day
Max	0.27	4.64	6.49	3.08	1730.89	604.21	9.91	1.95	0.86	0.00	0.00	0.00	1730.89 Ton/day
Min	0.00	0.00	0.34	0.00	0.20	3.70	2.07	1.16	0.00	0.00	0.00	0.00	0.00 Ton/day



**WATER YEAR : 2019****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.

	<b>Ban</b> Na Charoen	<b>Amphoe</b> Nong Bua Daeng	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	744 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2004-2019		
<b>Number of observation</b>	264		
<b>R-Square</b>	0.8006		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.2257 QW^{1.13940}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	6.62	9.37	2.61	272.93	12.36	5.51	2.39	0.00	0.00	0.00	
2	0.00	0.00	6.78	8.75	3.15	186.29	11.71	5.51	2.08	0.00	0.00	0.00	
3	0.00	0.00	7.11	8.13	3.48	151.23	11.92	5.51	1.87	0.00	0.00	0.00	
4	0.00	0.00	8.54	8.13	3.60	76.50	12.36	5.51	1.36	0.00	0.00	0.00	
5	0.00	0.00	11.28	11.06	4.27	39.94	12.14	5.51	1.17	0.00	0.00	0.00	
6	0.00	0.00	22.04	9.37	4.89	33.45	9.79	5.51	0.98	0.00	0.00	0.00	
7	0.00	0.00	15.43	7.92	5.98	28.37	6.78	5.51	0.98	0.00	0.00	0.00	
8	0.00	0.00	14.54	7.43	5.98	24.56	5.20	5.35	0.88	0.00	0.00	0.00	
9	0.00	0.00	12.79	6.94	5.35	19.54	4.27	5.35	0.60	0.00	0.00	0.00	
10	0.00	0.00	11.49	6.46	4.73	18.17	4.27	5.20	0.52	0.00	0.00	0.00	
11	0.00	0.04	8.75	5.35	3.93	16.82	6.30	5.04	0.40	0.00	0.00	0.00	
12	0.00	0.13	5.51	5.98	3.82	17.36	11.49	5.04	0.40	0.00	0.00	0.00	
13	0.00	0.08	5.20	5.83	3.71	18.99	15.43	4.73	0.34	0.00	0.00	0.00	
14	0.00	0.29	5.04	5.35	3.60	22.87	14.32	4.73	0.23	0.00	0.00	0.00	
15	0.00	2.82	5.04	4.73	3.60	18.99	13.23	4.62	0.23	0.00	0.00	0.00	
16	0.00	4.62	5.83	4.16	3.60	15.21	11.92	4.39	0.23	0.00	0.00	0.00	
17	0.00	6.30	8.33	3.93	3.60	13.44	10.85	4.27	0.23	0.00	0.00	0.00	
18	0.00	5.35	8.54	3.60	3.37	12.36	10.21	4.27	0.13	0.00	0.00	0.00	
19	0.00	4.73	8.33	2.82	3.71	25.70	9.16	4.27	0.04	0.00	0.00	0.00	
20	0.00	4.73	8.13	2.82	4.73	63.23	8.95	4.16	0.00	0.00	0.00	0.00	
21	0.00	4.50	5.35	2.72	4.73	90.73	8.33	3.82	0.00	0.00	0.00	0.00	
22	0.00	4.39	5.04	2.72	4.62	63.70	7.76	3.71	0.00	0.00	0.00	0.00	
23	0.00	4.16	5.35	2.61	4.73	44.36	7.27	3.37	0.00	0.00	0.00	0.00	
24	0.00	4.16	5.20	2.61	7.43	29.71	6.94	3.26	0.00	0.00	0.00	0.00	
25	0.00	4.16	4.89	2.61	8.33	24.28	6.62	3.04	0.00	0.00	0.00	0.00	
26	0.00	4.05	4.62	2.39	9.58	20.37	6.46	2.93	0.00	0.00	0.00	0.00	
27	0.00	4.05	4.73	2.18	9.79	16.55	6.14	2.93	0.00	0.00	0.00	0.00	
28	0.00	4.05	5.67	2.08	10.00	15.43	5.98	2.82	0.00	0.00	0.00	0.00	
29	0.00	5.51	8.33	2.29	11.06	14.54	5.83	2.82	0.00	0.00	0.00	0.00	
30	0.00	6.14	8.95	3.15	31.41	14.10	5.83	2.50	0.00	0.00	0.00	0.00	
31		5.67		3.48	404.07		5.67		0.00	0.00		0.00	
Total	0.00	79.93	243.45	156.97	587.46	1409.72	275.49	131.19	15.06	0.00	0.00	0.00	2899.27 Tonday
Mean	0.00	2.58	8.11	5.06	18.95	46.99	8.89	4.37	0.49	0.00	0.00	0.00	7.92 Ton/day
Max	0.00	6.30	22.04	11.06	404.07	272.93	15.43	5.51	2.39	0.00	0.00	0.00	404.07 Ton/day
Min	0.00	0.00	4.62	2.08	2.61	12.36	4.27	2.50	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Nang Dad Khok	<b>Amphoe</b> Nong Bua Daeng	<b>Changwat</b> Chaiyaphum
<b>Drainage Area</b>	508 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2004-2019		
<b>Number of observation</b>	302		
<b>R-Square</b>	0.8311		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.0703 QW^{1.37240}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.16	2.16	14.31	10.04	1.49	1086.15	4.93	2.49	1.36	1.08	0.96	0.00	
2	2.02	2.02	31.87	7.96	3.52	493.07	5.53	2.49	1.36	1.08	0.96	0.00	
3	1.93	1.79	27.28	7.96	6.46	245.34	5.53	2.40	1.36	1.08	0.96	0.00	
4	2.02	1.57	9.47	60.20	3.00	175.39	6.02	2.40	1.36	1.08	0.89	0.00	
5	1.93	1.70	4.64	58.81	1.93	117.07	5.53	2.40	1.36	1.08	0.78	0.00	
6	1.93	1.57	4.35	18.38	1.57	73.07	6.02	2.49	1.36	1.08	0.61	0.00	
7	1.79	1.36	24.51	8.98	1.79	52.00	6.46	2.49	1.36	1.08	0.61	0.00	
8	1.57	1.08	10.04	4.64	1.70	39.11	7.96	2.49	1.36	1.08	0.61	0.00	
9	1.57	1.16	7.43	2.49	1.79	34.24	7.96	2.40	1.28	1.08	0.54	0.00	
10	1.57	1.79	6.02	2.16	1.93	26.35	7.96	2.40	1.28	1.08	0.45	0.00	
11	1.36	4.64	5.23	3.26	8.43	16.72	12.01	2.02	1.28	1.08	0.39	0.07	
12	1.36	6.46	4.35	2.49	7.96	10.54	25.43	2.02	1.28	1.08	0.30	0.07	
13	1.49	4.93	3.26	1.93	4.64	8.98	23.61	2.02	1.28	1.08	0.30	0.07	
14	1.36	10.54	3.00	1.57	2.02	12.77	17.55	2.02	1.28	1.08	0.30	0.07	
15	1.28	21.83	3.00	1.57	2.25	9.47	13.53	2.02	1.28	1.08	0.30	0.07	
16	1.36	14.31	8.43	1.49	2.25	8.43	9.47	2.02	1.28	1.08	0.30	0.07	
17	1.36	5.53	21.83	1.36	2.16	7.96	5.23	1.93	1.28	1.08	0.30	0.07	
18	4.07	2.49	14.31	1.49	2.16	7.43	4.07	1.93	1.28	1.08	0.25	0.07	
19	3.79	2.16	8.43	1.28	2.16	7.43	3.26	1.93	1.28	1.08	0.25	0.07	
20	3.26	2.16	2.74	1.16	6.46	22.71	2.74	1.79	1.28	1.08	0.25	0.07	
21	2.74	2.02	2.02	1.16	6.46	48.03	2.74	1.79	1.28	0.96	0.13	0.13	
22	2.49	2.49	1.93	1.08	6.46	54.70	2.64	1.79	1.16	0.96	0.13	0.13	
23	2.40	5.53	1.70	0.96	50.67	39.11	2.40	1.79	1.16	0.96	0.13	0.13	
24	2.25	34.24	1.93	0.96	33.05	19.23	2.25	1.70	1.16	0.96	0.07	0.13	
25	2.02	39.11	21.83	1.36	22.71	14.31	2.16	1.70	1.16	0.96	0.03	0.13	
26	4.64	25.43	13.53	2.64	60.20	10.04	1.79	1.57	1.16	0.96	0.00	0.13	
27	4.07	48.03	74.54	2.64	91.24	8.43	1.57	1.57	1.16	0.96	0.00	0.13	
28	3.26	35.44	73.07	2.49	45.43	6.46	2.16	1.57	1.16	0.96	0.00	0.13	
29	1.93	9.47	30.71	1.70	31.87	5.23	2.40	1.49	1.16	0.96	0.00	0.13	
30	1.79	5.23	12.01	1.28	60.20	4.07	2.40	1.36	1.16	0.96		0.13	
31		4.64		1.08	765.19		2.49		1.08	0.96		0.13	
<b>Total</b>	66.77	302.88	447.77	216.57	1239.15	2663.84	205.80	60.48	39.04	32.16	10.80	2.13	5287.39 Tonday
<b>Mean</b>	2.23	9.77	14.93	6.99	39.97	88.79	6.64	2.02	1.26	1.04	0.37	0.07	14.45 Ton/day
<b>Max</b>	4.64	48.03	74.54	60.20	765.19	1086.15	25.43	2.49	1.36	1.08	0.96	0.13	1086.15 Ton/day
<b>Min</b>	1.28	1.08	1.70	0.96	1.49	4.07	1.57	1.36	1.08	0.96	0.00	0.00	0.00 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban</b> Kui Chuak	<b>Amphoe</b> Kosum Phisai	<b>Changwat</b> Maha Sarakham
<b>Drainage Area</b>	29,265 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2004-Cont'd		
<b>Actual Measurement</b>	2004-Cont'd		
<b>Using Rating Curve Water Year</b>	2005-2019		
<b>Number of observation</b>	298		
<b>R-Square</b>	0.8380		
<b>Remarks</b>	Continued Sediment Station		

QS = 4.5802 QW<sup>1.08340</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.62	11.29	85.12	3.84	4.58	334.31	11.83	2.40	3.11	5.08	2.40	1.93	
2	7.11	11.29	47.13	8.66	6.59	736.68	15.06	2.16	3.35	4.58	2.40	1.93	
3	7.62	10.76	62.14	8.66	6.09	1998.19	9.18	2.40	3.35	4.58	2.40	1.93	
4	8.14	10.76	87.85	9.18	6.09	2440.29	8.14	2.16	3.35	4.58	2.16	1.93	
5	8.14	10.23	83.75	9.18	6.09	2537.79	7.62	2.40	3.35	4.58	2.16	1.93	
6	8.14	10.76	63.48	8.14	6.09	2689.04	9.71	2.40	3.35	4.58	2.16	1.93	
7	8.14	10.76	41.22	6.59	6.59	2440.29	8.66	2.40	3.35	4.33	2.16	1.93	
8	8.14	10.23	27.33	6.09	7.11	2020.07	7.11	2.16	3.35	4.09	2.16	1.93	
9	9.18	10.23	20.57	6.59	7.11	1464.81	6.09	2.40	3.35	4.09	2.16	1.93	
10	9.71	9.71	13.97	6.59	7.11	989.27	6.09	2.40	3.35	4.09	2.16	1.93	
11	8.66	10.23	13.43	6.09	6.59	691.45	4.33	2.40	3.35	4.09	2.16	1.93	
12	9.18	10.23	13.43	7.11	6.59	483.88	3.35	2.40	3.60	3.84	1.93	1.93	
13	9.71	10.23	11.83	12.36	6.59	389.32	4.58	2.40	3.60	3.84	1.93	2.16	
14	9.71	10.23	7.62	11.29	6.59	320.66	4.58	2.40	3.60	3.84	1.93	2.40	
15	10.23	10.23	7.62	11.29	6.59	233.11	4.58	2.40	3.60	3.84	1.93	2.40	
16	10.23	10.23	6.59	11.29	6.59	169.59	2.87	2.40	3.60	3.84	1.93	2.40	
17	10.23	10.76	4.58	11.29	6.09	116.97	2.87	2.40	3.60	3.84	1.93	2.40	
18	10.76	11.29	4.58	10.76	5.58	107.19	2.87	2.40	3.84	3.84	1.93	2.40	
19	10.76	11.29	4.58	10.76	8.14	67.50	2.87	2.40	4.09	3.84	1.93	2.40	
20	10.76	11.29	4.58	9.18	7.11	62.14	2.87	2.40	4.33	3.60	1.93	2.40	
21	10.76	11.29	4.58	7.11	6.09	59.48	2.87	2.40	4.58	3.11	1.93	2.16	
22	10.23	11.83	4.58	7.11	5.58	48.32	2.87	2.40	4.33	2.87	1.93	2.40	
23	10.76	11.29	5.08	7.11	6.59	48.32	2.63	2.40	4.58	2.87	1.93	2.40	
24	10.76	11.83	6.09	8.14	5.58	111.37	2.40	2.40	5.08	2.63	1.93	2.40	
25	10.76	11.29	6.09	8.66	5.08	136.70	2.40	2.63	4.58	2.63	1.93	2.40	
26	10.76	12.90	6.09	7.62	5.08	135.28	2.16	2.87	5.08	2.63	1.93	2.40	
27	10.76	22.80	4.58	5.08	4.58	139.54	2.16	3.35	4.58	2.63	1.93	2.40	
28	11.29	41.22	2.63	5.58	5.08	118.37	2.16	3.35	5.08	2.40	1.93	2.40	
29	11.29	58.15	2.63	6.09	5.58	79.66	2.16	3.35	5.08	2.40	1.93	2.40	
30	11.29	85.12	2.63	6.09	6.09	25.06	2.16	2.87	5.08	2.40		2.40	
31		94.73		6.59	28.47		2.16		5.08	2.16		2.40	
Total	290.83	584.48	656.38	250.12	213.71	21194.65	151.39	75.30	123.60	111.72	59.22	68.28	23779.68 Tonday
Mean	9.69	18.85	21.88	8.07	6.89	706.49	4.88	2.51	3.99	3.60	2.04	2.20	64.97 Ton/day
Max	11.29	94.73	87.85	12.36	28.47	2689.04	15.06	3.35	5.08	5.08	2.40	2.40	2689.04 Ton/day
Min	7.11	9.71	2.63	3.84	4.58	25.06	2.16	2.16	3.11	2.16	1.93	1.93	1.93 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Phong Sawai</b>	<b>Amphoe</b>	<b>Tha Tum</b>	<b>Changwat</b>	<b>Surin</b>
<b>Drainage Area</b>	34,654 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.9185					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 5.4057 QW^{0.97530}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	18.34	9.33	2.00	51.07	1066.75	86.67	76.33	42.08	13.21	6.98	
2	0.00	0.00	18.34	9.33	2.00	123.35	1041.84	108.72	80.77	40.58	13.21	6.72	
3	0.00	0.00	17.83	9.59	2.00	159.76	962.86	101.38	79.29	37.57	12.70	6.46	
4	0.00	0.00	17.32	9.33	2.00	274.07	798.34	102.85	77.81	36.06	12.18	6.46	
5	0.00	0.00	16.81	9.07	1.89	570.72	524.75	99.91	74.85	34.56	12.18	6.20	
6	0.00	0.00	16.30	8.81	1.89	857.75	416.46	114.58	73.37	31.53	11.66	6.20	
7	0.00	0.00	15.78	8.29	1.89	1041.84	348.30	86.67	73.37	30.02	11.66	6.20	
8	0.00	0.00	15.78	7.77	2.10	1146.92	231.02	68.93	71.89	26.99	11.15	5.93	
9	0.00	0.00	14.76	7.24	2.21	1156.13	216.63	62.99	68.93	26.99	11.15	5.67	
10	0.00	0.00	14.24	6.72	2.00	1083.35	262.61	64.48	65.96	23.95	10.63	5.41	
11	0.00	0.00	14.24	6.20	2.00	1004.45	274.07	64.48	65.96	22.42	10.37	5.19	
12	0.00	0.00	14.24	5.67	1.89	971.18	231.02	73.37	64.48	20.89	10.37	5.19	
13	0.00	0.00	14.24	5.19	1.78	962.86	248.26	83.72	64.48	20.39	10.11	4.98	
14	0.00	0.00	13.73	4.77	1.78	857.75	282.66	79.29	62.99	19.88	9.85	4.98	
15	0.00	0.00	14.24	4.35	1.89	790.90	311.24	77.81	61.50	19.37	9.59	4.77	
16	0.00	0.00	14.24	3.71	1.67	731.37	334.06	76.33	60.01	18.85	9.59	4.56	
17	0.00	0.00	14.24	3.28	1.56	630.61	311.24	76.33	60.01	18.34	9.33	4.56	
18	0.00	0.00	14.76	2.96	1.45	638.09	334.06	83.72	58.53	17.83	8.81	4.35	
19	0.00	0.00	14.24	2.75	1.56	671.71	351.14	79.29	58.53	17.83	8.55	4.35	
20	0.00	0.00	13.73	2.32	1.45	649.30	302.67	77.81	57.04	17.32	8.29	4.35	
21	0.00	0.00	13.21	2.10	1.45	697.82	259.74	76.33	55.55	16.81	8.29	4.35	
22	0.00	0.00	12.70	2.00	1.23	671.71	268.34	74.85	54.05	16.81	8.29	4.14	
23	0.00	0.00	12.18	1.78	1.34	753.71	248.26	73.37	52.56	16.30	8.03	3.92	
24	0.00	0.00	11.66	1.34	2.00	835.48	211.82	76.33	51.07	15.78	7.77	3.71	
25	0.00	0.00	11.15	1.56	2.96	880.00	251.13	105.79	49.57	15.78	7.77	3.50	
26	0.00	18.85	10.63	1.78	3.50	929.55	175.22	126.76	46.58	15.78	7.77	3.50	
27	0.00	17.83	10.37	1.67	3.71	971.18	144.25	99.91	49.57	15.27	7.51	3.28	
28	0.00	17.83	10.11	1.56	3.92	1004.45	146.19	85.19	46.58	15.27	7.51	3.18	
29	0.00	17.32	9.85	1.56	4.14	1037.69	116.04	82.24	43.58	14.76	7.24	3.07	
30	0.00	17.32	9.59	1.78	7.77	1054.30	73.37	77.81	42.08	14.24		2.96	
31		16.81		1.89	15.78		60.01		43.58	13.73		2.86	
Total	0.00	105.96	418.85	145.70	84.81	23209.07	10804.35	2547.91	1890.87	693.98	284.77	147.98	40334.25 Tonday
Mean	0.00	3.42	13.96	4.70	2.74	773.64	348.53	84.93	61.00	22.39	9.82	4.77	110.20 Ton/day
Max	0.00	18.85	18.34	9.59	15.78	1156.13	1066.75	126.76	80.77	42.08	13.21	6.98	1156.13 Ton/day
Min	0.00	0.00	9.59	1.34	1.23	51.07	60.01	62.99	42.08	13.73	7.24	2.86	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Satuk</b>	<b>Amphoe Satuk</b>	<b>Changwat Buri Ram</b>
<b>Drainage Area</b>	28,458 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2006-2019		
<b>Number of observation</b>	437		
<b>R-Square</b>	0.8294		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 11.6500 QW^{0.81950}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.27	11.84	9.80	5.72	5.72	20.22	369.89	60.07	15.35	4.34	0.00	0.00	
2	11.55	12.13	10.10	5.39	4.70	27.09	282.78	69.24	14.99	4.70	0.00	0.00	
3	11.55	12.13	8.90	5.04	3.62	27.88	224.63	65.34	14.26	4.34	0.00	0.00	
4	11.84	12.13	9.20	4.70	2.86	32.52	145.61	39.23	13.90	4.34	2.46	0.00	
5	11.84	12.13	8.60	4.34	1.62	51.96	91.10	28.66	12.97	3.98	6.38	0.00	
6	11.84	12.13	6.38	3.98	0.66	254.07	62.72	21.40	12.41	3.62	0.66	0.00	
7	11.84	12.13	6.71	3.62	0.00	411.73	61.40	19.54	11.55	3.24	0.00	0.00	
8	12.13	12.41	7.03	2.86	0.00	456.91	57.40	18.86	10.69	2.86	0.00	0.00	
9	12.13	12.13	7.67	2.05	2.86	494.86	57.40	18.17	10.10	2.46	0.00	0.00	
10	12.13	11.84	8.60	1.16	3.98	567.32	66.65	17.47	9.50	2.05	0.00	0.00	
11	12.13	11.84	10.69	0.00	3.98	564.88	101.89	17.82	9.20	1.62	0.00	0.00	
12	12.13	12.13	12.97	0.00	4.70	488.58	147.80	18.86	9.50	1.16	0.00	0.00	
13	12.13	12.13	15.71	0.00	4.34	317.78	167.17	18.51	9.50	0.66	0.00	0.00	
14	11.84	10.69	18.86	0.00	3.98	228.60	171.40	18.86	9.50	0.00	0.00	0.00	
15	11.84	10.69	23.87	0.00	3.62	212.62	141.22	19.20	9.50	0.00	0.00	0.00	
16	11.84	10.39	23.87	0.66	2.86	261.79	114.16	19.20	9.80	0.00	0.00	0.00	
17	11.84	10.39	19.88	0.00	2.05	363.19	111.85	19.20	9.80	0.00	0.00	0.00	
18	11.84	10.69	17.82	0.00	2.46	378.78	125.59	18.51	9.80	0.00	0.00	0.00	
19	11.84	10.69	16.06	1.62	2.05	338.38	130.10	18.86	9.80	0.00	0.00	0.00	
20	11.84	10.69	14.99	6.38	2.05	303.42	127.85	20.22	9.50	0.00	0.00	0.00	
21	11.84	10.98	13.53	5.72	5.39	282.78	91.10	34.04	8.90	0.00	0.00	0.00	
22	11.55	10.10	12.41	7.03	5.72	256.01	64.03	78.14	8.29	0.00	0.00	0.00	
23	11.55	10.10	11.55	5.72	5.39	244.34	58.74	83.75	7.67	0.00	0.00	0.00	
24	11.55	9.50	10.69	4.34	5.39	277.09	60.07	60.07	7.03	0.00	0.00	0.00	
25	11.84	9.20	9.80	4.34	5.39	342.92	61.40	42.85	6.71	0.00	0.00	0.00	
26	11.84	9.20	9.20	3.62	5.04	411.73	60.07	32.52	6.38	0.00	0.00	0.00	
27	11.84	9.50	8.60	3.24	4.70	486.49	58.74	23.05	6.06	0.00	0.00	0.00	
28	11.84	9.80	7.67	2.05	4.70	499.04	56.05	18.86	5.39	0.00	0.00	0.00	
29	11.84	10.10	7.03	4.70	7.03	482.29	56.05	17.47	5.04	0.00	0.00	0.00	
30	11.84	10.69	6.38	6.06	8.60	454.78	54.69	16.06	4.34	0.00		0.00	
31		10.98		5.72	15.35		42.85		4.34	0.00		0.00	
<b>Total</b>	354.92	341.48	354.57	100.06	130.81	9540.05	3422.40	954.03	291.77	39.37	9.50	0.00	15538.96 Tonday
<b>Mean</b>	11.83	11.02	11.82	3.23	4.22	318.00	110.40	31.80	9.41	1.27	0.33	0.00	42.46 Ton/day
<b>Max</b>	12.13	12.41	23.87	7.03	15.35	567.32	369.89	83.75	15.35	4.70	6.38	0.00	567.32 Ton/day
<b>Min</b>	11.27	9.20	6.38	0.00	0.00	20.22	42.85	16.06	4.34	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Chumchondeengam	<b>Amphoe</b> Mueang	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	107,345 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2010-Cont'd		
<b>Actual Measurement</b>	2010-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.8322		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.5723 QW^{1.06360}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.85	38.72	38.72	10.64	225.18	3735.03	11678.49	125.26	143.98	35.77	41.78	34.14	
2	2.57	46.49	37.44	12.44	268.31	4150.75	10676.22	118.03	143.98	35.22	39.04	34.68	
3	2.57	54.33	40.01	9.75	232.34	5163.92	9706.41	125.26	143.98	35.77	35.77	34.68	
4	2.85	59.60	43.89	9.75	207.35	7040.18	8635.63	133.56	150.95	34.68	34.68	34.14	
5	3.68	65.56	53.02	7.98	193.15	9031.83	7325.98	137.03	150.95	34.14	34.68	33.59	
6	4.52	72.22	68.88	7.11	175.49	10860.92	5808.58	122.85	154.44	33.08	34.68	33.08	
7	6.24	75.56	60.92	6.24	126.64	12749.64	3667.42	120.43	147.46	33.08	34.14	32.57	
8	7.98	60.92	53.02	9.75	85.65	15929.55	1699.11	120.43	140.50	33.08	34.14	33.08	
9	8.86	92.41	46.49	13.34	59.60	19577.40	1156.39	118.03	143.98	33.08	34.68	33.08	
10	8.86	56.96	40.01	19.76	161.44	21009.03	1156.39	125.26	154.44	32.57	35.22	33.08	
11	7.98	53.02	36.15	21.62	154.44	22107.82	1394.28	125.26	154.44	33.08	35.77	33.08	
12	5.38	49.09	32.32	25.99	154.44	22625.48	1378.34	120.43	147.46	33.08	35.77	34.14	
13	4.52	49.09	29.78	24.74	150.95	22955.28	1203.75	110.82	161.44	32.07	34.14	34.68	
14	4.81	53.02	25.99	24.74	150.95	22861.02	1030.67	115.62	175.49	32.07	33.59	34.68	
15	5.38	58.28	22.55	27.25	130.10	22437.16	905.86	120.43	175.49	32.07	32.57	34.14	
16	5.09	56.96	24.74	31.05	126.64	21778.77	797.48	110.82	186.08	31.56	32.57	34.14	
17	4.52	53.02	23.49	37.44	143.98	21093.43	735.94	113.22	193.15	31.56	32.07	34.14	
18	3.96	47.79	28.51	49.09	154.44	20343.91	689.99	125.26	203.80	31.56	31.56	34.14	
19	3.68	42.59	22.55	46.49	130.10	19633.38	705.29	122.85	203.80	31.56	31.56	34.14	
20	4.24	42.59	20.69	43.89	116.31	19036.23	596.74	118.03	203.80	32.07	32.07	34.14	
21	5.38	41.30	17.91	43.89	137.03	18663.58	659.45	130.10	193.15	33.59	33.08	33.59	
22	7.98	41.30	16.07	56.96	161.44	18237.91	766.68	125.26	193.15	34.14	33.59	33.59	
23	9.75	41.30	14.25	99.21	161.44	17750.16	859.31	122.85	200.25	34.14	32.57	33.59	
24	10.64	37.44	12.44	164.95	241.30	17158.97	936.97	120.43	203.80	34.14	32.57	34.68	
25	13.34	31.05	12.44	175.49	478.14	16608.29	1015.01	127.68	196.70	35.22	32.07	34.68	
26	16.07	23.49	10.64	186.08	670.89	16058.70	751.30	137.03	147.46	36.86	32.57	34.68	
27	18.83	21.62	9.75	193.15	981.80	15349.14	659.45	143.98	143.98	38.50	33.08	33.59	
28	21.62	37.44	9.75	150.95	1564.30	14609.42	94.11	140.50	101.25	40.14	33.59	34.14	
29	25.99	49.09	9.75	109.45	2117.44	13775.90	110.82	140.50	61.65	40.69	34.14	35.22	
30	32.32	47.79	10.64	95.80	2897.59	12726.89	140.50	140.50	51.58	40.69		36.31	
31		42.59		157.94	3439.76		130.10		42.88	41.24		36.86	
Total	262.46	1542.63	872.81	1872.93	15998.63	485059.69	77072.66	3757.71	4815.46	1070.50	987.74	1058.47	594371.69 Tonday
Mean	8.75	49.76	29.09	60.42	516.08	16168.66	2486.21	125.26	155.34	34.53	34.06	34.14	1623.97 Ton/day
Max	32.32	92.41	68.88	193.15	3439.76	22955.28	11678.49	143.98	203.80	41.24	41.78	36.86	22955.28 Ton/day
Min	2.57	21.62	9.75	6.24	59.60	3735.03	94.11	110.82	42.88	31.56	31.56	32.57	2.57 Ton/day





**WATER YEAR : 2019****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.

	<b>Ban Pho Tak</b>	<b>Amphoe Phibul Mangsahan</b>	<b>Changwat Si Sa Ket</b>
<b>Drainage Area</b>	115,687 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2009-Cont'd		
<b>Actual Measurement</b>	2009-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8897		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9580 QW^{1.18990}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	110.34	125.08	33.84	798.70	7777.68	13511.75	1536.85	86.48	21.76	22.14	19.53	
2	0.00	145.17	120.13	43.09	950.92	8745.90	11694.16	74.92	84.15	20.64	22.89	19.90	
3	0.00	197.29	115.22	39.97	798.70	11976.17	9980.55	77.21	84.15	20.27	21.39	20.27	
4	0.00	237.93	130.06	29.85	683.40	18083.41	8599.52	81.82	86.48	20.27	19.90	20.27	
5	8.08	271.26	165.71	25.95	657.46	22462.30	7111.08	81.82	86.48	19.90	19.90	19.90	
6	14.83	279.70	213.40	24.03	567.97	25538.49	4949.22	77.21	84.15	19.53	19.90	19.53	
7	24.03	271.26	213.40	25.95	444.01	27111.25	3166.81	76.06	85.31	19.16	19.53	19.53	
8	29.85	254.51	181.39	31.84	288.19	28698.71	1353.59	76.06	82.98	19.53	19.53	19.90	
9	31.84	325.39	145.17	39.97	325.39	30219.91	950.92	76.06	85.31	18.79	19.90	19.90	
10	31.84	205.32	120.13	59.20	567.97	31672.42	1054.65	78.36	88.82	18.43	20.27	19.16	
11	31.84	173.52	105.50	69.24	517.81	32891.04	1441.09	79.51	90.00	18.43	20.64	19.16	
12	25.95	150.26	100.69	76.06	530.28	33462.23	1397.23	77.21	86.48	19.16	21.01	19.53	
13	18.43	150.26	93.54	82.98	505.38	33543.95	1181.31	72.64	92.36	18.79	20.64	19.53	
14	16.62	165.71	86.48	86.48	517.81	33217.24	1033.77	73.77	95.91	18.06	19.90	20.27	
15	24.03	189.31	72.64	90.00	431.89	32646.73	909.92	77.21	97.10	18.06	19.53	20.64	
16	18.43	197.29	79.51	100.69	431.89	31510.50	869.21	72.64	99.49	18.43	18.79	20.27	
17	18.43	181.39	72.64	105.50	493.01	30219.91	832.16	73.77	103.09	18.06	18.06	20.27	
18	14.83	145.17	86.48	165.71	542.80	28938.06	815.40	78.36	106.70	17.70	17.34	20.27	
19	13.09	125.08	72.64	150.26	468.41	27506.76	848.97	77.21	106.70	17.70	17.34	19.90	
20	13.09	125.08	65.86	145.17	444.01	26559.08	683.40	74.92	105.50	18.06	18.06	19.90	
21	18.43	125.08	59.20	150.26	468.41	26165.79	716.05	81.82	101.89	18.79	18.79	20.27	
22	27.89	125.08	49.43	197.29	530.28	25225.75	950.92	79.51	103.09	19.53	19.53	19.90	
23	31.84	120.13	43.09	372.13	517.81	24524.36	1288.55	78.36	105.50	19.53	19.53	19.53	
24	33.84	115.22	33.84	593.32	832.16	22906.00	1288.55	76.06	106.70	19.90	18.79	20.27	
25	43.09	100.69	33.84	683.40	1288.55	21725.91	1266.98	79.51	104.29	20.64	18.79	21.01	
26	49.43	79.51	33.84	699.69	2122.55	20483.19	909.92	81.82	87.65	21.76	18.79	20.64	
27	62.52	76.06	31.84	657.46	2735.54	19180.38	889.53	85.31	84.15	22.89	18.79	20.27	
28	69.24	115.22	33.84	517.81	3637.41	18017.59	1202.64	82.98	68.11	23.65	19.53	19.90	
29	86.48	165.71	39.97	606.07	4581.17	16774.47	1419.13	85.31	42.04	22.14	19.16	20.64	
30	97.10	145.17	33.84	360.35	6547.51	14969.22	1588.81	85.31	27.50	22.14		21.39	
31		135.06		555.36	7681.88		1693.55		25.18	21.76		22.89	
Total	855.07	5204.17	2758.40	6818.92	41909.27	732754.40	85599.34	3809.60	2693.74	613.46	568.36	624.34	884209.07 Tonday
Mean	28.50	167.88	91.95	219.97	1351.91	24425.15	2761.27	126.99	86.89	19.79	19.60	20.14	2415.87 Ton/day
Max	97.10	325.39	213.40	699.69	7681.88	33543.95	13511.75	1536.85	106.70	23.65	22.89	22.89	33543.95 Ton/day
Min	0.00	76.06	31.84	24.03	288.19	7777.68	683.40	72.64	25.18	17.70	17.34	19.16	0.00 Ton/day





## WATER YEAR : 2019

## 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

	<b>Ban</b> Tha Maprang	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	153	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.9346		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.9158 QW^{1.50490}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.09	0.20	25.27	3.84	2.49	0.26	0.09	0.02	0.01	
2	0.00	0.00	0.01	1.19	0.20	13.73	7.06	2.92	0.24	0.09	0.02	0.00	
3	0.00	0.00	0.01	59.76	0.22	160.42	5.91	2.49	0.22	0.08	0.01	0.00	
4	0.00	0.00	0.01	97.64	0.20	150.75	10.89	2.28	0.20	0.08	0.01	0.00	
5	0.00	0.00	0.01	14.85	0.18	34.86	19.62	1.70	0.20	0.08	0.01	0.00	
6	0.01	0.00	0.01	4.84	0.32	18.39	28.98	1.35	0.20	0.08	0.01	0.00	
7	0.00	0.00	0.07	2.70	0.45	9.55	16.00	1.03	0.20	0.07	0.01	0.00	
8	0.00	0.00	10.89	1.70	0.26	6.48	19.62	0.85	0.20	0.07	0.01	0.00	
9	0.00	0.00	5.10	1.35	0.26	9.55	14.85	0.85	0.18	0.07	0.01	0.00	
10	0.00	0.00	4.33	0.76	0.94	34.86	19.62	0.68	0.17	0.05	0.01	0.00	
11	0.00	0.00	3.14	0.52	10.21	32.86	18.39	0.38	0.17	0.05	0.01	0.00	
12	0.00	0.00	3.14	0.24	13.73	10.21	19.62	0.26	0.17	0.04	0.01	0.00	
13	0.00	0.11	0.85	0.20	23.49	6.48	56.29	0.32	0.17	0.04	0.01	0.00	
14	0.00	0.68	0.24	0.18	63.30	4.84	28.98	0.45	0.17	0.03	0.01	0.01	
15	0.00	0.08	0.12	0.12	93.67	6.48	17.18	0.45	0.17	0.03	0.00	0.02	
16	0.00	0.02	0.60	0.07	359.18	4.33	11.58	0.32	0.17	0.03	0.00	0.03	
17	0.00	0.02	5.91	0.07	1026.27	5.10	10.21	0.24	0.17	0.03	0.00	0.04	
18	0.00	0.02	6.48	0.07	359.18	5.10	8.28	0.26	0.17	0.02	0.00	0.08	
19	0.00	0.01	2.28	0.07	27.11	4.33	6.48	0.45	0.17	0.02	0.00	0.08	
20	0.00	0.01	0.85	0.12	41.08	4.58	5.37	0.60	0.17	0.02	0.00	0.08	
21	0.01	0.00	0.26	0.60	146.16	5.37	4.84	0.52	0.15	0.02	0.01	0.08	
22	0.01	0.00	0.20	0.76	34.86	12.64	4.33	0.38	0.15	0.02	0.01	0.07	
23	0.01	0.00	0.20	0.26	28.98	11.58	3.37	0.32	0.15	0.02	0.01	0.04	
24	0.01	0.00	0.20	0.22	10.89	34.86	3.37	0.45	0.14	0.02	0.01	0.01	
25	0.01	0.00	0.18	0.22	18.39	11.58	3.37	0.38	0.12	0.02	0.01	0.01	
26	0.00	0.00	0.20	0.22	146.16	7.06	3.37	0.26	0.11	0.02	0.01	0.01	
27	0.00	0.00	0.22	0.22	34.86	5.10	2.92	0.26	0.09	0.02	0.01	0.01	
28	0.00	0.00	0.20	0.22	11.58	4.84	2.92	0.26	0.09	0.02	0.01	0.01	
29	0.00	0.00	0.17	0.24	7.06	4.58	2.70	0.26	0.09	0.02	0.01	0.02	
30	0.00	0.00	0.15	0.26	6.48	3.84	2.49	0.26	0.09	0.02		0.03	
31		0.00		0.20	14.85		2.28		0.09	0.02		0.02	
Total	0.06	0.95	46.03	189.96	2480.72	649.62	364.73	23.72	5.04	1.29	0.25	0.66	3763.03 Tonday
Mean	0.00	0.03	1.53	6.13	80.02	21.65	11.77	0.79	0.16	0.04	0.01	0.02	10.28 Ton/day
Max	0.01	0.68	10.89	97.64	1026.27	160.42	56.29	2.92	0.26	0.09	0.02	0.08	1026.27 Ton/day
Min	0.00	0.00	0.00	0.07	0.18	3.84	2.28	0.24	0.09	0.02	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## MUN RIVER BASIN

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

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

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

	<b>Ban</b> Wang Chom Pu	<b>Amphoe</b> Kantharalak	<b>Changwat</b> Si Sa Ket
<b>Drainage Area</b>	562	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9328		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8903 QW^{1.37740}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.71	4.44	1.97	3.18	242.23	7.20	7.84	4.98	1.04	0.81	0.54	
2	0.00	0.75	4.44	1.86	3.61	671.89	4.78	7.84	4.64	1.02	0.79	0.54	
3	0.00	0.83	4.44	1.81	4.05	1191.96	4.18	8.51	4.25	1.00	0.79	0.54	
4	0.00	0.94	4.51	1.66	4.51	2178.21	3.67	8.51	3.80	0.98	0.77	0.52	
5	0.00	1.02	4.51	1.51	4.98	4762.72	6.57	8.51	3.37	0.96	0.77	0.52	
6	0.00	1.09	4.51	1.44	5.53	1403.89	22.30	9.18	3.06	0.94	0.75	0.52	
7	0.00	1.16	4.58	1.30	5.95	459.97	27.58	9.87	2.68	0.91	0.73	0.52	
8	0.00	1.23	4.58	1.13	5.95	266.16	68.15	10.57	2.60	0.89	0.73	0.52	
9	0.00	1.30	4.58	1.09	5.95	174.79	73.42	10.57	2.54	0.87	0.71	0.50	
10	0.00	1.41	4.58	1.02	5.95	131.45	56.29	9.18	2.49	0.87	0.69	0.50	
11	0.00	1.51	4.64	0.98	7.20	154.87	43.53	7.84	2.43	0.87	0.69	0.50	
12	0.00	1.59	4.64	0.94	8.51	290.70	34.58	7.20	2.37	0.85	0.67	0.50	
13	0.00	1.66	4.64	0.91	9.18	165.86	33.15	5.95	2.29	0.85	0.67	0.48	
14	0.00	1.76	4.64	0.87	9.87	103.23	30.89	5.88	2.10	0.83	0.65	0.48	
15	0.00	1.92	4.64	0.85	9.87	91.73	27.58	5.88	1.97	0.83	0.63	0.48	
16	0.00	2.07	4.78	0.83	10.57	111.10	28.67	5.88	1.81	0.83	0.61	0.46	
17	0.00	2.21	4.84	0.79	10.57	103.23	22.30	5.81	1.69	0.83	0.59	0.46	
18	0.00	2.32	4.51	0.77	11.29	91.73	18.31	5.81	1.51	0.81	0.59	0.46	
19	0.00	2.46	4.25	0.75	11.29	80.61	18.31	5.81	1.34	0.81	0.57	0.45	
20	0.00	2.57	3.99	0.75	11.29	75.20	13.65	5.74	1.20	0.81	0.57	0.45	
21	0.00	2.77	3.61	0.75	12.02	221.33	12.02	5.74	1.13	0.79	0.57	0.45	
22	0.00	3.12	3.37	0.77	12.02	506.34	12.02	5.74	1.13	0.79	0.57	0.45	
23	0.00	3.37	3.18	0.77	12.02	354.54	12.02	5.74	1.11	0.79	0.55	0.43	
24	0.00	3.55	3.00	0.77	12.76	364.41	11.29	5.67	1.11	0.79	0.55	0.43	
25	0.00	3.93	2.77	0.79	14.55	218.93	10.57	5.67	1.09	0.79	0.55	0.43	
26	0.00	4.05	2.63	0.79	18.31	144.09	9.87	5.67	1.09	0.79	0.54	0.43	
27	0.00	4.18	2.51	1.04	23.33	95.52	9.87	5.67	1.09	0.81	0.54	0.43	
28	0.00	4.18	2.37	1.54	27.58	62.99	9.18	5.60	1.07	0.81	0.54	0.41	
29	0.00	4.25	2.21	2.18	33.15	42.00	9.18	5.60	1.07	0.81	0.54	0.41	
30	0.00	4.31	2.13	2.49	36.03	27.58	8.51	5.46	1.07	0.81	0.54	0.41	
31		4.44		2.77	42.00		7.84		1.04	0.81		0.41	
Total	0.00	72.66	118.52	37.89	393.07	14789.26	657.48	208.94	65.12	26.59	18.73	14.63	16402.89 Tonday
Mean	0.00	2.34	3.95	1.22	12.68	492.98	21.21	6.96	2.10	0.86	0.65	0.47	44.82 Ton/day
Max	0.00	4.44	4.84	2.77	42.00	4762.72	73.42	10.57	4.98	1.04	0.81	0.54	4762.72 Ton/day
Min	0.00	0.71	2.13	0.75	3.18	27.58	3.67	5.46	1.04	0.79	0.54	0.41	0.00 Ton/day

**WATER YEAR : 2019****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 in front of Vaccine Serum Office.

	<b>Ban -</b>	<b>Amphoe</b>	<b>Pak Chong</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	713 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1981 - 1988,1991,1997 - Cont'd				
<b>Actual Measurement</b>	1981 - 1988,1991,1997 - Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	29				
<b>R-Square</b>	0.9118				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 2.1611 QW^{1.66040}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.14	0.80	0.47	1.14	0.75	89.22	29.23	8.62	1.88	1.62	1.06	0.75	
2	1.20	0.75	0.68	2.20	0.75	92.39	29.23	9.25	1.88	1.34	0.93	0.87	
3	1.14	0.75	1.06	19.14	0.68	145.12	40.02	9.89	2.20	1.28	0.93	1.00	
4	1.14	0.93	1.00	105.53	0.64	474.25	44.71	8.62	2.20	1.20	0.87	1.00	
5	1.14	0.75	0.75	74.02	0.75	264.08	76.97	8.00	2.20	1.14	0.75	1.00	
6	0.87	0.80	1.20	21.59	0.87	119.34	57.30	6.83	1.88	1.06	0.80	1.14	
7	0.64	0.80	3.91	11.52	0.80	86.09	76.97	6.27	1.62	1.00	0.80	1.62	
8	0.93	1.06	1.34	6.83	1.06	62.69	57.30	6.27	1.34	1.00	0.93	1.28	
9	0.80	1.14	0.87	4.33	1.88	54.69	59.97	5.22	1.34	1.00	0.93	1.20	
10	0.75	1.34	1.34	2.49	1.28	79.96	108.92	5.22	1.28	1.00	0.87	1.14	
11	0.80	1.00	6.83	1.62	4.72	115.83	79.96	4.33	1.28	1.00	0.87	1.14	
12	0.68	1.88	5.22	1.62	19.14	95.61	105.53	4.72	1.28	1.00	0.93	1.00	
13	0.64	3.91	3.17	1.20	37.75	59.97	505.90	4.72	1.28	1.00	1.00	0.68	
14	0.57	1.14	3.56	1.06	23.42	44.71	133.83	4.72	1.34	1.00	1.00	0.57	
15	0.53	1.14	1.62	1.00	23.42	44.71	86.09	4.72	1.34	1.00	0.93	1.20	
16	0.57	0.87	1.14	0.80	112.35	47.13	62.69	4.72	1.14	1.00	1.00	4.72	
17	0.75	1.14	1.14	0.80	546.43	40.02	49.60	4.33	1.28	1.00	0.93	1.88	
18	0.75	0.93	3.91	0.68	2133.71	52.12	40.02	3.56	1.88	1.00	0.93	1.88	
19	1.00	0.75	8.62	0.64	538.36	172.86	33.38	3.56	1.88	1.06	1.00	1.34	
20	0.75	0.68	5.22	0.64	115.83	133.83	27.23	3.91	1.88	1.06	1.14	1.14	
21	0.68	0.68	2.84	0.93	194.28	65.45	23.42	3.17	2.20	0.80	1.20	1.14	
22	0.57	0.68	1.28	2.49	210.87	83.00	20.35	4.33	1.88	0.93	1.14	1.14	
23	0.53	0.68	1.20	1.34	105.53	112.35	19.14	6.83	1.62	1.06	1.06	1.06	
24	0.57	0.75	1.88	1.34	92.39	466.62	16.81	6.83	1.62	1.00	0.75	0.93	
25	0.68	0.75	2.49	1.14	65.45	199.67	14.60	6.83	1.34	1.00	0.68	0.93	
26	0.68	0.57	1.34	1.06	156.77	108.92	13.54	6.83	1.34	1.00	0.80	0.93	
27	0.87	0.47	1.14	1.06	205.35	74.02	12.52	6.83	1.34	1.00	0.80	0.68	
28	1.00	0.38	1.06	1.06	102.18	52.12	11.52	6.27	1.62	1.00	0.87	0.47	
29	0.80	0.38	1.06	1.00	65.45	40.02	9.89	5.22	1.62	1.00	0.80	0.53	
30	0.68	0.47	1.06	0.87	52.12	33.38	9.25	2.84	1.34	1.00		0.43	
31		0.57		0.75	52.12		8.62		1.88	1.00		0.57	
Total	23.85	28.94	68.40	271.89	4867.10	3510.17	1864.51	173.46	50.20	32.55	26.70	35.36	10953.13 Tonday
Mean	0.80	0.93	2.28	8.77	157.00	117.01	60.15	5.78	1.62	1.05	0.92	1.14	29.93 Ton/day
Max	1.20	3.91	8.62	105.53	2133.71	474.25	505.90	9.89	2.20	1.62	1.20	4.72	2133.71 Ton/day
Min	0.53	0.38	0.47	0.64	0.64	33.38	8.62	2.84	1.14	0.80	0.68	0.43	0.38 Ton/day





**WATER YEAR : 2019****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.

	<b>Ban Na Hai</b>	<b>Amphoe</b> Trakan Phutphon <b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	424 sq.km.	
<b>Method of sampling</b>	Depth Integrating	
<b>Instrument Used</b>	US.D-49	
<b>Period of Available Records</b>	1997-Cont'd	
<b>Actual Measurement</b>	1997-Cont'd	
<b>Using Rating Curve Water Year</b>	2019	
<b>Number of observation</b>	20	
<b>R-Square</b>	0.9356	
<b>Remarks</b>	Continued Sediment Station	

$$QS = 3.1516 QW^{1.14240}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	2.55	2.10	338.76	1739.06	11.06	2.44	2.27	1.69	0.50	0.00	
2	0.00	0.00	2.62	2.20	177.05	1373.35	8.57	2.55	2.27	1.69	0.50	0.00	
3	0.00	0.00	2.62	2.37	100.71	2499.65	6.96	2.72	2.20	1.69	0.50	0.00	
4	0.00	0.00	2.72	2.44	71.64	3566.07	6.56	3.15	2.20	1.69	0.50	0.00	
5	0.00	0.00	2.72	2.55	52.85	3350.67	6.96	3.08	2.20	1.69	0.44	0.00	
6	0.00	0.00	2.79	2.55	54.90	1137.23	7.76	3.08	2.10	1.69	0.44	0.00	
7	0.00	0.00	2.79	2.62	48.78	502.96	6.96	3.15	2.10	1.69	0.44	0.00	
8	0.00	0.00	2.72	2.62	39.77	338.76	6.96	4.63	2.03	1.59	0.44	0.00	
9	0.00	0.00	2.72	2.62	35.84	228.46	6.56	12.76	2.03	1.59	0.36	0.00	
10	0.00	0.06	2.72	2.62	35.84	287.67	6.17	28.16	2.03	1.59	0.36	0.00	
11	0.00	0.18	2.62	2.72	52.85	454.47	5.39	18.91	2.03	1.59	0.36	0.00	
12	0.00	0.36	2.62	2.72	54.90	322.68	4.63	9.39	1.93	1.59	0.36	0.00	
13	0.00	0.65	2.55	2.62	34.87	278.21	4.25	5.39	1.86	1.59	0.31	0.00	
14	0.00	1.04	2.55	2.62	29.11	236.15	3.88	4.25	1.69	1.59	0.31	0.00	
15	0.00	1.36	2.44	2.62	63.20	251.63	3.88	3.15	1.59	1.53	0.31	0.00	
16	0.00	1.53	2.44	2.55	55.93	81.28	3.51	3.08	1.53	1.53	0.23	0.00	
17	0.00	1.93	2.55	2.55	91.07	64.25	3.51	2.97	2.27	1.53	0.23	0.00	
18	0.00	2.20	2.55	2.55	74.84	40.76	3.15	2.90	2.20	1.53	0.18	0.00	
19	0.00	2.27	2.55	2.44	53.88	34.87	3.08	2.90	2.10	1.53	0.18	0.00	
20	0.00	2.27	2.55	2.44	92.17	60.07	2.97	2.79	2.10	1.53	0.10	0.00	
21	0.00	2.27	2.44	2.37	189.00	51.83	2.90	2.79	2.03	1.43	0.10	0.00	
22	0.00	2.27	2.44	2.37	126.03	41.75	2.72	2.72	2.03	1.43	0.06	0.00	
23	0.00	2.27	2.37	2.44	187.50	31.01	2.62	2.62	2.03	1.43	0.00	0.00	
24	0.00	2.27	2.37	2.55	369.57	28.16	2.55	2.62	1.93	1.43	0.00	0.00	
25	0.00	2.37	2.27	2.72	727.90	27.21	2.44	2.55	1.93	1.43	0.00	0.00	
26	0.00	2.37	2.27	42.75	1061.05	21.64	2.44	2.55	1.86	0.59	0.00	0.00	
27	0.00	2.44	2.20	80.20	957.59	17.12	2.44	2.44	1.86	0.59	0.00	0.00	
28	0.00	2.44	2.20	43.75	478.64	15.36	2.37	2.44	1.76	0.59	0.00	0.00	
29	0.00	2.44	2.10	29.11	375.11	16.24	2.37	2.44	1.76	0.59	0.00	0.00	
30	0.00	2.55	2.10	21.64	1540.44	14.48	2.37	2.37	1.69	0.50	0.00	0.00	
31		2.55		16.24	3566.07		2.55		1.69	0.50		0.00	
Total	0.00	40.09	75.15	296.66	11137.86	17113.05	140.54	146.99	61.30	42.65	7.21	0.00	29061.50 Tonday
Mean	0.00	1.29	2.50	9.57	359.29	570.43	4.53	4.90	1.98	1.38	0.25	0.00	79.40 Ton/day
Max	0.00	2.55	2.79	80.20	3566.07	3566.07	11.06	28.16	2.27	1.69	0.50	0.00	3566.07 Ton/day
Min	0.00	0.00	2.10	2.10	29.11	14.48	2.37	2.37	1.53	0.50	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	335 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.8605		
<b>Remarks</b>	Continued Sediment Station		

QS = 14.5830 QW<sup>1.35440</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.02	0.07	0.25	0.32	0.00	33.55	10.78	2.60	0.40	0.00	0.00	0.00	
2	0.48	0.07	0.13	0.32	0.00	180.19	18.67	2.60	0.32	0.00	0.00	0.00	
3	0.32	0.03	0.03	19.73	0.00	110.15	58.81	2.60	0.32	0.00	0.00	0.00	
4	0.25	0.03	0.00	54.59	0.00	507.15	174.50	3.93	0.25	0.00	0.00	0.00	
5	0.13	1.65	1.88	23.00	0.00	163.25	58.81	3.66	0.32	0.00	0.00	0.00	
6	0.07	4.22	8.14	7.30	0.00	42.43	125.50	3.12	0.48	0.00	0.00	0.00	
7	0.07	1.22	50.44	5.09	0.00	26.40	157.70	2.86	0.40	0.00	0.00	0.00	
8	0.25	2.11	5.40	4.22	0.00	17.62	47.73	2.60	0.40	0.00	0.00	0.00	
9	0.48	1.43	6.49	3.38	0.00	11.70	27.56	2.11	0.32	0.00	0.00	0.00	
10	0.83	0.83	11.70	2.60	0.00	16.59	209.37	1.88	0.32	0.00	0.00	0.00	
11	1.22	0.40	4.22	1.88	0.00	12.64	115.21	1.65	0.25	0.56	0.00	0.00	
12	0.40	0.25	6.49	1.43	0.00	12.64	33.55	1.43	0.19	0.00	0.00	0.00	
13	0.25	0.13	6.49	1.22	0.00	19.73	277.37	1.22	0.19	0.00	0.00	0.00	
14	0.13	0.07	3.93	0.83	0.00	9.88	54.59	1.22	0.19	0.00	0.00	0.00	
15	0.07	0.19	2.86	0.64	0.00	9.88	31.12	1.22	0.19	0.00	0.00	0.00	
16	0.00	2.86	2.86	0.48	0.00	10.78	20.81	1.02	0.19	0.00	0.00	0.00	
17	0.00	2.86	2.35	0.48	0.13	10.78	16.59	1.02	0.19	0.00	0.00	0.00	
18	0.00	1.88	4.80	0.40	15.58	10.78	13.60	1.02	0.13	0.00	0.00	0.00	
19	0.00	0.83	3.38	0.40	15.58	17.62	11.70	0.83	0.13	0.00	0.00	0.00	
20	0.48	2.60	2.60	0.56	8.14	191.73	8.14	0.83	0.13	0.00	0.00	0.00	
21	0.64	0.64	1.43	1.88	10.78	115.21	5.09	0.64	0.13	0.00	0.00	0.00	
22	0.32	1.43	1.22	0.64	5.40	71.97	4.50	0.64	0.07	0.00	0.00	0.00	
23	0.19	1.88	1.43	0.48	4.50	552.66	4.22	0.64	0.03	0.00	0.00	0.00	
24	0.13	3.66	2.60	0.32	4.50	1091.66	4.22	0.56	0.00	0.00	0.00	0.00	
25	0.07	1.88	2.35	0.40	3.66	264.64	5.09	0.56	0.00	0.00	0.00	0.00	
26	0.13	3.38	1.43	0.32	3.38	63.12	4.22	0.56	0.00	0.00	0.00	0.00	
27	0.40	2.86	0.83	0.25	17.62	34.78	3.93	0.56	0.00	0.00	0.00	0.00	
28	0.32	1.43	0.64	0.07	9.00	24.12	3.66	0.48	0.00	0.00	0.00	0.00	
29	0.19	0.64	0.56	0.07	5.09	17.62	3.12	0.48	0.00	0.00	0.00	0.00	
30	0.07	0.40	0.48	0.00	4.50	13.60	2.86	0.48	0.00	0.00		0.00	
31		0.32		0.00	4.22		2.86		0.00	0.00		0.00	
<b>Total</b>	8.91	42.25	137.41	133.30	112.08	3664.87	1515.88	45.02	5.54	0.56	0.00	0.00	5665.82 Tonday
<b>Mean</b>	0.30	1.36	4.58	4.30	3.62	122.16	48.90	1.50	0.18	0.02	0.00	0.00	15.48 Ton/day
<b>Max</b>	1.22	4.22	50.44	54.59	17.62	1091.66	277.37	3.93	0.48	0.56	0.00	0.00	1091.66 Ton/day
<b>Min</b>	0.00	0.03	0.00	0.00	0.00	9.88	2.86	0.48	0.00	0.00	0.00	0.00	0.00 Ton/day





**WATER YEAR : 2019****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.

	<b>Ban</b> Kham Samran	<b>Amphoe</b> Det Udom	<b>Changwat</b> Ubon Ratchathani
<b>Drainage Area</b>	1,745 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9418		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.3070 QW^{1.01820}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.44	4.44	24.54	8.56	1034.39	1236.96	484.40	82.49	28.44	15.14	5.09	5.09	
2	4.34	4.55	28.99	6.39	1157.30	1566.25	373.93	161.91	27.32	14.59	5.09	4.98	
3	4.34	4.66	37.37	9.66	1200.75	1983.49	316.29	141.25	26.21	14.04	5.09	4.88	
4	4.34	4.77	36.81	35.69	1106.63	2609.84	260.58	120.65	25.66	13.49	4.98	4.77	
5	4.34	4.77	31.78	100.69	743.19	6299.94	189.52	104.10	25.66	13.49	4.98	4.66	
6	4.34	4.77	27.32	68.04	337.23	7937.76	244.95	93.86	25.66	12.94	4.98	4.55	
7	4.34	4.77	26.77	53.65	231.07	5344.64	248.42	85.05	24.54	12.39	4.98	4.44	
8	4.34	4.77	24.54	45.22	194.70	3213.46	206.81	79.94	22.88	11.84	4.98	4.44	
9	4.34	5.09	23.99	36.81	182.61	2363.76	206.81	74.84	21.77	11.84	4.98	4.34	
10	4.34	19.00	21.22	31.78	220.67	2067.63	238.01	70.59	21.77	11.30	5.09	4.34	
11	4.34	72.29	18.45	28.99	545.38	1858.62	358.20	68.89	21.22	10.75	5.20	4.34	
12	4.34	137.82	15.14	26.77	663.00	1688.36	344.22	67.20	20.66	10.75	5.85	4.23	
13	4.34	98.41	12.39	23.99	575.92	1571.03	323.27	64.65	20.11	10.20	6.93	4.23	
14	4.77	57.88	10.75	21.22	465.66	1418.03	298.86	62.11	20.11	10.20	6.93	4.23	
15	10.75	37.93	9.66	18.45	366.94	1247.86	295.38	58.72	19.56	10.75	5.85	4.12	
16	8.56	35.13	10.75	16.24	305.83	1019.90	255.37	54.50	19.56	11.84	5.85	4.12	
17	4.34	31.78	14.59	16.24	279.71	812.90	229.33	51.12	19.00	11.30	5.85	4.01	
18	4.34	26.21	15.14	15.69	243.21	745.55	201.62	47.74	18.45	10.75	5.31	4.01	
19	4.34	21.22	19.00	15.69	210.27	684.21	184.33	44.37	17.90	10.75	6.39	4.01	
20	4.34	17.90	28.99	15.14	182.61	655.93	120.65	42.69	17.35	10.75	6.39	3.91	
21	4.34	11.84	32.34	12.39	184.33	710.15	141.25	41.01	16.79	10.75	5.85	3.91	
22	4.34	13.49	29.55	19.56	238.01	833.60	132.66	39.33	16.24	10.20	5.31	3.80	
23	4.34	13.49	26.21	65.50	283.19	1037.95	120.65	36.81	15.69	10.20	5.31	3.80	
24	4.34	13.49	20.11	170.53	361.69	1258.70	106.38	35.13	15.14	9.66	5.20	3.80	
25	4.34	12.39	19.56	284.93	498.46	1724.30	100.69	34.57	15.69	8.56	5.20	3.80	
26	4.34	14.59	18.45	373.93	573.57	1888.02	92.72	33.46	16.24	7.48	5.20	3.80	
27	4.34	26.21	15.69	314.55	721.95	1742.28	87.60	32.34	16.24	6.39	5.20	3.80	
28	4.34	28.99	13.49	253.63	795.17	1523.19	83.34	31.78	16.79	5.85	5.09	3.69	
29	4.34	21.77	11.30	239.74	854.30	1236.96	81.64	30.67	16.24	5.31	5.09	3.69	
30	4.34	23.43	10.75	468.00	872.06	769.17	77.39	30.11	17.35	5.20		3.69	
31		25.66		842.47	1070.50		68.04		16.24	5.09		3.69	
<b>Total</b>	141.36	803.51	635.64	3640.14	16700.30	59050.44	6473.31	1921.88	622.48	323.79	158.24	129.17	90600.26 Ton/day
<b>Mean</b>	4.71	25.92	21.19	117.42	538.72	1968.35	208.82	64.06	20.08	10.44	5.46	4.17	247.54 Ton/day
<b>Max</b>	10.75	137.82	37.37	842.47	1200.75	7937.76	484.40	161.91	28.44	15.14	6.93	5.09	7937.76 Ton/day
<b>Min</b>	4.34	4.44	9.66	6.39	182.61	655.93	68.04	30.11	15.14	5.09	4.98	3.69	3.69 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Non Sao - E	<b>Amphoe</b> Wang Nam Khieo	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	554 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	36		
<b>R-Square</b>	0.8799		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 10.3850 QW^{1.29790}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	1.29	1.12	1.29	0.21	174.68	43.22	3.68	0.00	0.00	0.00	0.00	
2	1.29	1.29	0.52	1.29	0.21	244.43	40.80	3.68	0.00	0.00	0.00	0.00	
3	1.29	1.29	0.11	83.87	0.16	625.05	139.50	3.68	0.00	0.00	0.00	0.00	
4	1.29	24.87	0.00	227.87	0.16	698.49	154.36	5.35	0.00	0.00	0.00	0.00	
5	3.16	2.18	0.00	101.69	0.11	261.26	252.82	3.68	0.00	0.00	0.00	0.00	
6	11.75	31.48	40.80	40.80	0.06	129.80	169.55	3.68	0.00	0.00	0.00	0.00	
7	1.29	1.29	169.55	20.68	0.03	79.54	174.68	3.16	0.00	0.00	0.00	0.00	
8	1.29	1.29	13.16	13.16	0.00	46.99	120.25	2.66	0.00	0.00	0.00	0.00	
9	1.29	1.29	92.68	6.54	0.00	31.48	115.54	2.18	0.00	0.00	0.00	0.00	
10	1.29	1.29	50.84	5.35	0.00	31.48	164.45	1.20	0.00	0.00	0.00	0.00	
11	1.29	1.72	9.06	3.68	0.03	31.48	272.62	1.12	0.00	0.00	0.00	0.00	
12	1.29	1.29	5.35	1.29	0.06	154.36	261.26	1.12	0.00	0.00	0.00	0.00	
13	1.29	1.29	20.68	1.29	0.11	88.25	203.54	0.89	0.00	0.00	0.00	0.00	
14	1.29	1.29	6.54	1.29	0.11	120.25	139.50	0.66	0.00	0.00	0.00	0.00	
15	1.29	1.29	4.78	1.29	0.11	79.54	120.25	0.52	0.00	0.00	0.00	0.00	
16	1.29	1.72	3.68	1.29	0.11	54.76	83.87	0.52	0.00	0.00	0.00	0.00	
17	1.29	16.07	3.68	1.29	0.11	101.69	43.22	0.46	0.00	0.00	0.00	0.00	
18	1.29	7.77	3.68	1.29	3.16	62.78	36.07	0.39	0.00	0.00	0.00	0.00	
19	1.29	1.29	5.35	1.29	20.68	480.84	27.03	0.27	0.00	0.00	0.00	0.00	
20	1.29	1.29	3.68	1.29	17.58	331.01	19.11	0.21	0.00	0.00	0.00	0.00	
21	1.29	1.29	2.66	1.20	17.58	367.25	10.39	0.21	0.00	0.00	0.00	0.00	
22	1.29	1.29	1.12	0.81	6.54	1138.49	7.77	0.16	0.00	0.00	0.00	0.00	
23	1.29	1.29	0.89	0.52	4.78	677.32	13.16	0.16	0.00	0.00	0.00	0.00	
24	1.29	1.29	1.04	0.46	3.68	2434.83	11.75	0.16	0.00	0.00	0.00	0.00	
25	1.29	1.29	1.29	0.39	3.16	455.00	6.54	0.11	0.00	0.00	0.00	0.00	
26	5.94	3.68	1.12	0.39	4.22	169.55	6.54	0.11	0.00	0.00	0.00	0.00	
27	1.29	1.29	0.74	0.33	5.35	125.00	5.35	0.11	0.00	0.00	0.00	0.00	
28	1.29	1.72	0.52	0.33	17.58	106.26	5.35	0.06	0.00	0.00	0.00	0.00	
29	1.29	3.16	0.52	0.27	6.54	101.69	3.68	0.06	0.00	0.00	0.00	0.00	
30	1.29	1.29	0.52	0.21	6.54	71.05	2.66	0.03	0.00	0.00		0.00	
31		1.29		0.21	46.99		1.72		0.00	0.00		0.00	
<b>Total</b>	55.68	121.46	445.68	522.95	165.96	9474.60	2656.55	40.28	0.00	0.00	0.00	0.00	13483.16 Tonday
<b>Mean</b>	1.86	3.92	14.86	16.87	5.35	315.82	85.70	1.34	0.00	0.00	0.00	0.00	36.84 Ton/day
<b>Max</b>	11.75	31.48	169.55	227.87	46.99	2434.83	272.62	5.35	0.00	0.00	0.00	0.00	2434.83 Ton/day
<b>Min</b>	1.29	1.29	0.00	0.21	0.00	31.48	1.72	0.03	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Non Sao - E</b>	<b>Amphoe Wang Nam Khieo</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	143 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.9637		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.4165 QW^{1.35220}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	1.59	0.37	88.39	8.44	1.79	0.33	0.00	0.00	0.00	
2	0.00	0.00	0.00	8.96	0.29	40.82	10.57	2.00	0.33	0.00	0.00	0.00	
3	0.00	0.00	0.00	165.75	0.10	218.36	10.57	2.22	0.29	0.00	0.00	0.00	
4	0.00	0.00	0.00	50.97	0.04	218.36	18.17	2.44	0.29	0.00	0.00	0.00	
5	0.00	0.00	0.57	24.50	0.00	37.57	31.29	2.44	0.24	0.00	0.00	0.00	
6	0.00	0.00	5.48	12.37	0.00	14.24	18.17	2.91	0.24	0.00	0.00	0.00	
7	0.00	0.00	4.94	10.57	0.00	7.42	20.23	2.91	0.20	0.00	0.00	0.00	
8	0.00	0.00	4.40	9.49	0.00	5.95	26.72	2.91	0.20	0.00	0.00	0.00	
9	0.00	0.00	3.89	7.92	0.00	5.48	18.17	2.67	0.20	0.00	0.00	0.00	
10	0.00	0.00	3.63	5.21	0.00	6.43	12.37	2.67	0.17	0.00	0.00	0.00	
11	0.00	0.00	3.89	4.14	0.00	26.72	26.72	2.22	0.13	0.00	0.00	0.00	
12	0.00	0.00	3.39	4.14	0.00	83.64	10.57	2.00	0.13	0.00	0.00	0.00	
13	0.00	0.00	3.39	3.89	0.00	26.72	31.29	1.79	0.10	0.00	0.00	0.00	
14	0.00	0.00	2.67	3.63	0.00	31.29	26.72	1.39	0.10	0.00	0.00	0.00	
15	0.00	0.00	1.59	3.14	0.00	26.72	10.57	1.39	0.10	0.00	0.00	0.00	
16	0.00	0.00	1.02	2.67	0.00	24.50	10.03	1.20	0.10	0.00	0.00	0.00	
17	0.00	0.00	1.02	2.22	0.00	22.34	7.42	1.02	0.10	0.00	0.00	0.00	
18	0.00	0.00	0.84	1.79	0.79	16.17	6.92	0.84	0.06	0.00	0.00	0.00	
19	0.00	0.00	0.84	1.39	1.59	127.60	5.95	0.84	0.04	0.00	0.00	0.00	
20	0.00	0.00	0.73	1.39	1.79	74.36	5.21	0.84	0.01	0.00	0.00	0.00	
21	0.00	0.00	1.20	1.02	1.59	83.64	4.94	0.79	0.00	0.00	0.00	0.00	
22	0.00	0.00	4.40	0.84	1.59	352.91	4.14	0.79	0.00	0.00	0.00	0.00	
23	0.00	0.00	4.67	0.79	1.39	218.36	4.14	0.73	0.00	0.00	0.00	0.00	
24	0.00	0.00	4.14	0.73	1.59	658.56	3.89	0.68	0.00	0.00	0.00	0.00	
25	0.00	0.00	3.89	0.68	1.79	65.37	3.89	0.57	0.00	0.00	0.00	0.00	
26	0.00	0.00	3.63	0.62	2.22	26.72	3.63	0.52	0.00	0.00	0.00	0.00	
27	0.00	0.00	3.39	0.57	2.91	18.17	3.63	0.42	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.67	0.52	3.63	9.49	3.39	0.37	0.00	0.00	0.00	0.00	
29	0.00	0.00	2.00	0.47	3.63	7.92	3.14	0.33	0.00	0.00	0.00	0.00	
30	0.00	0.00	1.59	0.42	4.14	7.92	2.91	0.33	0.00	0.00		0.00	
31		0.00		0.37	10.03		2.67		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	73.87	332.76	39.48	2552.14	356.47	44.02	3.36	0.00	0.00	0.00	3402.10 Ton/day
<b>Mean</b>	0.00	0.00	2.46	10.73	1.27	85.07	11.50	1.47	0.11	0.00	0.00	0.00	9.30 Ton/day
<b>Max</b>	0.00	0.00	5.48	165.75	10.03	658.56	31.29	2.91	0.33	0.00	0.00	0.00	658.56 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.37	0.00	5.48	2.67	0.33	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Non Sa - at</b>	<b>Amphoe Chok Chai</b>	<b>Changwat Nakhon Ratchasima</b>
<b>Drainage Area</b>	4,211 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2019-Cont'd		
<b>Actual Measurement</b>	2019-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	7		
<b>R-Square</b>	0.8644		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9190 QW^{1.29110}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.74	2.03	1.42	1.11	1.42	16.00	29.96	8.56	2.25	0.93	1.26	0.06	
2	1.74	1.70	1.34	1.23	1.42	14.83	28.28	13.12	2.25	1.11	1.26	0.06	
3	1.78	1.54	1.34	1.26	1.11	19.91	24.98	17.48	2.25	1.26	1.19	0.06	
4	2.10	1.46	1.23	1.30	1.04	25.31	16.29	18.99	2.18	1.26	1.19	0.04	
5	1.89	1.26	1.30	1.34	1.15	26.62	11.19	18.99	2.03	1.26	1.15	0.05	
6	1.78	1.08	1.58	1.58	1.19	22.73	9.07	17.48	1.89	1.30	1.15	0.05	
7	1.78	1.08	1.74	1.89	1.15	16.29	6.57	13.97	1.78	1.30	1.23	0.02	
8	1.82	1.15	2.03	1.89	1.11	11.73	6.57	10.38	1.70	1.34	1.15	0.10	
9	1.82	1.15	2.18	2.03	1.11	9.07	7.80	8.05	1.62	1.34	1.00	0.10	
10	1.82	1.19	2.03	2.03	1.11	7.30	9.07	6.57	1.58	1.34	1.19	0.16	
11	1.96	1.23	2.25	1.89	1.19	5.86	8.56	5.33	1.50	1.30	1.23	0.09	
12	2.03	1.23	2.25	1.82	0.90	5.50	7.80	5.33	1.38	1.34	1.19	0.09	
13	2.03	1.23	2.18	1.82	1.26	4.80	8.05	3.80	1.34	1.38	1.19	0.14	
14	2.10	1.23	1.96	1.78	1.66	4.63	8.05	3.47	1.30	1.46	1.23	0.32	
15	2.18	1.23	1.78	1.62	1.62	4.98	7.80	3.63	1.23	1.54	1.19	0.32	
16	2.03	1.26	1.70	1.34	1.89	4.80	7.55	3.63	1.08	1.46	1.11	0.19	
17	1.96	2.25	1.66	1.23	1.78	3.63	6.81	3.00	1.08	1.42	0.97	0.21	
18	1.89	2.54	1.62	1.19	1.82	2.47	5.68	2.47	1.04	1.50	1.08	0.16	
19	1.78	2.69	1.74	1.11	1.96	2.54	4.80	2.40	1.04	1.30	1.08	0.14	
20	1.82	2.32	1.89	1.11	1.96	3.96	4.46	2.32	1.04	1.23	1.11	0.14	
21	1.89	1.96	1.89	1.19	2.40	5.50	4.13	2.32	1.04	1.26	1.15	0.14	
22	1.82	2.18	1.82	1.26	3.31	9.85	4.98	2.32	1.08	1.26	1.15	0.14	
23	1.78	1.96	1.70	1.26	3.96	18.38	5.86	2.25	1.15	1.30	1.11	0.12	
24	2.18	2.40	1.58	1.23	4.63	34.08	5.68	2.25	1.26	1.30	1.08	0.12	
25	2.18	3.16	1.50	1.19	5.50	38.67	4.98	2.25	1.34	1.30	1.11	0.12	
26	1.78	1.74	1.34	1.19	5.86	39.39	4.63	2.25	1.30	1.26	0.93	0.10	
27	3.63	1.11	1.15	1.19	5.68	39.03	4.46	2.25	1.26	1.19	0.29	0.10	
28	3.47	1.11	1.11	1.34	5.68	38.67	4.46	2.25	1.23	1.26	0.06	0.12	
29	2.69	1.50	1.15	1.46	5.86	37.60	4.98	2.25	1.15	1.30	0.06	0.10	
30	2.47	1.62	1.19	1.42	7.55	34.08	6.33	2.25	1.04	1.30		0.09	
31		1.58		1.46	12.84		6.33		0.97	1.30		0.12	
<b>Total</b>	61.94	51.17	49.65	44.76	91.12	508.21	276.16	191.61	44.38	40.40	30.09	3.77	1393.26 Ton/day
<b>Mean</b>	2.06	1.65	1.66	1.44	2.94	16.94	8.91	6.39	1.43	1.30	1.04	0.12	3.81 Ton/day
<b>Max</b>	3.63	3.16	2.25	2.03	12.84	39.39	29.96	18.99	2.25	1.54	1.26	0.32	39.39 Ton/day
<b>Min</b>	1.74	1.08	1.11	1.11	0.90	2.47	4.13	2.25	0.97	0.93	0.06	0.02	0.02 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban Non Si Khlai</b>	<b>Amphoe Kanthararom</b>	<b>Changwat Si Sa Ket</b>
<b>Drainage Area</b>	3,131 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9844		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.4610 QW^{1.17640}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.45	14.51	8.75	2.96	4.44	150.48	398.41	114.71	48.48	21.05	15.43	10.24	
2	21.05	14.51	7.81	4.15	8.65	198.73	346.18	129.26	44.88	20.65	15.27	10.24	
3	20.25	14.51	7.10	4.44	9.07	299.28	294.52	131.36	40.88	20.25	14.97	10.24	
4	19.78	14.82	6.39	4.63	7.30	595.50	243.04	139.81	39.12	20.25	14.67	10.13	
5	19.31	14.82	6.39	4.53	6.79	924.70	213.35	143.00	37.81	19.94	14.36	10.13	
6	18.99	14.97	6.29	4.25	6.29	1039.11	149.41	140.88	36.51	19.78	14.36	10.03	
7	18.99	14.82	5.89	3.69	5.40	1892.02	127.17	129.26	35.21	19.46	14.21	10.03	
8	18.21	14.82	5.79	3.97	3.50	2283.05	161.27	116.77	33.49	19.31	13.91	9.92	
9	15.58	15.58	5.40	2.96	4.25	1927.75	199.85	124.04	31.78	19.15	13.46	9.70	
10	15.27	18.83	5.11	3.05	5.69	1471.19	234.99	117.81	30.09	18.99	13.16	9.49	
11	15.12	19.62	5.11	2.61	5.20	1221.63	244.19	112.65	29.25	18.68	12.72	9.39	
12	14.97	18.68	4.91	2.61	5.01	1022.29	229.26	109.58	27.99	18.52	12.72	9.39	
13	14.82	17.89	4.53	2.87	6.09	785.85	212.22	107.53	27.58	18.21	12.28	9.28	
14	14.51	17.27	4.34	2.78	8.12	711.48	196.49	104.48	27.16	18.05	12.28	9.17	
15	14.36	16.96	3.87	2.52	7.50	586.61	188.70	102.45	27.16	17.89	12.13	9.17	
16	14.51	16.34	3.78	2.52	6.59	502.70	182.06	99.42	27.16	17.58	11.84	9.17	
17	14.21	16.04	3.69	2.17	6.49	454.15	174.36	96.40	26.75	17.43	11.69	9.17	
18	14.06	15.58	4.34	2.09	6.09	417.10	167.79	92.40	26.75	17.27	11.40	9.17	
19	14.06	15.27	3.87	1.92	5.79	374.49	155.86	87.43	26.75	17.12	11.00	9.17	
20	13.61	14.67	3.69	1.92	5.50	679.76	138.75	82.51	26.34	16.96	11.00	9.17	
21	13.02	13.76	3.78	2.09	5.20	777.61	137.69	80.55	26.34	16.81	11.00	9.17	
22	12.42	13.46	3.69	2.61	4.53	927.17	129.26	77.63	25.51	16.65	10.89	9.07	
23	12.28	12.42	3.59	2.78	4.72	996.60	111.63	75.69	25.10	16.50	10.89	9.07	
24	13.16	10.46	3.50	2.96	6.39	1046.64	98.41	73.76	24.28	16.34	10.78	9.07	
25	13.46	9.81	3.50	2.78	8.23	1031.59	107.53	70.88	23.87	16.19	10.78	9.07	
26	14.21	10.35	2.61	2.43	10.89	1001.58	104.48	67.06	23.47	16.04	10.67	8.86	
27	14.51	11.40	2.87	2.52	14.51	912.39	109.58	63.27	23.06	16.04	10.67	8.65	
28	14.82	11.84	3.41	2.26	12.57	683.80	117.81	59.52	22.66	16.04	10.56	8.65	
29	14.51	10.78	2.69	2.61	35.64	539.86	115.74	56.73	21.85	15.73	10.46	8.65	
30	14.51	9.81	2.61	3.87	32.21	459.60	111.63	52.12	21.85	15.58		8.54	
31		9.49		3.23	60.46		110.60		21.05	15.58		8.54	
Total	470.01	444.09	139.30	92.78	319.11	25914.71	5512.23	2958.96	910.18	554.04	359.56	289.74	37964.71 Tonday
Mean	15.67	14.33	4.64	2.99	10.29	863.82	177.81	98.63	29.36	17.87	12.40	9.35	103.73 Ton/day
Max	21.45	19.62	8.75	4.63	60.46	2283.05	398.41	143.00	48.48	21.05	15.43	10.24	2283.05 Ton/day
Min	12.28	9.49	2.61	1.92	3.50	150.48	98.41	52.12	21.05	15.58	10.46	8.54	1.92 Ton/day



**WATER YEAR : 2019****MUN RIVER BASIN****Huai Hin Lap at Ban Hin Plueng, Nakhon Ratchasima (M.183A)**

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

Location : on left bank at the bridge on highway.

	<b>Ban</b> Hin Plueng	<b>Amphoe</b> Pak Chong	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	-	sq.km.	
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2008-Cont'd		
<b>Actual Measurement</b>	2008-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9622		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 20.9260 QW^{1.51280}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.83	1.83	1.83	1.83	1.83	3.39	3.05	2.73	3.05	3.05	2.12	1.70	
2	1.83	2.73	1.70	3.05	1.83	3.39	2.73	3.05	3.05	3.05	1.31	1.70	
3	1.83	3.73	1.70	19.36	1.83	3.39	2.73	3.05	3.05	3.05	0.96	1.70	
4	1.83	2.73	1.70	25.85	1.83	3.05	3.05	3.05	3.05	3.05	0.85	1.70	
5	1.83	2.12	1.83	3.73	2.12	3.05	3.39	3.05	3.39	3.05	0.85	1.70	
6	1.83	1.83	2.12	3.05	2.42	2.73	4.46	3.05	3.39	3.05	0.85	1.83	
7	1.83	1.83	3.05	2.42	2.42	2.73	7.33	3.05	3.39	3.05	0.85	1.83	
8	1.70	1.70	3.39	2.12	2.42	2.73	6.04	3.05	3.39	3.05	0.85	1.83	
9	1.70	1.70	2.42	1.83	2.42	2.73	4.09	3.05	3.39	3.05	0.85	1.70	
10	1.70	1.70	2.12	1.83	2.42	2.73	4.09	3.05	3.39	3.05	0.85	1.70	
11	1.70	1.70	2.42	1.83	2.42	2.73	4.46	3.05	3.39	3.05	0.85	1.70	
12	1.70	1.70	2.42	1.83	2.42	2.73	3.39	3.05	3.05	3.05	0.85	1.70	
13	1.83	1.70	2.12	1.83	2.42	2.73	3.39	3.05	3.05	3.05	0.85	1.70	
14	1.70	2.42	1.83	1.83	2.42	2.73	3.39	3.05	3.05	3.05	0.85	1.70	
15	1.70	1.83	1.83	1.83	2.42	2.73	3.39	3.05	3.05	3.05	0.85	2.42	
16	1.70	1.83	1.83	1.83	2.42	2.73	3.39	3.05	3.05	3.05	0.85	3.39	
17	2.12	1.83	1.83	1.83	2.73	2.73	3.39	3.05	3.05	3.05	0.85	1.70	
18	3.05	1.83	1.83	1.83	2.73	2.73	3.39	3.05	3.05	3.05	1.19	2.42	
19	2.42	1.83	1.83	2.12	2.73	2.73	3.39	3.05	3.05	3.05	1.56	1.83	
20	2.42	1.83	1.83	2.12	2.73	3.39	3.39	3.05	3.05	3.05	1.70	1.83	
21	1.83	1.83	1.83	2.12	3.05	5.63	2.73	3.05	3.05	3.05	1.70	1.70	
22	1.83	1.83	1.83	2.12	2.73	40.61	2.73	3.05	3.05	3.05	1.70	1.70	
23	2.12	1.83	1.83	2.12	2.73	283.49	2.42	3.05	3.05	3.05	1.70	1.70	
24	1.83	1.83	1.83	2.12	2.73	182.14	2.42	3.05	3.05	3.05	1.70	1.70	
25	1.83	1.83	1.83	2.12	2.73	36.71	2.42	3.05	3.05	3.05	1.70	1.70	
26	1.83	1.83	1.83	2.12	3.05	6.89	2.73	3.05	3.05	3.05	1.70	1.70	
27	1.83	1.83	1.83	2.12	3.05	4.84	2.73	3.05	3.05	3.05	1.70	1.70	
28	1.83	1.83	1.83	2.12	3.05	4.09	2.73	3.05	3.05	3.05	1.70	1.70	
29	1.83	1.83	1.83	2.12	3.05	3.73	2.73	3.05	3.05	3.05	1.70	1.70	
30	1.83	1.83	1.83	1.83	3.05	3.05	2.73	3.05	3.05	3.05		1.70	
31		1.83		1.83	3.39		2.73		3.05	3.05		1.70	
<b>Total</b>	56.84	60.53	59.93	106.69	79.59	629.06	105.03	91.18	96.93	94.55	36.04	56.48	1472.85 Tonday
<b>Mean</b>	1.89	1.95	2.00	3.44	2.57	20.97	3.39	3.04	3.13	3.05	1.24	1.82	4.02 Ton/day
<b>Max</b>	3.05	3.73	3.39	25.85	3.39	283.49	7.33	3.05	3.39	3.05	2.12	3.39	283.49 Ton/day
<b>Min</b>	1.70	1.70	1.70	1.83	1.83	2.73	2.42	2.73	3.05	3.05	0.85	1.70	0.85 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Cum</b>	<b>Amphoe Phimai</b>	<b>Changwat</b>	<b>Nakhon Ratchasima</b>
<b>Drainage Area</b>	11,489 sq.km.			
<b>Method of sampling</b>	Depth Integrating			
<b>Instrument Used</b>	US.D-49			
<b>Period of Available Records</b>	2008-Cont'd			
<b>Actual Measurement</b>	2008-Cont'd			
<b>Using Rating Curve Water Year</b>	2008-2019			
<b>Number of observation</b>	228			
<b>R-Square</b>	0.7020			
<b>Remarks</b>	Continued Sediment Station			

$$QS = 4.0483 QW^{0.98190}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

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	66.14	15.79	3.25	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	60.09	26.59	2.05	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	57.06	34.25	1.85	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	52.52	40.36	1.65	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	47.96	46.44	1.44	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	41.88	46.44	1.24	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	1.36	38.83	46.44	0.96	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	46.44	32.72	46.44	0.75	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	38.83	25.05	40.36	0.55	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	26.59	21.97	37.30	0.34	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	17.34	21.97	34.25	0.13	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	9.56	28.12	29.66	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	9.56	28.12	25.05	0.00	0.00	0.00	0.00	
14	0.00	0.00	17.34	0.00	0.00	7.41	26.59	20.43	0.00	0.00	0.00	0.00	
15	0.00	0.00	11.13	0.00	0.00	8.00	23.51	15.79	0.00	0.00	0.00	0.00	
16	0.00	0.00	6.82	0.00	0.00	6.82	21.97	14.24	0.00	0.00	0.00	0.00	
17	0.00	0.00	5.04	0.00	0.00	5.63	18.89	11.13	0.00	0.00	0.00	0.00	
18	0.00	0.00	2.05	0.00	0.00	6.82	15.79	12.68	0.00	0.00	0.00	0.00	
19	0.00	0.00	1.57	0.00	0.00	6.82	11.13	14.24	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.83	0.00	0.00	15.79	8.00	12.68	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.21	0.00	0.00	18.89	6.82	9.56	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	18.89	5.04	7.41	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	35.78	3.25	6.82	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	49.48	2.05	6.23	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	58.58	5.63	5.63	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	66.14	6.82	5.04	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	69.16	7.41	5.04	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	70.85	6.23	4.45	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	72.55	5.04	3.85	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	70.85	4.45	3.25	0.00	0.00		0.00	
31		0.00		0.00	0.00		5.04		0.00	0.00		0.00	
<b>Total</b>	0.00	0.00	44.99	0.00	0.00	738.14	706.09	627.84	14.21	0.00	0.00	0.00	2131.27 Tonday
<b>Mean</b>	0.00	0.00	1.50	0.00	0.00	24.60	22.78	20.93	0.46	0.00	0.00	0.00	5.82 Ton/day
<b>Max</b>	0.00	0.00	17.34	0.00	0.00	72.55	66.14	46.44	3.25	0.00	0.00	0.00	72.55 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.05	3.25	0.00	0.00	0.00	0.00	0.00 Ton/day



**WATER YEAR : 2019****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.

	<b>Ban</b> Khok Kruad	<b>Amphoe</b> Mueang	<b>Changwat</b> Nakhon Ratchasima
<b>Drainage Area</b>	2,854 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2011-Cont'd		
<b>Actual Measurement</b>	2011-Cont'd		
<b>Using Rating Curve Water Year</b>	2013-2019		
<b>Number of observation</b>	138		
<b>R-Square</b>	0.8683		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.8254 QW^{1.23970}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.41	1.78	3.51	1.11	3.99	3.40	2.41	2.01	2.11	0.91	1.95	2.65	
2	3.18	1.78	3.51	1.35	4.83	3.40	2.24	3.99	2.01	0.53	1.78	1.85	
3	3.18	1.85	3.51	2.18	4.21	3.80	2.76	4.63	1.78	0.53	0.91	1.11	
4	3.40	1.47	2.51	2.93	4.29	3.29	4.94	4.63	1.95	1.41	0.18	0.64	
5	3.40	1.78	2.51	2.83	5.18	3.18	5.18	4.63	1.85	1.20	0.20	0.64	
6	3.11	1.85	3.40	2.34	5.30	2.65	4.29	4.75	1.78	1.72	0.29	0.53	
7	3.18	2.51	6.26	2.76	5.30	2.83	3.00	4.52	1.47	2.24	0.34	0.48	
8	3.29	2.41	5.30	3.51	5.30	1.56	3.29	3.69	1.35	2.24	0.38	0.31	
9	3.11	2.41	5.65	3.11	4.63	1.62	2.93	3.18	1.11	1.78	0.48	0.09	
10	2.65	2.65	4.29	2.34	5.30	2.01	3.40	3.18	1.47	1.95	0.61	0.09	
11	2.76	3.11	3.40	2.51	5.18	2.18	3.87	2.76	2.18	2.34	0.69	0.09	
12	2.65	3.80	2.76	2.65	2.18	3.18	3.11	2.51	2.18	2.01	0.77	0.09	
13	2.58	3.80	2.65	3.00	4.10	3.00	3.11	3.51	2.11	2.11	0.91	0.09	
14	2.76	3.87	2.58	3.18	4.94	3.00	3.11	2.76	1.95	2.11	1.05	0.09	
15	3.18	3.00	2.58	1.72	4.40	2.76	3.18	2.41	1.78	1.95	1.17	0.09	
16	3.11	2.51	2.24	1.35	4.52	2.58	2.18	2.01	1.47	1.85	1.20	0.46	
17	2.41	2.76	1.78	1.72	4.40	1.78	1.72	2.65	1.47	1.95	1.32	2.01	
18	3.29	2.65	2.24	1.41	3.58	2.41	1.95	2.41	1.47	1.85	1.35	2.01	
19	3.58	2.18	1.78	1.56	3.87	2.76	2.01	2.18	1.62	1.62	1.72	2.01	
20	2.83	2.11	2.01	2.34	3.87	2.93	2.01	2.18	1.56	1.78	2.76	1.62	
21	2.24	1.95	1.41	4.40	3.40	2.83	1.47	2.18	1.32	2.18	4.29	0.99	
22	2.24	2.76	1.32	4.29	5.18	3.58	2.24	2.24	0.99	1.95	3.87	0.82	
23	2.65	2.65	1.32	3.69	4.40	3.99	2.01	2.01	1.11	2.58	3.69	0.74	
24	2.58	2.93	1.62	3.58	4.29	3.51	2.24	1.72	1.05	2.41	3.40	0.69	
25	2.51	2.93	1.62	3.58	3.51	3.00	2.24	1.41	0.64	2.11	3.40	1.32	
26	2.34	3.58	1.11	3.58	3.40	2.65	2.18	2.24	0.20	2.11	3.80	2.24	
27	2.18	3.11	2.01	5.18	4.83	2.51	2.93	2.24	0.29	2.11	3.80	1.72	
28	2.11	2.93	1.56	6.88	4.63	2.24	3.18	2.18	0.36	2.34	3.99	1.32	
29	2.11	2.65	1.32	5.30	3.87	2.65	2.11	1.95	0.20	2.01	2.58	1.05	
30	2.01	2.65	0.34	4.40	4.21	2.34	1.85	1.95	0.38	2.18		1.17	
31		3.69		3.80	4.63		1.47		1.17	1.95		1.17	
<b>Total</b>	83.03	82.11	78.10	94.58	135.72	83.62	84.61	84.71	42.38	58.01	52.88	30.18	909.93 Tonday
<b>Mean</b>	2.77	2.65	2.60	3.05	4.38	2.79	2.73	2.82	1.37	1.87	1.82	0.97	2.49 Ton/day
<b>Max</b>	3.58	3.87	6.26	6.88	5.30	3.99	5.18	4.75	2.18	2.58	4.29	2.65	6.88 Ton/day
<b>Min</b>	2.01	1.47	0.34	1.11	2.18	1.56	1.47	1.41	0.20	0.53	0.18	0.09	0.09 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Nawarat Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	6,350 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1993-Cont'd		
<b>Actual Measurement</b>	1993-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	30		
<b>R-Square</b>	0.8140		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.2580 QW^{1.26500}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	164.02	72.31	110.52	5.67	48.02	550.46	127.85	157.86	3.87	100.06	10.72	12.91	
2	53.55	110.52	127.85	2.72	85.95	469.30	32.27	72.31	3.02	45.31	37.38	4.75	
3	39.98	95.31	72.31	2.72	50.77	534.01	32.27	145.70	3.02	26.09	95.31	3.02	
4	116.24	85.95	50.77	3.02	37.38	469.30	28.12	110.52	7.61	12.91	104.86	2.14	
5	145.70	42.63	37.38	7.61	95.31	393.11	30.18	53.55	7.61	4.75	45.31	2.14	
6	198.26	24.10	42.63	45.31	189.57	301.24	28.12	122.02	7.61	1.86	2.42	9.66	
7	85.95	53.55	14.67	30.18	189.57	198.26	32.27	133.75	7.61	1.07	0.83	37.38	
8	67.88	72.31	16.47	2.14	85.95	145.70	32.27	198.26	6.63	0.83	6.63	16.47	
9	139.70	67.88	24.10	1.32	48.02	110.52	24.10	276.39	7.61	0.83	48.02	11.80	
10	207.02	59.20	20.21	2.14	42.63	76.80	22.14	133.75	5.67	1.32	164.02	9.66	
11	157.86	48.02	7.61	2.72	104.86	85.95	110.52	133.75	2.14	1.32	90.60	5.67	
12	95.31	95.31	7.61	4.75	67.88	85.95	164.02	127.85	3.02	2.14	9.66	6.63	
13	50.77	100.06	6.63	20.21	81.35	100.06	42.63	76.80	3.02	10.72	5.67	12.91	
14	56.36	100.06	6.63	22.14	42.63	67.88	90.60	139.70	3.02	10.72	3.87	48.02	
15	104.86	67.88	5.67	11.80	122.02	59.20	224.79	127.85	2.42	18.32	12.91	42.63	
16	122.02	50.77	4.75	1.58	56.36	45.31	133.75	151.75	2.14	5.67	16.47	48.02	
17	63.51	34.80	2.72	0.35	233.79	34.80	172.45	122.02	1.58	1.32	34.80	10.72	
18	172.45	12.91	1.32	0.83	207.02	37.38	110.52	110.52	1.32	0.60	8.62	8.62	
19	67.88	3.87	8.62	2.42	104.86	145.70	76.80	139.70	1.32	1.58	5.67	3.87	
20	81.35	7.61	32.27	1.32	59.20	198.26	110.52	122.02	1.32	8.62	5.67	10.72	
21	85.95	10.72	18.32	1.58	67.88	151.75	81.35	110.52	1.32	26.09	5.67	30.18	
22	42.63	14.67	9.66	16.47	122.02	116.24	59.20	127.85	6.63	42.63	9.66	63.51	
23	95.31	22.14	3.87	20.21	423.03	104.86	45.31	122.02	3.87	37.38	10.72	37.38	
24	127.85	22.14	11.80	18.32	501.44	67.88	48.02	90.60	3.87	18.32	8.62	9.66	
25	90.60	16.47	90.60	45.31	592.02	45.31	100.06	53.55	2.42	9.66	7.61	8.62	
26	116.24	34.80	45.31	48.02	430.58	48.02	122.02	48.02	5.67	20.21	5.67	8.62	
27	133.75	76.80	22.14	59.20	224.79	48.02	100.06	53.55	8.62	28.12	6.63	30.18	
28	157.86	45.31	16.47	67.88	224.79	85.95	95.31	28.12	6.63	14.67	12.91	48.02	
29	104.86	39.98	9.66	42.63	189.57	53.55	95.31	8.62	7.61	1.58	34.80	37.38	
30	37.38	63.51	7.61	14.67	198.26	39.98	207.02	6.63	34.80	0.39		30.18	
31		67.88		20.21	400.55		127.85		127.85	0.35		20.21	
Total	3183.10	1619.47	836.18	525.45	5328.07	4870.75	2707.70	3305.55	290.85	455.44	811.73	631.68	24565.97 Tonday
Mean	106.10	52.24	27.87	16.95	171.87	162.36	87.35	110.18	9.38	14.69	27.99	20.38	67.12 Ton/day
Max	207.02	110.52	127.85	67.88	592.02	550.46	224.79	276.39	127.85	100.06	164.02	63.51	592.02 Ton/day
Min	37.38	3.87	1.32	0.35	37.38	34.80	22.14	6.63	1.32	0.35	0.83	2.14	0.35 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Mae Taeng</b>	<b>Amphoe Mae Taeng</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	1,930 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1992-Cont'd		
<b>Actual Measurement</b>	1992-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8610		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1500 QW^{1.47000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.12	0.11	70.06	0.19	0.14	25.97	0.30	0.08	0.11	0.00	0.00	0.00	
2	0.12	0.11	70.06	0.19	0.16	398.15	0.30	0.08	0.06	0.00	0.00	0.00	
3	0.12	0.11	70.06	0.19	0.19	1188.37	0.30	0.05	0.00	0.00	0.00	0.00	
4	0.12	0.11	70.06	0.19	0.21	1025.50	0.30	0.02	0.00	0.00	0.00	0.00	
5	0.12	0.11	70.06	0.19	0.21	489.31	0.30	0.02	0.00	0.00	0.00	0.00	
6	0.12	0.11	37.58	0.19	15.07	328.47	0.30	0.02	0.00	0.00	0.00	0.00	
7	0.12	0.11	3.62	0.19	275.71	154.05	0.30	0.02	0.00	0.00	0.00	0.00	
8	0.12	0.11	3.15	0.19	8.09	117.83	0.30	0.02	0.00	0.00	0.00	0.00	
9	0.11	0.11	1.49	0.18	0.30	66.97	0.30	0.02	0.00	0.00	0.00	0.00	
10	0.11	0.11	0.19	0.18	0.27	3.15	0.27	0.02	0.00	0.00	0.00	0.00	
11	0.11	0.11	0.16	0.16	0.27	2.06	1.04	0.04	0.00	0.00	0.00	0.00	
12	0.11	0.11	0.16	0.12	0.27	2.48	289.36	0.85	0.00	0.00	0.00	0.00	
13	0.11	0.12	0.16	0.12	0.27	2.48	29.69	0.30	0.00	0.00	0.00	0.00	
14	0.11	0.16	0.16	0.14	0.27	2.06	0.19	0.30	0.00	0.00	0.00	0.00	
15	0.11	0.18	0.16	0.14	0.27	2.06	0.19	0.30	0.00	0.00	0.00	0.00	
16	0.11	0.23	0.18	0.14	0.27	2.06	0.19	0.30	0.00	0.00	0.00	0.00	
17	0.11	0.27	0.19	0.14	15.07	2.06	0.19	0.30	0.00	0.00	0.00	0.00	
18	0.11	0.19	0.21	0.14	636.16	2.06	0.19	0.30	0.00	0.00	0.00	0.00	
19	0.11	0.19	0.19	0.14	6.87	4.12	0.19	0.30	0.00	0.00	0.00	0.00	
20	0.11	0.19	0.19	0.14	0.30	242.53	0.19	0.30	0.00	0.00	0.00	0.00	
21	0.11	0.19	0.21	0.14	0.19	60.90	0.19	0.30	0.00	0.00	0.00	0.00	
22	0.11	0.19	0.23	0.14	0.19	7.47	0.19	0.25	0.00	0.00	0.00	0.00	
23	0.11	0.18	0.23	0.14	8.09	3.15	0.19	0.11	0.00	0.00	0.00	0.00	
24	0.11	0.18	0.19	0.14	862.16	0.36	0.19	0.11	0.00	0.00	0.00	0.00	
25	0.11	0.18	0.16	0.14	2671.25	0.30	0.19	0.11	0.00	0.00	0.02	0.00	
26	0.11	0.18	0.21	0.14	427.87	0.30	0.19	0.11	0.00	0.00	0.00	0.00	
27	0.11	0.18	0.21	0.14	15.07	0.30	0.19	0.11	0.00	0.00	0.00	0.00	
28	0.11	0.23	0.21	0.14	6.87	0.30	0.19	0.11	0.00	0.00	0.00	0.00	
29	0.11	0.36	0.19	0.14	9.38	0.30	0.11	0.11	0.00	0.00	0.00	0.01	
30	0.11	4.63	0.19	0.14	3.62	0.30	0.03	0.11	0.00	0.00		0.05	
31		48.24		0.14	12.11		0.08		0.00	0.00		0.05	
Total	3.38	57.59	400.12	4.80	4977.17	4135.42	326.13	5.07	0.17	0.00	0.02	0.11	9909.98 Tonday
Mean	0.11	1.86	13.34	0.15	160.55	137.85	10.52	0.17	0.01	0.00	0.00	0.00	27.08 Ton/day
Max	0.12	48.24	70.06	0.19	2671.25	1188.37	289.36	0.85	0.11	0.00	0.02	0.05	2671.25 Ton/day
Min	0.11	0.11	0.16	0.12	0.14	0.30	0.03	0.02	0.00	0.00	0.00	0.00	0.00 Ton/day



## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	1,569 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1992-Cont'd		
<b>Actual Measurement</b>	1992-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.9170		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.3130 QW^{1.21200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.16	3.77	17.09	3.36	42.56	211.42	22.30	13.72	27.82	5.42	0.04	0.03	
2	1.84	2.95	18.25	2.36	91.20	290.12	17.09	11.66	19.51	5.66	0.04	0.04	
3	1.97	2.95	12.79	1.97	87.93	348.97	10.92	9.15	12.03	5.91	0.04	0.03	
4	2.16	2.36	11.66	2.95	49.62	292.78	9.15	9.15	5.91	7.91	0.03	0.03	
5	1.97	2.75	9.82	2.36	67.54	174.86	12.03	10.92	6.16	7.61	0.03	0.03	
6	1.97	4.22	6.16	2.75	101.11	99.45	14.27	12.03	4.93	9.46	0.02	0.03	
7	1.84	2.75	3.57	1.44	86.41	50.85	15.95	18.25	2.55	9.46	0.01	0.03	
8	2.16	4.45	6.71	1.84	55.84	27.82	14.27	38.04	3.36	0.20	0.01	0.03	
9	2.36	3.36	7.91	2.16	32.78	21.60	10.55	47.17	7.00	0.15	0.01	0.03	
10	2.16	3.77	6.16	2.16	28.80	21.60	10.92	42.56	6.71	0.16	0.01	0.03	
11	2.16	3.57	7.61	3.15	64.89	13.17	13.17	39.16	13.72	0.14	0.01	0.03	
12	2.16	2.16	5.17	4.45	70.21	14.27	28.80	36.93	16.52	0.10	0.01	0.03	
13	1.97	12.79	5.42	3.99	63.57	13.17	27.82	23.72	14.27	0.08	0.01	0.03	
14	2.16	28.80	4.69	2.55	52.09	23.01	44.85	22.30	15.39	0.08	0.01	0.03	
15	2.16	81.86	5.42	2.36	41.42	24.44	204.47	19.51	12.03	0.06	0.01	0.03	
16	1.70	60.94	7.00	1.57	33.79	30.78	211.42	16.52	4.69	0.06	0.01	0.03	
17	1.97	42.56	7.00	1.84	63.57	15.95	141.39	12.03	5.66	0.08	0.00	0.03	
18	2.16	28.80	6.71	0.94	131.53	23.01	89.56	12.41	4.45	0.11	0.01	0.03	
19	1.97	20.90	4.69	1.84	72.90	81.86	59.63	17.67	3.77	0.12	0.00	0.03	
20	2.16	14.83	6.41	3.15	41.42	263.74	43.71	40.29	2.75	0.13	0.00	0.03	
21	5.42	13.17	4.93	2.16	34.80	253.32	23.01	62.25	1.97	0.08	0.00	0.03	
22	7.91	12.41	5.42	1.97	78.85	204.47	18.25	129.57	2.95	0.09	0.00	0.03	
23	7.30	17.09	4.45	2.16	237.82	143.38	12.41	21.60	3.15	0.12	0.00	0.03	
24	6.41	7.91	4.45	2.55	168.14	96.13	11.29	62.25	3.15	0.11	0.00	0.03	
25	4.45	7.00	3.57	4.93	181.62	62.25	15.39	84.89	3.36	0.13	0.01	0.03	
26	4.69	5.66	2.55	17.09	131.53	47.17	14.27	81.86	2.95	0.13	0.00	0.04	
27	3.36	7.00	3.36	20.90	131.53	31.77	17.09	53.34	2.75	0.08	0.01	0.08	
28	4.69	4.93	2.55	32.78	181.62	36.93	17.09	58.37	1.57	0.06	0.05	0.10	
29	3.36	5.17	3.15	27.82	72.90	28.80	14.27	42.56	2.95	0.04	0.08	0.11	
30	4.69	5.17	2.55	22.30	54.59	25.15	12.41	35.82	6.41	0.05		0.11	
31		18.25		20.21	77.36		22.30		5.66	0.04		0.09	
Total	93.44	434.30	197.22	204.06	2629.94	2972.24	1180.05	1085.70	226.10	53.83	0.46	1.29	9078.63 Tonday
Mean	3.11	14.01	6.57	6.58	84.84	99.07	38.07	36.19	7.29	1.74	0.02	0.04	24.81 Ton/day
Max	7.91	81.86	18.25	32.78	237.82	348.97	211.42	129.57	27.82	9.46	0.08	0.11	348.97 Ton/day
Min	1.70	2.16	2.55	0.94	28.80	13.17	9.15	9.15	1.57	0.04	0.00	0.03	0.00 Ton/day

## WATER YEAR : 2019

## 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 Siao Market.

	<b>Ban</b>	<b>Tha Ngiu</b>	<b>Amphoe</b>	<b>Banphot Phisai</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainage Area</b>	45,297 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1954-Cont'd					
<b>Actual Measurement</b>	1954-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	26					
<b>R-Square</b>	0.8893					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.9258 QW^{1.17470}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	724.57	1211.56	1816.75	1729.41	858.12	918.43	479.71	326.85	317.86	706.65	380.84	326.85		
2	742.54	1188.01	2025.06	1965.20	798.44	1560.21	479.71	308.90	291.11	573.43	380.84	368.81		
3	818.26	1002.22	2055.09	1476.61	958.97	2145.57	653.33	291.11	282.28	635.70	392.92	344.94		
4	760.58	778.69	2055.09	1343.11	979.34	1905.61	938.67	308.90	273.48	546.40	392.92	326.85		
5	688.81	798.44	2025.06	1369.66	979.34	1816.75	798.44	308.90	308.90	492.94	392.92	356.85		
6	688.81	760.58	1816.75	1560.21	1002.22	1995.10	898.26	335.88	344.94	492.94	356.85	344.94		
7	742.54	798.44	1905.61	1396.28	878.16	2267.10	1117.79	380.84	317.86	441.79	335.88	335.88		
8	760.58	1071.34	1875.92	1422.98	838.16	2358.88	1164.53	600.65	242.71	417.25	392.92	335.88		
9	671.04	1211.56	1787.27	1263.93	742.54	2145.57	1164.53	1025.19	222.94	417.25	392.92	344.94		
10	688.81	1188.01	1672.72	1316.64	635.70	1616.32	1117.79	1188.01	203.43	417.25	368.81	368.81		
11	688.81	1211.56	1588.23	1141.13	671.04	1263.93	1048.22	898.26	196.99	392.92	380.84	368.81		
12	742.54	1396.28	1290.24	1094.53	778.69	1094.53	979.34	532.96	196.99	356.85	380.84	356.85		
13	635.70	1316.64	1211.56	1071.34	818.26	1002.22	1025.19	380.84	196.99	405.05	380.84	335.88		
14	818.26	1532.27	1094.53	1094.53	798.44	898.26	979.34	380.84	196.99	429.49	380.84	326.85		
15	798.44	1588.23	1164.53	1141.13	688.81	724.57	918.43	417.25	203.43	429.49	405.05	326.85		
16	878.16	1504.40	1211.56	1094.53	600.65	600.65	1164.53	344.94	216.41	380.84	356.85	356.85		
17	858.12	1532.27	1449.76	1094.53	532.96	519.57	1846.30	335.88	203.43	392.92	335.88	356.85		
18	858.12	1476.61	1449.76	1188.01	506.23	466.53	1616.32	466.53	209.90	344.94	326.85	335.88		
19	918.43	1504.40	1290.24	1141.13	454.13	466.53	1071.34	532.96	242.71	344.94	335.88	335.88		
20	958.97	1449.76	1316.64	1002.22	466.53	546.40	798.44	532.96	308.90	335.88	368.81	344.94		
21	898.26	1449.76	1343.11	1025.19	441.79	706.65	671.04	519.57	326.85	335.88	356.85	344.94		
22	898.26	1616.32	1449.76	1117.79	392.92	838.16	546.40	532.96	326.85	335.88	356.85	335.88		
23	938.67	1532.27	1449.76	958.97	479.71	1188.01	479.71	532.96	335.88	380.84	356.85	335.88		
24	938.67	1644.49	1616.32	1071.34	600.65	1532.27	441.79	532.96	344.94	417.25	335.88	326.85		
25	1094.53	1875.92	1560.21	1188.01	573.43	1644.49	405.05	532.96	344.94	429.49	335.88	326.85		
26	1164.53	1816.75	1396.28	1002.22	587.02	1343.11	356.85	519.57	454.13	392.92	356.85	335.88		
27	1188.01	1816.75	1588.23	918.43	653.33	1094.53	344.94	519.57	671.04	405.05	344.94	335.88		
28	1237.70	1816.75	1588.23	898.26	653.33	898.26	356.85	466.53	760.58	429.49	335.88	335.88		
29	1211.56	1935.37	1616.32	898.26	573.43	742.54	317.86	417.25	838.16	380.84	335.88	335.88		
30	1290.24	2025.06	1644.49	918.43	532.96	587.02	317.86	368.81	818.26	356.85		326.85		
31		1875.92		918.43	600.65		308.90		818.26	368.81		335.88		
Total	26302.52	43926.63	47355.08	36822.44	21075.95	36887.77	24807.46	14841.79	11018.14	13188.22	10556.36	10577.04	297359.40	Ton/day
Mean	876.75	1416.99	1578.50	1187.82	679.87	1229.59	800.24	494.73	355.42	425.43	364.01	341.19	812.46	Ton/day
Max	1290.24	2025.06	2055.09	1965.20	1002.22	2358.88	1846.30	1188.01	838.16	706.65	405.05	368.81	2358.88	Ton/day
Min	635.70	760.58	1094.53	898.26	392.92	466.53	308.90	291.11	196.99	335.88	326.85	326.85	196.99	Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Mae Rim Tai</b>	<b>Amphoe Mae Rim</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	452 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9450		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.0660 QW^{1.44500}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	0.40	11.39	2.13	28.41	251.58	18.75	6.07	1.08	2.68	0.71	0.15	
2	1.00	0.40	10.44	1.85	29.27	197.67	19.51	8.16	1.71	1.71	0.52	0.13	
3	0.93	0.40	9.51	1.32	18.75	484.30	19.51	7.30	1.71	1.45	0.52	0.13	
4	1.08	0.40	5.68	1.08	12.87	101.06	15.11	8.16	2.43	1.08	0.52	0.13	
5	1.08	0.40	3.78	1.58	27.56	56.78	26.72	8.16	2.95	1.00	0.46	0.13	
6	0.93	0.40	4.67	0.65	74.75	56.78	12.87	7.73	3.21	0.93	0.52	0.13	
7	0.93	0.40	10.44	0.78	56.78	44.77	10.91	12.37	2.95	0.93	0.40	0.11	
8	0.78	0.37	13.38	1.00	24.24	48.13	10.44	58.11	2.68	0.93	0.40	0.11	
9	0.71	0.52	9.05	0.71	12.87	27.56	8.60	51.56	2.68	0.86	0.34	0.11	
10	0.65	0.78	8.16	1.00	15.11	23.43	6.07	18.00	2.68	0.86	0.37	0.11	
11	0.34	0.40	3.78	1.85	18.75	23.43	74.75	12.87	2.28	1.00	0.37	0.09	
12	0.24	1.71	0.86	1.99	20.27	37.23	51.56	10.44	2.43	0.86	0.34	0.09	
13	0.24	12.87	1.20	2.28	25.06	23.43	25.88	9.05	2.28	0.86	0.31	0.11	
14	0.24	21.83	9.97	1.58	21.05	27.56	97.29	8.60	2.13	0.71	0.31	0.07	
15	0.29	14.41	9.05	1.58	31.12	18.75	130.69	6.07	2.28	0.86	0.31	0.09	
16	0.37	6.89	2.28	1.00	15.11	11.88	49.26	7.30	2.28	0.86	0.31	0.09	
17	0.37	4.98	2.43	1.32	32.12	9.05	32.12	7.30	2.13	0.86	0.24	0.11	
18	0.26	6.89	2.95	1.58	67.66	9.97	26.72	7.30	2.13	0.86	0.24	0.11	
19	0.21	0.86	5.68	1.32	39.34	26.72	22.63	6.48	1.99	0.78	0.21	0.11	
20	0.26	0.46	6.07	1.20	16.53	5.68	19.51	6.07	1.71	0.58	0.26	0.11	
21	0.34	0.40	6.89	1.99	33.12	6.48	15.11	4.67	1.71	0.78	0.21	0.11	
22	0.37	1.32	10.44	34.14	82.65	27.56	13.38	4.07	1.45	0.71	0.19	0.09	
23	0.52	3.21	7.30	15.82	306.65	28.41	12.37	4.98	1.08	0.71	0.19	0.09	
24	0.52	6.48	1.58	24.24	200.59	17.26	7.73	4.07	1.20	0.58	0.19	0.09	
25	0.65	9.97	0.93	74.75	188.99	11.39	7.30	3.21	2.28	0.58	0.19	0.09	
26	0.93	9.51	1.99	29.27	95.42	9.97	9.51	2.28	2.13	0.58	0.19	0.09	
27	1.08	6.48	7.30	30.14	63.51	24.24	7.73	1.99	1.08	0.58	0.19	0.09	
28	1.08	2.68	1.45	24.24	56.78	28.41	7.30	1.32	1.08	0.52	0.19	0.07	
29	1.08	3.49	2.68	11.88	37.23	13.38	10.44	2.13	1.20	0.52	0.17	0.04	
30	0.93	4.36	6.07	7.30	27.56	18.00	32.12	1.99	3.49	0.52		0.04	
31		9.51		15.11	262.32		14.41		1.20	0.52		0.05	
Total	19.49	133.18	177.40	296.68	1942.44	1670.86	816.30	297.81	63.62	27.26	9.37	3.07	5457.48 Tonday
Mean	0.65	4.30	5.91	9.57	62.66	55.70	26.33	9.93	2.05	0.88	0.32	0.10	14.91 Ton/day
Max	1.08	21.83	13.38	74.75	306.65	484.30	130.69	58.11	3.49	2.68	0.71	0.15	484.30 Ton/day
Min	0.21	0.37	0.86	0.65	12.87	5.68	6.07	1.32	1.08	0.52	0.17	0.04	0.04 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainge Area</b>	546 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.9430		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.5740 QW^{1.34500}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.13	1.10	19.63	5.42	15.12	440.21	9.96	11.20	5.88	1.10	4.13	1.90	
2	3.79	1.10	17.79	5.42	56.83	64.29	22.48	10.58	5.88	1.10	3.45	1.10	
3	3.79	1.10	13.12	4.98	21.52	104.67	12.47	8.76	5.42	0.96	2.49	1.10	
4	3.79	1.10	7.77	4.13	60.53	55.07	10.58	8.76	4.13	0.96	2.49	1.10	
5	3.45	1.10	4.55	3.45	457.54	33.57	14.45	8.76	4.98	1.10	2.49	1.10	
6	3.45	1.10	11.20	1.10	265.88	24.43	13.12	8.76	4.98	1.10	2.49	1.10	
7	3.12	1.36	9.96	1.90	44.43	24.43	22.48	10.58	4.98	1.10	2.49	1.10	
8	2.49	2.19	6.81	5.42	23.45	22.48	19.63	68.11	4.98	1.10	2.80	1.10	
9	2.49	2.19	6.81	4.98	21.52	13.12	18.71	42.65	4.13	2.80	3.45	1.10	
10	2.49	2.19	6.34	3.45	24.43	10.58	16.89	21.52	4.13	6.81	3.79	1.10	
11	2.49	2.19	4.13	3.45	24.43	15.12	24.43	15.12	4.13	6.81	3.45	1.10	
12	2.49	2.49	3.45	4.13	31.22	14.45	60.53	14.45	4.13	6.81	3.45	1.10	
13	2.49	8.76	1.63	5.42	49.61	12.47	33.57	12.47	4.13	6.81	3.45	1.10	
14	2.49	5.42	4.55	5.42	39.27	9.36	18.71	12.47	4.13	6.81	3.45	0.96	
15	2.49	6.34	4.55	5.42	142.12	16.89	32.39	11.20	4.13	6.34	3.45	0.96	
16	2.49	6.34	3.45	5.42	210.91	9.36	24.43	8.76	3.79	6.34	3.45	0.96	
17	2.49	6.34	2.49	5.42	47.91	14.45	24.43	8.76	3.12	6.34	3.45	0.96	
18	2.49	6.34	2.49	5.42	33.57	15.12	24.43	7.77	3.12	5.88	3.45	0.96	
19	2.49	6.34	2.49	5.42	23.45	27.77	22.48	7.77	3.12	5.88	3.45	0.96	
20	2.49	4.98	2.49	5.42	18.71	31.22	19.63	8.26	3.12	5.88	3.45	0.96	
21	2.49	3.79	2.49	5.42	21.52	25.53	16.89	7.77	3.12	5.88	3.45	0.96	
22	1.63	3.12	4.55	5.42	41.01	28.91	15.12	7.28	2.49	5.42	3.45	0.96	
23	1.10	3.79	4.55	5.42	107.22	31.22	15.12	6.34	1.10	4.98	3.45	0.96	
24	1.10	3.79	4.55	4.98	563.77	26.64	13.78	6.81	1.10	4.98	3.45	0.96	
25	1.10	3.79	5.42	2.80	207.11	20.57	11.83	6.81	1.10	4.98	3.45	0.96	
26	1.10	3.79	5.42	3.45	47.91	18.71	8.76	6.81	1.10	4.13	3.45	0.96	
27	1.10	3.79	5.42	8.76	37.67	15.12	8.76	7.77	1.10	4.13	3.45	0.96	
28	1.10	4.55	5.42	18.71	55.07	13.12	8.76	7.77	1.10	4.13	3.45	0.96	
29	1.10	15.12	5.42	13.78	47.91	9.36	10.58	7.28	1.10	4.13	3.45	0.96	
30	1.10	9.36	5.42	11.20	42.65	11.20	14.45	5.88	1.10	4.13		0.96	
31		16.00		9.96	683.13		12.47		1.10	4.13		0.96	
Total	70.81	140.96	184.36	181.09	3467.42	1159.44	582.32	377.23	101.92	133.05	95.62	32.38	6526.60 Tonday
Mean	2.36	4.55	6.15	5.84	111.85	38.65	18.78	12.57	3.29	4.29	3.30	1.04	17.83 Ton/day
Max	4.13	16.00	19.63	18.71	683.13	440.21	60.53	68.11	5.88	6.81	4.13	1.90	683.13 Ton/day
Min	1.10	1.10	1.63	1.10	15.12	9.36	8.76	5.88	1.10	0.96	2.49	0.96	0.96 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Mae Tae</b>	<b>Amphoe San Sai</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	5,323 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8740		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.6650 QW^{1.73300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.20	31.71	104.43	4.75	29.96	1349.67	9.29	9.29	2.17	3.16	11.97	9.72	
2	47.20	33.50	194.67	2.97	47.20	1122.82	6.97	7.32	2.06	2.29	11.50	6.63	
3	47.20	21.29	47.20	4.01	16.68	1267.59	8.06	6.30	1.74	2.17	10.59	5.35	
4	49.32	14.84	27.36	2.97	13.08	1320.92	7.32	5.05	1.84	1.95	10.59	4.46	
5	39.13	13.66	19.05	16.68	39.13	1076.22	6.63	4.75	2.17	1.74	2.97	6.63	
6	29.96	14.24	12.52	16.06	439.59	487.35	9.72	4.75	1.95	1.27	0.72	16.06	
7	39.13	14.24	6.30	7.32	286.21	210.20	11.50	4.75	1.53	1.12	2.17	24.85	
8	49.32	17.32	6.30	1.84	45.13	142.12	11.04	12.52	1.53	1.34	10.15	14.84	
9	61.27	17.32	7.67	4.01	24.85	90.20	10.59	119.54	2.29	1.44	11.50	9.72	
10	67.65	17.32	8.87	4.75	23.64	37.22	6.30	27.36	1.74	1.84	9.72	7.67	
11	61.27	21.29	7.32	4.01	47.20	43.09	19.05	14.24	1.84	2.29	8.87	8.46	
12	70.94	33.50	7.32	10.59	26.09	43.09	28.64	10.15	1.95	5.98	8.46	7.32	
13	70.94	104.43	7.67	17.32	22.45	43.09	9.72	8.46	1.95	9.72	6.97	58.18	
14	70.94	24.85	8.46	17.96	22.45	27.36	13.66	11.50	2.06	7.67	8.06	64.43	
15	74.29	10.15	8.87	4.46	24.85	21.29	154.60	11.50	1.84	2.29	11.50	28.64	
16	67.65	5.05	8.87	1.19	37.22	17.96	67.65	11.04	1.95	1.19	9.72	11.97	
17	61.27	1.84	7.32	1.63	600.06	14.84	27.36	8.06	1.84	0.91	7.67	11.04	
18	43.09	2.41	3.37	2.06	251.21	16.06	22.45	8.87	2.29	0.78	10.15	6.97	
19	33.50	11.04	11.50	1.34	61.27	81.20	16.68	10.59	1.84	3.37	10.15	8.06	
20	27.36	16.06	16.06	0.98	20.16	295.26	12.52	7.67	1.53	11.97	8.46	21.29	
21	21.29	14.84	8.87	2.17	22.45	119.54	10.15	6.97	2.29	10.59	11.04	21.29	
22	19.05	17.96	8.87	13.08	77.72	81.20	7.67	6.63	2.77	3.16	11.97	13.66	
23	23.64	16.68	11.97	7.32	1242.95	47.20	6.63	5.66	2.41	1.12	11.04	11.97	
24	29.96	14.24	23.64	3.58	2378.28	23.64	5.35	5.05	1.84	0.78	9.72	11.97	
25	23.64	13.66	17.96	13.08	2713.51	17.96	4.75	4.23	1.19	4.75	9.29	11.50	
26	17.32	24.85	11.04	27.36	815.83	15.44	4.23	2.29	1.95	13.08	8.87	13.66	
27	17.32	28.64	7.32	23.64	342.29	14.24	2.97	2.41	1.84	14.24	9.29	74.29	
28	27.36	27.36	4.23	49.32	451.33	14.84	3.58	2.77	1.74	3.16	19.05	67.65	
29	35.34	33.50	3.58	13.08	332.65	13.66	4.23	2.59	2.06	1.12	24.85	28.64	
30	31.71	70.94	4.01	6.63	342.29	11.04	20.16	2.17	4.46	0.78		14.84	
31		90.20		7.67	1122.82		14.24		4.75	4.23		10.15	
Total	1305.26	778.93	622.62	293.83	11920.55	8066.31	543.71	344.48	65.41	121.50	287.01	611.91	24961.52 Tonday
Mean	43.51	25.13	20.75	9.48	384.53	268.88	17.54	11.48	2.11	3.92	9.90	19.74	68.20 Ton/day
Max	74.29	104.43	194.67	49.32	2713.51	1349.67	154.60	119.54	4.75	14.24	24.85	74.29	2713.51 Ton/day
Min	17.32	1.84	3.37	0.98	13.08	11.04	2.97	2.17	1.19	0.78	0.72	4.46	0.72 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Sop Soi</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,814 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.8620		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.0340 QW^{1.19700}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.54	1.88	3.56	0.72	454.68	125.51	19.08	60.74	12.83	22.69	20.85	3.02	
2	12.14	2.20	4.04	0.58	410.23	109.20	56.41	33.37	36.87	22.07	26.44	2.71	
3	6.93	2.37	6.09	0.58	442.91	141.62	45.60	42.53	42.28	41.59	24.55	2.71	
4	5.24	3.02	3.82	0.59	359.74	112.40	24.28	27.29	56.29	39.56	23.93	2.53	
5	4.95	2.76	2.29	0.72	359.74	94.58	36.00	17.06	35.53	54.86	23.31	1.72	
6	4.36	2.61	2.93	0.66	359.74	159.32	29.87	21.46	29.64	52.73	22.07	1.01	
7	4.15	2.05	3.46	0.53	227.32	54.51	26.97	47.11	28.99	52.02	25.81	0.83	
8	5.05	2.09	3.46	0.48	187.06	34.12	22.59	86.06	22.07	51.31	25.18	0.83	
9	3.31	2.09	2.57	0.24	138.02	51.55	31.61	79.82	40.23	52.02	35.53	0.80	
10	2.80	1.39	1.88	0.19	125.51	41.66	29.87	57.73	46.41	44.34	40.91	0.72	
11	3.40	1.22	2.05	0.23	88.50	60.02	43.83	61.35	51.31	47.80	47.11	0.62	
12	3.88	2.05	1.65	0.13	50.96	79.56	37.16	12.14	53.44	51.31	36.87	0.59	
13	7.99	4.43	1.52	0.12	56.41	72.53	31.26	2.57	57.73	57.01	33.55	0.58	
14	36.87	10.89	1.65	0.08	51.55	138.02	23.41	2.66	36.87	61.35	26.44	0.56	
15	24.55	25.18	1.80	0.16	81.59	118.86	26.97	1.88	29.64	65.00	23.93	0.56	
16	42.96	119.27	3.22	0.45	43.40	67.21	42.96	10.28	22.69	50.61	22.07	0.56	
17	25.18	5.93	2.24	0.77	136.22	40.39	42.96	7.10	28.99	49.20	18.24	0.55	
18	17.85	5.93	2.24	0.66	68.07	39.58	39.17	8.44	16.67	45.72	14.35	0.52	
19	12.46	7.99	2.66	0.55	179.77	44.27	44.27	7.32	19.84	42.28	11.52	0.40	
20	4.43	9.97	2.71	0.35	46.53	127.28	39.99	11.20	30.93	47.11	11.83	0.23	
21	3.50	5.34	3.56	0.33	76.54	52.14	58.57	28.35	28.35	45.03	6.93	0.11	
22	3.56	4.85	3.07	0.25	73.53	61.47	63.78	23.93	13.21	36.87	6.09	0.07	
23	7.32	8.90	2.48	0.25	62.20	42.53	47.92	33.55	5.24	30.93	7.32	0.05	
24	6.42	6.59	2.29	0.22	189.68	60.74	49.79	22.69	4.57	28.35	6.26	0.04	
25	6.42	3.40	2.09	0.12	106.14	32.30	69.80	25.81	3.93	23.93	5.60	0.02	
26	4.85	3.17	1.61	1.49	101.78	33.37	60.02	13.97	3.99	24.55	3.88	0.00	
27	3.07	6.09	1.32	5.84	68.07	38.36	62.20	14.35	3.93	23.93	3.50	0.00	
28	2.24	4.32	0.86	30.22	147.48	28.57	57.85	15.11	4.43	19.04	3.31	0.00	
29	2.17	4.66	0.63	115.62	69.80	23.70	62.93	17.06	4.76	11.20	3.26	0.00	
30	1.80	6.26	0.66	107.60	76.54	23.70	35.25	14.35	11.83	12.83		0.04	
31		3.22		197.59	86.18		38.36		19.84	18.24		0.97	
Total	277.39	272.12	74.41	468.32	4925.89	2109.07	1300.73	807.28	803.33	1225.48	560.64	23.35	12848.01 Tonday
Mean	9.25	8.78	2.48	15.11	158.90	70.30	41.96	26.91	25.91	39.53	19.33	0.75	35.10 Ton/day
Max	42.96	119.27	6.09	197.59	454.68	159.32	69.80	86.06	57.73	65.00	47.11	3.02	454.68 Ton/day
Min	1.80	1.22	0.63	0.08	43.40	23.70	19.08	1.88	3.93	11.20	3.26	0.00	0.00 Ton/day

## WATER YEAR : 2019

## PING RIVER BASIN

## Ping River at Ban Sop Pae , Chiang Mai (P.73A)

Lat 18 - 15 - 12 N Long 98 - 38 - 29 E

Location : on right bank at Ban Sop Pae.

	<b>Ban Sop Pae</b>	<b>Amphoe Chom Thong</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	14,887 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2017-Cont'd		
<b>Actual Measurement</b>	2017-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.8880		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8970 QW^{1.24000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.42	0.12	0.12	0.08	1469.00	160.30	39.58	19.64	0.85	0.77	0.77	
2	0.02	0.12	0.13	0.12	0.02	1236.58	160.30	35.91	19.64	0.77	0.77	0.77	
3	0.02	0.12	0.66	0.11	1.61	1139.99	160.30	35.91	19.64	0.77	0.77	0.77	
4	0.02	0.12	0.83	0.06	9.14	1098.22	154.25	35.91	19.64	0.77	0.77	0.77	
5	0.02	0.12	1.37	0.06	107.90	806.29	130.53	34.10	19.64	0.77	0.81	0.77	
6	0.02	0.12	0.12	0.06	226.30	479.17	130.53	27.06	19.64	0.77	1.24	0.77	
7	0.02	0.12	0.12	0.06	366.12	409.32	130.53	27.06	19.64	0.77	1.39	0.77	
8	0.02	0.12	0.12	0.06	306.59	337.85	76.05	34.10	19.64	0.77	1.24	0.77	
9	0.02	0.12	0.12	0.06	145.27	279.31	59.99	51.58	19.64	0.77	0.77	0.77	
10	0.02	0.11	0.12	0.06	80.81	259.18	53.66	184.92	19.64	0.77	0.77	0.77	
11	0.02	0.06	0.12	0.06	160.30	194.33	64.41	118.97	19.64	0.77	0.77	0.77	
12	0.02	0.06	0.12	0.06	362.56	71.35	142.30	191.18	19.64	1.31	0.77	0.77	
13	0.02	0.06	0.12	0.05	175.61	252.54	121.84	148.25	10.02	10.02	0.77	0.77	
14	0.02	0.06	0.12	0.02	49.52	166.39	130.53	110.44	2.42	10.02	0.77	0.77	
15	0.02	0.06	0.12	0.02	236.08	127.62	310.04	57.87	2.42	8.27	0.77	0.77	
16	0.02	57.87	0.12	0.02	160.30	127.62	512.40	55.76	2.42	8.27	0.77	0.77	
17	0.02	110.44	0.12	0.02	236.08	102.86	504.05	49.52	2.42	7.43	0.77	0.77	
18	0.02	85.62	0.12	0.02	303.16	102.86	306.59	35.91	2.79	2.55	0.77	0.77	
19	0.05	2.55	0.12	0.02	316.95	142.30	207.00	35.91	2.42	0.77	0.77	0.77	
20	0.58	2.42	0.12	0.02	289.48	351.93	169.45	35.91	2.42	0.77	0.77	0.77	
21	0.66	0.28	0.12	0.02	130.53	573.68	102.86	28.79	2.07	1.03	0.77	0.77	
22	0.66	1.46	0.12	0.02	181.81	376.83	35.91	19.64	1.39	0.77	0.77	0.77	
23	0.66	1.28	0.14	0.02	323.89	169.45	127.62	19.64	1.39	0.77	0.77	0.77	
24	0.66	0.66	0.11	0.02	762.18	351.93	57.87	19.64	1.39	0.77	0.77	0.72	
25	0.66	0.66	0.07	0.02	718.60	145.27	55.76	19.64	1.39	0.77	0.77	0.77	
26	0.50	0.66	0.11	0.02	713.78	157.27	55.76	19.64	1.39	0.77	0.77	0.03	
27	0.35	0.66	0.12	0.02	542.58	160.30	55.76	19.64	1.39	0.77	0.77	2.05	
28	0.50	0.66	0.12	0.02	628.20	160.30	55.76	18.34	1.39	0.77	0.77	2.26	
29	0.35	0.42	0.12	0.02	402.06	160.30	55.76	19.64	1.39	0.77	0.77	2.79	
30	0.58	0.12	0.12	0.01	409.32	160.30	55.76	19.64	1.39	0.77		0.74	
31		0.12		0.02	609.63		55.76		1.39	0.77		0.06	
Total	6.57	267.67	6.06	1.29	8956.46	11570.34	4399.63	1550.10	278.98	66.69	23.93	27.13	27154.85 Tonday
Mean	0.22	8.63	0.20	0.04	288.92	385.68	141.92	51.67	9.00	2.15	0.83	0.88	74.19 Ton/day
Max	0.66	110.44	1.37	0.12	762.18	1469.00	512.40	191.18	19.64	10.02	1.39	2.79	1469.00 Ton/day
Min	0.02	0.06	0.07	0.01	0.02	71.35	35.91	18.34	1.39	0.77	0.77	0.03	0.01 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Cho Lae	<b>Amphoe</b> Mae Teang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	3,088 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	24		
<b>R-Square</b>	0.7160		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.6040 QW^{1.70100}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	107.18	71.26	18.60	3.48	17.35	382.15	12.73	6.94	3.17	6.38	18.60	14.97	
2	103.73	76.55	21.20	2.87	12.73	196.39	13.83	10.64	3.17	5.34	18.60	13.83	
3	103.73	53.97	8.10	2.31	10.64	191.63	14.97	5.85	3.17	3.17	18.60	10.64	
4	107.18	36.79	5.34	6.94	8.10	215.71	12.73	8.71	3.17	2.87	16.14	9.33	
5	96.98	36.79	4.14	34.86	22.55	210.75	9.33	6.38	3.17	2.58	3.17	14.97	
6	71.26	36.79	4.14	18.60	125.12	76.55	9.33	5.34	2.87	2.58	3.48	56.35	
7	100.33	36.79	3.17	2.87	63.59	45.01	16.14	6.38	2.31	2.58	12.73	49.41	
8	125.12	32.97	1.49	2.58	32.97	32.97	16.14	8.10	2.58	2.58	17.35	18.60	
9	117.81	36.79	1.64	3.80	19.88	29.32	11.66	19.88	2.58	2.31	17.35	16.14	
10	128.85	36.79	1.80	3.80	19.88	25.84	8.71	13.83	2.87	1.80	18.60	22.55	
11	164.36	47.22	1.80	3.48	24.18	25.84	9.33	12.73	2.87	2.58	18.60	27.56	
12	168.83	82.00	2.05	6.38	22.55	27.56	27.56	9.98	2.87	12.73	18.60	49.41	
13	173.25	73.85	2.31	31.12	17.35	25.84	9.33	5.85	2.87	13.83	10.64	182.35	
14	173.25	25.84	5.85	19.88	22.55	21.20	14.97	5.85	3.17	14.97	21.20	156.16	
15	168.83	5.85	5.85	0.82	22.55	21.20	49.41	6.38	2.58	2.87	21.20	61.16	
16	156.16	5.34	5.85	1.80	47.22	21.20	31.12	6.38	2.58	2.58	17.35	29.32	
17	140.29	3.80	6.94	3.48	68.64	17.35	22.55	6.38	2.58	1.80	16.14	29.32	
18	107.18	2.05	9.33	4.48	45.01	22.55	21.20	5.85	3.17	3.17	17.35	22.55	
19	87.59	3.17	21.20	3.17	31.12	58.70	16.14	4.84	3.48	19.88	18.60	27.56	
20	71.26	10.64	21.20	2.31	25.84	148.14	12.73	4.48	4.84	21.20	21.20	56.35	
21	71.26	32.97	21.20	6.38	19.88	51.70	9.98	4.14	3.17	16.14	22.55	45.01	
22	68.64	45.01	21.20	8.71	63.59	42.91	9.98	4.14	3.48	3.17	19.88	32.97	
23	66.13	29.32	40.79	4.48	210.75	27.56	9.98	3.80	4.84	3.17	19.88	32.97	
24	63.59	22.55	117.81	3.17	432.86	18.60	8.71	3.80	3.48	4.48	19.88	34.86	
25	58.70	29.32	68.64	5.85	251.23	17.35	8.10	3.80	3.48	27.56	19.88	32.97	
26	47.22	42.91	16.14	16.14	156.16	13.83	8.10	4.14	3.48	27.56	19.88	68.64	
27	51.70	45.01	9.98	16.14	84.73	14.97	8.10	4.14	3.48	18.60	21.20	177.83	
28	79.22	45.01	4.14	17.35	128.85	16.14	7.51	4.14	3.48	2.87	49.41	152.13	
29	82.00	42.91	7.51	9.98	117.81	12.73	6.94	3.80	3.48	2.87	42.91	56.35	
30	79.22	40.79	4.48	6.94	68.64	12.73	10.64	3.17	5.34	3.80		29.32	
31		7.51		8.10	173.25		9.33		7.51	18.60		27.56	
Total	3140.85	1098.56	463.89	262.27	2367.57	2024.42	437.28	199.84	105.29	256.62	560.97	1559.14	12476.70 Tonday
Mean	104.69	35.44	15.46	8.46	76.37	67.48	14.11	6.66	3.40	8.28	19.34	50.29	34.09 Ton/day
Max	173.25	82.00	117.81	34.86	432.86	382.15	49.41	19.88	7.51	27.56	49.41	182.35	432.86 Ton/day
Min	47.22	2.05	1.49	0.82	8.10	12.73	6.94	3.17	2.31	1.80	3.17	9.33	0.82 Ton/day



## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	1,544 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.9150		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.3860 QW^{1.22200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.15	1.98	2.07	2.21	2.07	296.53	5.23	2.01	1.90	1.76	1.60	1.38	
2	2.13	1.93	2.04	2.18	1.98	276.35	4.56	2.01	1.87	1.79	1.62	1.23	
3	2.10	1.87	2.10	2.18	1.84	204.95	3.92	2.01	1.87	1.76	1.62	1.15	
4	2.10	1.30	2.10	2.15	1.60	132.81	3.92	2.01	1.87	1.76	1.62	0.95	
5	2.10	0.92	2.10	2.13	1.84	67.32	11.03	2.01	1.87	1.76	1.60	0.97	
6	2.07	0.76	2.10	2.13	2.36	53.53	35.36	2.01	1.90	1.76	1.60	0.95	
7	2.07	0.80	2.07	2.13	2.36	40.41	14.18	2.01	1.87	1.76	1.60	0.78	
8	2.01	0.64	2.10	2.10	2.27	22.62	8.76	2.01	1.87	1.73	1.60	0.76	
9	2.04	0.64	2.13	2.10	2.27	17.47	8.76	2.04	1.90	1.73	1.60	0.64	
10	2.04	0.59	2.15	2.10	2.36	10.26	5.91	2.01	1.90	1.73	1.60	0.25	
11	2.01	0.59	2.15	2.10	3.16	7.31	8.03	1.98	1.90	1.73	1.60	0.13	
12	1.98	0.57	2.15	2.10	3.01	5.91	4.56	1.98	1.87	1.73	1.60	0.11	
13	1.98	0.44	2.21	2.07	3.01	5.23	4.56	1.98	1.87	1.73	1.57	0.09	
14	2.01	0.38	2.24	2.07	3.60	4.56	5.23	1.98	1.90	1.73	1.54	0.08	
15	1.98	0.16	2.24	2.01	4.56	3.92	27.99	2.01	1.90	1.71	1.52	0.06	
16	2.04	0.40	2.24	1.98	4.56	3.76	20.88	1.98	1.87	1.68	1.52	0.05	
17	2.07	2.24	2.24	1.93	5.23	3.92	8.76	1.96	1.87	1.65	1.52	0.03	
18	2.04	2.24	2.21	1.90	5.91	3.76	3.76	2.01	1.90	1.65	1.49	0.03	
19	2.01	2.21	2.18	1.82	5.91	3.76	3.92	2.04	1.90	1.68	1.49	0.03	
20	1.98	2.21	2.21	1.62	5.91	3.44	2.36	2.04	1.90	1.65	1.49	0.03	
21	1.96	2.24	2.21	1.46	5.91	3.60	2.27	2.01	1.87	1.65	1.49	0.03	
22	1.93	2.47	2.18	1.30	10.26	10.26	2.07	2.04	1.84	1.65	1.49	0.03	
23	1.93	2.50	2.21	1.25	8.76	11.03	2.07	2.01	1.76	1.65	1.52	0.03	
24	1.82	2.33	2.24	1.28	20.88	48.19	2.04	1.98	1.76	1.65	1.46	0.02	
25	1.79	2.15	2.21	1.36	30.38	26.18	2.01	1.96	1.76	1.65	1.46	0.01	
26	1.54	2.24	2.21	1.62	6.60	11.03	2.04	1.96	1.76	1.62	1.46	0.01	
27	1.44	2.21	2.18	1.84	5.91	9.51	2.01	1.96	1.76	1.62	1.46	0.01	
28	1.33	2.15	2.13	2.13	32.85	5.91	2.01	1.93	1.76	1.60	1.46	0.01	
29	1.36	2.21	2.15	2.27	75.81	3.76	2.01	1.90	1.76	1.60	1.46	0.01	
30	2.15	2.13	2.15	2.21	169.16	3.76	2.07	1.90	1.76	1.60		0.01	
31		2.10		2.21	56.26		2.07		1.76	1.60		0.01	
Total	58.16	47.60	64.90	59.94	488.59	1301.05	214.35	59.74	57.25	52.37	44.66	9.88	2458.49 Tonday
Mean	1.94	1.54	2.16	1.93	15.76	43.37	6.91	1.99	1.85	1.69	1.54	0.32	6.72 Ton/day
Max	2.15	2.50	2.24	2.27	169.16	296.53	35.36	2.04	1.90	1.79	1.62	1.38	296.53 Ton/day
Min	1.33	0.16	2.04	1.25	1.60	3.44	2.01	1.90	1.76	1.60	1.46	0.01	0.01 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b>	<b>Sop Mae Sapuad</b>	<b>Amphoe</b>	<b>Mae Tha</b>	<b>Changwat</b>	<b>Lamphun</b>
<b>Drainage Area</b>	550	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2001-Cont'd					
<b>Actual Measurement</b>	2001-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	17					
<b>R-Square</b>	0.9560					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 3.3460 QW^{1.30800}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.03	0.46	0.03	0.02	0.01	106.59	0.12	0.03	0.03	1.79	0.03	0.02	
2	0.03	0.60	0.03	0.02	0.01	89.62	0.33	0.03	0.02	2.06	0.03	0.02	
3	0.02	0.72	0.03	0.02	0.01	110.06	0.41	0.02	0.03	2.06	0.03	0.02	
4	0.02	0.82	0.02	0.02	0.01	75.20	0.21	0.02	0.03	2.06	0.03	0.02	
5	0.03	0.72	0.02	0.02	0.01	50.79	0.12	0.03	0.03	2.06	0.02	0.02	
6	0.03	0.46	0.02	0.02	0.01	38.71	0.07	0.03	0.03	2.06	0.02	0.02	
7	0.03	0.16	0.02	0.02	0.01	32.60	0.03	0.03	0.03	2.06	0.02	0.02	
8	0.03	0.03	0.02	0.02	0.01	29.64	0.03	0.41	0.03	2.06	0.02	0.02	
9	0.03	0.02	0.02	0.02	0.01	26.75	0.12	0.03	0.21	2.06	0.02	0.02	
10	0.03	0.02	0.02	0.02	0.01	22.89	0.03	0.07	0.60	2.06	0.02	0.02	
11	0.03	0.02	0.02	0.02	0.01	21.86	0.02	0.07	1.11	2.06	0.02	0.02	
12	0.03	0.02	0.02	0.02	0.01	20.85	0.02	0.12	1.11	2.06	0.02	0.02	
13	0.03	1.98	0.02	0.02	0.01	20.85	0.02	0.12	1.21	2.06	0.02	0.02	
14	0.03	2.46	0.02	0.02	0.01	26.75	0.02	0.07	1.04	1.98	0.02	0.02	
15	0.03	0.60	0.02	0.02	0.01	22.89	0.94	0.07	1.04	1.79	0.02	0.02	
16	0.03	1.28	0.02	0.02	0.01	22.89	0.82	0.03	1.35	1.60	0.02	0.02	
17	0.03	1.60	0.02	0.02	0.01	21.86	0.60	0.03	1.53	1.60	0.02	0.02	
18	0.03	1.87	0.02	0.02	0.01	29.64	0.33	0.03	1.53	1.53	0.02	0.02	
19	0.02	2.26	0.02	0.02	0.01	233.49	0.21	0.02	1.53	1.46	0.02	0.02	
20	0.02	2.46	0.02	0.01	0.01	92.96	0.16	0.02	1.60	1.28	0.02	0.02	
21	0.02	2.46	0.02	0.01	0.01	37.16	0.03	0.02	1.60	1.21	0.02	0.02	
22	0.02	1.98	0.02	0.01	0.01	25.33	0.03	0.02	1.60	1.11	0.02	0.02	
23	0.03	0.03	0.02	0.01	5.59	18.85	0.02	0.02	1.53	0.88	0.02	0.02	
24	0.03	0.02	0.02	0.01	11.91	12.63	0.02	0.02	1.35	0.72	0.02	0.02	
25	0.02	0.02	0.02	0.01	75.20	9.83	0.02	0.03	1.35	0.72	0.02	0.01	
26	0.02	0.02	0.02	0.01	37.16	7.85	0.02	0.03	1.46	0.60	0.02	0.01	
27	0.02	0.02	0.02	0.01	23.93	0.07	0.02	0.03	1.72	0.21	0.02	0.01	
28	0.02	0.02	0.02	0.01	29.64	0.46	0.03	0.03	1.87	0.12	0.02	0.01	
29	0.02	0.02	0.02	0.01	26.75	0.46	0.03	0.03	2.06	0.07	0.02	0.01	
30	0.03	0.02	0.02	0.01	23.93	0.28	0.03	0.03	2.14	0.03		0.01	
31		0.02		0.01	23.93		0.03		1.72	0.03		0.01	
<b>Total</b>	0.79	23.19	0.63	0.50	258.26	1209.81	4.89	1.54	32.49	43.45	0.62	0.55	1576.72 Tonday
<b>Mean</b>	0.03	0.75	0.02	0.02	8.33	40.33	0.16	0.05	1.05	1.40	0.02	0.02	4.31 Ton/day
<b>Max</b>	0.03	2.46	0.03	0.02	75.20	233.49	0.94	0.41	2.14	2.06	0.03	0.02	233.49 Ton/day
<b>Min</b>	0.02	0.02	0.02	0.01	0.01	0.07	0.02	0.02	0.02	0.03	0.02	0.01	0.01 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban</b> Mae Wan	<b>Amphoe</b> Doi Saket	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	136 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7440		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.3580 QW^{1.44200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.95	1.70	9.28	5.46	50.36	23.83	5.46	4.94	4.44	0.45	1.12	1.07	
2	2.21	1.70	9.28	4.94	18.53	21.80	5.46	4.94	4.44	1.23	1.12	1.40	
3	1.95	1.70	9.28	5.46	11.41	23.83	5.46	4.94	4.44	1.23	1.12	1.40	
4	1.95	1.70	9.28	5.99	8.27	19.82	4.94	4.44	4.44	1.23	1.12	1.40	
5	1.95	1.70	9.28	4.94	50.36	17.27	5.99	4.44	4.44	1.23	1.12	1.40	
6	1.95	1.70	8.27	3.96	41.94	14.84	5.46	4.44	4.44	1.23	1.12	1.40	
7	1.95	1.70	8.27	4.94	19.82	13.67	5.46	4.44	4.44	1.23	1.12	1.40	
8	1.95	1.70	17.27	4.44	14.84	12.52	5.46	4.44	4.44	1.23	1.12	1.40	
9	1.95	1.70	7.68	4.44	12.52	12.52	5.46	4.44	4.44	1.23	1.12	1.40	
10	1.95	1.70	4.94	4.44	21.80	11.41	5.46	4.44	4.44	1.23	1.12	1.40	
11	1.95	1.70	5.46	4.94	16.04	12.52	5.99	4.44	4.44	1.23	1.07	1.64	
12	1.95	1.95	5.46	5.46	14.84	11.41	5.99	4.44	4.44	1.23	1.07	2.48	
13	1.95	13.67	5.46	3.49	21.80	9.28	5.46	4.44	4.44	1.23	1.07	2.48	
14	1.95	11.41	5.46	4.94	13.67	10.33	6.54	4.44	4.44	1.23	1.07	2.48	
15	1.95	8.27	4.94	10.33	14.84	11.41	7.68	4.44	4.44	1.23	1.07	2.48	
16	1.95	8.27	4.44	6.54	19.82	11.41	6.54	4.44	4.44	1.23	1.07	2.48	
17	1.70	5.99	5.99	6.54	19.82	11.41	6.54	4.44	4.44	1.23	1.07	2.48	
18	1.70	4.94	5.99	5.99	19.82	11.41	5.99	4.44	4.44	1.23	1.07	2.48	
19	1.70	3.04	5.99	5.99	19.82	10.33	4.94	4.44	4.44	1.23	1.07	2.48	
20	1.95	3.96	5.99	5.99	19.82	8.27	4.94	4.44	4.44	1.17	1.07	2.61	
21	1.95	5.99	5.46	6.54	19.82	7.68	4.94	4.44	4.44	1.17	1.01	2.97	
22	1.95	5.99	3.96	6.54	19.82	6.54	4.94	4.44	4.44	1.17	1.01	2.97	
23	1.95	5.46	3.04	5.99	25.92	6.54	4.94	4.44	4.44	1.17	1.01	2.97	
24	1.95	5.99	3.04	13.67	28.06	6.54	4.94	4.44	4.44	1.17	1.01	2.97	
25	1.95	5.46	3.49	17.27	21.80	5.99	4.44	4.44	4.44	1.17	1.01	2.97	
26	1.70	5.46	3.96	13.67	18.53	5.99	4.44	4.44	4.44	1.12	1.01	2.97	
27	1.70	5.46	2.76	32.50	19.82	5.99	4.44	4.44	4.44	1.12	1.01	2.97	
28	1.70	5.99	2.76	34.79	19.82	6.54	4.44	4.44	4.44	1.12	1.01	2.97	
29	1.70	7.10	3.49	14.84	16.04	5.46	4.44	4.44	4.44	1.12	1.01	2.97	
30	1.70	37.13	5.99	9.28	14.84	5.46	4.94	4.44	4.44	1.12		2.97	
31		13.67		17.27	19.82		4.94		4.44	1.12		2.97	
Total	56.76	183.90	185.96	281.58	654.43	342.02	167.06	134.70	137.64	36.33	30.99	70.43	2281.80 Tonday
Mean	1.89	5.93	6.20	9.08	21.11	11.40	5.39	4.49	4.44	1.17	1.07	2.27	6.23 Ton/day
Max	2.21	37.13	17.27	34.79	50.36	23.83	7.68	4.94	4.44	1.23	1.12	2.97	50.36 Ton/day
Min	1.70	1.70	2.76	3.49	8.27	5.46	4.44	4.44	4.44	0.45	1.01	1.07	0.45 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Pong Din</b>	<b>Amphoe Doi Saket</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	129 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.8520		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.3530 QW^{1.28100}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.55	0.19	0.73	1.71	5.43	5.72	2.23	2.06	1.22	0.73	0.46	0.38	
2	0.55	0.19	0.73	1.02	2.78	8.96	2.06	2.06	1.22	0.73	0.46	0.30	
3	0.64	0.19	0.73	0.92	2.41	6.16	2.06	2.06	1.22	0.73	0.46	0.30	
4	0.73	0.19	0.73	0.73	2.06	5.14	2.06	2.06	1.22	0.73	0.46	0.30	
5	0.73	0.19	0.73	0.64	9.94	4.85	2.41	2.06	1.22	0.55	0.46	0.30	
6	0.73	0.19	0.55	0.55	7.07	4.30	2.06	2.06	1.12	0.46	0.46	0.30	
7	0.64	0.19	0.55	0.55	4.02	4.02	2.06	2.06	1.12	0.46	0.46	0.30	
8	0.46	0.19	0.64	0.55	2.78	3.49	2.06	2.06	1.12	0.46	0.46	0.30	
9	0.46	0.19	0.82	0.55	2.06	2.97	2.41	2.06	1.12	0.46	0.46	0.30	
10	0.46	0.19	0.73	0.55	7.07	2.97	2.41	2.41	1.12	0.46	0.46	0.30	
11	0.46	0.19	0.73	0.64	4.57	2.78	2.06	2.06	1.38	0.46	0.46	0.30	
12	0.46	0.16	0.73	0.92	3.75	2.60	2.23	2.06	4.85	0.46	0.46	0.30	
13	0.46	0.12	0.73	0.82	5.43	2.60	2.06	2.06	1.02	0.46	0.46	0.30	
14	0.46	0.12	0.73	0.64	3.49	3.75	2.06	2.06	1.02	0.46	0.46	0.30	
15	0.46	0.46	0.73	0.73	2.41	4.30	4.30	2.06	0.92	0.46	0.46	0.30	
16	0.46	0.73	0.64	0.73	2.23	2.60	2.60	2.06	0.73	0.46	0.46	0.30	
17	0.38	0.73	0.55	0.73	5.72	2.97	2.60	2.06	0.73	0.46	0.46	0.30	
18	0.30	0.55	0.73	0.73	8.00	4.02	2.23	1.88	0.73	0.46	0.46	0.30	
19	0.30	0.22	0.73	0.64	5.14	4.57	2.06	1.71	0.73	0.46	0.46	0.30	
20	0.30	0.22	0.73	0.64	4.02	5.43	2.06	1.88	0.73	0.46	0.46	0.30	
21	0.30	0.22	0.64	0.64	3.23	5.14	2.06	1.71	0.73	0.46	0.46	0.26	
22	0.26	0.26	0.64	0.64	4.30	4.30	2.06	1.71	0.73	0.46	0.46	0.26	
23	0.22	0.30	0.64	0.46	14.61	4.02	1.88	1.71	0.73	0.55	0.46	0.22	
24	0.22	0.30	0.64	0.73	8.96	3.23	1.71	1.71	0.73	0.46	0.46	0.22	
25	0.22	0.30	0.64	3.49	6.61	2.41	1.71	1.71	0.73	0.46	0.46	0.22	
26	0.22	0.30	0.64	1.54	4.57	2.41	1.71	1.71	0.73	0.46	0.46	0.22	
27	0.22	0.38	0.64	2.41	8.96	2.41	1.71	1.71	0.73	0.46	0.46	0.22	
28	0.19	0.64	0.55	4.30	4.57	2.97	1.71	1.71	0.73	0.46	0.46	0.22	
29	0.19	0.73	1.12	3.75	3.23	2.60	1.71	1.71	0.73	0.46	0.46	0.22	
30	0.19	0.82	3.49	3.23	4.02	2.23	2.06	1.71	0.73	0.46		0.19	
31		0.82		2.78	4.02		2.06		0.73	0.46		0.19	
Total	12.22	10.47	23.61	38.96	157.46	115.92	66.46	57.94	32.57	15.52	13.34	8.52	552.99 Tonday
Mean	0.41	0.34	0.79	1.26	5.08	3.86	2.14	1.93	1.05	0.50	0.46	0.27	1.51 Ton/day
Max	0.73	0.82	3.49	4.30	14.61	8.96	4.30	2.41	4.85	0.73	0.46	0.38	14.61 Ton/day
Min	0.19	0.12	0.55	0.46	2.06	2.23	1.71	1.71	0.73	0.46	0.46	0.19	0.12 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Sop Win</b>	<b>Amphoe Mae Wang</b>	<b>Changwat Chiang Mai</b>
<b>Drainage Area</b>	389 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.7880		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5390 QW^{1.72100}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.02	1.19	4.64	2.02	2.45	278.00	9.05	13.82	5.52	3.95	1.65	1.05	
2	2.45	1.19	3.42	1.81	3.16	160.80	18.57	13.82	5.52	4.23	1.65	0.92	
3	2.23	1.19	2.92	1.81	3.16	83.06	18.57	13.82	5.52	3.95	1.65	0.92	
4	2.23	1.19	2.45	1.49	2.92	62.70	18.57	13.82	5.52	3.68	1.65	0.92	
5	2.02	1.19	1.81	1.33	11.33	90.37	25.84	13.82	5.52	3.68	1.65	0.92	
6	1.81	1.19	1.49	1.33	27.15	39.60	12.97	13.82	5.52	3.68	1.65	0.92	
7	1.81	1.05	1.65	1.33	13.82	29.84	10.55	19.71	5.52	3.68	1.65	0.92	
8	1.81	0.79	1.81	1.65	10.55	22.08	7.97	83.06	5.52	3.42	1.49	0.92	
9	1.81	0.92	1.49	2.02	5.98	16.51	7.45	23.30	5.07	2.92	1.49	0.92	
10	1.81	1.05	1.49	1.81	9.79	12.97	7.45	13.82	4.23	2.68	1.65	0.92	
11	1.81	1.05	2.23	1.65	181.77	12.97	11.33	11.33	4.23	2.68	1.49	0.92	
12	1.81	1.33	1.81	1.49	33.61	13.82	9.79	9.05	4.23	2.68	1.33	0.92	
13	1.65	1.49	1.65	1.49	15.59	13.82	8.50	8.50	4.23	2.68	1.33	0.79	
14	1.65	1.33	1.65	1.49	14.69	15.59	10.55	9.05	4.23	2.68	1.33	0.79	
15	1.65	1.49	1.65	1.49	12.14	12.14	28.48	11.33	3.95	2.45	1.33	0.68	
16	1.65	1.65	1.49	1.33	9.05	9.05	14.69	8.50	3.68	2.23	1.33	0.92	
17	1.65	2.45	1.65	1.33	11.33	7.97	11.33	7.97	3.68	2.45	1.19	0.79	
18	1.49	1.49	2.92	1.19	50.48	27.15	9.05	7.45	3.68	2.45	1.19	0.68	
19	1.33	1.19	4.23	1.05	14.69	160.80	8.50	7.45	3.68	2.45	1.19	0.68	
20	1.33	1.49	2.92	0.92	8.50	33.61	7.45	6.94	3.68	2.45	1.19	0.68	
21	1.81	1.65	2.02	1.33	8.50	18.57	6.94	6.45	3.68	2.02	1.19	0.68	
22	4.23	2.92	1.65	1.19	20.88	12.97	7.45	6.45	3.68	2.02	1.19	0.57	
23	2.02	28.48	1.49	1.05	23.30	12.14	7.97	6.45	3.68	2.02	1.05	0.57	
24	1.65	4.23	1.19	2.02	50.48	11.33	7.97	6.45	3.68	2.02	1.05	0.57	
25	1.65	4.23	1.33	4.23	53.49	8.50	7.97	6.45	3.68	2.02	1.05	0.47	
26	1.65	2.68	1.49	2.68	28.48	41.69	7.97	5.98	3.68	1.81	1.05	0.47	
27	1.49	2.45	1.33	2.92	43.82	248.33	7.45	5.52	3.68	1.65	1.05	0.47	
28	1.33	3.68	1.33	4.23	56.45	29.84	7.45	5.52	3.68	1.65	1.05	0.47	
29	1.19	3.68	1.49	3.16	37.56	15.59	14.69	5.52	4.23	1.65	1.05	0.57	
30	1.19	4.64	1.81	2.23	33.61	10.55	90.37	5.52	7.97	1.49		0.47	
31		9.79		2.02	1023.68		13.82		3.95	1.49		0.47	
Total	54.23	94.34	60.50	57.09	1822.41	1512.36	436.71	370.69	138.32	80.91	38.81	22.96	4689.33 Tonday
Mean	1.81	3.04	2.02	1.84	58.79	50.41	14.09	12.36	4.46	2.61	1.34	0.74	12.81 Ton/day
Max	4.23	28.48	4.64	4.23	1023.68	278.00	90.37	83.06	7.97	4.23	1.65	1.05	1023.68 Ton/day
Min	1.19	0.79	1.19	0.92	2.45	7.97	6.94	5.52	3.68	1.49	1.05	0.47	0.47 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Phan Ton	<b>Amphoe</b> Mae Wang	<b>Changwat</b> Chiang Mai
<b>Drainage Area</b>	491 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8460		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.3210 QW^{1.85000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.27	0.36	0.27	0.40	2278.09	1.76	1.03	0.24	0.79	0.08	0.24	
2	0.13	0.27	0.34	0.27	0.36	139.79	2.85	0.45	0.27	0.61	0.08	0.24	
3	0.13	0.27	0.34	0.27	0.34	69.63	3.08	0.40	0.34	0.55	0.07	0.24	
4	0.13	0.27	0.36	0.29	0.34	47.65	6.60	0.36	0.34	0.55	0.07	0.24	
5	0.13	0.27	0.40	0.40	1.25	285.18	23.20	0.36	0.34	0.50	0.07	0.24	
6	0.10	0.27	0.36	0.36	10.68	72.64	2.85	0.40	0.34	0.36	0.07	0.24	
7	0.13	0.27	0.34	0.34	2.41	33.71	1.37	2.41	0.34	0.34	0.07	0.24	
8	0.13	0.29	0.34	0.29	1.63	13.33	1.25	589.11	0.34	0.34	0.07	0.24	
9	0.13	0.29	0.34	0.27	0.36	0.92	0.79	9.45	0.34	0.29	0.07	0.27	
10	0.13	0.29	0.36	0.27	0.55	4.37	1.14	1.76	0.27	0.27	0.07	0.34	
11	0.13	0.29	0.40	0.27	78.84	4.65	1.90	0.92	0.27	0.27	0.07	0.34	
12	0.13	0.27	0.36	0.27	17.56	5.79	1.14	0.85	0.27	0.27	0.06	0.34	
13	0.13	0.17	0.34	0.27	2.62	5.02	0.85	0.67	0.27	0.27	0.06	0.34	
14	0.13	0.14	0.36	0.29	1.76	5.79	1.50	0.85	0.27	0.27	0.06	0.34	
15	0.13	0.10	0.55	0.34	1.37	4.10	37.36	0.85	0.27	0.24	0.06	0.29	
16	0.13	0.10	0.50	0.34	0.45	2.20	10.06	0.61	0.24	0.24	0.06	0.29	
17	0.13	0.13	0.45	0.34	0.92	2.05	2.05	0.55	0.24	0.24	0.06	0.29	
18	0.13	0.13	0.40	0.34	22.02	2.20	1.37	0.55	0.24	0.24	0.09	0.29	
19	0.13	0.13	0.36	0.29	2.05	3.32	1.03	0.55	0.19	0.24	0.24	0.29	
20	0.13	0.13	0.34	0.27	0.67	25.66	0.79	0.55	0.17	0.24	0.24	0.29	
21	0.19	0.19	0.29	0.27	1.14	6.60	0.55	0.50	0.17	0.19	0.24	0.29	
22	0.50	1.50	0.29	0.27	6.19	2.62	0.45	0.34	0.17	0.13	0.24	0.29	
23	0.40	1.03	0.29	0.29	15.50	1.90	0.45	0.34	0.17	0.09	0.24	0.29	
24	0.40	0.61	0.29	0.40	75.71	0.85	0.55	0.34	0.17	0.09	0.24	0.29	
25	0.36	0.55	0.34	0.50	14.76	0.67	0.67	0.34	0.14	0.09	0.24	0.29	
26	0.27	0.36	0.27	0.55	50.19	1.03	0.85	0.34	0.13	0.09	0.24	0.29	
27	0.27	0.36	0.27	0.55	33.71	1.37	0.79	0.29	0.13	0.09	0.24	0.29	
28	0.27	0.40	0.27	0.55	22.02	12.65	0.61	0.27	0.13	0.09	0.24	0.29	
29	0.27	0.36	0.27	0.55	35.52	3.32	0.79	0.24	0.22	0.09	0.24	0.29	
30	0.27	0.36	0.27	0.55	24.42	2.41	1.76	0.24	0.85	0.08		0.27	
31		1.37		0.45	2051.39		2.05		0.85	0.08		0.27	
Total	5.77	11.44	10.45	10.98	2477.13	3039.51	112.46	615.92	8.72	8.23	3.88	8.78	6313.27 Tonday
Mean	0.19	0.37	0.35	0.35	79.91	101.32	3.63	20.53	0.28	0.27	0.13	0.28	17.25 Ton/day
Max	0.50	1.50	0.55	0.55	2051.39	2278.09	37.36	589.11	0.85	0.79	0.24	0.34	2278.09 Ton/day
Min	0.10	0.10	0.27	0.27	0.34	0.67	0.45	0.24	0.13	0.08	0.06	0.24	0.06 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Mueang Kud</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,653	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2011-Cont'd					
<b>Actual Measurement</b>	2011-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	28					
<b>R-Square</b>	0.7340					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.5030 QW^{1.95400}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	3.50	232.31	11.68	32.03	369.68	51.17	38.44	24.33	29.97	7.92	4.03	
2	2.67	2.67	66.20	11.68	34.08	451.32	54.02	34.08	22.54	26.13	7.92	4.03	
3	2.67	2.35	18.06	10.56	36.27	911.53	84.06	22.54	22.54	16.68	7.92	4.03	
4	2.67	2.35	11.68	10.56	29.97	712.77	56.95	20.99	22.54	15.34	7.92	4.03	
5	2.05	2.35	10.56	10.56	108.96	567.92	66.20	32.03	22.54	15.34	7.19	4.03	
6	2.05	2.35	9.50	9.50	476.10	427.18	59.96	40.76	20.99	15.34	7.19	4.03	
7	2.67	2.35	9.50	8.70	209.31	347.82	76.46	113.35	20.99	15.34	7.19	4.03	
8	5.18	3.01	8.70	15.34	128.34	173.59	66.20	240.23	20.99	12.85	7.19	4.03	
9	5.18	4.59	9.50	12.85	108.96	133.54	45.69	209.31	20.99	15.34	7.19	4.03	
10	5.18	4.59	11.68	10.56	299.34	118.24	51.17	96.05	20.99	15.34	7.19	4.03	
11	5.18	4.59	12.85	7.92	149.74	123.24	100.31	80.16	20.99	15.34	7.19	4.03	
12	5.18	5.18	10.56	9.50	138.84	144.24	100.31	66.20	20.99	14.07	6.48	4.03	
13	5.18	8.70	15.34	12.85	113.35	133.54	123.24	56.95	20.99	14.07	6.48	4.03	
14	5.18	29.97	19.50	7.92	108.96	138.84	224.51	51.17	20.99	14.07	6.48	4.03	
15	5.18	24.33	19.50	7.92	72.73	123.24	173.59	48.39	19.50	14.07	6.48	4.03	
16	4.59	24.33	11.68	8.70	104.53	59.96	149.74	45.69	18.06	14.07	5.18	4.03	
17	4.59	16.68	9.50	8.70	614.42	56.95	138.84	43.06	18.06	12.85	5.18	4.03	
18	5.82	10.56	28.05	7.92	326.61	100.31	123.24	34.08	16.68	10.56	5.18	4.03	
19	5.18	4.03	43.06	7.92	123.24	308.30	96.05	32.03	16.68	9.50	5.18	4.03	
20	5.82	4.03	43.06	7.92	100.31	281.80	84.06	32.03	16.68	8.70	5.18	4.03	
21	5.82	4.03	16.68	9.50	201.91	187.49	59.96	29.97	16.68	8.70	5.18	4.03	
22	5.82	10.56	15.34	16.68	264.79	216.85	56.95	28.05	15.34	8.70	5.18	4.03	
23	5.82	18.06	15.34	14.07	583.22	155.34	54.02	28.05	15.34	8.70	5.18	4.03	
24	5.18	19.50	16.68	15.34	1462.56	72.73	51.17	28.05	15.34	8.70	4.59	4.03	
25	4.59	16.68	12.85	56.95	1546.70	66.20	43.06	26.13	15.34	8.70	4.59	4.03	
26	4.03	14.07	16.68	43.06	358.67	56.95	40.76	26.13	15.34	7.92	4.59	2.67	
27	4.03	6.48	15.34	34.08	337.13	59.96	38.44	26.13	15.34	7.92	4.59	1.26	
28	4.03	8.70	12.85	40.76	415.36	69.43	36.27	26.13	15.34	7.92	4.03	1.26	
29	4.03	12.85	11.68	32.03	347.82	63.04	38.44	26.13	20.99	7.92	4.03	1.26	
30	4.03	18.06	15.34	18.06	290.51	54.02	38.44	24.33	59.96	7.92		1.26	
31		66.20		18.06	326.61		43.06		26.13	7.92		1.26	
Total	133.10	357.70	749.57	497.85	9451.37	6686.02	2426.34	1606.64	640.20	395.99	175.79	109.72	23230.29 Tonday
Mean	4.44	11.54	24.99	16.06	304.88	222.87	78.27	53.55	20.65	12.77	6.06	3.54	63.47 Ton/day
Max	5.82	66.20	232.31	56.95	1546.70	911.53	224.51	240.23	59.96	29.97	7.92	4.03	1546.70 Ton/day
Min	2.05	2.35	8.70	7.92	29.97	54.02	36.27	20.99	15.34	7.92	4.03	1.26	1.26 Ton/day



## WATER YEAR : 2019

## PING RIVER BASIN

## Nam Mae Taeng at Ban Huai Pa Cang, Chiang Mai (P.92A)

Lat 19 - 13 - 15 N Long 98 - 50 - 51 E

Location : on left bank at Ban Huai Pa Cang.

	<b>Ban</b>	<b>Huai Pa Cang</b>	<b>Amphoe</b>	<b>Mae Taeng</b>	<b>Changwat</b>	<b>Chiang Mai</b>
<b>Drainage Area</b>	1,723 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2017-Cont'd					
<b>Actual Measurement</b>	2017-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	27					
<b>R-Square</b>	0.7070					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 1.0430 QW^{1.72200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.29	1.86	178.61	8.58	36.72	408.62	59.42	63.79	18.91	16.10	3.04	0.43	
2	5.33	1.04	143.01	8.58	40.15	627.86	70.58	43.69	16.10	16.10	3.04	0.43	
3	4.51	1.04	49.25	8.58	36.72	928.76	107.76	40.15	16.10	15.20	3.04	0.43	
4	5.33	1.04	36.72	7.98	24.82	669.70	77.77	40.15	16.10	12.65	3.04	0.43	
5	5.33	1.04	17.01	5.77	75.27	617.91	107.76	36.72	16.10	12.65	3.04	0.43	
6	5.33	1.04	11.84	4.51	523.27	461.11	116.96	38.42	16.10	12.65	2.39	0.43	
7	5.33	1.04	11.16	4.51	401.62	285.02	107.76	82.88	16.10	12.65	2.39	0.43	
8	4.51	1.04	11.16	4.12	88.12	230.77	72.91	201.53	14.33	11.16	1.86	0.43	
9	4.51	1.04	11.16	5.33	57.28	178.61	55.18	104.77	14.33	11.16	1.04	0.43	
10	4.51	1.04	11.84	5.33	51.17	143.01	57.28	77.77	14.33	10.49	1.04	0.43	
11	3.74	1.04	10.49	6.29	156.85	156.85	82.88	63.79	14.33	8.58	1.04	0.43	
12	3.74	1.86	17.01	8.58	163.97	171.22	149.86	59.42	14.33	8.58	1.04	0.43	
13	3.74	9.20	19.89	8.58	113.86	156.85	143.01	51.17	14.33	8.58	1.04	0.43	
14	3.74	19.89	22.17	8.58	129.71	160.39	146.42	49.25	12.65	8.58	1.04	0.43	
15	3.74	27.59	18.91	7.98	80.31	116.96	285.02	43.69	12.65	8.58	1.04	0.43	
16	3.74	22.17	14.33	5.33	77.77	116.96	171.22	43.69	11.84	8.58	1.04	0.43	
17	3.74	10.49	13.48	5.33	171.22	104.77	149.86	43.69	12.65	7.98	1.04	0.26	
18	3.38	7.98	23.48	5.33	246.54	113.86	139.63	40.15	12.65	6.29	1.04	0.26	
19	3.38	6.29	57.28	4.91	136.29	193.76	110.79	40.15	12.65	6.29	1.04	0.26	
20	3.38	7.40	57.28	4.51	85.48	210.43	88.12	40.15	12.65	5.33	1.04	0.26	
21	3.74	5.77	43.69	5.33	93.49	205.47	70.58	40.15	11.16	5.33	1.04	0.26	
22	5.33	11.84	43.69	16.10	241.23	225.61	63.79	36.72	11.84	5.33	1.04	0.26	
23	5.33	19.89	9.83	10.49	648.24	126.47	63.79	36.72	12.65	5.33	1.04	0.22	
24	4.51	23.48	8.58	12.65	1180.63	107.76	59.42	36.72	9.83	5.33	0.71	0.17	
25	3.74	20.89	18.91	59.42	1355.26	85.48	53.11	27.59	9.83	4.91	0.71	0.17	
26	3.74	8.58	11.84	49.25	461.11	72.91	51.17	27.59	9.83	3.74	0.71	0.17	
27	3.74	7.40	10.49	43.69	401.62	68.29	43.69	27.59	8.58	3.74	0.71	0.17	
28	2.71	18.91	8.58	43.69	326.80	82.88	43.69	22.17	8.58	3.74	0.71	0.17	
29	1.86	16.10	8.58	36.72	241.23	72.91	51.17	22.17	9.83	3.74	0.71	0.17	
30	1.86	35.06	8.58	16.10	333.43	59.42	96.23	22.17	43.69	3.74		0.17	
31		96.23		19.89	353.22		61.59		18.91	3.74		0.17	
Total	123.86	389.28	908.85	442.04	8333.40	7160.62	2958.42	1504.61	443.96	256.85	41.70	10.02	22573.61 Tonday
Mean	4.13	12.56	30.30	14.26	268.82	238.69	95.43	50.15	14.32	8.29	1.44	0.32	61.68 Ton/day
Max	6.29	96.23	178.61	59.42	1355.26	928.76	285.02	201.53	43.69	16.10	3.04	0.43	1355.26 Ton/day
Min	1.86	1.04	8.58	4.12	24.82	59.42	43.69	22.17	8.58	3.74	0.71	0.17	0.17 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Setuwaree Bridge	<b>Amphoe</b> Mueang	<b>Changwat</b> Lampang
<b>Drainage Area</b>	3,478 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9060		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.1310 QW^{1.63600}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.52	33.96	13.73	33.96	82.85	1414.98	11.83	202.09	6.82	1.80	2.91	1.08	
2	13.01	79.93	0.63	18.95	103.39	3184.75	20.06	298.37	8.37	1.72	2.12	0.63	
3	10.26	191.10	0.79	16.78	63.24	2038.42	26.03	230.61	6.82	1.61	1.80	0.32	
4	5.40	130.30	3.81	38.22	45.76	967.87	23.57	159.57	4.26	1.61	1.80	0.49	
5	4.08	45.76	15.74	21.21	164.67	493.98	52.98	74.20	2.20	1.80	1.72	0.71	
6	4.08	27.29	3.37	20.06	159.57	526.83	36.78	48.12	1.74	1.80	1.61	0.63	
7	2.67	20.06	1.96	18.95	85.82	71.40	33.96	116.54	1.52	2.80	1.61	0.24	
8	2.57	16.78	28.58	17.85	29.89	207.68	26.03	85.82	1.13	3.04	1.61	0.40	
9	2.44	12.77	14.72	22.38	16.78	125.65	20.06	248.41	0.95	3.15	1.52	0.35	
10	39.69	9.20	3.37	24.79	29.89	50.53	16.78	266.73	0.95	3.29	1.52	0.32	
11	135.02	6.82	4.74	27.29	36.78	45.76	14.72	298.37	0.79	3.15	1.52	0.18	
12	326.34	6.82	2.96	50.53	38.22	43.44	12.77	318.84	0.79	3.15	1.52	0.09	
13	279.22	9.20	17.85	39.69	22.38	41.17	13.73	202.09	0.49	3.04	1.52	0.03	
14	254.46	12.77	26.03	27.29	15.74	35.36	41.17	116.54	0.92	2.22	1.34	0.03	
15	180.34	7.58	17.85	41.17	12.77	20.06	48.12	191.10	1.17	1.92	1.24	0.03	
16	91.87	6.82	16.78	15.74	18.95	28.58	45.76	149.56	1.17	1.80	1.17	0.05	
17	154.53	6.27	15.74	12.77	357.00	26.03	36.78	50.53	1.34	1.80	1.08	0.05	
18	260.57	5.74	6.27	10.93	537.97	32.58	36.78	27.29	2.01	1.80	1.08	0.12	
19	164.67	5.23	2.20	8.37	91.87	185.69	33.96	107.70	2.44	1.61	1.00	0.18	
20	99.14	5.23	2.96	5.74	22.38	196.56	31.22	68.64	2.57	1.08	1.00	0.20	
21	41.17	4.26	1.74	8.37	43.44	48.12	29.89	36.78	2.57	1.24	1.00	0.24	
22	50.53	6.82	2.20	18.95	33.96	48.12	31.22	77.04	2.57	1.34	0.92	0.27	
23	74.20	3.81	2.57	15.74	36.78	32.58	27.29	10.05	2.57	1.52	0.92	0.20	
24	130.30	1.13	3.37	16.78	135.02	16.78	21.21	5.74	2.22	1.52	0.92	0.18	
25	58.02	0.49	16.78	22.38	125.65	17.85	23.57	7.58	1.61	1.61	1.00	0.14	
26	125.65	0.31	4.74	21.21	79.93	17.85	23.57	7.58	1.34	2.34	1.00	0.14	
27	291.93	0.31	5.74	41.17	79.93	38.22	18.95	12.77	1.24	2.57	0.92	0.09	
28	202.09	0.31	33.96	77.04	493.98	29.89	15.74	12.77	1.24	2.67	0.92	0.14	
29	135.02	0.36	15.74	31.22	248.41	17.85	20.06	7.58	1.42	2.57	1.00	0.20	
30	48.12	0.79	18.95	18.95	272.95	11.83	48.12	6.82	1.80	2.57		0.14	
31		0.95		23.57	1606.20		164.67		1.61	2.57		0.14	
Total	3203.91	659.17	305.87	768.05	5092.17	10016.41	1007.38	3445.83	68.64	66.71	39.29	8.01	24681.44 Tonday
Mean	106.80	21.26	10.20	24.78	164.26	333.88	32.50	114.86	2.21	2.15	1.35	0.26	67.44 Ton/day
Max	326.34	191.10	33.96	77.04	1606.20	3184.75	164.67	318.84	8.37	3.29	2.91	1.08	3184.75 Ton/day
Min	2.44	0.31	0.63	5.74	12.77	11.83	11.83	5.74	0.49	1.08	0.92	0.03	0.03 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	8,924 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.9000		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.5390 QW^{1.56000}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.71	5.83	6.23	0.56	11.22	2160.79	36.84	9.99	3.31	0.77	0.18	0.10	
2	1.71	6.23	6.23	0.63	8.82	2944.28	23.68	15.75	2.76	0.85	0.21	0.08	
3	1.91	5.44	5.06	2.32	55.47	4987.82	20.18	20.18	2.76	0.77	0.23	0.08	
4	1.71	3.64	8.25	3.31	77.59	4281.90	22.39	22.39	2.76	0.85	0.23	0.07	
5	3.98	4.69	12.49	3.64	55.47	2227.24	31.98	23.68	2.76	1.01	0.26	0.07	
6	6.23	8.25	7.16	2.99	111.11	1296.00	85.53	27.72	1.91	1.71	0.28	0.05	
7	5.44	7.70	8.82	2.99	302.54	923.52	90.99	22.39	1.91	0.85	0.26	0.04	
8	5.44	8.25	7.70	2.99	222.30	465.46	80.20	21.12	1.01	0.63	0.31	0.07	
9	4.33	8.25	5.83	2.99	130.10	389.32	60.15	23.68	1.35	0.49	0.37	0.07	
10	3.64	5.44	5.83	2.76	57.79	334.95	53.27	12.49	1.18	0.37	0.37	0.07	
11	2.99	5.06	3.31	2.99	42.74	182.44	44.78	14.09	1.01	0.37	0.31	0.06	
12	2.76	3.64	2.76	3.31	153.59	150.15	34.94	20.18	1.01	0.43	0.31	0.05	
13	6.64	3.31	2.99	3.98	136.67	140.00	29.11	29.11	1.01	0.43	0.23	0.04	
14	5.06	2.54	2.54	7.70	90.99	157.05	25.00	26.35	0.93	0.37	0.23	0.04	
15	7.70	2.54	2.54	9.99	57.79	133.37	55.47	16.60	0.93	0.31	0.14	0.04	
16	8.25	2.99	3.98	6.23	34.94	114.20	85.53	10.60	0.85	0.31	0.16	0.04	
17	9.40	3.98	4.69	4.33	46.85	96.56	80.20	10.60	0.93	0.37	0.12	0.04	
18	8.82	2.99	3.64	3.31	130.10	80.20	57.79	12.49	1.01	0.93	0.12	0.03	
19	7.70	2.54	3.31	2.76	615.96	67.43	46.85	13.28	1.01	1.53	0.08	0.02	
20	9.40	1.91	2.99	2.11	538.82	329.47	40.74	9.40	1.01	0.93	0.08	0.02	
21	8.25	1.53	2.11	1.35	256.19	721.10	33.45	7.70	0.93	0.77	0.08	0.01	
22	9.99	2.99	1.18	0.70	292.00	509.02	27.72	9.99	0.85	0.37	0.08	0.01	
23	11.22	11.22	0.93	0.56	292.00	472.62	22.39	7.16	1.01	0.26	0.16	0.01	
24	13.28	30.53	0.70	0.31	190.18	324.02	19.27	5.06	1.53	0.18	0.21	0.01	
25	9.99	19.27	0.63	4.33	357.21	202.05	16.60	6.23	1.53	0.37	0.37	0.01	
26	9.40	9.40	0.93	5.06	546.37	123.65	15.75	3.98	1.18	0.28	0.49	0.01	
27	13.28	5.44	1.53	11.85	297.25	114.20	29.11	4.33	0.85	0.23	0.26	0.01	
28	8.82	3.64	0.77	8.82	226.48	96.56	31.98	5.06	0.85	0.21	0.12	0.01	
29	7.70	4.33	0.85	17.48	623.88	82.85	22.39	5.06	0.85	0.21	0.12	0.01	
30	6.23	3.64	0.63	36.84	674.30	62.54	19.27	3.98	0.77	0.18		0.01	
31		4.33		18.36	647.84		16.60		0.85	0.18		0.00	
Total	202.98	191.54	116.61	177.55	7284.56	24170.76	1260.15	420.64	42.61	17.52	6.37	1.18	33892.47 Tonday
Mean	6.77	6.18	3.89	5.73	234.99	805.69	40.65	14.02	1.37	0.57	0.22	0.04	92.60 Ton/day
Max	13.28	30.53	12.49	36.84	674.30	4987.82	90.99	29.11	3.31	1.71	0.49	0.10	4987.82 Ton/day
Min	1.71	1.53	0.63	0.31	8.82	62.54	15.75	3.98	0.77	0.18	0.08	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	1,392 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.7120		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.9580 QW^{1.09900}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.75	0.29	1.83	0.85	1.33	4.91	1.63	1.53	1.24	1.33	5.30	7.01	
2	6.29	0.23	1.83	0.78	1.24	2.20	1.63	1.53	1.24	1.33	5.10	7.01	
3	6.29	0.29	1.83	0.78	1.24	1.83	1.63	1.43	1.33	2.58	7.28	7.01	
4	6.75	0.78	1.73	0.78	1.53	1.83	1.73	1.53	1.33	3.23	6.75	7.01	
5	6.75	0.78	1.73	1.24	3.09	1.83	1.63	1.63	1.33	3.23	6.29	6.75	
6	4.71	0.78	1.73	0.85	2.45	1.73	1.73	1.53	1.73	3.23	5.89	6.75	
7	1.95	0.85	2.70	0.85	1.83	1.63	1.73	1.43	1.33	3.23	5.30	6.75	
8	7.55	0.78	1.73	0.85	1.73	1.53	1.73	1.95	1.33	3.23	3.65	6.75	
9	7.28	0.85	1.63	0.95	1.43	1.53	1.73	7.81	1.33	3.23	3.37	6.75	
10	14.10	1.53	1.63	0.95	2.07	1.73	1.63	17.25	1.43	3.51	4.71	6.75	
11	49.16	0.95	1.63	1.04	2.58	1.63	1.63	15.78	1.43	3.23	8.08	5.69	
12	55.09	0.85	1.63	1.04	1.73	1.73	1.53	8.62	1.63	3.23	7.81	7.81	
13	53.86	1.04	1.63	5.49	1.63	1.83	1.53	1.73	2.20	3.23	7.81	7.55	
14	53.27	2.45	1.63	14.77	1.53	1.63	1.63	1.63	1.83	3.23	7.55	7.55	
15	53.27	2.32	1.63	13.76	1.43	1.63	1.73	1.83	1.83	4.08	5.30	7.55	
16	52.68	2.45	1.63	21.49	1.43	1.83	1.73	0.43	1.73	4.52	6.75	7.55	
17	38.39	3.51	1.63	30.51	2.45	2.07	1.73	0.23	2.07	3.23	3.09	7.55	
18	24.36	2.07	1.73	37.85	2.07	1.63	1.73	0.16	2.20	3.23	0.36	7.55	
19	14.10	1.83	1.63	45.66	1.53	2.32	2.32	0.15	1.83	3.23	0.16	7.55	
20	7.55	1.83	1.33	44.50	1.33	2.96	1.53	0.15	1.63	3.23	1.14	7.55	
21	7.28	1.83	1.43	43.34	1.43	1.83	1.63	0.13	1.33	3.23	6.75	7.28	
22	4.52	1.73	0.78	28.68	1.83	1.73	2.07	0.23	1.33	4.23	7.01	7.28	
23	2.20	1.73	0.78	24.36	1.95	1.63	2.07	0.43	1.33	5.10	7.01	7.28	
24	1.43	2.58	0.78	17.62	1.73	1.53	2.07	1.24	1.43	5.89	7.01	7.28	
25	1.33	1.73	0.78	13.43	1.73	1.53	2.32	1.24	1.53	6.75	7.01	7.55	
26	1.33	1.73	0.78	14.10	1.63	1.53	1.95	1.24	1.33	6.75	7.01	7.55	
27	1.43	1.73	0.85	13.09	1.63	2.32	1.95	1.33	1.73	6.49	7.01	7.81	
28	1.43	1.73	1.14	7.55	1.63	9.48	1.83	1.24	1.33	6.49	7.01	8.35	
29	0.95	1.63	0.85	4.91	1.63	9.16	1.83	1.63	1.33	6.75	7.01	8.35	
30	0.43	1.73	0.85	3.94	1.95	1.95	1.73	1.24	1.33	6.49		8.35	
31		2.70		2.45	9.16		2.20		1.33	5.89		7.81	
Total	492.48	47.31	43.49	398.46	61.95	72.70	55.54	78.28	47.33	126.63	164.52	227.33	1816.02 Tonday
Mean	16.42	1.53	1.45	12.85	2.00	2.42	1.79	2.61	1.53	4.08	5.67	7.33	4.96 Ton/day
Max	55.09	3.51	2.70	45.66	9.16	9.48	2.32	17.25	2.20	6.75	8.08	8.35	55.09 Ton/day
Min	0.43	0.23	0.78	0.78	1.24	1.53	1.53	0.13	1.24	1.33	0.16	5.69	0.13 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Nong Nao</b>	<b>Amphoe Chae Hom</b>	<b>Changwat Lampang</b>
<b>Drainage Area</b>	726 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.8960		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8080 QW^{1.50600}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.64	4.27	9.03	24.60	25.72	286.32	22.41	20.29	10.67	0.88	0.45	0.56	
2	4.98	3.60	8.16	21.34	21.34	164.65	25.72	19.25	10.67	0.88	0.42	0.56	
3	4.64	3.30	5.37	22.41	12.97	168.38	22.41	18.24	7.36	0.88	0.45	0.60	
4	4.64	3.60	2.38	22.41	28.22	135.81	36.84	20.29	0.25	0.88	0.42	0.60	
5	3.60	4.27	1.15	21.34	240.19	128.90	76.29	24.60	0.29	0.82	0.53	0.60	
6	3.30	3.95	0.88	20.29	215.99	66.92	76.29	20.29	0.56	0.76	0.56	0.64	
7	3.95	3.30	0.76	20.29	84.07	52.81	66.92	19.25	0.56	0.64	0.56	0.76	
8	3.95	2.26	0.88	20.29	35.35	46.19	38.34	21.34	0.53	0.60	0.56	1.29	
9	3.60	3.30	0.95	21.34	24.60	39.87	33.88	21.34	0.49	0.56	0.56	1.39	
10	4.27	3.95	0.60	22.41	35.35	36.84	26.86	20.29	0.49	0.56	0.56	1.49	
11	5.37	3.95	1.81	24.60	76.29	35.35	26.86	17.24	0.64	0.56	0.56	1.29	
12	4.98	4.27	4.98	23.50	108.91	35.35	25.72	17.24	0.64	0.56	0.56	1.01	
13	4.98	3.95	4.98	22.41	73.91	38.34	26.86	17.24	0.64	0.56	0.56	1.39	
14	3.60	10.87	4.98	21.34	49.46	42.99	29.60	17.24	0.64	0.60	0.56	1.39	
15	4.98	9.50	5.37	20.29	38.34	46.19	28.22	17.24	0.64	0.60	0.56	1.49	
16	5.37	5.73	4.27	19.25	49.46	32.43	25.72	17.24	0.64	0.60	0.56	1.49	
17	4.27	4.98	4.27	17.24	183.59	22.41	26.86	17.24	0.64	0.60	0.56	1.49	
18	2.68	3.60	6.50	17.24	479.65	28.22	28.22	17.24	0.64	0.60	0.53	1.49	
19	2.38	2.68	8.62	16.26	146.41	84.07	23.50	13.77	0.64	0.60	0.49	1.49	
20	3.95	2.38	6.13	14.58	76.29	160.94	21.34	12.19	0.64	0.56	0.49	1.49	
21	3.95	3.30	3.30	15.42	57.97	66.92	20.29	11.42	0.64	0.56	0.49	1.49	
22	3.60	9.03	2.14	18.24	87.06	62.39	18.24	12.19	0.64	0.56	0.49	1.22	
23	4.27	6.13	1.81	19.25	160.94	44.58	18.24	11.42	0.82	0.56	0.49	0.82	
24	4.27	3.95	18.24	26.86	314.70	31.00	18.24	11.42	0.95	0.56	0.49	0.64	
25	3.30	2.68	17.24	44.58	168.38	24.60	20.29	10.67	0.88	0.56	0.45	0.82	
26	4.27	3.95	15.42	66.92	102.50	21.34	24.60	10.67	0.88	0.56	0.49	1.29	
27	5.73	3.95	15.42	115.45	132.34	26.86	20.29	10.67	0.88	0.56	0.56	1.29	
28	5.73	8.16	16.26	160.94	128.90	41.42	19.25	10.67	0.76	0.56	0.56	1.39	
29	4.98	8.16	17.24	41.42	105.69	26.86	23.50	10.67	1.08	0.49	0.56	1.59	
30	4.98	8.16	17.24	15.42	112.16	22.41	33.88	10.67	2.03	0.49		1.49	
31		9.50		15.42	270.35		23.50		1.22	0.49		1.49	
<b>Total</b>	129.21	154.68	206.38	953.35	3647.10	2021.36	929.18	479.53	49.05	19.25	15.08	36.04	8640.21 Tonday
<b>Mean</b>	4.31	4.99	6.88	30.75	117.65	67.38	29.97	15.98	1.58	0.62	0.52	1.16	23.61 Ton/day
<b>Max</b>	5.73	10.87	18.24	160.94	479.65	286.32	76.29	24.60	10.67	0.88	0.56	1.59	479.65 Ton/day
<b>Min</b>	2.38	2.26	0.60	14.58	12.97	21.34	18.24	10.67	0.25	0.49	0.42	0.56	0.25 Ton/day

## WATER YEAR : 2019

## WANG RIVER BASIN

## Wang River at Ban Rong Kho, Lampang (W.25)

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Rong Kho.

	<b>Ban</b>	Rong Kho	<b>Amphoe</b>	Wang Nuea	<b>Changwat</b>	Lampang
<b>Drainage Area</b>	762	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2009-Cont'd					
<b>Actual Measurement</b>	2009-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	21					
<b>R-Square</b>	0.9540					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 3.5850 QW^{1.43500}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.31	13.35	20.32	4.60	6.23	638.06	6.23	4.22	0.24	0.11	0.38	0.15	
2	15.31	13.35	12.22	4.60	14.52	1016.93	5.99	4.22	0.21	0.11	0.41	0.11	
3	15.31	13.35	11.11	4.38	10.04	161.44	5.99	4.22	0.21	0.11	0.49	0.10	
4	15.31	13.35	10.04	4.38	7.29	123.48	5.75	4.22	0.15	0.11	0.52	0.10	
5	15.31	13.35	8.80	4.38	667.96	46.00	5.51	4.00	0.11	0.11	0.55	0.08	
6	15.31	11.48	7.87	4.38	223.28	33.24	5.05	4.00	0.11	0.10	0.58	0.06	
7	15.31	9.69	6.48	4.38	22.53	24.35	4.83	4.00	0.13	0.10	0.64	0.06	
8	14.91	9.69	5.99	4.22	11.85	35.07	4.60	4.00	0.13	0.10	0.70	0.05	
9	15.31	9.69	5.75	4.22	7.87	20.32	4.60	4.83	0.13	0.10	0.73	0.05	
10	15.31	9.69	5.28	4.00	16.93	15.71	4.60	5.05	0.13	0.10	0.73	0.05	
11	15.31	9.42	4.22	3.84	25.74	11.48	4.60	4.38	0.11	0.10	0.73	0.05	
12	15.31	9.07	4.38	3.64	18.18	10.04	4.60	2.94	0.11	0.10	0.73	0.04	
13	15.31	9.07	4.38	3.64	13.35	9.42	4.60	2.94	0.11	0.10	0.70	0.04	
14	14.91	8.20	4.22	3.64	10.04	8.20	4.38	2.94	0.11	0.10	0.70	0.02	
15	14.91	5.99	4.22	3.64	10.40	8.20	4.38	2.94	0.11	0.10	0.70	0.02	
16	14.91	6.23	4.00	4.00	27.92	8.47	5.75	2.94	0.11	0.10	0.70	0.02	
17	14.52	7.04	4.22	3.64	51.22	7.29	6.48	3.28	0.17	0.10	0.64	0.02	
18	14.52	7.61	4.38	3.64	20.76	6.48	6.48	3.48	0.13	0.10	0.58	0.01	
19	13.35	7.04	4.38	2.94	11.48	32.33	6.48	3.13	0.13	0.10	0.52	0.01	
20	12.22	7.04	4.22	2.94	9.42	44.67	5.75	2.94	0.13	0.10	0.49	0.01	
21	13.74	7.04	4.00	2.94	372.95	19.89	4.83	2.94	0.13	0.10	0.49	0.01	
22	15.31	5.99	4.00	3.64	130.91	30.54	4.38	0.31	0.13	0.10	0.49	0.01	
23	15.31	5.51	3.84	3.64	652.96	16.52	4.22	0.28	0.13	0.10	0.44	0.01	
24	15.31	5.51	3.84	3.64	460.98	12.97	4.22	0.28	0.11	0.10	0.41	0.00	
25	14.91	5.51	3.84	3.64	471.11	11.11	4.22	0.26	0.11	0.10	0.38	0.00	
26	13.74	5.75	3.84	3.64	81.78	7.29	4.22	0.26	0.11	0.10	0.36	0.00	
27	13.74	6.23	3.84	4.38	41.72	7.87	4.22	0.26	0.11	0.10	0.31	0.00	
28	13.35	7.61	4.38	4.00	1226.75	9.42	4.22	0.26	0.11	0.15	0.28	0.00	
29	13.35	8.47	4.38	4.00	81.78	8.80	4.22	0.26	0.11	0.44	0.24	0.00	
30	13.35	11.85	4.38	4.00	39.78	7.29	4.22	0.24	0.11	0.38		0.00	
31		11.11		4.00	55.18		4.22		0.11	0.38		0.00	
Total	440.08	274.28	176.82	120.62	4802.91	2392.88	153.84	80.02	4.04	4.10	15.62	1.08	8466.29 Tonday
Mean	14.67	8.85	5.89	3.89	154.93	79.76	4.96	2.67	0.13	0.13	0.54	0.03	23.13 Ton/day
Max	15.31	13.35	20.32	4.60	1226.75	1016.93	6.48	5.05	0.24	0.44	0.73	0.15	1226.75 Ton/day
Min	12.22	5.51	3.84	2.94	6.23	6.48	4.22	0.24	0.11	0.10	0.24	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b>	<b>Nam Khong</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phrae</b>
<b>Drainage Area</b>	7,749	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	33					
<b>R-Square</b>	0.9630					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 1.1120 QW^{1.52900}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.84	2.73	42.59	3.09	14.04	32634.85	227.38	53.53	17.21	2.64	1.03	0.54	
2	3.09	2.73	30.38	3.09	5084.92	30775.15	209.94	46.86	16.13	2.64	0.95	0.39	
3	3.09	2.73	32.00	3.09	2913.54	22550.23	187.45	46.86	15.07	2.37	0.88	0.39	
4	3.09	2.73	92.35	2.73	426.99	12565.14	171.66	46.86	14.04	2.24	0.82	0.35	
5	2.73	2.73	114.35	2.39	1111.33	8015.28	176.54	40.50	13.03	2.11	0.95	0.35	
6	2.07	2.73	55.82	2.07	11300.27	4007.89	192.99	38.75	13.03	2.24	0.88	0.32	
7	1.86	2.73	28.80	2.07	10991.36	1985.88	209.94	37.02	14.04	1.98	0.82	0.32	
8	2.39	2.73	11.47	2.07	2026.84	1382.30	204.24	37.02	14.04	1.86	0.82	0.39	
9	2.73	2.73	7.22	2.07	546.46	1265.06	176.54	49.05	13.03	1.76	0.88	0.39	
10	3.09	2.39	5.97	2.39	464.85	1023.53	152.60	74.20	12.24	1.86	0.88	0.32	
11	3.09	3.46	5.52	2.39	2214.72	712.65	134.33	65.65	10.71	1.76	0.82	0.19	
12	2.73	4.24	5.52	2.73	4535.33	589.10	138.82	60.50	10.71	1.38	0.76	0.17	
13	2.73	3.46	5.52	2.73	2364.78	535.90	122.04	49.05	9.98	1.20	0.70	0.12	
14	2.73	3.09	5.52	2.73	2257.24	455.28	129.89	42.59	9.26	1.20	0.70	0.12	
15	2.73	3.09	5.52	2.39	899.19	484.62	114.35	37.02	9.26	1.03	0.64	0.12	
16	2.73	3.09	5.52	2.39	1111.33	610.83	122.04	35.32	9.26	1.20	0.64	0.09	
17	3.46	3.09	5.52	2.39	9579.79	399.33	129.89	32.00	7.88	1.20	0.59	0.25	
18	5.52	3.09	6.58	2.39	33041.88	390.25	129.89	27.24	7.88	1.29	0.48	0.39	
19	5.08	3.09	6.58	2.07	15576.08	847.99	134.33	25.71	6.58	1.47	0.43	0.39	
20	3.84	3.09	5.52	1.47	3620.02	3977.57	122.04	25.71	3.84	1.38	0.43	0.39	
21	3.46	5.97	5.08	0.95	2235.95	3078.23	110.57	22.99	3.09	1.38	0.43	0.35	
22	3.09	10.71	5.08	0.64	12565.14	1450.89	103.14	22.99	0.59	1.38	0.39	0.28	
23	3.09	9.98	4.65	0.64	9726.75	1201.60	89.23	22.99	0.88	1.47	0.19	0.25	
24	6.58	9.98	3.46	0.79	7877.88	822.78	77.13	21.79	1.98	1.47	0.19	0.22	
25	6.58	18.32	3.46	0.95	14751.42	436.35	71.31	20.61	2.11	1.56	0.32	0.17	
26	5.08	10.71	3.46	0.95	12694.17	294.14	86.14	20.61	1.76	1.56	0.35	0.17	
27	3.84	5.97	3.09	1.66	5352.58	246.39	74.20	18.32	1.66	1.47	0.39	0.14	
28	2.73	5.52	3.09	1.66	5084.92	227.38	65.65	18.32	1.03	1.38	0.48	0.14	
29	2.73	35.32	3.09	1.66	7381.19	209.94	58.14	17.21	2.24	1.47	0.48	0.12	
30	2.73	46.86	3.09	1.86	6114.84	227.38	60.50	17.21	2.64	1.20		0.12	
31		49.05		2.73	16984.59		60.50		1.56	1.03		0.09	
Total	102.53	268.14	515.82	63.23	210850.39	133403.91	4043.41	1074.48	246.76	50.18	18.32	8.04	350645.21 Tonday
Mean	3.42	8.65	17.19	2.04	6801.63	4446.80	130.43	35.82	7.96	1.62	0.63	0.26	958.05 Ton/day
Max	6.58	49.05	114.35	3.09	33041.88	32634.85	227.38	74.20	17.21	2.64	1.03	0.54	33041.88 Ton/day
Min	1.86	2.39	3.09	0.64	14.04	209.94	58.14	17.21	0.59	1.03	0.19	0.09	0.09 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Huai Sak</b>	<b>Amphoe Song</b>	<b>Changwat Phrae</b>
<b>Drainage Area</b>	5,394 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9060		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.7420 QW^{1.70600}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.34	4.56	24.25	3.16	9038.26	27845.54	173.30	49.86	25.99	9.66	6.60	2.85	
2	5.34	4.19	48.28	3.16	8459.22	16537.88	140.83	43.68	25.99	10.21	6.60	2.85	
3	5.34	4.19	67.76	3.16	997.33	10519.76	118.33	43.68	25.11	10.78	6.60	2.85	
4	5.34	3.84	35.42	3.49	432.64	9038.26	133.15	43.68	23.40	10.78	6.17	2.85	
5	4.95	3.49	27.78	3.84	19234.50	6248.50	418.61	42.18	23.40	10.78	5.75	3.16	
6	4.56	3.16	22.56	4.19	21449.56	2929.20	259.82	37.83	21.73	10.21	5.75	4.56	
7	4.56	2.34	18.56	3.49	4260.63	1722.53	190.57	67.76	20.92	8.58	5.34	5.75	
8	4.56	2.10	15.77	3.49	982.41	1391.42	169.09	186.19	20.12	8.58	5.34	5.34	
9	4.19	2.10	13.81	4.19	439.73	1563.07	129.38	97.48	20.12	9.11	5.34	4.95	
10	4.19	1.87	12.56	4.19	1410.08	716.89	118.33	72.75	19.33	9.11	5.34	4.95	
11	4.19	1.87	11.95	3.84	8019.88	509.41	118.33	62.91	18.56	9.11	5.75	4.56	
12	4.19	2.34	10.78	3.84	4294.81	500.00	125.65	55.93	18.56	9.11	5.75	4.56	
13	4.19	2.85	8.58	3.49	3537.54	418.61	125.65	46.73	18.56	9.11	5.34	4.19	
14	4.19	3.49	9.66	2.85	1952.13	411.67	133.15	43.68	18.56	9.11	5.34	4.19	
15	4.19	4.56	9.66	2.59	938.20	577.30	144.74	42.18	18.56	9.11	4.95	3.84	
16	4.56	10.78	9.11	2.34	4091.42	364.42	152.68	36.43	17.84	9.66	4.56	3.49	
17	4.95	13.81	9.11	1.65	47453.43	277.21	173.30	39.26	17.14	9.11	4.19	2.85	
18	4.56	11.95	9.11	1.65	17445.18	669.68	144.74	37.83	15.77	8.58	3.49	2.59	
19	4.56	8.58	10.21	1.25	4929.25	3506.00	118.33	36.43	15.11	9.11	3.16	2.34	
20	4.19	7.56	9.11	1.25	3166.84	4965.55	107.70	35.42	15.11	9.11	2.85	2.10	
21	4.19	6.60	8.58	1.25	14499.54	1702.24	94.17	34.42	15.11	9.11	2.85	1.87	
22	4.19	7.56	7.07	1.45	15553.42	1265.05	84.52	33.44	15.11	9.11	3.16	1.87	
23	4.19	9.11	6.60	1.45	4678.23	1167.56	70.24	33.44	15.11	9.11	2.85	1.87	
24	3.84	8.07	6.17	1.87	12662.55	446.87	62.91	32.46	14.45	9.66	2.85	1.87	
25	3.84	9.11	4.95	4.56	19875.61	295.06	55.93	32.46	13.81	9.66	2.85	1.65	
26	3.84	23.40	3.84	8.58	7529.71	231.88	48.28	30.55	13.81	9.11	3.16	1.65	
27	4.95	25.11	3.84	9.66	4260.63	190.57	51.46	26.88	13.18	8.07	3.16	1.45	
28	5.34	37.83	3.84	17.84	6702.94	283.11	49.86	26.88	13.18	7.56	2.85	1.07	
29	4.56	24.25	3.49	22.56	7712.02	265.56	48.28	26.88	11.95	7.07	2.85	0.90	
30	4.56	20.12	3.16	21.73	4607.51	190.57	48.28	25.99	11.36	7.07	2.85	0.90	
31		19.33		39.26	9767.38		51.46		10.21	6.60		0.90	
Total	135.64	290.12	435.57	191.32	270382.58	96751.37	3861.07	1425.29	547.16	281.05	130.79	90.82	374522.78 Tonday
Mean	4.52	9.36	14.52	6.17	8722.02	3225.05	124.55	47.51	17.65	9.07	4.51	2.93	1023.29 Ton/day
Max	5.34	37.83	67.76	39.26	47453.43	27845.54	418.61	186.19	25.99	10.78	6.60	5.75	47453.43 Ton/day
Min	3.84	1.87	3.16	1.25	432.64	190.57	48.28	25.99	10.21	6.60	2.85	0.90	0.90 Ton/day



**WATER YEAR : 2019****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.**

	<b>Ban Mang</b>	<b>Amphoe</b>	<b>Chiang Muan</b>	<b>Changwat</b>	<b>Phayao</b>
<b>Drainage Area</b>	590 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	20				
<b>R-Square</b>	0.8190				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 2.1700 QW^{1.67300}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.39	0.15	31.09	1.06	1021.89	738.03	5.91	1.49	0.43	0.15	0.00	0.00	
2	0.32	0.13	46.31	1.06	492.54	592.87	4.13	0.98	0.59	0.16	0.00	0.00	
3	0.29	0.11	147.46	0.90	257.92	707.98	2.78	0.82	0.51	0.09	0.00	0.00	
4	0.29	0.09	97.12	0.68	448.31	395.41	3.54	1.06	0.21	0.04	0.00	0.00	
5	0.32	0.08	76.04	0.82	2326.29	190.08	4.81	0.90	0.20	0.00	0.00	0.00	
6	0.32	0.09	40.97	0.82	768.58	118.96	7.51	0.90	0.19	0.00	0.00	0.00	
7	0.29	0.10	25.88	0.75	437.52	78.49	8.49	2.55	0.16	0.00	0.00	0.00	
8	0.47	0.08	19.45	0.68	310.24	50.48	5.91	2.10	0.16	0.00	0.00	0.00	
9	1.06	0.08	9.52	0.55	167.81	57.08	3.54	2.10	0.16	0.00	0.00	0.00	
10	0.55	0.09	10.05	0.43	73.48	33.46	2.32	1.40	0.17	0.00	0.00	0.00	
11	0.43	0.09	8.49	0.36	481.33	24.90	3.28	1.40	0.20	0.00	0.00	0.00	
12	0.36	0.08	7.99	0.36	620.88	21.15	3.28	1.31	0.19	0.00	0.00	0.00	
13	0.29	0.08	7.99	0.32	565.39	18.67	5.91	1.22	0.13	0.00	0.00	0.00	
14	0.29	0.43	5.53	0.36	405.77	17.14	3.54	1.14	0.07	0.00	0.00	0.00	
15	0.26	38.40	5.17	0.32	310.24	14.95	6.69	1.06	0.06	0.00	0.00	0.00	
16	0.24	16.40	3.81	0.29	678.43	12.88	20.25	0.90	0.05	0.00	0.00	0.00	
17	0.24	1.22	2.78	0.26	17593.68	12.88	8.49	0.82	0.05	0.00	0.00	0.00	
18	0.23	0.82	1.69	0.23	1123.11	48.44	4.81	0.68	0.03	0.00	0.00	0.00	
19	0.19	1.31	1.49	0.19	395.41	318.03	3.28	0.68	0.00	0.00	0.00	0.00	
20	0.17	1.06	1.22	0.17	243.69	68.60	2.10	0.68	0.00	0.00	0.00	0.00	
21	0.16	1.40	0.98	0.16	6170.18	29.93	1.89	0.59	0.00	0.00	0.00	0.00	
22	0.15	1.49	0.90	78.49	886.71	25.88	1.69	0.64	0.01	0.00	0.00	0.00	
23	0.16	1.22	0.82	12.29	310.24	15.67	1.40	0.51	0.00	0.00	0.00	0.00	
24	0.15	5.91	0.68	15.67	310.24	10.05	1.22	0.55	0.00	0.00	0.00	0.00	
25	0.13	29.93	0.64	12.29	538.43	8.49	1.31	0.55	0.03	0.00	0.00	0.00	
26	0.15	37.13	0.75	6.69	279.87	7.09	1.14	0.51	0.03	0.00	0.00	0.00	
27	0.15	39.67	0.98	6.29	196.48	6.69	1.06	0.51	0.03	0.00	0.00	0.00	
28	0.15	17.90	0.82	7.09	768.58	9.52	0.98	0.47	0.03	0.00	0.00	0.00	
29	0.16	19.45	0.64	6.29	355.03	7.09	1.06	0.43	0.01	0.00	0.00	0.00	
30	0.17	71.10	0.68	7.09	287.34	5.91	0.98	0.39	0.03	0.00	0.00	0.00	
31		52.69		592.87	437.52		1.69		0.08	0.00		0.00	
Total	8.53	338.78	557.94	755.83	39263.13	3646.80	124.99	29.34	3.81	0.44	0.00	0.00	44729.59 Tonday
Mean	0.28	10.93	18.60	24.38	1266.55	121.56	4.03	0.98	0.12	0.01	0.00	0.00	122.21 Ton/day
Max	1.06	71.10	147.46	592.87	17593.68	738.03	20.25	2.55	0.59	0.16	0.00	0.00	17593.68 Ton/day
Min	0.13	0.08	0.64	0.16	73.48	5.91	0.98	0.39	0.00	0.00	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b>	<b>Wang Chin</b>	<b>Amphoe</b>	<b>Wang Chin</b>	<b>Changwat</b>	<b>Phrae</b>
<b>Drainage Area</b>	10,305	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2007-Cont'd					
<b>Actual Measurement</b>	2007-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	24					
<b>R-Square</b>	0.9400					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.7860 QW^{1.55100}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.18	0.10	1.96	0.10	1.82	26343.73	87.04	3.80	0.57	3.26	2.13	1.47	
2	1.12	0.05	2.52	0.09	33.32	35751.02	87.04	1.96	0.53	3.67	2.13	1.38	
3	1.08	0.04	1.96	0.08	1845.16	38526.79	75.64	1.82	0.50	3.56	2.06	1.38	
4	0.99	0.05	3.80	0.05	2020.88	31565.57	64.82	1.63	0.48	4.10	2.13	1.38	
5	0.99	0.04	1.57	0.05	310.76	13821.70	104.49	1.63	0.45	5.01	2.71	1.34	
6	0.94	0.03	14.33	0.10	614.04	7232.88	124.51	1.69	0.45	4.77	2.71	1.34	
7	0.90	0.03	9.54	0.10	8044.00	3305.76	94.96	1.63	0.45	4.54	2.71	1.34	
8	0.85	0.03	1.69	0.12	7279.75	2181.78	90.97	1.63	0.43	4.43	2.71	1.30	
9	0.81	0.03	1.08	0.07	1712.47	1675.20	75.64	1.82	0.31	4.54	2.71	1.25	
10	0.77	0.02	0.63	0.03	341.89	1493.31	64.82	1.69	0.16	4.66	2.71	1.21	
11	0.74	0.03	0.43	0.03	288.11	1120.12	51.35	3.80	0.18	4.66	2.71	1.21	
12	0.74	0.03	0.27	0.02	1583.33	685.61	36.13	6.03	0.27	4.43	2.56	1.12	
13	0.63	0.03	0.25	0.02	3072.50	545.32	39.02	4.50	0.24	4.21	2.48	1.04	
14	0.70	0.03	0.25	0.01	1750.02	466.52	51.35	2.52	0.16	3.77	2.34	0.96	
15	0.90	0.03	0.22	0.01	1493.31	411.19	64.82	1.76	0.25	3.36	2.27	0.96	
16	1.57	0.07	0.20	0.01	697.81	358.38	51.35	1.57	0.22	3.56	2.20	0.96	
17	3.80	0.10	0.19	0.01	1168.74	420.24	39.02	1.50	0.43	3.46	2.20	0.81	
18	6.03	0.09	0.31	0.01	12316.61	266.08	45.03	1.38	1.04	2.78	2.13	0.77	
19	6.03	0.09	0.40	0.01	25569.90	237.68	36.13	1.22	1.08	2.41	2.13	0.74	
20	6.03	0.09	0.40	0.00	11859.72	524.29	36.13	1.12	1.38	2.34	2.06	0.70	
21	14.33	0.12	0.36	0.00	2800.70	2537.96	30.60	1.12	4.89	2.56	2.06	0.64	
22	0.40	1.28	0.36	0.01	2263.86	2100.78	21.72	1.08	4.54	2.63	1.99	0.60	
23	0.12	0.67	0.29	0.10	10281.36	1056.43	16.08	1.08	4.21	2.56	1.92	0.58	
24	0.10	0.40	0.22	0.19	9189.24	734.87	9.54	0.90	4.32	2.48	1.86	0.56	
25	0.08	0.45	0.16	0.22	9548.43	495.11	11.06	0.81	3.36	2.41	1.79	0.53	
26	0.07	0.43	0.10	0.25	12380.76	258.87	79.38	0.77	2.71	2.34	1.66	0.51	
27	0.05	0.67	0.10	0.36	9291.37	162.44	48.15	0.74	2.96	2.34	1.60	0.39	
28	0.04	1.08	0.08	0.50	6229.53	129.71	19.77	0.67	3.26	2.27	1.54	0.25	
29	0.19	0.63	0.09	0.81	7232.88	104.49	8.61	0.60	3.06	2.20	1.47	0.29	
30	0.15	0.43	0.09	1.12	6679.00	90.97	6.03	0.60	2.96	2.20		0.36	
31		0.48		1.32	11803.97		4.50		2.86	2.13		0.36	
<b>Total</b>	52.33	7.65	43.85	5.80	169705.24	174604.80	1575.70	53.07	48.71	103.64	63.68	27.73	346292.20 Ton/day
<b>Mean</b>	1.74	0.25	1.46	0.19	5474.36	5820.16	50.83	1.77	1.57	3.34	2.20	0.89	946.15 Ton/day
<b>Max</b>	14.33	1.28	14.33	1.32	25569.90	38526.79	124.51	6.03	4.89	5.01	2.71	1.47	38526.79 Ton/day
<b>Min</b>	0.04	0.02	0.08	0.00	1.82	90.97	4.50	0.60	0.16	2.13	1.47	0.25	0.00 Ton/day

**WATER YEAR : 2019****Yom RIVER BASIN****Nam Pi at Ban Phi Tai , Nan (Y.65)**

Lat 18 - 52 - 38 N Long 100 - 26 - 20 E

**Location : on right bank at the bridge on road.**

	<b>Ban Phi Tai</b>	<b>Amphoe Ban Luang</b>	<b>Changwat Nan</b>
<b>Drainage Area</b>	124 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.8210		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.0230 QW^{1.59700}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.26	0.00	0.55	0.04	14.89	356.65	2.71	0.71	0.89	0.22	0.41	0.00	
2	0.03	0.00	0.55	0.36	4.81	273.60	2.36	0.80	0.89	0.26	0.41	0.00	
3	0.03	0.00	0.47	0.31	1.71	191.05	2.02	1.09	0.89	0.26	0.05	0.01	
4	0.03	0.00	0.71	0.36	2.89	132.08	2.02	1.09	0.80	0.31	0.05	0.02	
5	0.04	0.00	0.63	0.04	113.21	66.64	2.36	1.31	0.80	0.05	0.03	0.04	
6	0.04	0.00	0.63	0.04	12.20	40.79	2.71	0.99	0.80	0.05	0.04	0.04	
7	0.36	0.00	0.63	0.08	3.78	28.15	1.71	0.99	0.55	0.05	0.08	0.04	
8	0.22	0.00	0.55	0.02	1.71	16.77	2.02	0.99	0.47	0.05	0.26	0.02	
9	0.03	0.00	0.55	0.02	2.19	14.28	2.53	1.09	0.47	0.04	0.05	0.41	
10	0.02	0.00	0.55	0.04	2.53	10.71	1.71	1.09	0.18	0.05	0.02	0.41	
11	0.01	0.00	0.55	0.04	4.54	8.91	2.02	0.80	0.02	0.05	0.02	0.00	
12	0.02	0.00	0.47	0.04	8.91	8.52	1.86	0.99	0.03	0.04	0.02	0.00	
13	0.01	0.00	0.47	0.03	8.13	6.67	1.56	0.99	0.05	0.02	0.02	0.01	
14	0.01	0.00	0.31	0.04	4.03	7.02	1.56	1.20	0.11	0.02	0.02	0.02	
15	0.01	0.02	0.31	0.02	3.54	5.08	1.86	0.99	0.04	0.03	0.02	0.04	
16	0.01	0.03	0.05	0.05	40.79	4.03	4.03	1.09	0.47	0.04	0.02	0.04	
17	0.01	0.05	0.05	0.03	851.68	8.91	2.02	1.09	0.47	0.04	0.04	0.04	
18	0.02	0.11	0.04	0.02	77.70	58.26	1.71	1.09	0.47	0.03	0.05	0.03	
19	0.02	0.11	0.41	0.02	18.07	38.05	1.31	1.09	0.63	0.02	0.05	0.41	
20	0.02	0.05	0.55	0.02	11.20	10.24	1.31	1.09	0.55	0.02	0.22	0.18	
21	0.01	0.47	0.41	0.02	383.83	8.91	1.20	1.09	0.47	0.02	0.08	0.01	
22	0.01	0.47	0.08	0.02	148.62	8.52	0.99	0.99	0.63	0.02	0.02	0.01	
23	0.01	0.36	0.02	0.02	53.24	5.36	0.80	0.99	0.63	0.03	0.02	0.02	
24	0.01	0.04	0.03	0.03	43.71	4.29	0.80	0.99	0.63	0.04	0.02	0.02	
25	0.01	0.08	0.02	0.41	84.63	3.54	0.99	0.99	0.63	0.04	0.02	0.01	
26	0.00	0.47	0.02	0.47	173.67	3.31	1.31	0.99	0.47	0.04	0.01	0.04	
27	0.00	0.47	0.03	0.41	99.15	3.31	1.09	0.99	0.47	0.05	0.01	0.03	
28	0.00	0.31	0.04	0.80	336.76	4.29	1.09	0.99	0.63	0.41	0.01	0.01	
29	0.00	0.36	0.04	0.47	122.51	3.54	0.89	0.99	0.36	0.41	0.00	0.00	
30	0.00	0.47	0.04	0.47	45.25	3.08	0.80	0.89	0.14	0.41		0.01	
31		0.47		310.91	53.24		0.80		0.41	0.41		0.01	
<b>Total</b>	1.25	4.34	9.76	315.65	2733.12	1334.56	52.15	30.47	15.05	3.53	2.07	1.93	4503.88 Tonday
<b>Mean</b>	0.04	0.14	0.33	10.18	88.17	44.49	1.68	1.02	0.49	0.11	0.07	0.06	12.31 Ton/day
<b>Max</b>	0.36	0.47	0.71	310.91	851.68	356.65	4.03	1.31	0.89	0.41	0.41	0.41	851.68 Ton/day
<b>Min</b>	0.00	0.00	0.02	0.02	1.71	3.08	0.80	0.71	0.02	0.02	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Forestry Office	<b>Amphoe</b> Mueang	<b>Changwat</b> Nan
<b>Drainage Area</b>	4,560 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1979-Cont'd		
<b>Actual Measurement</b>	1979-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9130		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.5510 QW^{1.75300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.46	6.26	100.60	8.93	37004.10	19506.82	561.44	226.73	65.38	36.87	12.19	2.75	
2	4.71	4.00	105.16	12.19	7365.97	23343.80	502.29	211.57	65.38	39.26	12.19	2.75	
3	4.00	3.35	65.38	16.28	2149.86	35148.49	435.75	196.86	65.38	36.87	10.94	2.46	
4	4.71	3.35	96.12	16.28	1271.68	19506.82	410.60	211.57	62.03	27.99	10.94	2.46	
5	5.46	4.00	36.87	16.28	52796.25	10208.24	448.56	211.57	55.57	27.99	9.92	2.46	
6	4.71	4.71	105.16	13.50	32886.88	7297.48	607.65	183.20	52.46	25.94	9.92	2.75	
7	4.71	3.35	266.58	14.86	9527.51	5850.67	546.39	183.20	46.78	25.94	9.92	7.11	
8	4.71	2.75	100.60	12.19	4160.22	4478.46	474.65	242.34	46.78	24.20	8.93	7.11	
9	4.00	2.46	65.38	10.94	2866.58	3512.53	374.10	219.09	46.78	22.51	8.93	6.26	
10	3.35	1.94	30.11	10.94	12802.06	3050.13	362.26	196.86	46.78	22.51	8.00	2.75	
11	3.35	1.94	39.26	8.93	8590.27	2866.58	332.24	176.81	49.42	22.51	8.00	2.75	
12	2.75	1.70	24.20	8.93	6892.35	3087.42	332.24	158.24	46.78	20.87	8.00	2.75	
13	2.19	1.47	16.28	8.93	6373.10	2412.45	386.11	140.56	46.78	20.87	7.11	2.19	
14	2.19	2.46	16.28	8.93	4340.84	2117.95	410.60	134.87	44.21	20.87	7.11	1.94	
15	2.46	13.50	16.28	8.00	3200.48	2246.81	838.06	129.28	44.21	17.76	7.11	1.94	
16	2.46	7.11	14.86	8.00	3895.50	2117.95	656.44	129.28	41.70	17.76	6.26	1.94	
17	2.46	7.11	12.19	5.46	32442.33	1497.45	502.29	124.28	39.26	17.76	4.00	1.94	
18	2.75	3.35	13.50	4.71	88085.06	1794.62	435.75	114.55	39.26	17.76	4.00	1.94	
19	2.75	3.35	20.87	4.71	38422.64	1683.89	474.65	114.55	36.87	16.28	4.00	1.70	
20	6.26	3.35	36.87	4.71	15290.15	1794.62	398.27	100.60	34.56	16.28	4.00	1.70	
21	5.46	8.00	32.30	4.00	27957.92	1370.06	332.24	100.60	32.30	16.28	4.00	1.47	
22	4.00	8.93	19.28	5.46	27076.58	1153.16	293.96	96.12	32.30	16.28	3.35	1.47	
23	4.71	4.71	13.50	6.26	14135.69	896.23	266.58	100.60	32.30	16.28	3.35	1.26	
24	6.26	3.35	9.92	17.76	28135.65	781.58	234.48	105.16	32.30	16.28	3.35	1.26	
25	4.71	7.11	9.92	58.76	42068.75	781.58	242.34	109.81	32.30	14.86	3.35	1.26	
26	4.71	22.51	12.19	158.24	25520.81	607.65	266.58	87.43	32.30	13.50	2.75	0.87	
27	4.00	32.30	30.11	362.26	15290.15	623.41	250.31	79.50	34.56	12.19	2.75	0.87	
28	5.46	13.50	20.87	293.96	19078.76	1107.15	242.34	79.50	36.87	10.94	2.75	0.70	
29	17.76	8.00	10.94	164.33	12911.02	819.05	258.39	68.80	36.87	12.19	2.75	0.70	
30	9.92	7.11	8.93	211.57	9623.52	691.24	342.12	65.38	36.87	12.19		1.06	
31		46.78		10706.78	8922.87		303.34		36.87	12.19		1.06	
Total	142.43	243.81	1350.51	12193.08	601085.55	162354.29	12523.02	4298.91	1352.21	631.98	189.87	71.63	796437.29 Tonday
Mean	4.75	7.86	45.02	393.33	19389.86	5411.81	403.97	143.30	43.62	20.39	6.55	2.31	2176.06 Ton/day
Max	17.76	46.78	266.58	10706.78	88085.06	35148.49	838.06	242.34	65.38	39.26	12.19	7.11	88085.06 Ton/day
Min	2.19	1.47	8.93	4.00	1271.68	607.65	234.48	65.38	32.30	10.94	2.75	0.70	0.70 Ton/day

**WATER YEAR : 2019****NAN RIVER BASIN****Nan River at Bang Mun Nak , Phichit (N.8)**

Lat 16 - 01 - 50 N Long 100 - 22 - 53 E

Location : on right bank opposite to Wat Bang Mun Nak.

	<b>Ban -</b>	<b>Amphoe</b>	Bang Mun Nak	<b>Changwat</b>	Phichit
<b>Drainage Area</b>	32,878 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	21				
<b>R-Square</b>	0.6668				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.1607 QW^{1.56850}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	608.88	714.61	533.74	379.73	507.31	1913.33	837.26	314.19	394.57	299.39	166.96	168.84	
2	608.88	694.86	553.87	449.66	403.57	2598.53	651.36	306.37	403.57	308.71	163.23	157.69	
3	598.42	726.56	601.90	487.82	365.10	3793.47	540.42	353.55	388.61	376.79	174.53	148.60	
4	605.38	803.87	637.08	612.38	342.13	5026.64	791.47	373.86	344.98	443.41	180.28	161.37	
5	530.41	841.46	644.20	775.05	311.45	5772.76	993.20	400.56	292.47	421.79	170.73	172.62	
6	484.59	849.90	702.74	908.68	344.98	6132.83	799.73	391.58	252.19	316.95	163.23	178.35	
7	484.59	841.46	687.54	964.73	446.53	6176.15	584.58	373.86	226.55	226.55	161.37	190.01	
8	465.42	783.25	662.14	908.68	434.09	6104.01	588.03	379.73	216.17	186.09	152.21	216.17	
9	455.94	742.60	676.61	758.76	376.79	5908.78	816.33	365.10	207.99	188.05	161.37	205.96	
10	462.25	742.60	718.59	640.64	359.31	5570.89	867.44	353.55	224.46	220.30	188.05	197.93	
11	465.42	750.66	654.94	560.65	400.56	5326.07	795.59	342.13	265.37	203.94	199.92	191.98	
12	481.38	787.36	530.41	484.59	406.58	5026.64	702.74	333.66	256.55	170.73	201.93	168.84	
13	474.97	849.90	373.86	424.85	385.64	4830.53	640.64	328.06	230.76	148.60	201.93	154.03	
14	478.17	899.45	325.27	431.01	465.42	4341.05	658.54	328.06	220.30	154.03	176.43	148.60	
15	494.28	913.30	319.71	403.57	550.50	3859.59	738.58	388.61	205.96	166.96	166.96	145.02	
16	471.78	890.27	356.43	397.56	601.90	3233.72	978.93	446.53	220.30	166.96	174.53	148.60	
17	455.94	894.86	474.97	397.56	598.42	2724.28	1182.64	437.19	250.01	247.84	168.84	152.21	
18	484.59	820.50	598.42	400.56	581.14	2487.01	1075.51	421.79	188.05	330.85	136.21	157.69	
19	504.04	734.56	754.71	365.10	574.28	2655.81	828.86	421.79	188.05	388.61	134.47	159.53	
20	487.82	665.74	812.17	356.43	553.87	2776.04	500.78	406.58	201.93	406.58	176.43	165.09	
21	459.09	633.53	820.50	314.19	637.08	2707.10	314.19	409.61	178.35	394.57	178.35	161.37	
22	434.09	647.78	799.73	297.07	706.69	2400.64	283.33	421.79	178.35	409.61	163.23	161.37	
23	465.42	629.99	746.63	283.33	672.98	2246.45	299.39	427.92	159.53	397.56	166.96	166.96	
24	491.05	608.88	683.89	301.71	644.20	2051.62	287.88	406.58	163.23	304.04	176.43	155.85	
25	481.38	605.38	680.25	325.27	691.20	1863.27	285.60	415.68	182.21	224.46	166.96	143.24	
26	550.50	601.90	626.45	368.01	927.22	1717.09	285.60	406.58	186.09	193.95	161.37	150.40	
27	647.78	564.04	510.59	415.68	1166.48	1493.59	285.60	391.58	207.99	184.15	161.37	154.03	
28	687.54	567.45	424.85	449.66	1275.73	1342.97	319.71	388.61	344.98	166.96	163.23	172.62	
29	722.57	598.42	356.43	491.05	1209.75	1182.64	368.01	424.85	342.13	161.37	170.73	176.43	
30	726.56	615.88	316.95	537.08	1259.12	1007.56	388.61	412.64	333.66	172.62		172.62	
31		564.04		527.09	1499.82		385.64		325.27	176.43		182.21	
Total	15769.13	22585.06	17585.57	15418.15	19699.84	104271.06	19076.19	11572.59	7780.63	8158.85	4928.24	5186.23	252031.54 Ton/day
Mean	525.64	728.55	586.19	497.36	635.48	3475.70	615.36	385.75	250.99	263.19	169.94	167.30	688.61 Ton/day
Max	726.56	913.30	820.50	964.73	1499.82	6176.15	1182.64	446.53	403.57	443.41	201.93	216.17	6176.15 Ton/day
Min	434.09	564.04	316.95	283.33	311.45	1007.56	283.33	306.37	159.53	148.60	134.47	143.24	134.47 Ton/day

## WATER YEAR : 2019

## NAN RIVER BASIN

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

Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	Ban Wang Nok Aen	Amphoe Wang Thong	Changwat Phitsanulok
Drainage Area	1,838 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2019		
Number of observation	17		
R-Square	0.8241		
Remarks	Continued Sediment Station		

$$QS = 1.6476 QW^{1.61010}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.73	2.58	45.19	231.81	44.54	75688.46	94.43	41.34	14.99	7.77	8.06	6.12	
2	18.43	2.58	25.19	214.94	84.20	9724.74	94.43	40.09	14.62	7.77	8.06	5.86	
3	20.18	5.36	117.67	135.96	139.93	8825.96	129.24	38.85	14.26	7.77	8.06	5.86	
4	18.03	4.17	72.18	2215.31	120.22	6408.85	113.82	37.63	13.90	7.77	8.06	5.61	
5	18.43	3.37	83.02	804.48	80.81	3815.76	118.88	36.42	13.54	7.77	8.35	5.61	
6	14.99	2.96	65.95	352.31	78.61	1968.31	180.93	35.23	13.19	7.77	8.35	5.86	
7	17.25	2.70	48.49	180.93	75.43	1320.07	165.60	34.05	12.84	7.77	8.35	5.86	
8	18.43	2.58	87.52	124.02	68.00	1026.45	122.79	32.89	12.50	7.77	8.65	5.86	
9	19.23	2.58	87.52	92.10	57.37	824.52	100.40	31.74	12.16	7.77	8.65	5.61	
10	21.15	3.10	46.50	83.02	129.24	764.97	128.00	30.61	11.82	7.77	8.95	5.61	
11	22.13	3.10	51.19	75.43	538.69	619.36	134.55	29.50	11.49	7.77	8.95	8.95	
12	15.73	2.83	37.03	63.92	331.48	715.59	279.13	28.40	11.15	7.77	8.95	12.84	
13	15.35	2.96	27.31	70.08	191.43	611.85	379.01	27.31	10.83	7.77	9.25	13.19	
14	18.03	19.23	22.13	51.87	144.10	532.52	619.36	26.24	10.51	7.77	9.25	10.51	
15	20.18	125.39	18.03	43.89	159.41	490.07	298.67	25.19	9.87	7.77	9.25	6.66	
16	19.70	77.58	45.84	36.42	174.05	381.73	179.20	24.16	9.25	7.77	9.56	6.66	
17	16.48	43.25	23.64	31.18	158.06	344.44	135.96	23.14	8.65	7.48	9.56	6.66	
18	12.16	28.94	53.25	27.31	233.71	362.90	113.82	22.13	8.06	7.48	9.56	6.39	
19	13.19	19.70	51.19	23.14	376.31	298.67	100.40	21.15	8.06	7.48	9.87	6.39	
20	12.50	18.03	32.31	22.63	265.71	274.50	88.72	20.18	8.06	7.48	9.56	6.12	
21	12.50	14.99	27.31	23.14	179.20	414.83	79.77	19.23	8.06	7.48	8.65	6.12	
22	12.84	20.66	22.63	32.31	211.25	352.31	73.29	18.43	8.06	7.48	8.35	6.12	
23	12.50	156.57	18.83	32.89	318.70	242.09	68.00	17.64	8.06	7.48	8.06	5.86	
24	10.51	71.18	15.73	30.61	2585.24	191.43	63.92	16.86	8.06	7.48	7.77	5.86	
25	11.15	63.92	14.62	25.19	2371.02	160.91	59.22	16.48	8.06	7.48	7.48	5.86	
26	13.19	67.03	34.05	24.16	1777.20	139.93	56.46	16.10	8.06	7.48	7.20	5.61	
27	12.84	71.18	52.56	74.30	990.24	126.62	52.56	16.10	8.06	7.48	6.93	5.61	
28	12.16	41.34	484.11	89.80	1081.69	130.63	49.16	15.73	8.06	7.77	6.66	5.86	
29	11.15	28.94	180.93	81.97	809.47	111.32	47.16	15.73	8.06	7.77	6.39	5.86	
30	12.50	94.43	91.01	65.95	472.28	102.81	45.19	15.35	8.06	7.77		5.86	
31		61.08		45.84	47453.27		41.97		8.06	8.06		5.86	
Total	468.64	1064.31	1982.93	5406.91	61700.86	116972.60	4214.04	773.90	318.41	237.97	244.79	206.71	193592.07 Tonday
Mean	15.62	34.33	66.10	174.42	1990.35	3899.09	135.94	25.80	10.27	7.68	8.44	6.67	528.94 Ton/day
Max	22.13	156.57	484.11	2215.31	47453.27	75688.46	619.36	41.34	14.99	8.06	9.87	13.19	75688.46 Ton/day
Min	10.51	2.58	14.62	22.63	44.54	102.81	41.97	15.35	8.06	7.48	6.39	5.61	2.58 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Na Chan	<b>Amphoe</b> Nakhon Thai	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	415 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.9027		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.1272 QW^{1.34810}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.27	1.34	2.07	3.54	49.55	552.87	19.07	4.65	2.99	2.07	1.34	1.29	
2	3.92	1.20	2.12	3.17	31.12	541.79	18.30	4.45	2.99	2.07	1.34	1.44	
3	2.99	1.15	1.96	2.93	21.24	1478.64	22.34	4.32	2.99	2.07	1.34	1.59	
4	2.58	1.20	1.96	2.75	13.85	745.15	20.15	4.18	2.93	1.96	1.34	1.91	
5	2.23	1.34	1.91	2.63	6.12	384.17	18.30	4.05	2.93	1.96	1.34	2.07	
6	1.96	1.44	2.12	2.58	4.32	318.72	17.54	3.92	2.93	1.96	1.34	2.23	
7	1.75	1.49	3.11	2.81	41.54	322.74	17.16	3.80	2.81	1.91	1.34	2.46	
8	1.59	1.59	4.32	3.11	277.29	312.71	16.78	3.67	2.81	1.91	1.34	2.81	
9	1.49	1.49	3.29	3.17	1069.18	214.27	16.41	3.54	2.81	1.91	1.34	3.17	
10	1.34	1.44	4.05	3.67	707.16	174.70	16.41	3.42	2.81	1.80	1.34	2.93	
11	1.34	1.44	5.27	3.42	406.24	135.72	14.93	3.42	2.75	1.80	1.34	2.81	
12	1.34	1.34	4.85	3.29	277.29	308.72	14.21	3.42	2.75	1.80	1.34	2.93	
13	1.44	1.34	4.45	3.17	181.61	290.94	13.49	3.42	2.75	1.75	1.29	3.11	
14	1.44	1.44	4.18	5.06	69.84	161.09	12.09	3.42	2.75	1.75	1.29	3.67	
15	1.44	1.49	4.05	3.67	310.72	112.59	11.16	3.42	2.75	1.75	1.29	3.92	
16	1.44	1.49	3.92	3.54	149.42	94.72	10.90	3.29	2.63	1.64	1.29	4.05	
17	1.49	1.44	4.32	5.90	135.72	121.27	10.32	3.29	2.63	1.64	1.29	3.92	
18	1.49	1.44	5.48	5.27	283.12	72.30	9.74	3.29	2.63	1.64	1.29	3.92	
19	1.49	1.49	7.68	4.85	145.96	145.96	9.18	3.29	2.58	1.64	1.29	4.05	
20	1.49	1.49	8.38	4.32	61.83	80.63	8.62	3.29	2.58	1.59	1.29	4.05	
21	1.49	1.59	7.23	3.92	19.07	74.77	8.38	3.29	2.46	1.59	1.29	4.32	
22	1.59	1.75	6.34	3.92	47.33	40.12	7.92	3.17	2.46	1.59	1.29	5.06	
23	1.59	2.07	5.90	4.45	107.25	28.72	7.45	3.17	2.46	1.49	1.29	5.90	
24	1.59	5.06	5.48	4.18	824.19	26.90	7.00	3.17	2.40	1.49	1.29	6.12	
25	1.59	16.04	5.06	4.05	1197.59	23.46	6.56	3.17	2.40	1.44	1.29	5.48	
26	1.59	45.86	4.65	4.65	847.37	28.72	6.12	3.17	2.40	1.44	1.29	5.27	
27	1.49	29.91	4.32	6.78	361.59	29.26	5.69	3.11	2.29	1.34	1.29	4.85	
28	1.49	14.21	4.05	8.62	264.20	25.74	5.48	3.11	2.23	1.34	1.29	4.65	
29	1.49	9.99	3.80	14.93	253.93	22.95	5.27	3.11	2.23	1.34	1.29	4.85	
30	1.49	5.90	3.92	11.16	209.93	20.74	5.06	3.11	2.12	1.34		5.06	
31		2.81		9.74	247.13		4.85		2.12	1.34		4.85	
<b>Total</b>	54.92	163.27	130.24	149.25	8622.70	6891.08	366.88	105.13	81.37	52.36	38.01	114.74	16769.95 Tonday
<b>Mean</b>	1.83	5.27	4.34	4.81	278.15	229.70	11.83	3.50	2.62	1.69	1.31	3.70	45.82 Ton/day
<b>Max</b>	5.27	45.86	8.38	14.93	1197.59	1478.64	22.34	4.65	2.99	2.07	1.34	6.12	1478.64 Ton/day
<b>Min</b>	1.34	1.15	1.91	2.58	4.32	20.74	4.85	3.11	2.12	1.34	1.29	1.29	1.15 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	Pha Khwang	<b>Amphoe</b>	Mueang	<b>Changwat</b>	Nan
<b>Drainage Area</b>	3,476	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1994-Cont'd					
<b>Actual Measurement</b>	1994-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	29					
<b>R-Square</b>	0.9100					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.5460 QW^{1.85400}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.79	10.79	48.13	13.31	34327.37	20712.98	538.53	157.12	51.37	30.78	12.02	4.19		
2	10.79	9.81	44.99	13.31	8939.99	30769.80	481.82	157.12	51.37	25.79	10.79	4.19		
3	10.79	9.81	51.37	13.31	1348.70	53035.85	445.63	141.03	51.37	25.79	10.79	4.19		
4	10.79	9.81	28.24	16.08	11897.52	25319.88	428.03	141.03	48.13	25.79	10.79	4.19		
5	10.79	10.79	44.99	14.67	82175.27	23564.01	393.80	111.27	48.13	25.79	10.79	4.19		
6	10.79	10.79	500.40	13.31	26766.33	18492.78	344.94	104.34	48.13	25.79	10.79	4.19		
7	9.81	9.81	174.00	14.67	7180.89	13188.64	410.75	118.40	44.99	25.79	9.81	4.19		
8	9.81	8.88	214.88	20.67	2787.36	8322.52	410.75	174.00	44.99	25.79	9.81	4.86		
9	9.81	8.88	182.74	13.31	1627.07	2891.59	344.94	165.46	44.99	24.03	9.81	6.33		
10	9.81	6.33	157.12	12.02	5838.21	2340.21	329.32	133.28	39.01	24.03	8.88	6.33		
11	8.88	5.57	36.17	14.67	5339.93	2245.75	299.07	111.27	39.01	17.55	8.88	6.33		
12	8.88	4.19	33.42	13.31	5765.78	3051.25	203.90	104.34	36.17	17.55	8.88	6.33		
13	8.88	3.56	25.79	13.31	8126.87	2199.19	193.19	104.34	36.17	17.55	8.88	5.57		
14	7.98	16.08	25.79	13.31	4215.64	1890.24	393.80	104.34	36.17	16.08	8.88	4.86		
15	7.98	13.31	25.79	12.02	2436.46	2340.21	463.57	104.34	36.17	16.08	8.88	4.86		
16	7.98	13.31	22.32	13.31	5550.97	1450.27	785.41	104.34	36.17	16.08	7.98	4.86		
17	7.98	13.31	17.55	9.81	66227.64	1155.79	428.03	98.72	36.17	14.67	7.98	4.86		
18	9.81	12.02	17.55	8.88	105610.96	1155.79	463.57	98.72	36.17	14.67	7.98	4.86		
19	10.79	9.81	22.32	8.88	60851.22	1094.55	249.39	93.25	36.17	16.08	6.33	4.19		
20	10.79	8.88	22.32	8.88	16098.06	1315.59	249.39	93.25	33.42	13.31	6.33	4.19		
21	9.81	9.81	17.55	8.88	27689.12	734.30	261.42	72.80	33.42	13.31	6.33	4.19		
22	12.02	7.98	17.55	6.33	19588.39	639.47	214.88	63.45	33.42	13.31	6.33	4.19		
23	14.67	6.33	14.67	5.57	15953.48	618.64	214.88	63.45	33.42	13.31	6.33	5.57		
24	16.08	7.14	14.67	12.02	61161.68	618.64	226.12	63.45	33.42	13.31	7.14	6.33		
25	14.67	14.67	13.31	17.55	39068.74	577.95	226.12	63.45	33.42	13.31	7.98	6.33		
26	13.31	14.67	13.31	72.80	18032.13	538.53	226.12	54.70	33.42	12.02	7.98	2.99		
27	19.08	10.79	12.02	182.74	18185.09	838.10	237.62	54.70	30.78	12.02	7.98	2.99		
28	30.78	10.79	16.08	133.28	27503.41	709.34	203.90	54.70	30.78	12.02	4.19	2.99		
29	20.67	9.81	13.31	141.03	15809.50	618.64	182.74	54.70	30.78	12.02	4.19	2.99		
30	14.67	17.55	13.31	759.65	13188.64	577.95	214.88	51.37	30.78	12.02		2.99		
31		44.99		20550.55	13587.90		203.90		30.78	12.02		1.09		
Total	359.69	350.27	1841.66	22151.44	732880.32	223008.45	10270.41	3016.73	1188.69	557.66	243.73	140.41	996009.46	Ton/day
Mean	11.99	11.30	61.39	714.56	23641.30	7433.62	331.30	100.56	38.34	17.99	8.40	4.53	2721.34	Ton/day
Max	30.78	44.99	500.40	20550.55	105610.96	53035.85	785.41	174.00	51.37	30.78	12.02	6.33	105610.96	Ton/day
Min	7.98	3.56	12.02	5.57	1348.70	538.53	182.74	51.37	30.78	12.02	4.19	1.09	1.09	Ton/day



**WATER YEAR : 2019****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.

	<b>Ban Pang Sa</b>	<b>Amphoe</b>	<b>Tha Wang Pha</b>	<b>Changwat</b>	<b>Nan</b>
<b>Drainage Area</b>	621 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	25				
<b>R-Square</b>	0.7270				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.6520 QW^{1.80600}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.74	1.46	15.35	2.36	114.60	233.28	7.27	4.29	2.04	0.99	1.20	0.99	
2	1.74	0.80	2.71	1.74	11.08	293.55	7.97	4.29	2.04	1.74	1.20	0.99	
3	1.74	0.80	2.71	1.74	5.94	353.64	7.97	3.87	2.36	2.36	1.20	0.99	
4	1.74	0.80	2.04	1.74	33.45	193.67	7.97	4.29	2.04	2.36	1.20	0.99	
5	1.74	0.80	1.46	1.46	255.16	101.81	8.71	3.87	1.74	2.36	1.20	0.99	
6	2.04	0.80	1.46	1.20	101.81	74.62	5.94	4.29	1.74	2.36	1.20	0.06	
7	2.04	0.63	1.46	1.20	48.90	64.41	7.27	7.97	1.74	2.36	0.99	0.26	
8	1.74	0.48	0.99	1.20	19.16	41.18	7.97	6.59	1.74	2.36	0.99	0.30	
9	1.74	0.48	1.20	1.74	14.17	35.32	7.97	4.74	1.46	2.36	0.99	0.30	
10	1.46	0.48	1.20	1.74	24.81	48.90	6.59	3.87	1.46	2.04	0.99	0.22	
11	1.46	0.48	1.46	3.07	39.18	57.98	5.94	3.87	1.46	2.04	0.99	0.07	
12	1.46	0.48	1.46	3.07	61.16	74.62	6.59	3.46	1.46	2.04	0.99	0.02	
13	1.74	0.63	1.46	2.04	74.62	54.87	5.94	3.46	1.46	2.04	0.99	0.15	
14	1.46	2.04	2.36	2.04	51.85	33.45	13.03	3.46	1.46	2.04	0.99	0.15	
15	1.46	1.74	2.36	0.99	23.34	26.45	9.47	3.46	1.46	2.04	0.99	0.11	
16	1.46	0.99	2.36	0.99	43.23	23.34	7.27	3.46	1.74	2.04	0.99	0.11	
17	1.46	0.80	2.04	0.63	247.77	21.90	7.27	3.07	1.46	2.04	0.99	0.15	
18	2.04	0.80	2.36	0.48	128.43	26.45	7.27	2.71	1.46	2.04	0.99	0.13	
19	2.71	0.63	2.71	0.63	429.70	33.45	7.27	2.71	1.46	2.04	0.99	0.11	
20	2.36	0.63	2.36	0.48	74.62	21.90	5.94	3.07	1.46	2.04	0.99	0.11	
21	1.74	0.48	1.74	0.80	1304.05	14.17	5.94	2.71	1.20	2.04	0.99	0.11	
22	2.04	0.34	1.74	0.80	153.04	14.17	5.33	2.71	1.20	2.04	0.99	0.11	
23	2.36	0.23	0.99	0.80	193.67	11.93	5.33	2.36	1.20	2.04	0.99	0.11	
24	2.04	0.23	1.20	1.74	1075.42	11.08	5.33	2.36	1.20	2.04	0.99	0.11	
25	1.74	1.20	1.74	3.07	460.25	9.47	4.74	2.71	1.20	2.04	0.99	0.11	
26	1.74	3.07	2.36	4.29	327.11	7.27	4.29	2.71	1.20	2.04	0.99	0.11	
27	2.36	1.74	1.74	3.87	123.74	8.71	4.29	2.36	1.20	2.04	0.99	0.11	
28	2.71	0.99	1.20	2.71	618.28	9.47	4.29	2.36	1.20	2.04	0.99	0.11	
29	2.04	0.99	0.80	2.36	199.99	9.47	6.59	2.36	1.20	1.20	0.99	0.10	
30	1.46	3.46	0.99	4.29	153.04	7.97	9.47	2.36	1.20	1.20		0.10	
31		24.81		89.70	199.99		4.74		1.20	1.20		0.10	
Total	55.56	54.29	66.01	144.97	6611.56	1918.50	211.96	105.80	46.44	61.61	29.97	8.38	9315.05 Tonday
Mean	1.85	1.75	2.20	4.68	213.28	63.95	6.84	3.53	1.50	1.99	1.03	0.27	25.45 Ton/day
Max	2.71	24.81	15.35	89.70	1304.05	353.64	13.03	7.97	2.36	2.36	1.20	0.99	1304.05 Ton/day
Min	1.46	0.23	0.80	0.48	5.94	7.27	4.29	2.36	1.20	0.99	0.99	0.02	0.02 Ton/day

## WATER YEAR : 2019

## 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

	<b>Ban</b>	<b>Koei Chai</b>	<b>Amphoe</b>	<b>Chum Saeng</b>	<b>Changwat</b>	<b>Nakhon Sawan</b>
<b>Drainge Area</b>	57,384	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	26					
<b>R-Square</b>	0.9254					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.9496 QW^{1.13380}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1034.87	1216.95	1064.97	862.38	998.88	3534.39	2539.37	781.80	745.72	628.66	412.12	409.12	
2	1071.00	1192.48	1064.97	945.19	980.95	4244.74	2226.23	721.99	745.72	611.06	400.16	400.16	
3	1052.92	1198.59	1137.62	1046.90	933.31	5166.80	1954.89	730.96	735.45	650.74	406.13	388.24	
4	1058.94	1259.93	1210.83	1174.16	903.67	6372.14	2114.00	761.16	695.17	726.47	418.11	394.19	
5	1022.86	1321.62	1223.08	1414.79	921.44	7311.75	2370.78	812.88	628.66	771.47	421.11	412.12	
6	915.51	1352.59	1290.73	1649.07	903.67	7981.41	2178.05	891.85	562.97	704.10	409.12	424.12	
7	885.95	1352.59	1309.25	1812.98	850.63	8265.86	1820.83	856.50	521.51	571.67	406.13	436.16	
8	880.05	1309.25	1284.56	1742.51	903.67	8236.85	1578.70	844.76	503.07	481.05	400.16	462.79	
9	850.63	1253.78	1371.21	1585.72	1034.87	8063.05	1750.32	850.63	477.39	439.18	403.14	466.43	
10	838.89	1235.35	1473.83	1365.00	1052.92	7718.47	1875.90	838.89	470.08	455.51	427.12	451.87	
11	838.89	1247.63	1439.76	1223.08	1052.92	7377.39	1875.90	833.68	514.12	470.08	448.24	445.22	
12	844.76	1272.24	1272.24	1101.23	1052.92	7053.23	1742.51	792.14	540.03	436.16	459.15	427.12	
13	868.27	1352.59	1071.00	980.95	1052.92	6814.17	1627.92	756.01	510.44	400.16	451.87	403.14	
14	862.38	1446.01	1058.94	933.31	1095.17	6421.82	1550.65	740.58	484.71	391.21	427.12	397.17	
15	880.05	1494.73	1058.94	903.67	1241.49	5953.39	1585.72	771.47	477.39	406.13	403.14	385.27	
16	874.16	1480.79	1052.92	838.89	1321.62	5464.90	1773.79	856.50	448.24	412.12	406.13	382.30	
17	850.63	1487.76	1058.94	802.51	1389.87	4934.91	2058.14	880.05	510.44	445.22	409.12	388.24	
18	850.63	1439.76	1089.13	823.27	1473.83	4567.20	2106.01	828.48	473.73	567.32	382.30	397.17	
19	885.95	1340.19	1327.80	797.32	1543.65	4556.06	1852.27	818.08	433.15	655.17	358.63	397.17	
20	891.85	1241.49	1515.67	761.16	1585.72	4689.93	1408.55	818.08	445.22	713.04	388.24	403.14	
21	891.85	1161.97	1550.65	713.04	1734.70	4772.22	1040.88	812.88	455.51	708.57	418.11	406.13	
22	823.27	1174.16	1515.67	659.60	1852.27	4589.49	874.16	812.88	436.16	721.99	412.12	400.16	
23	828.48	1168.06	1459.91	672.91	1891.66	4467.07	850.63	823.27	415.11	730.96	403.14	403.14	
24	856.50	1143.70	1371.21	708.57	1868.02	4326.87	802.51	812.88	400.16	672.91	418.11	397.17	
25	868.27	1131.55	1321.62	681.81	1939.06	4132.11	766.31	792.14	415.11	551.17	403.14	382.30	
26	915.51	1131.55	1247.63	699.63	2218.19	3979.12	761.16	792.14	433.15	525.21	394.19	382.30	
27	1028.86	1089.13	1095.17	766.31	2583.97	3644.99	745.72	766.31	442.20	448.24	391.21	385.27	
28	1137.62	1058.94	1058.94	828.48	2817.28	3434.21	766.31	750.86	554.89	424.12	388.24	397.17	
29	1192.48	1077.04	1058.94	903.67	2844.36	3162.39	797.32	771.47	668.47	406.13	397.17	415.11	
30	1204.71	1125.48	1058.94	998.88	2871.46	2871.46	856.50	792.14	659.60	409.12		409.12	
31		1095.17		1046.90	3144.11		874.16		664.03	424.12		415.11	
Total	28006.74	38853.07	37115.07	31443.89	48059.20	164108.39	47126.19	24113.46	16467.60	16959.06	11862.67	12664.12	476779.46 Tonday
Mean	933.56	1253.32	1237.17	1014.32	1550.30	5470.28	1520.20	803.78	531.21	547.07	409.06	408.52	1302.68 Ton/day
Max	1204.71	1494.73	1550.65	1812.98	3144.11	8265.86	2539.37	891.85	745.72	771.47	459.15	466.43	8265.86 Ton/day
Min	823.27	1058.94	1052.92	659.60	850.63	2871.46	745.72	721.99	400.16	391.21	358.63	382.30	358.63 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Tha Li Bridge	<b>Amphoe</b> Wiang Sa	<b>Changwat</b> Nan
<b>Drainage Area</b>	2,170 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8180		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.5730 QW^{1.72100}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.25	23.25	78.65	20.53	9337.86	8231.38	359.92	156.07	78.65	43.64	26.11	19.27	
2	23.25	21.87	70.25	37.48	4374.52	10131.45	351.89	143.88	75.81	41.55	26.11	19.27	
3	23.25	21.87	93.79	67.53	1658.45	13625.64	343.94	143.88	73.00	41.55	26.11	19.27	
4	23.25	21.87	260.31	62.24	7468.92	8900.62	343.94	143.88	70.25	41.55	24.66	18.04	
5	39.49	19.27	156.07	47.97	18073.02	6033.62	368.02	143.88	67.53	41.55	23.25	18.04	
6	29.11	21.87	156.07	132.11	13625.64	4861.18	410.42	132.11	67.53	41.55	23.25	18.04	
7	29.11	21.87	156.07	75.81	4023.74	4334.94	359.92	128.28	62.24	39.49	23.25	16.84	
8	29.11	20.53	73.00	67.53	2681.17	2944.79	343.94	128.28	62.24	39.49	23.25	16.84	
9	27.59	19.27	73.00	75.81	1451.50	2521.70	328.27	132.11	62.24	37.48	23.25	16.84	
10	23.25	16.84	59.66	75.81	8532.86	1980.50	328.27	117.07	62.24	37.48	23.25	15.68	
11	21.87	16.84	47.97	73.00	3985.52	1901.80	328.27	117.07	62.24	35.51	21.87	13.46	
12	20.53	15.68	24.66	73.00	3648.49	1827.33	328.27	113.62	62.24	35.51	21.87	13.46	
13	18.04	15.68	24.66	70.25	3430.77	1682.16	392.77	113.62	59.66	33.86	20.53	13.46	
14	16.84	15.68	23.25	67.53	2585.00	1542.05	457.99	113.62	59.66	32.25	20.53	13.46	
15	16.84	15.68	29.11	64.86	1852.02	1186.52	286.44	110.20	57.13	33.86	19.27	12.41	
16	16.84	21.87	45.79	62.24	2062.06	927.87	260.31	103.50	57.13	33.86	19.27	12.41	
17	14.55	21.87	41.55	59.66	27866.37	831.96	237.09	100.22	57.13	33.86	19.27	12.41	
18	14.55	16.84	70.25	47.97	22884.08	831.96	210.07	93.79	54.78	32.25	19.27	12.41	
19	24.66	10.40	113.62	47.97	13384.66	1827.33	204.84	90.64	54.78	32.25	19.27	12.41	
20	23.25	7.11	132.11	43.64	7256.06	1542.05	199.66	90.64	54.78	30.66	19.27	12.41	
21	21.87	14.55	73.00	35.51	13464.79	960.81	186.11	87.54	52.47	30.66	19.27	12.41	
22	20.53	37.48	41.55	33.86	15703.36	741.46	190.58	87.54	52.47	30.66	19.27	12.41	
23	16.84	20.53	29.11	87.54	7468.92	673.37	181.68	87.54	50.20	30.66	19.27	12.41	
24	16.84	10.40	23.25	117.07	13949.76	570.21	164.43	87.54	47.97	29.11	19.27	12.41	
25	16.84	11.39	19.27	299.89	20700.56	467.76	160.23	87.54	47.97	27.59	19.27	12.41	
26	20.53	29.11	21.87	299.89	17602.92	419.76	160.23	84.48	45.79	26.11	19.27	12.41	
27	19.27	33.86	64.86	863.44	11372.25	438.70	160.23	81.54	45.79	26.11	19.27	12.41	
28	21.87	19.27	37.48	336.07	12672.54	770.47	160.23	81.54	45.79	26.11	19.27	12.41	
29	21.87	14.55	27.59	231.57	9655.53	509.42	156.07	78.65	45.79	26.11	19.27	12.41	
30	24.66	16.84	20.53	160.23	6697.78	419.76	151.96	78.65	45.79	26.11	19.27	12.41	
31		35.51		13868.43	6797.89		156.07		45.79	26.11	19.27	12.41	
Total	659.75	609.65	2088.35	17606.44	296269.01	83638.57	8272.06	3258.92	1787.08	1044.54	616.34	442.94	416293.65 Tonday
Mean	21.99	19.67	69.61	567.95	9557.06	2787.95	266.84	108.63	57.65	33.69	21.25	14.29	1137.41 Ton/day
Max	39.49	37.48	260.31	13868.43	27866.37	13625.64	457.99	156.07	78.65	43.64	26.11	19.27	27866.37 Ton/day
Min	14.55	7.11	19.27	20.53	1451.50	419.76	151.96	78.65	45.79	26.11	19.27	12.41	7.11 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Kaeng Bua Kham	<b>Amphoe</b> Chat Trakan	<b>Changwat</b> Phitsanulok
<b>Drainage Area</b>	3,120 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2012-Cont'd		
<b>Actual Measurement</b>	2012-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	19		
<b>R-Square</b>	0.9289		
<b>Remarks</b>	Continued Sediment Station		

QS = 1.0906 QW<sup>1.57450</sup>**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.00	0.64	6.74	6.12	162.82	13.49	5.49	3.49	2.22	1.05	0.97	
2	0.47	0.00	13.49	5.81	7.04	196.78	11.98	5.18	3.35	2.36	1.05	0.97	
3	0.33	0.00	10.37	11.48	14.99	215.87	10.97	5.49	3.21	2.36	1.05	0.97	
4	0.27	0.00	10.97	10.07	21.12	209.92	12.49	6.12	3.07	2.22	1.05	0.97	
5	0.27	0.00	12.99	23.94	19.99	193.92	19.42	5.81	2.93	1.98	1.09	0.97	
6	0.24	0.00	10.97	38.00	17.14	179.33	26.17	6.12	2.79	1.88	1.09	0.97	
7	0.27	0.00	13.99	30.68	21.69	156.84	26.17	6.43	2.79	1.88	1.09	0.97	
8	0.24	0.00	23.94	19.42	20.56	135.00	20.56	6.12	2.65	1.79	1.05	1.01	
9	0.15	0.00	18.85	13.49	18.28	116.26	15.98	6.43	2.51	1.69	1.05	1.01	
10	0.10	0.00	14.49	10.37	21.12	102.09	15.49	7.04	2.36	1.69	1.05	0.97	
11	0.08	0.00	10.07	9.77	48.08	90.12	15.49	6.12	2.36	1.59	1.05	0.97	
12	0.05	0.00	9.17	9.77	70.91	77.15	19.99	5.81	2.36	1.29	1.01	0.97	
13	0.10	0.00	7.35	8.27	76.52	72.16	28.42	4.86	2.36	1.01	0.97	0.97	
14	0.10	0.00	6.12	6.43	75.90	74.03	26.17	4.73	2.51	1.19	0.97	0.97	
15	0.10	0.00	6.43	5.18	77.15	71.54	26.17	4.73	2.51	1.19	0.97	0.97	
16	0.10	0.00	6.74	4.46	74.66	62.74	21.12	4.73	2.36	1.19	0.97	0.97	
17	0.08	0.00	5.18	4.32	65.89	46.79	14.49	4.73	2.36	1.19	0.97	0.97	
18	0.40	0.00	5.18	3.91	60.21	37.37	11.48	4.59	2.22	1.29	0.97	0.97	
19	0.33	0.00	5.49	3.63	57.67	33.58	10.07	4.59	2.22	1.39	0.97	1.39	
20	0.22	0.10	7.04	3.07	53.21	30.12	8.87	4.46	2.22	1.39	0.97	1.19	
21	0.15	0.10	7.04	3.35	46.79	30.68	8.27	4.32	2.22	1.29	0.97	1.19	
22	0.13	0.40	5.18	3.63	44.88	31.25	7.35	4.18	2.22	1.29	0.97	1.39	
23	0.51	0.38	4.18	3.77	53.21	28.42	6.74	4.18	2.08	1.49	0.97	1.39	
24	0.27	0.29	3.63	4.46	75.90	23.94	6.74	3.91	1.98	1.59	0.97	1.29	
25	0.20	0.42	3.07	4.18	75.28	21.12	7.04	3.91	1.88	1.59	0.97	1.09	
26	0.13	0.44	6.74	4.04	77.77	18.28	6.74	3.77	1.88	1.49	0.97	1.05	
27	0.03	1.98	5.81	5.18	79.63	15.98	6.43	3.63	1.98	1.39	0.97	1.01	
28	0.00	0.53	4.86	10.67	87.66	14.99	6.12	3.63	2.08	1.09	0.97	0.97	
29	0.00	0.49	8.87	9.77	96.28	16.56	5.81	3.49	2.08	0.97	0.97	0.97	
30	0.00	0.59	9.77	8.27	93.19	14.99	5.81	3.49	1.98	0.97		0.97	
31		0.55		7.04	128.33		5.49		1.98	0.97		0.97	
Total	5.59	6.27	258.62	293.17	1687.17	2480.64	427.53	148.09	74.99	46.92	29.17	32.41	5490.57 Tonday
Mean	0.19	0.20	8.62	9.46	54.42	82.69	13.79	4.94	2.42	1.51	1.01	1.05	15.00 Ton/day
Max	0.51	1.98	23.94	38.00	128.33	215.87	28.42	7.04	3.49	2.36	1.09	1.39	215.87 Ton/day
Min	0.00	0.00	0.64	3.07	6.12	14.99	5.49	3.49	1.88	0.97	0.97	0.97	0.00 Ton/day

**WATER YEAR : 2019****NAN RIVER BASIN****Nam Pat at Ban Suan , Uttaradit (N.84)**

Lat 17 - 44 - 29 N Long 100 - 40 - 45 E

Location : on right bank at Ban Suan.

	<b>Ban Suan</b>	<b>Amphoe Nam Pat</b>	<b>Changwat Uttaradit</b>
<b>Drainage Area</b>	1,863 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2016-Cont'd		
<b>Actual Measurement</b>	2016-Cont'd		
<b>Using Rating Curve Water Year</b>	2016-2019		
<b>Number of observation</b>	85		
<b>R-Square</b>	0.7905		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.4037 QW^{1.47250}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.86	0.88	20.37	4.51	0.42	10618.52	19.13	6.06	1.80	1.05	2.23	0.00	
2	14.61	0.88	20.37	4.51	0.27	4011.71	16.82	6.06	1.80	1.80	2.45	0.00	
3	8.62	0.88	16.82	4.51	0.34	11880.34	61.90	6.06	1.80	0.88	2.23	0.00	
4	6.06	0.58	15.75	4.51	0.58	2841.22	31.99	6.06	1.80	0.88	2.45	0.00	
5	6.06	0.58	15.75	7.76	0.88	835.96	64.33	6.06	1.80	3.11	1.60	0.00	
6	5.24	0.58	15.75	6.86	10.51	383.70	39.23	6.06	1.80	3.76	1.80	0.00	
7	6.06	0.58	15.75	4.51	10.51	232.26	27.97	6.06	1.80	4.51	2.01	0.00	
8	5.24	0.58	21.53	2.45	9.58	165.82	22.81	6.06	1.80	4.51	2.45	0.00	
9	2.45	0.73	39.23	2.01	7.76	132.14	26.60	6.06	1.80	3.11	2.45	0.00	
10	2.01	0.58	52.25	1.60	157.17	107.80	22.81	6.06	1.80	3.11	2.45	0.00	
11	1.80	0.58	20.37	2.45	685.37	96.31	43.70	6.06	1.80	3.76	2.45	0.00	
12	1.60	0.58	16.82	2.01	2176.90	90.65	82.44	6.06	1.80	3.11	2.45	0.00	
13	2.01	0.27	13.59	1.60	609.78	87.93	87.93	6.06	1.80	2.23	2.45	0.00	
14	2.01	0.27	10.51	1.41	183.55	311.87	113.77	6.06	1.80	2.45	3.76	0.00	
15	2.01	0.58	10.51	1.05	129.07	125.87	45.30	6.06	1.80	3.11	3.11	0.00	
16	2.01	0.58	7.76	0.88	375.74	102.07	30.67	6.06	1.80	3.11	1.60	0.00	
17	1.80	0.58	6.06	0.73	1485.13	102.07	27.97	6.06	1.80	2.23	0.50	0.00	
18	12.51	0.27	7.76	0.42	943.58	96.31	30.67	6.06	1.80	2.45	0.27	0.00	
19	8.62	0.27	39.23	0.58	286.58	61.90	24.02	6.06	1.80	3.76	0.27	0.00	
20	3.76	2.01	40.66	0.50	125.87	48.44	20.37	6.06	1.80	4.51	0.34	0.00	
21	2.45	4.51	26.60	0.42	77.20	46.80	18.01	6.06	1.80	4.51	0.27	0.05	
22	2.45	12.51	21.53	0.42	535.81	46.80	16.82	6.06	1.80	3.11	0.27	0.00	
23	16.82	9.58	19.13	0.42	2307.62	43.70	13.59	6.06	1.80	3.11	0.27	0.00	
24	5.24	5.24	19.13	0.50	663.48	37.70	10.51	6.06	1.80	4.51	0.50	0.00	
25	3.76	5.24	16.82	0.50	2360.59	30.67	10.51	6.06	1.80	5.24	0.34	0.00	
26	2.01	40.66	14.61	0.50	1055.29	27.97	10.51	6.06	1.80	2.23	0.00	0.00	
27	1.41	57.01	10.51	0.50	391.72	27.97	9.58	6.06	1.80	2.23	0.00	0.00	
28	1.05	22.81	8.62	0.34	226.45	25.35	10.51	6.06	1.80	3.11	0.00	0.00	
29	0.88	15.75	6.86	0.42	416.08	22.81	7.76	6.06	1.80	3.11	0.00	0.00	
30	0.73	11.53	5.24	0.34	424.31	22.81	8.62	6.06	1.80	3.11	0.00	0.00	
31		15.75		0.50	10958.13		6.86		1.80	2.23		0.00	
Total	138.14	213.43	555.89	59.72	26616.27	32665.47	963.71	181.80	55.80	93.94	40.97	0.05	61585.19 Tonday
Mean	4.60	6.88	18.53	1.93	858.59	1088.85	31.09	6.06	1.80	3.03	1.41	0.00	168.27 Ton/day
Max	16.82	57.01	52.25	7.76	10958.13	11880.34	113.77	6.06	1.80	5.24	3.76	0.05	11880.34 Ton/day
Min	0.73	0.27	5.24	0.34	0.27	22.81	6.86	6.06	1.80	0.88	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainge Area</b>	109,973 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1956-Cont'd		
<b>Actual Measurement</b>	1956-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.8888		
<b>Remarks</b>	Continued Sediment Station		

QS = 3.2090 QW<sup>1.11620</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1781.15	2253.90	2629.02	2253.90	1885.19	5186.40	4055.73	1148.19	1201.17	1348.08	749.59	734.43		
2	1798.45	2342.66	2719.20	2378.27	1746.61	6278.84	3578.14	1063.96	1127.07	1249.05	772.37	757.17		
3	1850.44	2253.90	2980.62	2521.24	1646.85	7745.24	3213.55	1043.01	1095.47	1201.17	772.37	757.17		
4	1850.44	2112.64	3113.71	2396.09	1688.06	9091.20	3277.59	1032.55	1084.96	1297.13	779.98	749.59		
5	1763.87	2147.86	3132.77	2611.02	1646.85	9772.25	3664.50	1084.96	1011.67	1309.18	795.23	749.59		
6	1646.85	2130.24	3151.84	2961.65	1605.75	10278.86	3621.30	1158.77	945.40	1261.05	772.37	764.77		
7	1660.57	2112.64	3151.84	3256.23	1660.57	10728.04	3449.00	1190.55	909.21	1105.99	749.59	802.86		
8	1660.57	2165.50	3113.71	3151.84	1674.31	10968.41	3192.23	1225.08	873.18	954.46	719.32	810.50		
9	1605.75	2289.36	3075.62	2999.59	1605.75	10968.41	3170.93	1510.28	779.98	882.18	696.70	837.31		
10	1537.49	2324.88	3132.77	2647.03	1496.69	10608.06	3234.88	1798.45	734.43	873.18	764.77	819.43		
11	1523.88	2324.88	3094.66	2467.52	1415.43	10099.75	3213.55	1763.87	696.70	882.18	810.50	819.43		
12	1578.41	2360.46	2791.56	2218.49	1523.88	9712.83	3037.58	1564.76	764.77	855.22	828.36	795.23		
13	1605.75	2521.24	2396.09	2095.05	1633.14	9416.28	2829.27	1297.13	757.17	779.98	837.31	764.77		
14	1578.41	2719.20	2077.47	2042.37	1833.09	8973.28	2719.20	1190.55	726.87	772.37	810.50	734.43		
15	1674.31	2885.93	1833.09	1989.83	2024.84	8561.86	2665.05	1225.08	719.32	787.60	795.23	704.23		
16	1674.31	2923.77	1902.59	1937.44	2165.50	7890.43	2755.35	1297.13	696.70	802.86	787.60	681.67		
17	1688.06	2810.41	2042.37	1867.81	2165.50	7116.99	3320.36	1297.13	711.77	819.43	764.77	711.77		
18	1674.31	2848.14	2342.66	1885.19	2183.15	6435.15	3816.15	1285.09	726.87	882.18	711.77	734.43		
19	1701.82	2719.20	2683.09	1850.44	2342.66	6226.82	3320.36	1334.65	674.16	990.82	651.70	734.43		
20	1729.37	2611.02	2942.70	1715.59	2575.07	6513.45	2647.03	1401.93	696.70	1084.96	674.16	719.32		
21	1746.61	2467.52	2923.77	1646.85	2810.41	6880.16	2077.47	1388.45	734.43	1095.47	779.98	742.01		
22	1660.57	2503.32	2848.14	1592.07	2829.27	7064.29	1746.61	1374.98	742.01	1084.96	772.37	742.01		
23	1660.57	2593.04	2867.03	1578.41	2961.65	7169.73	1483.11	1401.93	757.17	1095.47	764.77	742.01		
24	1701.82	2557.11	2810.41	1537.49	3056.60	7434.03	1374.98	1401.93	734.43	1127.07	764.77	742.01		
25	1746.61	2647.03	2791.56	1592.07	3170.93	7542.44	1273.07	1388.45	726.87	1043.01	772.37	742.01		
26	1833.09	2719.20	2647.03	1646.85	3449.00	7248.91	1225.08	1374.98	764.77	936.34	764.77	704.23		
27	2042.37	2665.05	2449.64	1605.75	3924.86	6670.36	1137.63	1348.08	864.20	819.43	810.50	681.67		
28	2183.15	2575.07	2378.27	1619.44	4208.96	6122.93	1105.99	1309.18	1032.55	757.17	757.17	696.70		
29	2253.90	2611.02	2271.62	1660.57	4296.78	5477.85	1116.53	1273.07	1225.08	757.17	757.17	696.70		
30	2271.62	2701.14	2183.15	1746.61	4318.77	4780.78	1158.77	1249.05	1388.45	764.77		719.32		
31		2719.20		1885.19	4591.12		1179.95		1388.45	764.77		726.87		
Total	52684.52	77616.53	80478.00	65357.89	76137.24	238964.03	79660.94	39423.22	27291.98	30384.70	22188.06	23118.07	813305.18	Ton/day
Mean	1756.15	2503.76	2682.60	2108.32	2456.04	7965.47	2569.71	1314.11	880.39	980.15	765.11	745.74	2222.15	Ton/day
Max	2271.62	2923.77	3151.84	3256.23	4591.12	10968.41	4055.73	1798.45	1388.45	1348.08	837.31	837.31	10968.41	Ton/day
Min	1523.88	2112.64	1833.09	1537.49	1415.43	4780.78	1105.99	1032.55	674.16	757.17	651.70	681.67	651.70	Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	118,752 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1950-Cont'd		
<b>Actual Measurement</b>	1950-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.9385		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.8760 QW^{1.36560}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	359.76	345.45	408.52	308.09	254.28	2260.46	1778.77	308.09	336.01	418.47	326.63	285.33	
2	340.72	340.72	374.21	303.50	267.47	3113.17	1079.14	303.50	331.31	413.49	312.70	280.84	
3	317.32	345.45	350.20	312.70	271.91	4227.45	725.12	289.85	317.32	403.57	280.84	294.38	
4	340.72	350.20	340.72	254.28	267.47	5900.72	828.16	263.05	308.09	398.64	285.33	308.09	
5	369.38	345.45	388.82	267.47	267.47	7283.29	2260.46	263.05	321.97	398.64	326.63	350.20	
6	364.56	364.56	428.49	312.70	276.36	8060.66	2632.69	258.65	336.01	413.49	393.72	345.45	
7	369.38	369.38	433.52	317.32	267.47	9014.39	1315.43	241.26	326.63	408.52	438.56	345.45	
8	379.06	403.57	433.52	345.45	267.47	9170.87	1427.72	258.65	345.45	408.52	418.47	345.45	
9	383.93	388.82	418.47	326.63	280.84	9422.71	1417.34	285.33	369.38	458.90	369.38	340.72	
10	354.97	403.57	388.82	303.50	276.36	9824.20	1375.99	298.93	354.97	474.32	374.21	280.84	
11	336.01	413.49	408.52	298.93	263.05	9488.84	1132.55	303.50	359.76	502.28	393.72	276.36	
12	350.20	428.49	403.57	326.63	254.28	9359.58	1079.14	303.50	374.21	453.80	359.76	280.84	
13	350.20	443.63	413.49	350.20	258.65	9014.39	858.26	317.32	374.21	458.90	374.21	289.85	
14	354.97	464.03	413.49	321.97	294.38	8182.10	746.89	312.70	364.56	490.52	354.97	289.85	
15	350.20	484.67	408.52	285.33	294.38	7729.20	732.36	317.32	340.72	469.17	289.85	289.85	
16	340.72	484.67	350.20	219.99	285.33	7609.60	739.61	340.72	345.45	443.63	271.91	289.85	
17	336.01	490.52	285.33	215.80	294.38	7224.38	682.10	317.32	308.09	374.21	271.91	308.09	
18	340.72	458.90	285.33	215.80	280.84	4935.23	798.35	308.09	289.85	364.56	289.85	312.70	
19	364.56	433.52	289.85	228.44	280.84	3819.27	1766.83	312.70	289.85	336.01	374.21	303.50	
20	354.97	408.52	312.70	228.44	289.85	4286.66	1567.26	317.32	303.50	340.72	383.93	303.50	
21	336.01	383.93	321.97	228.44	289.85	5044.26	1061.49	331.31	303.50	345.45	359.76	289.85	
22	336.01	383.93	308.09	224.20	289.85	6335.66	768.83	317.32	308.09	374.21	354.97	285.33	
23	340.72	388.82	289.85	219.99	303.50	7253.82	586.59	312.70	312.70	448.70	317.32	289.85	
24	331.31	379.06	219.99	219.99	308.09	7312.80	413.49	312.70	303.50	443.63	294.38	294.38	
25	364.56	285.33	236.97	219.99	317.32	7490.50	369.38	312.70	331.31	433.52	294.38	308.09	
26	383.93	267.47	236.97	224.20	303.50	7431.14	321.97	321.97	359.76	418.47	303.50	312.70	
27	350.20	294.38	249.92	232.69	340.72	6642.36	364.56	317.32	350.20	364.56	289.85	294.38	
28	354.97	317.32	289.85	232.69	433.52	5375.10	331.31	321.97	354.97	350.20	303.50	298.93	
29	350.20	317.32	317.32	215.80	612.01	3857.67	359.76	326.63	388.82	321.97	308.09	312.70	
30	345.45	312.70	312.70	215.80	1132.55	2926.79	350.20	336.01	408.52	317.32		298.93	
31		345.45		241.26	1695.67		326.63		433.52	317.32		308.09	
Total	10551.72	11843.32	10319.92	8218.22	11519.66	199597.27	30198.38	9131.48	10552.23	12565.71	9716.54	9414.37	333628.82 Tonday
Mean	351.72	382.04	344.00	265.10	371.60	6653.24	974.14	304.38	340.39	405.35	335.05	303.69	911.55 Ton/day
Max	383.93	490.52	433.52	350.20	1695.67	9824.20	2632.69	340.72	433.52	502.28	438.56	350.20	9824.20 Ton/day
Min	317.32	267.47	219.99	215.80	254.28	2260.46	321.97	241.26	289.85	317.32	271.91	276.36	215.80 Ton/day

## WATER YEAR : 2019

## 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 Kaeo.

	<b>Ban</b> Bang Kaeo	<b>Amphoe</b> Mueang	<b>Changwat</b> Ang Thong
<b>Drainage Area</b>	Flood Plain		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	35		
<b>R-Square</b>	0.9706		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1738 QW^{1.04910}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	446.46	392.90	569.74	439.75	326.43	1171.03	1497.90	548.11	714.87	634.86	707.58	520.60		
2	439.75	392.90	569.74	433.04	359.59	1404.76	1071.13	584.18	693.01	627.61	663.91	513.84		
3	486.84	493.58	507.08	433.04	439.75	1788.28	909.95	634.86	678.45	548.11	534.14	605.88		
4	500.33	507.08	555.32	426.34	419.64	2370.92	817.32	569.74	685.73	527.37	584.18	663.91		
5	540.91	493.58	555.32	555.32	459.90	2846.34	1062.82	507.08	562.53	555.32	634.86	656.64		
6	598.64	473.36	598.64	584.18	426.34	3121.56	1479.25	534.14	466.63	620.36	671.18	634.86		
7	620.36	459.90	540.91	527.37	379.56	3442.25	1187.72	507.08	453.18	584.18	678.45	540.91		
8	634.86	486.84	562.53	480.10	333.05	3553.17	917.76	426.34	714.87	620.36	613.12	534.14		
9	642.12	507.08	548.11	446.46	392.90	3608.69	925.57	493.58	671.18	642.12	613.12	486.84		
10	656.64	480.10	473.36	406.26	446.46	3742.09	855.35	540.91	663.91	649.38	714.87	520.60		
11	627.61	534.14	473.36	412.95	486.84	3730.97	824.66	513.84	678.45	663.91	780.66	555.32		
12	620.36	540.91	459.90	500.33	527.37	3642.02	824.66	534.14	685.73	649.38	707.58	562.53		
13	627.61	534.14	466.63	569.74	473.36	3619.80	802.64	634.86	649.38	693.01	714.87	598.64		
14	605.88	500.33	500.33	453.18	399.58	3353.64	809.98	591.41	663.91	787.98	678.45	569.74		
15	540.91	500.33	513.84	386.22	379.56	3209.88	773.33	678.45	627.61	751.39	605.88	598.64		
16	486.84	540.91	507.08	333.05	392.90	3198.84	744.08	758.70	671.18	707.58	540.91	656.64		
17	459.90	540.91	473.36	399.58	446.46	3187.79	751.39	642.12	649.38	540.91	540.91	714.87		
18	500.33	534.14	480.10	379.56	459.90	2736.59	744.08	613.12	627.61	520.60	642.12	671.18		
19	576.96	569.74	500.33	433.04	439.75	1986.28	988.20	642.12	576.96	620.36	773.33	634.86		
20	569.74	540.91	453.18	433.04	439.75	2006.99	1121.03	685.73	493.58	663.91	693.01	569.74		
21	591.41	493.58	473.36	473.36	446.46	2277.07	988.20	700.29	527.37	678.45	649.38	507.08		
22	605.88	500.33	399.58	419.64	466.63	2736.59	878.73	591.41	480.10	656.64	707.58	473.36		
23	605.88	486.84	399.58	386.22	459.90	3209.88	787.98	507.08	534.14	649.38	700.29	466.63		
24	576.96	493.58	419.64	366.24	466.63	3276.20	649.38	540.91	620.36	642.12	642.12	480.10		
25	605.88	493.58	359.59	326.43	480.10	3386.86	548.11	598.64	634.86	671.18	693.01	534.14		
26	576.96	459.90	333.05	306.60	433.04	3397.93	576.96	642.12	605.88	685.73	613.12	584.18		
27	540.91	439.75	280.27	419.64	453.18	3231.98	613.12	634.86	562.53	540.91	569.74	520.60		
28	527.37	446.46	372.90	473.36	466.63	2857.32	649.38	663.91	634.86	576.96	693.01	513.84		
29	453.18	493.58	513.84	466.63	466.63	2339.62	642.12	693.01	700.29	540.91	663.91	527.37		
30	433.04	493.58	500.33	352.95	627.61	1910.74	663.91	729.47	605.88	507.08		548.11		
31		500.33		319.81	909.95		627.61		555.32	527.37		548.11		
Total	16700.52	15325.29	14361.00	13343.43	14105.85	86346.08	26734.32	17942.21	19089.74	19285.43	19025.29	17513.90	279773.06	Ton/day
Mean	556.68	494.36	478.70	430.43	455.03	2878.20	862.40	598.07	615.80	622.11	656.04	564.96	764.41	Ton/day
Max	656.64	569.74	598.64	584.18	909.95	3742.09	1497.90	758.70	714.87	787.98	780.66	714.87	3742.09	Ton/day
Min	433.04	392.90	280.27	306.60	326.43	1171.03	548.11	426.34	453.18	507.08	534.14	466.63	280.27	Ton/day



**WATER YEAR : 2019**  
**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**

	<b>Ban</b>	<b>Bang Luang</b>	<b>Amphoe</b>	<b>Sanphaya</b>	<b>Changwat</b>	<b>Chai Nat</b>
<b>Drainge Area</b>	117,187 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1953-Cont'd					
<b>Actual Measurement</b>	1953-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	29					
<b>R-Square</b>	0.9612					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 3.8785 QW^{1.07820}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	425.32	425.32	349.42	349.42	349.42	1915.76	957.76	349.42	349.42	508.18	349.42	349.42	
2	425.32	425.32	349.42	349.42	349.42	2644.67	652.47	349.42	349.42	466.62	349.42	349.42	
3	425.32	425.32	349.42	311.32	349.42	3356.52	604.09	349.42	349.42	466.62	349.42	349.42	
4	425.32	425.32	378.48	288.39	349.42	4422.78	1207.48	349.42	355.22	466.62	396.00	396.00	
5	425.32	425.32	425.32	288.39	349.42	4995.30	2083.49	320.53	419.45	466.62	431.21	425.32	
6	425.32	425.32	425.32	288.39	349.42	5554.21	1323.29	288.39	425.32	466.62	502.23	425.32	
7	425.32	460.70	425.32	288.39	349.42	5906.35	823.78	306.73	425.32	472.54	508.18	425.32	
8	425.32	508.18	425.32	288.39	349.42	5924.14	1265.29	349.42	425.32	555.99	454.79	419.45	
9	425.32	508.18	425.32	288.39	349.42	6144.35	1025.27	349.42	425.32	561.98	425.32	355.22	
10	425.32	508.18	425.32	288.39	325.14	6274.32	1025.27	349.42	425.32	561.98	425.32	349.42	
11	425.32	508.18	425.32	288.39	320.53	5977.54	905.48	349.42	425.32	538.02	425.32	349.42	
12	425.32	514.14	425.32	288.39	320.53	5906.35	853.42	349.42	425.32	532.05	425.32	349.42	
13	425.32	561.98	425.32	288.39	339.00	5588.22	688.93	349.42	401.86	538.02	425.32	349.42	
14	425.32	561.98	425.32	288.39	349.42	5198.04	676.76	349.42	390.16	520.10	378.48	349.42	
15	425.32	526.07	390.16	288.39	349.42	4911.00	676.76	349.42	390.16	502.23	349.42	349.42	
16	425.32	508.18	349.42	288.39	349.42	4843.63	622.20	349.42	366.84	431.21	349.42	349.42	
17	425.32	508.18	349.42	288.39	349.42	4361.49	592.04	349.42	349.42	425.32	355.22	349.42	
18	425.32	508.18	349.42	288.39	349.42	2419.85	1215.73	349.42	349.42	401.86	419.45	349.42	
19	425.32	472.54	349.42	288.39	349.42	2756.27	1473.26	349.42	349.42	390.16	425.32	349.42	
20	425.32	425.32	349.42	288.39	349.42	3060.41	1010.24	349.42	349.42	390.16	425.32	349.42	
21	425.32	425.32	349.42	288.39	349.42	3590.67	713.32	349.42	349.42	396.00	425.32	349.42	
22	425.32	425.32	349.42	288.39	349.42	4315.57	604.09	349.42	349.42	502.23	419.45	349.42	
23	425.32	419.45	349.42	288.39	349.42	4376.81	496.28	349.42	349.42	508.18	355.22	349.42	
24	425.32	355.22	349.42	288.39	349.42	4484.12	425.32	349.42	355.22	508.18	349.42	349.42	
25	425.32	349.42	349.42	288.39	349.42	4514.82	425.32	349.42	419.45	502.23	349.42	349.42	
26	425.32	349.42	349.42	288.39	349.42	4438.11	425.32	349.42	425.32	431.21	355.22	349.42	
27	425.32	349.42	349.42	288.39	437.09	3775.63	407.71	349.42	425.32	425.32	419.45	349.42	
28	425.32	349.42	349.42	288.39	526.07	2938.48	390.16	349.42	431.21	390.16	390.16	349.42	
29	425.32	349.42	349.42	288.39	786.83	2182.62	366.84	349.42	490.34	390.16	390.16	349.42	
30	425.32	349.42	349.42	315.92	1115.79	1590.68	349.42	349.42	508.18	390.16		349.42	
31		349.42		349.42	1523.51		349.42		508.18	372.66		349.42	
Total	12759.60	13703.16	11311.40	9173.64	13381.73	128368.71	24636.21	10349.99	12358.35	14479.39	11623.72	11182.13	273328.03 Tonday
Mean	425.32	442.04	377.05	295.92	431.67	4278.96	794.72	345.00	398.66	467.08	400.82	360.71	746.80 Ton/day
Max	425.32	561.98	425.32	349.42	1523.51	6274.32	2083.49	349.42	508.18	561.98	508.18	425.32	6274.32 Ton/day
Min	425.32	349.42	349.42	288.39	320.53	1590.68	349.42	288.39	349.42	372.66	349.42	349.42	288.39 Ton/day

## WATER YEAR : 2019

## 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
Drainage Area	Flood Plain		
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	2019		
Number of observation	32		
R-Square	0.9520		
Remarks	Continued Sediment Station		

$$QS = 1.6187 QW^{1.16520}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	762.82	804.51	835.98	680.42	566.82	1225.67	1692.02	783.62	1017.37	1104.40	974.24	910.05	
2	773.21	804.51	825.47	680.42	598.10	1214.57	1326.18	857.05	985.00	1060.76	888.80	899.42	
3	814.98	910.05	762.82	670.21	649.87	1435.68	1203.49	888.80	974.24	963.50	711.16	1039.03	
4	804.51	920.71	835.98	670.21	639.73	1876.85	1115.35	814.98	985.00	931.38	783.62	1082.55	
5	857.05	899.42	835.98	814.98	649.87	2116.90	1247.91	762.82	794.06	974.24	857.05	1017.37	
6	920.71	878.20	878.20	846.50	613.83	2345.52	1515.98	783.62	670.21	1060.76	899.42	995.77	
7	952.78	867.62	804.51	773.21	566.82	2563.41	1348.66	742.09	700.89	1006.56	878.20	888.80	
8	952.78	878.20	835.98	742.09	551.27	2632.16	1060.76	639.73	1060.76	1071.65	804.51	857.05	
9	1060.76	899.42	814.98	762.82	574.62	2666.62	995.77	721.45	942.07	1104.40	857.05	899.42	
10	1115.35	857.05	742.09	721.45	629.62	2822.51	931.38	762.82	942.07	1104.40	1006.56	974.24	
11	1093.47	942.07	731.76	711.16	700.89	2857.32	952.78	711.16	952.78	1115.35	1039.03	995.77	
12	1104.40	931.38	700.89	825.47	742.09	2718.45	1028.19	773.21	963.50	1060.76	942.07	995.77	
13	1115.35	867.62	690.64	899.42	670.21	2701.16	1028.19	888.80	920.71	1006.56	920.71	1039.03	
14	1071.65	783.62	731.76	794.06	605.96	2468.78	1115.35	835.98	942.07	1093.47	857.05	995.77	
15	995.77	773.21	773.21	731.76	590.26	2437.88	1060.76	1006.56	910.05	1028.19	794.06	1060.76	
16	920.71	835.98	773.21	711.16	590.26	2453.33	1049.89	1039.03	783.62	931.38	731.76	1148.29	
17	888.80	814.98	700.89	783.62	629.62	2515.23	1071.65	899.42	660.03	742.09	742.09	1236.78	
18	942.07	825.47	649.87	649.87	639.73	2314.85	1082.55	878.20	974.24	742.09	888.80	1159.30	
19	1017.37	867.62	690.64	621.72	613.83	1847.14	1214.57	920.71	942.07	888.80	1049.89	1115.35	
20	995.77	835.98	621.72	605.96	598.10	1861.98	1337.41	985.00	857.05	942.07	910.05	1017.37	
21	1039.03	752.45	660.03	639.73	621.72	2041.45	1303.75	974.24	888.80	974.24	899.42	942.07	
22	1049.89	690.64	590.26	621.72	711.16	2238.42	1170.33	814.98	794.06	931.38	985.00	910.05	
23	1060.76	670.21	590.26	613.83	700.89	2546.27	1039.03	721.45	952.78	910.05	952.78	888.80	
24	1039.03	680.42	605.96	605.96	721.45	2666.62	888.80	773.21	1104.40	888.80	899.42	835.98	
25	1082.55	711.16	590.26	582.43	742.09	2822.51	773.21	857.05	1115.35	963.50	942.07	846.50	
26	1028.19	680.42	605.96	559.04	711.16	2822.51	804.51	920.71	1060.76	920.71	794.06	878.20	
27	1006.56	670.21	574.62	629.62	742.09	2597.75	857.05	920.71	1028.19	742.09	867.62	804.51	
28	974.24	700.89	590.26	690.64	731.76	2407.04	888.80	942.07	1148.29	773.21	1115.35	804.51	
29	878.20	752.45	742.09	690.64	711.16	2101.78	899.42	995.77	1181.37	721.45	1017.37	814.98	
30	846.50	742.09	731.76	613.83	783.62	1861.98	920.71	1039.03	1039.03	690.64		804.51	
31		752.45		590.26	1017.37		857.05		985.00	742.09		794.06	
Total	29165.26	25001.01	21518.04	21534.21	20615.97	69182.34	33781.50	25654.27	29275.82	29190.97	26009.21	29652.06	360580.66 Ton/day
Mean	972.18	806.48	717.27	694.65	665.03	2306.08	1089.73	855.14	944.38	941.64	896.87	956.52	985.19 Ton/day
Max	1115.35	942.07	878.20	899.42	1017.37	2857.32	1692.02	1039.03	1181.37	1115.35	1115.35	1236.78	2857.32 Ton/day
Min	762.82	670.21	574.62	559.04	551.27	1214.57	773.21	639.73	660.03	690.64	711.16	794.06	551.27 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Pang Makha</b>	<b>Amphoe</b>	<b>Khanu Worakabsaburi</b>	<b>Changwat</b>	<b>Kamphaeng Phet</b>
<b>Drainage Area</b>	977	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1969-Cont'd					
<b>Actual Measurement</b>	1969-Cont'd					
<b>Using Rating Curve Water Year</b>	1983-2019					
<b>Number of observation</b>	477					
<b>R-Square</b>	0.7686					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 4.1784 QW^{1.31120}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.73	3.02	478.80	12.31	7.61	40.19	29.33	31.43	12.31	6.86	4.73	3.64	
2	4.18	2.82	529.20	14.85	7.99	54.80	38.51	29.33	12.31	6.86	5.02	3.64	
3	4.18	3.64	450.14	13.31	14.33	61.24	41.88	35.20	12.31	6.50	5.02	3.91	
4	5.60	4.45	377.12	13.82	15.37	50.60	47.07	59.08	11.82	6.50	5.02	3.64	
5	6.19	5.31	33.57	18.42	14.85	45.32	41.88	164.70	11.33	6.50	4.73	3.64	
6	5.02	6.19	12.81	16.88	17.64	40.19	41.88	80.20	10.85	6.86	4.73	3.43	
7	4.45	7.99	18.42	15.37	24.22	35.20	59.08	52.69	10.85	6.86	4.45	3.43	
8	4.73	8.38	14.33	15.37	28.29	33.57	47.07	40.19	10.37	6.19	4.73	3.64	
9	3.64	7.61	12.31	14.33	29.33	30.38	50.60	32.50	10.37	5.89	4.73	3.91	
10	3.64	4.73	41.88	12.81	27.26	27.26	56.93	28.29	10.37	5.89	4.73	3.64	
11	3.64	2.23	29.33	11.82	30.38	26.24	90.97	25.22	10.37	5.60	4.45	3.64	
12	2.42	2.82	16.12	10.85	52.69	27.26	106.05	23.23	10.37	5.60	4.18	3.43	
13	2.42	2.82	11.82	10.37	48.83	27.26	88.25	21.60	9.96	5.31	3.64	3.43	
14	2.42	2.05	9.96	9.56	80.20	29.33	77.56	19.99	9.96	5.60	3.64	3.43	
15	3.02	10.85	9.16	9.16	85.55	22.41	127.04	23.23	9.56	5.31	4.18	3.43	
16	12.81	9.56	9.96	9.56	38.51	21.60	85.55	22.41	9.56	5.02	4.45	3.64	
17	10.85	13.31	9.16	9.16	27.26	19.99	96.47	19.20	9.16	5.02	4.45	3.43	
18	6.50	17.64	9.96	9.16	22.41	18.42	82.87	17.64	9.16	4.73	4.18	3.43	
19	4.73	20.79	9.56	9.16	19.99	18.42	65.63	16.12	9.16	4.45	3.91	3.43	
20	4.73	24.22	8.77	9.16	19.99	33.57	52.69	15.37	8.77	3.91	3.91	3.43	
21	5.60	25.22	10.85	8.77	28.29	47.07	43.59	14.85	8.77	3.91	4.18	3.22	
22	5.02	19.20	9.96	9.16	36.84	119.94	38.51	14.33	8.38	3.91	3.91	3.22	
23	2.82	17.64	8.38	8.38	36.84	329.08	32.50	13.82	8.38	3.91	3.64	3.02	
24	2.62	9.56	9.96	7.61	32.50	130.63	29.33	13.31	8.38	4.18	3.43	3.02	
25	4.18	5.31	56.93	7.24	30.38	88.25	27.26	12.81	8.38	4.18	3.64	3.22	
26	5.02	9.16	45.32	7.99	28.29	63.43	25.22	12.31	8.38	4.18	3.64	3.22	
27	4.73	13.82	20.79	8.38	25.22	48.83	26.24	12.31	7.99	4.45	3.64	3.43	
28	3.64	15.37	14.33	8.77	25.22	38.51	31.43	12.81	7.99	4.45	3.43	3.43	
29	1.17	14.85	11.82	8.38	24.22	32.50	33.57	12.31	7.99	4.45	3.43	3.43	
30	1.30	74.94	10.85	7.99	26.24	29.33	41.88	12.31	7.99	4.45		3.22	
31		352.91		7.24	31.43		33.57		7.99	4.45		3.22	
Total	136.00	718.41	2291.57	335.34	938.17	1590.82	1690.41	888.79	299.54	161.98	121.82	106.89	9279.74 Tonday
Mean	4.53	23.17	76.39	10.82	30.26	53.03	54.53	29.63	9.66	5.23	4.20	3.45	25.35 Ton/day
Max	12.81	352.91	529.20	18.42	85.55	329.08	127.04	164.70	12.31	6.86	5.02	3.91	529.20 Ton/day
Min	1.17	2.05	8.38	7.24	7.61	18.42	25.22	12.31	7.99	3.91	3.43	3.02	1.17 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Tharahad</b>	<b>Amphoe</b>	<b>Wang Muang</b>	<b>Changwat</b>	<b>Saraburi</b>
<b>Drainage Area</b>	580 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	2018-Cont'd				
<b>Actual Measurement</b>	2018-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	24				
<b>R-Square</b>	0.9426				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.7245 QW^{0.94530}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.22	4.29	17.47	6.49	2.30	3.05	2.80	3.79	0.81	0.81	0.77	
2	0.46	0.22	4.29	17.47	6.49	2.55	3.05	3.05	3.79	0.81	0.81	0.70	
3	0.42	0.22	4.29	17.47	5.12	2.80	2.55	3.30	3.79	0.81	0.81	0.70	
4	0.42	0.22	4.29	16.92	4.29	2.80	2.30	3.55	3.79	0.81	0.81	0.66	
5	0.34	0.22	4.29	11.22	4.04	2.80	2.01	3.79	3.79	0.81	0.81	0.66	
6	0.34	0.22	4.29	4.29	3.79	2.80	1.86	3.79	3.79	0.81	0.81	0.58	
7	0.34	0.22	4.29	4.29	3.55	2.80	1.86	3.79	4.77	0.81	0.81	0.58	
8	0.34	0.22	4.29	4.29	3.55	2.55	1.86	3.79	11.65	0.81	0.81	0.54	
9	0.34	0.22	4.29	4.29	3.79	2.55	1.86	3.79	18.02	0.81	0.81	0.54	
10	0.34	0.22	4.29	4.29	3.79	2.30	2.01	3.79	18.02	0.81	0.81	0.54	
11	0.34	0.22	4.29	4.29	3.55	2.30	2.01	3.79	18.02	0.81	0.81	0.54	
12	0.34	0.22	4.29	4.29	3.55	2.55	2.01	3.55	17.47	0.81	0.81	0.54	
13	0.34	0.22	4.29	4.29	3.55	2.55	2.01	3.55	17.47	0.81	0.81	0.54	
14	0.34	0.22	4.29	4.29	3.30	2.55	2.01	3.55	16.92	0.81	0.81	0.54	
15	0.34	0.22	4.29	4.04	2.80	2.55	2.01	3.55	16.92	0.81	0.81	0.54	
16	0.34	0.22	4.29	4.04	2.30	2.80	2.01	3.55	16.92	0.81	0.81	0.54	
17	0.34	1.57	4.29	4.04	2.15	2.80	2.01	3.55	16.38	0.81	0.81	0.54	
18	0.30	4.04	4.29	3.79	2.15	2.80	2.01	3.55	16.38	0.81	0.81	0.54	
19	0.30	4.04	4.29	3.79	2.01	3.05	2.01	3.55	9.92	0.81	0.81	0.54	
20	0.30	4.04	4.29	3.79	2.15	3.05	2.01	3.55	5.46	0.81	0.81	0.54	
21	0.30	4.04	4.29	3.30	2.15	3.05	2.01	3.55	4.04	0.81	0.81	0.54	
22	0.30	4.04	4.29	3.05	2.30	3.05	2.01	3.55	2.30	0.81	0.81	0.54	
23	0.30	4.29	9.06	2.80	2.15	3.30	2.01	3.55	1.57	0.81	0.81	0.54	
24	0.30	4.53	18.69	2.55	2.15	3.30	2.01	3.55	0.77	0.81	0.81	0.54	
25	0.30	4.29	18.02	2.55	2.15	3.30	2.01	3.55	0.77	0.81	0.81	0.54	
26	0.30	4.29	18.02	2.55	2.15	3.30	2.01	3.55	0.77	0.81	0.81	0.54	
27	0.30	4.29	18.02	2.30	2.15	3.30	2.01	3.55	0.77	0.81	0.81	0.54	
28	0.30	4.29	18.02	2.30	2.15	3.30	2.01	3.55	0.77	0.81	0.81	0.54	
29	0.22	4.29	17.47	2.30	2.15	3.30	2.15	3.79	0.77	0.81	0.81	0.54	
30	0.22	4.29	17.47	2.15	2.30	3.05	2.30	3.79	0.77	0.81		0.54	
31		4.29		4.04	2.30		2.55		0.77	0.81		0.54	
<b>Total</b>	9.92	64.14	229.15	172.54	96.51	85.50	65.59	107.16	241.13	25.11	23.49	17.61	1137.85 Tonday
<b>Mean</b>	0.33	2.07	7.64	5.57	3.11	2.85	2.12	3.57	7.78	0.81	0.81	0.57	3.11 Ton/day
<b>Max</b>	0.46	4.53	18.69	17.47	6.49	3.30	3.05	3.79	18.02	0.81	0.81	0.77	18.69 Ton/day
<b>Min</b>	0.22	0.22	4.29	2.15	2.01	2.30	1.86	2.80	0.77	0.81	0.81	0.54	0.22 Ton/day

**WATER YEAR : 2019****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.**

	<b>Ban Pa</b>	<b>Amphoe Kaeng Khoi</b>	<b>Changwat Saraburi</b>
<b>Drainage Area</b>	14,233 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1978-Cont'd		
<b>Actual Measurement</b>	1978-Cont'd		
<b>Using Rating Curve Water Year</b>	1978-2019		
<b>Number of observation</b>	593		
<b>R-Square</b>	0.8035		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.2222 QW^{1.29310}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	157.64	163.71	97.02	99.40	55.84	3.59	7.27	59.44	28.79	47.06	9.60	23.76	
2	169.83	163.71	97.02	106.60	59.44	5.62	10.20	63.10	5.62	34.03	7.84	23.76	
3	172.91	160.67	101.78	142.71	57.64	40.28	72.45	74.36	5.62	20.62	7.84	22.54	
4	176.38	160.67	97.02	125.25	41.95	70.56	1052.24	74.36	8.41	21.58	7.27	22.54	
5	169.83	163.71	99.40	111.46	34.03	68.68	2897.17	72.45	87.99	20.62	7.84	21.58	
6	169.83	166.76	106.60	92.32	27.52	66.81	2622.73	64.95	92.32	18.73	7.84	22.54	
7	157.64	169.83	109.02	84.04	30.08	66.81	591.80	57.64	89.98	12.70	8.41	22.54	
8	148.64	179.88	89.98	87.99	32.70	64.95	68.68	64.95	119.55	12.70	7.84	22.54	
9	151.63	163.71	80.14	87.99	41.95	63.10	36.99	78.20	148.64	12.70	7.27	22.54	
10	151.63	169.83	80.14	89.98	63.10	25.00	35.37	72.45	139.77	12.70	10.82	22.54	
11	148.64	176.38	82.08	87.99	43.64	12.06	25.00	84.04	145.67	17.81	19.67	23.76	
12	160.67	179.88	82.08	89.98	41.95	12.06	20.62	68.68	145.67	22.54	20.62	22.54	
13	169.83	179.88	78.20	89.98	59.44	54.05	20.62	41.95	111.46	23.76	20.62	22.54	
14	172.91	176.38	74.36	87.99	59.44	55.84	43.64	32.70	61.27	23.76	14.21	17.81	
15	172.91	179.88	80.14	86.01	55.84	43.64	22.54	38.63	89.98	22.54	8.41	13.34	
16	176.38	154.63	78.20	84.04	48.78	57.64	9.00	43.64	136.83	21.58	8.41	19.67	
17	176.38	136.83	78.20	84.04	45.34	43.64	6.16	43.64	241.08	32.70	8.41	13.34	
18	163.71	133.92	78.20	84.04	40.28	32.70	7.84	47.06	610.20	50.53	8.41	10.20	
19	157.64	136.83	78.20	84.04	38.63	35.37	32.70	43.64	513.56	48.78	8.41	7.84	
20	160.67	136.83	76.27	84.04	50.53	35.37	26.25	41.95	186.91	27.52	13.34	8.41	
21	157.64	136.83	76.27	82.08	78.20	34.03	3.59	41.95	50.53	26.25	22.54	9.00	
22	160.67	136.83	76.27	82.08	84.04	38.63	6.71	41.95	50.53	41.95	22.54	8.41	
23	160.67	142.71	74.36	80.14	50.53	57.64	23.76	22.54	50.53	30.08	22.54	7.84	
24	163.71	139.77	89.98	80.14	32.70	35.37	31.39	9.60	50.53	25.00	22.54	7.27	
25	163.71	106.60	99.40	82.08	21.58	20.62	25.00	12.70	106.60	27.52	23.76	6.71	
26	163.71	94.66	104.18	80.14	18.73	15.99	28.79	15.09	113.91	27.52	23.76	4.58	
27	169.83	94.66	106.60	59.44	16.89	23.76	40.28	12.70	111.46	26.25	23.76	3.12	
28	154.63	92.32	101.78	50.53	15.99	45.34	41.95	15.99	111.46	26.25	23.76	2.66	
29	166.76	84.04	101.78	50.53	10.20	43.64	48.78	32.70	111.46	21.58	23.76	4.08	
30	166.76	97.02	101.78	50.53	4.08	18.73	68.68	74.36	111.46	14.21		5.10	
31		97.02		48.78	4.08		68.68		74.36	12.70		5.10	
Total	4913.79	4476.38	2676.45	2636.36	1265.14	1191.52	7996.88	1447.41	3912.15	784.27	422.04	450.20	32172.59 Tonday
Mean	163.79	144.40	89.22	85.04	40.81	39.72	257.96	48.25	126.20	25.30	14.55	14.52	87.90 Ton/day
Max	176.38	179.88	109.02	142.71	84.04	70.56	2897.17	84.04	610.20	50.53	23.76	23.76	2897.17 Ton/day
Min	148.64	84.04	74.36	48.78	4.08	3.59	3.59	9.60	5.62	12.70	7.27	2.66	2.66 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	Nong Bua	<b>Amphoe</b>	Phatthana Nikhon Changwat	Lop Buri
<b>Drainage Area</b>	8,778	sq.km.			
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1998-Cont'd				
<b>Actual Measurement</b>	1998-Cont'd				
<b>Using Rating Curve Water Year</b>	2003-2019				
<b>Number of observation</b>	262				
<b>R-Square</b>	0.7813				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 1.4253 QW^{1.14600}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	69.18	63.59	31.75	24.11	15.45	1.10	1.43	27.54	12.39	17.68	1.43	6.98	
2	74.03	62.00	32.35	24.11	15.01	10.26	20.87	28.73	2.27	14.13	1.43	6.98	
3	71.60	62.00	32.35	25.17	11.96	26.95	138.09	28.73	2.27	9.43	1.43	6.58	
4	74.03	62.00	31.75	25.76	8.19	28.14	674.82	28.14	3.15	9.85	1.43	6.58	
5	74.03	62.00	32.96	24.11	8.19	28.14	935.37	28.73	28.73	9.43	1.43	6.19	
6	70.79	62.79	31.75	24.11	8.19	28.73	487.36	28.73	29.93	8.60	1.43	6.58	
7	60.42	63.59	29.33	25.17	8.60	29.33	38.13	28.73	29.33	5.79	1.59	6.58	
8	62.79	61.21	22.71	25.17	8.60	29.33	0.79	28.14	36.64	5.79	1.43	6.58	
9	62.79	61.21	23.18	28.14	8.60	18.58	0.95	28.14	44.15	5.79	1.26	6.58	
10	62.79	62.00	23.18	28.14	8.60	5.41	0.79	28.14	41.88	5.79	2.27	6.58	
11	62.79	64.38	23.18	28.14	8.60	5.02	0.64	22.71	43.39	5.79	5.41	6.19	
12	63.59	64.38	22.71	28.14	9.01	20.41	0.64	11.53	43.39	5.79	5.79	6.19	
13	63.59	63.59	21.33	27.54	8.60	31.75	0.64	6.19	34.80	5.79	5.79	4.26	
14	64.38	64.38	24.11	27.54	9.85	21.33	0.64	9.01	21.33	5.79	3.15	1.59	
15	64.38	62.00	23.18	27.54	9.85	19.95	0.50	19.04	29.33	5.79	1.59	1.76	
16	64.38	47.96	23.18	27.54	9.01	12.82	0.50	19.49	41.12	9.01	1.59	1.76	
17	63.59	47.96	23.18	27.54	8.60	3.15	0.50	19.49	64.38	16.34	1.59	1.43	
18	60.42	47.96	23.65	26.95	8.19	2.44	5.79	19.49	128.91	16.34	1.59	0.95	
19	60.42	47.96	23.18	26.95	8.19	2.62	11.11	19.04	112.81	7.38	1.59	0.95	
20	60.42	48.73	23.18	26.95	8.60	1.10	1.43	19.04	53.37	4.64	2.97	0.95	
21	60.42	48.73	23.18	26.95	6.19	1.43	3.89	19.04	18.58	17.68	6.58	0.79	
22	59.63	50.27	22.71	26.95	3.15	1.26	10.26	13.26	18.58	11.96	6.58	0.79	
23	61.21	49.50	22.71	26.95	2.10	1.43	26.35	2.80	18.58	7.79	6.58	0.95	
24	61.21	42.63	24.11	26.95	0.95	1.26	24.11	2.62	18.58	7.79	6.58	0.23	
25	62.00	31.14	24.11	26.95	0.95	1.26	24.11	2.62	33.57	7.79	6.98	0.00	
26	62.79	31.14	23.65	21.33	0.95	5.02	23.65	2.62	35.41	7.38	6.98	0.00	
27	55.70	31.14	24.11	15.01	0.95	17.68	24.11	2.62	34.80	7.38	6.98	0.00	
28	62.79	31.14	24.11	15.45	0.95	17.23	24.11	2.44	34.80	5.79	6.98	0.36	
29	63.59	31.75	24.11	15.01	1.10	7.79	24.11	11.53	34.80	2.80	6.98	0.36	
30	62.00	31.75	24.11	15.01	1.10	1.26	24.11	24.58	34.80	2.62		0.36	
31		31.75		15.01	1.10		24.11		24.58	1.43		0.36	
Total	1921.75	1592.63	759.10	760.39	209.38	382.18	2553.91	532.91	1110.65	255.35	107.41	96.44	10282.10 Tonday
Mean	64.06	51.38	25.30	24.53	6.75	12.74	82.38	17.76	35.83	8.24	3.70	3.11	28.09 Ton/day
Max	74.03	64.38	32.96	28.14	15.45	31.75	935.37	28.73	128.91	17.68	6.98	6.98	935.37 Ton/day
Min	55.70	31.14	21.33	15.01	0.95	1.10	0.50	2.44	2.27	1.43	1.26	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	521 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2001-Cont'd		
<b>Actual Measurement</b>	2001-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.9368		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 21.3736 QW^{1.78300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.43	5.77	22.92	1963.66	22.92	13760.80	144.43	90.74	70.95	63.39	51.64	43.00	
2	17.02	5.15	14.36	51.64	17.02	34855.37	140.05	90.74	68.39	63.39	51.64	40.95	
3	10.75	5.15	29.58	144.43	11.90	42681.04	164.40	90.74	68.39	63.39	51.64	40.95	
4	9.64	5.15	17.02	144.43	9.64	7430.60	140.05	90.74	68.39	60.96	51.64	40.95	
5	7.85	5.77	13.10	49.41	8.60	2806.93	144.43	90.74	68.39	60.96	51.64	164.40	
6	7.85	7.12	33.19	29.58	26.16	6177.24	164.40	90.74	68.39	60.96	49.41	98.06	
7	7.12	5.77	63.39	24.52	18.42	1924.99	149.76	90.74	70.95	60.96	49.41	58.56	
8	7.12	5.77	38.94	19.87	13.10	1343.42	130.62	87.18	70.95	60.96	49.41	60.96	
9	6.43	5.15	21.37	140.05	9.64	914.31	130.62	87.18	70.95	58.56	49.41	56.21	
10	5.77	19.87	11.90	27.85	1811.01	936.24	140.05	87.18	68.39	58.56	49.41	51.64	
11	5.15	8.60	10.75	18.42	185.50	1343.42	4993.20	84.37	68.39	58.56	49.41	49.41	
12	4.55	6.43	7.85	11.90	144.43	1436.37	304.90	84.37	68.39	58.56	49.41	47.23	
13	4.55	7.85	6.43	10.75	109.50	2002.67	515.40	84.37	68.39	58.56	49.41	47.23	
14	4.55	9.64	5.15	9.64	117.43	2672.07	213.95	84.37	68.39	56.21	47.23	47.23	
15	4.55	1630.42	6.43	7.85	58.56	2716.70	154.27	81.61	68.39	56.21	47.23	45.09	
16	180.61	35.06	5.15	7.85	35.06	540.33	140.05	81.61	68.39	56.21	47.23	45.09	
17	19.87	17.02	1343.42	7.85	1049.30	334.91	144.43	81.61	68.39	56.21	47.23	43.00	
18	9.64	19.87	53.90	6.43	2583.79	266.83	130.62	81.61	68.39	53.90	45.09	43.00	
19	8.60	7.85	33.19	6.43	248.64	266.83	125.60	78.88	68.39	53.90	45.09	43.00	
20	8.60	6.43	24.52	5.15	164.40	324.77	121.49	78.88	68.39	53.90	45.09	40.95	
21	7.85	314.77	17.02	5.15	18708.09	398.60	113.43	78.88	65.87	53.90	45.09	40.95	
22	6.43	68.39	11.90	7.85	892.61	276.14	113.43	76.20	65.87	53.90	45.09	47.23	
23	13.10	10.75	7.85	8.60	26122.40	213.95	109.50	76.20	65.87	53.90	45.09	47.23	
24	10.75	6.43	7.85	7.85	79385.25	191.45	105.62	76.20	65.87	53.90	45.09	45.09	
25	7.12	33.19	7.12	13.10	27028.21	180.61	101.81	76.20	65.87	53.90	43.00	43.00	
26	18.42	49.41	8.60	98.06	12470.83	164.40	101.81	76.20	65.87	53.90	43.00	40.95	
27	9.64	13.10	657.13	17.02	7027.42	154.27	101.81	73.56	65.87	51.64	43.00	38.94	
28	7.12	7.85	35.06	11.90	2326.80	154.27	98.06	73.56	65.87	51.64	43.00	38.94	
29	7.12	38.94	33.19	7.85	1811.01	154.27	98.06	73.56	65.87	51.64	43.00	38.94	
30	6.43	10.75	121.49	8.60	19067.95	149.76	94.37	73.56	65.87	51.64		36.98	
31		51.64		7.12	39444.59		94.37		65.87	51.64		36.98	
Total	430.63	2425.06	2669.77	2880.81	240930.18	126773.56	9424.99	2472.52	2102.61	1755.91	1373.03	1562.14	394801.21 Tonday
Mean	14.35	78.23	88.99	92.93	7771.94	4225.79	304.03	82.42	67.83	56.64	47.35	50.39	1078.69 Ton/day
Max	180.61	1630.42	1343.42	1963.66	79385.25	42681.04	4993.20	90.74	70.95	63.39	51.64	164.40	79385.25 Ton/day
Min	4.55	5.15	5.15	5.15	8.60	149.76	94.37	73.56	65.87	51.64	43.00	36.98	4.55 Ton/day





## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	686 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2003-Cont'd		
<b>Actual Measurement</b>	2003-Cont'd		
<b>Using Rating Curve Water Year</b>	2003-2019		
<b>Number of observation</b>	160		
<b>R-Square</b>	0.7977		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 7.2616 QW^{1.38830}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.49	1.49	38.90	7.57	3.17	3.66	27.07	10.90	6.96	4.69	1.24	0.00	
2	1.24	1.49	21.42	7.26	2.70	3.91	27.07	11.36	6.96	4.69	1.24	0.00	
3	1.49	1.49	124.41	7.26	2.70	3.66	22.25	20.61	6.08	4.16	1.00	0.00	
4	1.24	1.24	46.17	7.57	2.47	3.91	27.07	27.07	6.66	3.41	1.24	0.00	
5	1.24	1.49	42.33	7.57	2.47	3.66	28.09	20.61	5.51	3.17	1.24	0.00	
6	1.24	1.24	319.56	7.26	2.47	3.17	38.90	15.17	5.23	3.66	1.00	0.00	
7	1.24	1.24	57.16	6.96	2.47	2.93	57.16	13.70	5.23	2.47	1.00	0.00	
8	1.49	1.49	47.70	6.66	2.47	2.93	35.56	12.75	5.23	1.76	1.24	0.00	
9	1.24	2.04	43.49	6.37	2.25	2.93	35.56	10.12	4.96	1.76	1.00	0.00	
10	1.00	2.25	33.37	6.08	2.47	3.17	26.06	10.12	4.96	1.76	1.00	0.00	
11	1.00	10.90	21.42	5.79	2.25	3.17	85.95	9.46	4.96	1.76	1.00	0.00	
12	1.00	5.51	16.68	5.23	2.70	2.70	107.36	9.46	4.96	1.76	1.24	0.00	
13	0.78	4.16	14.19	4.96	3.17	2.47	410.24	10.12	4.69	1.76	1.00	0.00	
14	1.00	3.91	13.22	4.69	2.93	2.25	723.20	10.90	4.69	2.04	1.00	0.00	
15	0.78	4.96	11.82	4.43	2.70	2.93	477.09	10.90	4.69	1.76	0.78	0.00	
16	1.00	30.18	10.90	3.91	2.25	2.93	161.74	10.45	4.69	1.49	0.78	0.00	
17	0.78	31.23	10.45	3.66	2.47	2.47	92.67	9.79	4.69	1.76	0.78	0.00	
18	0.57	13.22	9.79	3.41	2.70	3.66	62.25	9.14	4.69	1.76	1.00	0.00	
19	1.00	9.79	9.46	3.17	2.47	22.25	44.65	9.14	4.43	1.49	1.00	0.00	
20	1.00	8.18	9.14	3.41	2.47	43.49	36.66	8.82	4.16	1.76	0.78	0.00	
21	1.00	6.96	8.50	8.82	2.25	282.71	30.18	8.82	3.91	1.49	0.78	0.00	
22	1.00	7.87	7.87	5.23	2.04	1327.83	24.06	8.50	3.17	1.49	0.57	0.00	
23	2.93	46.17	7.57	4.16	2.04	689.83	21.42	8.50	3.41	1.49	0.38	0.00	
24	3.41	12.28	8.18	3.91	1.76	865.56	19.01	8.82	3.66	1.76	0.00	0.00	
25	2.70	9.14	42.33	3.66	2.25	512.55	16.68	8.50	2.93	1.49	0.00	0.00	
26	2.47	9.14	13.22	3.66	2.25	161.74	15.17	8.50	2.47	1.24	0.00	0.00	
27	2.25	9.14	10.45	3.66	2.04	92.67	14.68	7.87	2.25	1.76	0.00	0.00	
28	1.76	8.50	9.14	3.41	2.70	55.55	14.19	7.57	3.41	1.76	0.00	0.00	
29	1.76	21.42	8.18	3.41	4.69	38.90	13.22	7.26	5.51	1.76	0.00	0.00	
30	1.49	12.28	7.57	3.17	3.41	33.37	13.22	7.26	4.96	1.76		0.00	
31		22.25		3.17	2.93		12.28		4.69	1.49		0.00	
Total	42.59	302.65	1024.59	159.48	80.11	4182.96	2720.71	332.19	144.80	66.36	22.29	0.00	9078.73 Tonday
Mean	1.42	9.76	34.15	5.14	2.58	139.43	87.76	11.07	4.67	2.14	0.77	0.00	24.81 Ton/day
Max	3.41	46.17	319.56	8.82	4.69	1327.83	723.20	27.07	6.96	4.69	1.24	0.00	1327.83 Ton/day
Min	0.57	1.24	7.57	3.17	1.76	2.25	12.28	7.26	2.25	1.24	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Thung Na Nang Rok</b>	<b>Amphoe Mueang</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	2,375 sq.km.			
<b>Method of sampling</b>	Depth Integrating			
<b>Instrument Used</b>	US.D-49			
<b>Period of Available Records</b>	1997-Cont'd			
<b>Actual Measurement</b>	1997-Cont'd			
<b>Using Rating Curve Water Year</b>	1997-2019			
<b>Number of observation</b>	600			
<b>R-Square</b>	0.8770			
<b>Remarks</b>	Continued Sediment Station			

$$QS = 4.3075 QW^{1.32980}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.38	18.57	17.75	44.00	0.15	1.27	16.14	9.41	1.27	0.65	0.00	0.00	
2	0.38	13.80	23.66	41.57	0.15	0.65	3.69	8.72	1.27	0.65	0.00	0.00	
3	0.38	8.72	21.07	41.57	0.15	0.65	6.93	8.11	0.95	0.65	0.00	0.00	
4	0.38	8.72	16.14	42.78	0.38	0.95	23.66	7.52	0.95	0.65	0.00	0.00	
5	0.38	7.52	16.14	41.57	4.19	0.95	31.08	9.41	0.95	0.65	0.00	0.00	
6	1.99	6.36	16.14	39.17	4.19	0.95	29.96	19.39	0.95	0.65	0.00	0.00	
7	6.36	3.69	25.60	39.17	7.52	1.99	31.08	16.94	0.95	0.65	0.00	0.00	
8	1.27	3.20	55.33	39.17	8.11	1.99	36.81	16.14	0.95	0.65	0.00	0.00	
9	10.11	2.38	127.69	35.65	7.52	1.62	61.90	13.80	0.95	0.65	0.00	0.00	
10	10.11	1.99	144.41	27.76	6.93	1.62	74.16	13.04	0.95	0.65	0.00	0.00	
11	8.11	3.20	123.98	23.66	6.93	1.62	96.73	13.04	0.95	0.65	0.00	0.00	
12	16.94	6.93	95.12	18.57	6.93	1.62	106.26	12.29	0.65	0.65	0.00	0.00	
13	10.11	40.37	67.28	16.14	7.52	1.27	93.65	7.52	0.65	0.65	0.00	0.00	
14	4.19	39.17	50.22	13.80	7.52	0.95	169.26	6.93	0.65	0.65	0.00	0.00	
15	4.71	34.49	42.78	12.29	6.93	0.95	306.36	6.93	0.65	0.65	0.00	0.00	
16	8.11	46.46	42.78	12.29	3.69	0.65	50.22	6.93	0.65	0.65	0.00	0.00	
17	7.52	82.99	41.57	11.55	1.27	1.27	169.26	6.36	0.65	0.00	0.00	0.00	
18	7.52	18.57	40.37	10.83	1.99	1.27	150.04	5.80	0.65	0.00	0.00	0.00	
19	6.36	8.72	42.78	6.93	2.78	1.27	102.98	5.80	0.65	0.00	0.00	0.00	
20	3.20	8.72	40.37	5.80	2.78	0.95	80.02	7.52	0.65	0.00	0.00	0.00	
21	1.62	8.72	41.57	5.80	2.78	1.99	57.94	5.25	0.65	0.00	0.00	0.00	
22	1.62	7.52	41.57	5.80	2.38	18.57	54.04	5.25	0.65	0.00	0.00	0.00	
23	1.62	7.52	36.81	5.25	2.38	133.16	34.49	4.71	0.65	0.00	0.00	0.00	
24	0.38	31.08	34.49	2.78	2.38	236.63	23.66	4.71	0.65	0.00	0.00	0.00	
25	0.38	104.49	44.00	1.99	2.78	236.63	20.23	4.19	0.65	0.00	0.00	0.00	
26	0.65	95.12	63.23	1.27	2.78	246.58	20.23	4.19	0.65	0.00	0.00	0.00	
27	8.11	70.01	87.55	1.27	2.38	113.29	19.39	3.20	0.65	0.00	0.00	0.00	
28	52.76	46.46	80.02	0.95	1.99	80.02	16.14	2.78	0.65	0.00	0.00	0.00	
29	95.12	34.49	64.58	0.38	1.99	61.90	17.75	2.78	0.65	0.00	0.00	0.00	
30	50.22	17.75	47.70	0.38	1.99	27.76	13.04	1.62	0.65	0.00		0.00	
31		15.35		0.38	1.27		9.41		0.65	0.00		0.00	
Total	320.99	803.08	1592.70	550.52	112.73	1180.99	1926.51	240.28	24.09	10.40	0.00	0.00	6762.29 Tonday
Mean	10.70	25.91	53.09	17.76	3.64	39.37	62.15	8.01	0.78	0.34	0.00	0.00	18.48 Ton/day
Max	95.12	104.49	144.41	44.00	8.11	246.58	306.36	19.39	1.27	0.65	0.00	0.00	306.36 Ton/day
Min	0.38	1.99	16.14	0.38	0.15	0.65	3.69	1.62	0.65	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Bo</b>	<b>Amphoe Suan Phung</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	1,344 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	1999-2019		
<b>Number of observation</b>	448		
<b>R-Square</b>	0.8665		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.2379 QW^{1.61790}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.28	0.86	95.57	0.03	19.64	198.73	41.91	8.63	1.04	0.40	0.13	
2	0.01	0.47	0.95	48.89	0.03	32.24	182.28	29.24	6.03	1.04	0.40	0.09	
3	0.03	0.23	1.24	27.78	0.18	36.96	166.39	27.78	5.24	1.04	0.54	0.09	
4	0.09	0.18	1.66	43.62	0.54	50.69	257.68	23.57	5.24	0.95	0.47	0.06	
5	0.62	0.23	1.44	35.36	5.24	142.12	219.17	23.57	5.24	0.95	0.40	0.13	
6	1.04	0.78	20.92	60.09	40.24	116.60	262.31	22.23	4.50	0.86	0.34	0.13	
7	0.86	0.28	13.71	50.69	29.24	85.67	212.28	22.23	3.80	0.86	0.34	0.09	
8	0.47	0.13	17.17	33.79	18.39	68.05	179.06	22.23	3.50	0.78	0.34	0.09	
9	0.34	0.09	20.92	19.64	17.17	56.26	226.16	22.23	3.50	0.78	0.34	0.09	
10	0.34	0.06	29.24	11.57	15.98	45.35	175.86	20.92	3.50	0.78	0.34	0.03	
11	0.70	0.06	12.62	6.85	30.73	40.24	157.11	18.39	3.20	0.78	0.28	0.01	
12	0.62	0.06	13.71	4.50	41.91	33.79	145.07	17.17	3.20	0.78	0.28	0.00	
13	0.47	0.47	10.55	3.20	29.24	27.78	136.28	17.17	2.92	0.78	0.34	0.00	
14	0.54	1.14	7.72	1.89	19.64	26.35	179.06	17.17	2.92	0.78	0.28	0.00	
15	0.54	1.14	5.24	1.24	12.62	27.78	182.28	17.17	2.92	0.78	0.28	0.06	
16	0.54	0.78	4.50	1.14	8.63	29.24	253.08	15.98	2.92	0.70	0.28	0.78	
17	0.54	1.44	3.80	1.14	6.85	33.79	219.17	15.98	2.92	0.62	0.23	0.34	
18	0.47	0.86	5.24	1.14	6.85	52.52	182.28	13.71	2.92	0.54	0.23	0.18	
19	0.54	0.54	6.03	1.14	6.03	116.60	154.07	13.71	2.65	0.62	0.28	0.34	
20	0.40	0.40	3.80	1.44	4.50	198.73	133.40	12.62	1.66	0.62	0.28	0.54	
21	0.28	1.66	3.20	1.44	4.50	215.71	116.60	11.57	1.44	0.54	0.28	0.34	
22	0.28	14.83	2.39	1.24	5.24	556.17	105.89	11.57	1.44	0.47	0.28	0.34	
23	0.23	12.62	1.89	1.14	5.24	1934.21	98.11	10.55	1.24	0.47	0.23	0.28	
24	0.23	19.64	1.89	1.04	5.24	14158.52	88.10	9.57	1.14	0.62	0.23	0.34	
25	0.18	2.92	2.92	0.95	7.72	2254.22	78.51	9.57	1.14	0.62	0.09	0.28	
26	0.34	1.66	2.92	0.54	20.92	916.02	74.26	9.57	1.04	0.62	0.09	0.28	
27	0.23	1.14	2.39	0.09	66.02	501.53	70.09	9.57	1.04	0.47	0.06	0.18	
28	0.34	0.95	2.65	0.06	72.16	387.99	74.26	9.57	1.14	0.47	0.06	0.09	
29	0.28	0.95	23.57	0.03	47.10	290.76	78.51	9.57	1.24	0.40	0.03	0.06	
30	0.23	0.78	103.27	0.03	27.78	235.00	72.16	9.57	1.14	0.34		0.01	
31		0.70		0.03	13.71		68.05		0.95	0.34		0.01	
Total	11.78	67.47	328.41	457.27	569.67	22690.53	4746.26	515.66	90.36	21.44	8.02	5.39	29512.26 Ton/day
Mean	0.39	2.18	10.95	14.75	18.38	756.35	153.11	17.19	2.91	0.69	0.28	0.17	80.63 Ton/day
Max	1.04	19.64	103.27	95.57	72.16	14158.52	262.31	41.91	8.63	1.04	0.54	0.78	14158.52 Ton/day
Min	0.00	0.06	0.86	0.03	0.03	19.64	68.05	9.57	0.95	0.34	0.03	0.00	0.00 Ton/day

**WATER YEAR : 2019****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

	<b>Ban Kha</b>	<b>Amphoe Ban Kha</b>	<b>Changwat Ratchaburi</b>
<b>Drainage Area</b>	367 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1994-Cont'd		
<b>Actual Measurement</b>	1994-Cont'd		
<b>Using Rating Curve Water Year</b>	2018-2019		
<b>Number of observation</b>	32		
<b>R-Square</b>	0.8352		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5568 QW^{1.32370}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.53	0.59	3.14	3.00	1.64	2.03	8.80	3.29	0.66	0.79	0.29	0.66	
2	0.53	0.53	3.74	2.85	1.89	2.03	10.14	3.29	0.66	0.59	0.29	0.59	
3	0.66	0.53	3.59	2.57	2.16	2.03	7.87	2.29	0.59	0.59	0.29	0.59	
4	0.66	0.72	4.69	2.71	2.16	2.03	20.69	1.89	0.59	0.53	0.29	0.59	
5	0.53	3.00	3.44	3.44	2.57	2.03	17.76	1.52	0.59	0.46	0.29	0.53	
6	0.53	2.85	9.75	3.29	3.29	1.89	19.50	1.52	0.59	0.40	0.29	0.59	
7	0.66	2.71	9.11	3.00	2.85	1.77	12.14	1.52	0.59	0.40	0.29	0.66	
8	0.59	2.71	6.37	2.71	2.57	1.64	10.14	1.52	0.59	0.40	0.29	0.66	
9	0.46	2.85	7.56	2.43	2.57	1.52	10.93	1.16	0.59	0.40	0.29	0.59	
10	0.46	2.85	5.51	2.29	2.43	1.39	9.75	1.16	0.59	0.40	0.29	0.59	
11	0.46	2.71	6.08	2.16	2.57	1.28	8.80	1.16	0.59	0.40	0.29	0.66	
12	0.46	2.71	4.96	2.16	2.57	1.08	7.87	1.08	0.59	0.40	0.34	0.59	
13	0.53	5.51	4.42	2.16	2.43	0.93	7.26	1.08	0.59	0.40	0.34	0.66	
14	0.72	4.16	3.74	2.03	2.29	1.01	9.11	1.08	0.53	0.46	0.34	0.59	
15	0.66	2.85	3.59	1.77	2.16	1.39	9.43	1.16	0.53	0.46	0.29	0.79	
16	0.66	2.57	3.29	1.64	1.89	1.28	8.80	1.01	0.53	0.46	0.46	0.86	
17	0.66	3.90	3.29	1.52	2.03	1.16	8.17	1.01	0.53	0.46	0.46	0.72	
18	0.59	3.14	3.00	1.39	2.03	1.52	7.56	1.01	0.53	0.46	0.46	1.16	
19	0.53	2.85	2.85	1.77	1.89	1.52	6.66	1.01	0.46	0.46	0.53	1.28	
20	0.46	2.57	2.71	2.16	1.77	2.85	5.80	0.93	0.46	0.46	0.53	0.72	
21	0.34	6.08	2.57	2.03	1.77	3.59	5.51	0.93	0.46	0.46	0.53	0.86	
22	0.34	6.37	2.43	1.89	1.77	7.87	5.24	0.93	0.46	0.46	0.53	0.66	
23	0.34	8.17	2.16	1.64	1.77	41.30	4.69	0.86	0.46	0.46	0.53	0.66	
24	0.29	5.80	2.57	1.64	1.64	197.21	4.42	0.86	0.46	0.34	0.53	0.59	
25	0.40	4.16	2.85	1.64	1.52	47.75	4.16	0.79	0.46	0.29	0.53	0.59	
26	0.79	3.74	2.57	1.64	2.03	34.11	3.90	0.79	0.46	0.29	0.59	0.59	
27	0.66	3.29	2.57	1.52	2.29	23.77	3.90	0.79	0.46	0.29	0.53	0.59	
28	0.79	3.14	2.57	1.52	1.89	21.31	3.74	0.79	0.46	0.24	0.59	0.66	
29	0.59	3.44	2.85	1.52	1.89	17.16	4.16	0.79	0.46	0.29	0.59	0.59	
30	0.53	3.14	3.29	1.39	1.89	11.33	3.90	0.79	0.40	0.29		0.59	
31		3.14		1.39	1.89		3.74		0.40	0.29		0.59	
<b>Total</b>	16.41	102.78	121.26	64.87	66.11	437.78	254.54	38.01	16.32	13.08	11.89	21.05	1164.10 Tonday
<b>Mean</b>	0.55	3.32	4.04	2.09	2.13	14.59	8.21	1.27	0.53	0.42	0.41	0.68	3.18 Ton/day
<b>Max</b>	0.79	8.17	9.75	3.44	3.29	197.21	20.69	3.29	0.66	0.79	0.59	1.28	197.21 Ton/day
<b>Min</b>	0.29	0.53	2.16	1.39	1.52	0.93	3.74	0.79	0.40	0.24	0.29	0.53	0.24 Ton/day

**WATER YEAR : 2019****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**

	<b>Ban</b> Nam Chon	<b>Amphoe</b> Sai Yok	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	799 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1997-Cont'd		
<b>Actual Measurement</b>	1997-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	35		
<b>R-Square</b>	0.9319		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3496 QW^{1.62760}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	1.77	3.87	295.07	20.23	772.08	98.48	25.35	12.79	7.37	5.70	3.53	
2	2.60	2.31	3.53	113.95	130.26	1364.46	91.08	25.35	12.79	7.37	5.70	3.20	
3	2.60	2.03	2.89	93.52	101.00	1661.53	81.56	25.35	12.79	7.82	5.33	3.20	
4	2.31	1.77	3.20	130.26	246.29	1105.71	79.24	26.24	12.79	7.37	4.94	3.20	
5	2.89	1.77	2.89	108.69	366.94	947.48	86.27	25.35	12.25	6.96	4.94	2.31	
6	4.21	1.77	3.20	83.90	1803.77	1439.78	86.27	24.46	11.71	6.96	4.94	1.53	
7	4.57	1.77	2.89	57.53	825.97	1146.73	68.05	23.59	11.71	6.96	4.94	1.30	
8	3.87	1.77	6.11	44.35	772.08	1095.55	76.95	29.32	11.19	6.96	4.57	1.30	
9	2.89	1.77	6.96	41.44	605.79	1095.55	108.69	22.73	11.19	6.53	4.57	1.08	
10	2.60	1.53	5.70	45.83	371.95	656.02	83.90	21.05	11.19	6.53	4.57	1.08	
11	2.31	1.53	7.37	31.55	976.43	516.67	127.49	20.23	11.19	6.53	4.57	1.08	
12	2.03	1.53	12.79	28.23	1015.55	392.22	86.27	19.42	10.69	6.11	4.57	1.08	
13	1.77	1.53	13.88	24.46	648.75	323.10	74.69	19.42	10.69	6.11	4.57	0.99	
14	1.77	2.31	17.99	21.05	496.89	290.50	103.54	19.42	10.69	6.11	4.21	0.99	
15	1.77	2.89	13.88	20.23	313.65	285.95	83.90	18.62	10.19	6.11	4.21	1.08	
16	1.77	2.31	11.71	18.62	225.25	250.58	63.76	18.62	10.19	6.96	4.21	0.99	
17	1.53	2.03	21.88	17.40	206.94	210.29	53.52	17.99	9.69	7.37	4.21	1.08	
18	1.53	2.31	59.58	16.18	229.40	193.77	50.39	17.40	9.69	7.37	4.21	0.99	
19	1.30	1.77	40.01	16.18	184.11	190.53	45.83	17.40	9.21	6.96	3.87	1.08	
20	1.30	1.77	30.43	15.02	174.64	184.11	42.88	16.78	9.21	6.96	3.87	0.99	
21	1.30	1.77	17.99	14.45	250.58	357.01	40.01	16.18	9.21	6.96	3.87	0.99	
22	1.30	1.53	12.25	13.32	225.25	663.32	37.39	15.59	9.21	6.53	3.53	0.99	
23	4.21	1.53	9.21	12.79	318.36	392.22	36.19	15.02	9.21	6.53	3.53	0.99	
24	2.60	3.20	7.82	12.25	352.09	276.94	33.84	15.02	8.75	6.53	3.53	0.99	
25	2.03	3.53	10.69	15.59	496.89	217.04	32.69	15.02	8.75	6.11	3.53	0.91	
26	1.53	2.31	9.21	15.02	715.29	177.78	37.39	13.88	8.28	6.11	3.53	0.91	
27	1.77	2.31	9.21	16.78	1198.81	153.31	32.69	12.79	8.28	5.70	3.53	0.91	
28	1.77	2.03	17.99	16.78	745.66	133.07	30.43	12.79	8.28	5.33	3.53	0.91	
29	1.77	6.96	98.48	14.45	496.89	116.61	28.23	13.32	7.82	5.70	3.53	0.83	
30	1.53	7.37	217.04	14.45	366.94	106.10	28.23	13.32	7.82	5.70		0.83	
31		6.11		13.88	707.77		27.15		7.82	5.70		0.83	
<b>Total</b>	68.03	76.89	680.65	1383.22	15590.42	16716.01	1957.00	577.02	315.27	204.32	124.81	42.17	37735.81 Tonday
<b>Mean</b>	2.27	2.48	22.69	44.62	502.92	557.20	63.13	19.23	10.17	6.59	4.30	1.36	103.10 Ton/day
<b>Max</b>	4.57	7.37	217.04	295.07	1803.77	1661.53	127.49	29.32	12.79	7.82	5.70	3.53	1803.77 Ton/day
<b>Min</b>	1.30	1.53	2.89	12.25	20.23	106.10	27.15	12.79	7.82	5.33	3.53	0.83	0.83 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b>	<b>Bong Ti</b>	<b>Amphoe</b>	<b>Sai Yok</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	518	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1998-Cont'd					
<b>Actual Measurement</b>	1998-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	22					
<b>R-Square</b>	0.8668					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.6374 QW^{1.43040}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	26.59	0.61	17.14	22.60	1.85	0.28	0.00	0.00	0.00	
2	0.00	0.00	0.13	15.31	0.69	31.48	18.54	1.65	0.28	0.00	0.00	0.00	
3	0.00	0.00	0.41	18.07	0.76	84.09	15.76	1.55	0.23	0.00	0.00	0.00	
4	0.00	0.00	0.34	30.06	7.73	92.22	14.42	9.23	0.23	0.00	0.00	0.00	
5	0.00	0.00	1.27	31.48	18.07	72.48	19.99	4.71	0.17	0.00	0.00	0.00	
6	0.00	0.00	0.69	35.86	82.49	115.33	49.07	2.83	0.13	0.00	0.00	0.00	
7	0.00	0.00	0.61	27.96	58.22	119.46	25.91	2.16	0.13	0.00	0.00	0.00	
8	0.00	0.00	0.92	19.99	117.33	87.32	19.02	1.95	0.13	0.00	0.00	0.00	
9	0.00	0.00	3.63	12.39	119.46	95.54	19.99	1.65	0.08	0.00	0.00	0.00	
10	0.00	0.00	1.65	8.31	50.81	61.70	21.96	1.36	0.08	0.00	0.00	0.00	
11	0.00	0.00	1.09	5.40	125.69	42.31	21.46	1.27	0.08	0.00	0.00	0.00	
12	0.00	0.00	1.27	3.84	142.92	29.35	17.14	1.18	0.08	0.00	0.00	0.00	
13	0.00	0.00	1.09	3.22	111.23	20.96	42.31	1.09	0.08	0.00	0.00	0.00	
14	0.00	0.00	0.92	1.95	61.70	32.92	29.35	1.18	0.08	0.00	0.00	0.00	
15	0.00	0.00	0.84	1.65	35.86	55.94	25.91	1.27	0.05	0.00	0.00	0.00	
16	0.00	0.00	0.69	1.46	20.96	100.58	18.07	1.01	0.05	0.00	0.00	0.00	
17	0.00	0.00	1.75	1.27	14.87	79.32	14.87	0.92	0.02	0.00	0.00	0.00	
18	0.00	0.00	2.06	1.36	16.68	67.62	12.39	0.84	0.02	0.00	0.00	0.00	
19	0.00	0.00	1.55	1.36	12.03	90.58	10.46	0.76	0.02	0.00	0.00	0.00	
20	0.00	0.00	1.18	1.09	9.50	100.58	8.90	0.69	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.92	1.09	11.09	229.24	8.04	0.61	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.84	0.92	11.09	432.16	6.61	0.54	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.69	0.84	8.63	497.78	5.40	0.54	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.09	0.76	7.73	313.05	4.71	0.54	0.00	0.00	0.00	0.00	
25	0.00	0.00	11.39	0.69	9.50	188.22	3.84	0.47	0.00	0.00	0.00	0.00	
26	0.00	0.00	3.42	0.69	18.54	113.22	6.61	0.41	0.00	0.00	0.00	0.00	
27	0.00	0.00	1.85	0.69	65.23	73.71	4.49	0.41	0.00	0.00	0.00	0.00	
28	0.00	0.00	1.95	0.61	50.81	51.73	3.42	0.41	0.00	0.00	0.00	0.00	
29	0.00	0.13	4.27	0.61	35.12	38.28	2.64	0.34	0.00	0.00	0.00	0.00	
30	0.00	0.00	13.99	0.54	23.91	29.35	2.27	0.34	0.00	0.00	0.00	0.00	
31		0.00		0.47	18.54		2.06		0.00	0.00		0.00	
Total	0.00	0.13	62.50	256.53	1267.80	3363.66	478.21	43.76	2.22	0.00	0.00	0.00	5474.81 Tonday
Mean	0.00	0.00	2.08	8.28	40.90	112.12	15.43	1.46	0.07	0.00	0.00	0.00	14.96 Ton/day
Max	0.00	0.13	13.99	35.86	142.92	497.78	49.07	9.23	0.28	0.00	0.00	0.00	497.78 Ton/day
Min	0.00	0.00	0.00	0.47	0.61	17.14	2.06	0.34	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## MAE KLONG RIVER BASIN

## Khwaee Noi River at Ban Wang Yen , Kanchanaburi (K.37)

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

	<b>Ban</b>	<b>Wang Yen</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Kanchanaburi</b>
<b>Drainage Area</b>	10,557 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	37					
<b>R-Square</b>	0.8082					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.0001 QW^{2.89330}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	918.00	682.78	359.36	670.83	226.05	1118.28	2731.10	636.64	310.41	284.51	429.36	1597.29		
2	949.60	707.08	352.08	918.00	397.24	1622.86	2695.12	636.64	337.80	278.26	446.04	1473.37		
3	902.46	798.50	317.12	682.78	397.24	2352.21	2192.05	694.86	344.89	297.27	405.12	1247.30		
4	918.00	770.31	344.89	545.38	454.54	3108.36	2192.05	636.64	413.10	310.41	397.24	827.36		
5	1333.18	784.32	344.89	454.54	507.74	3227.84	2519.85	626.04	421.18	317.12	389.47	902.46		
6	1048.64	842.04	374.21	381.79	757.38	3187.68	3846.37	682.78	413.10	248.38	421.18	871.91		
7	812.84	871.91	352.08	297.27	2319.59	4140.71	3268.32	659.03	405.12	317.12	516.99	842.04		
8	1190.88	784.32	413.10	330.81	1950.92	4241.99	2418.36	636.64	413.10	303.80	480.66	682.78		
9	965.66	707.08	413.10	278.26	871.91	3894.44	2451.89	516.99	405.12	272.11	507.74	842.04		
10	1014.91	574.78	446.04	260.07	918.00	3942.91	2659.45	584.80	397.24	303.80	555.07	605.19		
11	933.71	659.03	337.80	231.50	605.19	4191.15	2255.23	682.78	463.14	330.81	564.87	757.38		
12	949.60	670.83	413.10	215.39	981.90	4883.90	3391.75	516.99	381.79	330.81	471.85	856.89		
13	918.00	812.84	454.54	181.42	1402.13	4772.78	1950.92	323.92	310.41	344.89	463.14	707.08		
14	1031.68	682.78	446.04	185.78	1571.98	3704.49	1402.13	463.14	323.92	330.81	429.36	918.00		
15	856.89	887.10	405.12	172.90	1136.15	3751.40	1522.15	489.58	297.27	352.08	463.14	744.59		
16	965.66	965.66	463.14	200.03	731.95	4090.66	1014.91	489.58	516.99	526.34	659.03	770.31		
17	812.84	480.66	454.54	242.67	545.38	4090.66	1154.20	535.81	471.85	507.74	770.31	770.31		
18	647.35	454.54	454.54	148.93	446.04	3846.37	784.32	489.58	421.18	516.99	626.04	918.00		
19	842.04	489.58	498.61	145.15	446.04	3798.69	682.78	516.99	317.12	507.74	659.03	744.59		
20	731.95	507.74	507.74	152.76	421.18	4191.15	615.56	516.99	330.81	429.36	842.04	757.38		
21	798.50	555.07	454.54	156.66	429.36	4940.08	574.78	480.66	359.36	381.79	605.19	636.64		
22	731.95	446.04	454.54	210.19	463.14	7791.04	564.87	526.34	337.80	437.65	659.03	594.94		
23	744.59	526.34	429.36	210.19	446.04	13771.74	744.59	516.99	344.89	330.81	694.86	615.56		
24	770.31	545.38	421.18	220.68	498.61	16464.65	770.31	471.85	330.81	330.81	694.86	594.94		
25	887.10	564.87	381.79	220.68	526.34	30639.86	744.59	498.61	352.08	366.74	812.84	574.78		
26	770.31	535.81	446.04	231.50	605.19	12147.46	707.08	480.66	323.92	381.79	902.46	507.74		
27	784.32	516.99	454.54	226.05	842.04	5302.48	694.86	489.58	323.92	397.24	1333.18	463.14		
28	744.59	545.38	413.10	254.18	1674.81	3942.91	707.08	480.66	310.41	405.12	1154.20	507.74		
29	757.38	437.65	437.65	205.07	1522.15	3268.32	647.35	374.21	297.27	446.04	1228.30	535.81		
30	719.45	359.36	535.81	210.19	1118.28	2731.10	659.03	344.89	272.11	429.36		555.07		
31		344.89		190.20	998.31		682.78		284.51	389.47		471.85		
<b>Total</b>	26452.39	19511.66	12580.59	9031.85	26212.82	173158.17	49245.83	16000.87	11232.62	11407.17	18582.60	23894.48	397311.05	Ton/day
<b>Mean</b>	881.75	629.41	419.35	291.35	845.57	5771.94	1588.58	533.36	362.34	367.97	640.78	770.79	1085.55	Ton/day
<b>Max</b>	1333.18	965.66	535.81	918.00	2319.59	30639.86	3846.37	694.86	516.99	526.34	1333.18	1597.29	30639.86	Ton/day
<b>Min</b>	647.35	344.89	317.12	145.15	226.05	1118.28	564.87	323.92	272.11	248.38	389.47	463.14	145.15	Ton/day

**WATER YEAR : 2019****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.**

	<b>Ban Nong Bang</b>	<b>Amphoe Thong Pha Phum</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	122 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2000-Cont'd		
<b>Actual Measurement</b>	2000-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.8225		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.8845 QW^{1.48190}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.44	0.44	1.29	14.84	1.92	33.20	13.27	5.00	3.28	1.92	0.91	2.63	
2	0.44	0.44	1.09	5.47	6.95	35.88	12.02	5.00	3.28	1.92	0.74	1.92	
3	0.74	0.44	1.09	5.47	4.11	33.20	10.82	5.47	2.88	1.92	0.91	1.70	
4	0.63	0.44	0.91	10.23	9.66	34.53	10.23	9.09	2.88	1.92	0.74	1.29	
5	0.53	0.53	1.09	5.47	11.41	38.63	12.64	4.11	2.88	1.92	0.74	1.49	
6	0.44	0.53	2.63	4.11	150.50	34.53	13.27	4.11	2.88	1.92	0.91	1.70	
7	0.53	0.44	1.70	5.47	34.53	37.25	10.23	4.11	2.88	1.70	0.91	1.49	
8	0.44	0.35	1.70	4.55	22.75	33.20	19.89	4.11	2.88	1.70	1.09	1.29	
9	0.44	0.44	2.15	4.11	15.65	27.24	12.02	3.69	2.88	1.70	0.91	1.29	
10	0.35	0.63	1.92	3.28	12.64	24.96	9.09	3.69	2.88	1.70	1.09	1.49	
11	0.35	0.53	1.49	2.63	17.30	21.68	8.54	3.69	2.88	1.70	0.91	1.70	
12	0.35	0.53	1.92	2.39	28.40	19.01	8.54	3.69	2.63	1.70	0.91	1.49	
13	0.35	1.49	2.39	2.15	27.24	16.47	8.54	3.28	2.63	1.70	0.91	1.70	
14	0.35	1.09	1.92	2.39	22.75	14.84	11.41	4.55	2.39	1.49	0.91	1.70	
15	0.35	0.91	1.70	2.39	15.65	19.01	8.54	3.69	2.39	1.49	0.91	1.70	
16	0.27	0.63	1.92	2.63	12.02	23.85	8.00	3.28	2.39	1.49	0.91	1.70	
17	0.27	0.63	3.28	2.15	12.02	16.47	7.47	3.28	2.39	1.49	0.91	1.92	
18	0.27	0.53	2.88	1.92	12.02	14.84	6.95	3.28	2.39	1.49	0.91	1.70	
19	0.27	0.53	2.63	1.70	12.64	13.27	6.95	2.88	2.39	1.29	0.91	1.70	
20	0.27	0.53	3.69	1.70	34.53	18.15	6.95	2.88	2.15	1.29	0.91	1.49	
21	0.27	0.44	2.15	1.49	28.40	98.06	6.44	2.88	2.15	1.09	0.91	1.49	
22	0.27	0.44	1.70	1.70	23.85	103.49	6.44	3.28	2.15	1.09	0.91	1.49	
23	0.27	1.09	1.29	1.49	19.01	54.21	5.95	3.28	2.15	1.09	0.91	1.49	
24	0.27	1.09	1.92	1.70	16.47	40.03	5.95	3.69	2.15	1.09	0.91	1.49	
25	0.27	1.70	2.63	2.15	42.88	31.98	5.47	3.28	2.15	1.09	0.91	1.49	
26	0.27	0.91	1.92	1.92	40.03	26.09	5.95	3.69	2.15	0.91	1.09	1.29	
27	1.29	1.49	1.49	1.92	48.97	22.75	5.47	3.28	2.15	0.91	1.09	1.49	
28	0.63	2.15	2.15	1.70	29.58	19.01	5.47	3.28	2.15	1.09	1.29	1.92	
29	0.44	1.92	3.69	1.49	24.96	17.30	5.00	3.28	2.15	0.91	1.09	1.49	
30	0.44	1.70	13.27	1.70	22.75	15.65	5.00	3.28	2.15	0.91		1.29	
31		2.15		1.49	44.33		5.00		1.92	0.91		1.29	
<b>Total</b>	12.50	27.16	71.60	103.80	805.92	938.78	267.51	116.10	77.65	44.54	27.16	49.31	2542.03 Tonday
<b>Mean</b>	0.42	0.88	2.39	3.35	26.00	31.29	8.63	3.87	2.50	1.44	0.94	1.59	6.95 Ton/day
<b>Max</b>	1.29	2.15	13.27	14.84	150.50	103.49	19.89	9.09	3.28	1.92	1.29	2.63	150.50 Ton/day
<b>Min</b>	0.27	0.35	0.91	1.49	1.92	13.27	5.00	2.88	1.92	0.91	0.74	1.29	0.27 Ton/day



**WATER YEAR : 2019****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.**

	<b>Ban Ong Thi</b>	<b>Amphoe Thong Pha Phum Changwat Kanchanaburi</b>
<b>Drainage Area</b>	51 sq.km.	
<b>Method of sampling</b>	Depth Integrating	
<b>Instrument Used</b>	US.D-49	
<b>Period of Available Records</b>	1998-Cont'd	
<b>Actual Measurement</b>	1998-Cont'd	
<b>Using Rating Curve Water Year</b>	1998-2019	
<b>Number of observation</b>	467	
<b>R-Square</b>	0.7646	
<b>Remarks</b>	Continued Sediment Station	

$$QS = 3.6775 QW^{1.32040}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.27	0.15	0.50	1.40	0.75	14.86	2.12	0.68	0.50	0.56	0.44	0.22	
2	0.27	0.18	0.38	0.75	2.38	11.68	1.63	0.75	0.50	0.50	0.44	0.22	
3	0.22	0.15	0.44	2.12	1.17	13.25	1.40	0.95	0.50	0.50	0.38	0.22	
4	0.27	0.15	0.33	1.87	5.47	11.68	1.17	0.95	0.56	0.44	0.38	0.18	
5	0.22	0.15	0.50	1.40	5.95	13.25	0.95	0.68	0.56	0.50	0.38	0.18	
6	0.27	0.15	0.50	1.40	18.87	7.99	1.17	0.68	0.56	0.50	0.38	0.18	
7	0.27	0.15	0.38	3.20	5.47	7.47	0.95	0.68	0.62	0.50	0.38	0.18	
8	0.22	0.18	0.50	1.40	6.45	6.95	2.12	0.68	0.62	0.44	0.33	0.18	
9	0.22	0.15	0.50	1.17	5.47	5.47	1.63	0.68	0.62	0.50	0.38	0.18	
10	0.22	0.15	0.50	0.95	4.99	4.52	1.17	0.68	0.62	0.44	0.38	0.18	
11	0.18	0.15	0.50	0.75	7.47	4.07	1.40	0.68	0.56	0.44	0.38	0.18	
12	0.18	0.15	0.62	0.68	19.96	3.20	0.95	0.62	0.62	0.44	0.38	0.18	
13	0.18	0.18	0.62	0.75	10.17	2.92	0.75	0.62	0.62	0.44	0.38	0.15	
14	0.18	0.22	1.17	0.95	5.47	3.20	0.75	0.68	0.56	0.44	0.38	0.15	
15	0.18	0.18	0.95	1.17	3.63	3.20	0.75	0.68	0.56	0.44	0.33	0.18	
16	0.18	0.15	0.75	0.95	6.45	4.52	0.68	0.62	0.56	0.44	0.33	0.22	
17	0.18	0.15	0.68	0.75	3.63	3.20	0.62	0.62	0.56	0.44	0.33	0.18	
18	0.18	0.15	0.68	0.68	2.65	4.07	0.68	0.62	0.56	0.44	0.33	0.18	
19	0.15	0.15	0.62	0.68	2.38	3.63	1.17	0.56	0.56	0.44	0.33	0.18	
20	0.15	0.15	0.62	0.62	3.63	4.99	1.17	0.56	0.56	0.44	0.33	0.15	
21	0.15	0.22	0.56	0.62	4.52	46.58	0.95	0.56	0.56	0.44	0.33	0.15	
22	0.15	0.22	0.50	0.56	3.63	44.96	0.95	0.56	0.56	0.44	0.27	0.15	
23	0.15	0.22	0.44	0.56	4.07	13.25	0.75	0.56	0.56	0.44	0.33	0.15	
24	0.15	0.27	0.50	0.62	3.20	7.47	0.75	0.50	0.56	0.44	0.27	0.15	
25	0.15	0.22	0.62	0.68	3.63	5.47	0.75	0.56	0.56	0.44	0.27	0.13	
26	0.13	0.22	0.50	0.62	6.95	4.07	0.75	0.56	0.56	0.44	0.22	0.13	
27	0.15	0.27	0.50	0.62	14.05	3.20	0.75	0.50	0.56	0.44	0.27	0.11	
28	0.13	0.27	0.56	0.56	6.95	2.65	0.75	0.50	0.56	0.44	0.27	0.13	
29	0.15	0.38	0.95	0.62	4.99	2.38	0.75	0.50	0.56	0.44	0.22	0.11	
30	0.18	0.38	0.95	0.62	4.52	3.20	0.68	0.50	0.50	0.44		0.11	
31		0.33		0.62	7.47		0.68		0.56	0.44		0.11	
Total	5.68	6.19	17.82	30.34	186.39	267.35	31.74	18.97	17.48	14.12	9.82	5.10	611.00 Tonday
Mean	0.19	0.20	0.59	0.98	6.01	8.91	1.02	0.63	0.56	0.46	0.34	0.16	1.67 Ton/day
Max	0.27	0.38	1.17	3.20	19.96	46.58	2.12	0.95	0.62	0.56	0.44	0.22	46.58 Ton/day
Min	0.13	0.15	0.33	0.56	0.75	2.38	0.62	0.50	0.50	0.44	0.22	0.11	0.11 Ton/day

**WATER YEAR : 2019****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.**

	<b>Ban</b> Hin Laem	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	123 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.9236		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.9536 QW^{1.32010}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.00	0.00	2.38	0.71	15.85	4.56	0.71	0.14	0.09	0.01	0.00	
2	0.02	0.00	0.00	2.24	3.55	25.31	4.30	0.79	0.14	0.09	0.01	0.00	
3	0.01	0.00	0.00	2.38	3.31	22.21	3.07	1.15	0.14	0.07	0.01	0.00	
4	0.01	0.00	0.00	4.56	5.77	31.24	2.84	1.15	0.14	0.07	0.00	0.00	
5	0.00	0.00	0.00	2.61	13.10	25.31	2.84	0.88	0.14	0.07	0.01	0.00	
6	0.00	0.00	0.02	1.74	53.08	18.23	8.11	0.79	0.12	0.07	0.02	0.00	
7	0.00	0.00	0.12	3.55	25.84	16.32	4.56	0.71	0.12	0.06	0.02	0.00	
8	0.00	0.00	0.14	2.38	16.79	12.65	5.45	0.71	0.12	0.06	0.02	0.00	
9	0.00	0.00	0.14	1.60	14.00	11.01	5.13	0.63	0.12	0.06	0.01	0.00	
10	0.00	0.00	0.14	1.15	11.01	8.82	3.80	0.63	0.14	0.07	0.00	0.00	
11	0.00	0.00	0.12	0.88	16.32	8.82	4.56	0.55	0.12	0.06	0.00	0.00	
12	0.00	0.00	0.33	0.71	65.42	7.42	3.07	0.47	0.12	0.06	0.00	0.00	
13	0.00	0.00	0.33	0.47	38.47	6.09	2.61	0.47	0.12	0.06	0.00	0.00	
14	0.00	0.00	0.55	0.63	20.20	5.77	2.38	0.55	0.12	0.06	0.00	0.00	
15	0.00	0.00	1.15	0.55	11.01	8.82	2.24	0.63	0.11	0.04	0.00	0.00	
16	0.00	0.00	3.31	0.88	8.46	11.39	1.74	0.47	0.11	0.06	0.00	0.00	
17	0.00	0.00	1.44	0.63	7.77	8.82	1.60	0.47	0.11	0.04	0.00	0.00	
18	0.00	0.00	1.15	0.71	7.77	5.77	1.60	0.40	0.11	0.06	0.00	0.00	
19	0.00	0.00	0.88	0.63	6.42	5.77	1.60	0.40	0.11	0.04	0.00	0.00	
20	0.00	0.00	0.88	0.55	6.42	17.27	1.44	0.40	0.11	0.04	0.00	0.00	
21	0.00	0.00	0.88	0.47	10.27	44.76	1.31	0.33	0.09	0.04	0.00	0.00	
22	0.00	0.00	0.47	0.47	8.82	49.57	1.31	0.40	0.11	0.04	0.00	0.00	
23	0.00	0.00	0.40	0.40	10.64	22.21	1.15	0.33	0.09	0.04	0.00	0.00	
24	0.00	0.00	0.33	0.47	9.18	13.10	1.15	0.26	0.11	0.04	0.00	0.00	
25	0.00	0.00	0.71	0.71	9.18	10.27	1.03	0.33	0.09	0.04	0.00	0.00	
26	0.00	0.00	0.55	0.71	9.90	8.46	1.03	0.26	0.09	0.03	0.00	0.00	
27	0.00	0.00	0.40	0.71	19.21	7.08	1.03	0.20	0.09	0.03	0.00	0.00	
28	0.00	0.00	0.55	0.63	13.55	6.42	0.88	0.26	0.09	0.01	0.00	0.00	
29	0.00	0.00	0.63	0.55	10.64	5.45	0.79	0.20	0.09	0.02	0.00	0.00	
30	0.00	0.00	0.79	0.55	9.18	5.45	0.79	0.14	0.09	0.02		0.00	
31		0.00		0.47	10.27		0.71		0.09	0.01		0.00	
<b>Total</b>	0.06	0.00	16.41	37.37	456.26	445.66	78.68	15.67	3.49	1.55	0.11	0.00	1055.26 Tonday
<b>Mean</b>	0.00	0.00	0.55	1.21	14.72	14.86	2.54	0.52	0.11	0.05	0.00	0.00	2.88 Ton/day
<b>Max</b>	0.02	0.00	3.31	4.56	65.42	49.57	8.11	1.15	0.14	0.09	0.02	0.00	65.42 Ton/day
<b>Min</b>	0.00	0.00	0.00	0.40	0.71	5.45	0.71	0.14	0.09	0.01	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	4,774 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1998-Cont'd				
<b>Actual Measurement</b>	1998-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	25				
<b>R-Square</b>	0.7786				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.0005 QW^{2.62340}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1002.45	807.32	134.74	390.36	368.95	341.55	1109.98	500.40	302.87	255.70	435.46	1041.98		
2	795.98	762.56	228.69	334.90	272.81	508.92	913.86	435.46	261.33	284.60	397.66	1096.16		
3	901.62	599.01	355.08	255.70	267.03	552.83	926.21	397.66	376.00	517.52	508.92	580.26		
4	1209.68	698.36	228.69	193.95	309.12	657.49	1041.98	390.36	302.87	103.48	368.95	938.66		
5	637.62	740.77	290.61	131.02	405.05	719.38	1068.86	627.83	315.44	261.33	667.57	913.86		
6	784.74	751.62	328.34	142.39	784.74	865.50	1096.16	412.53	321.85	459.16	467.23	784.74		
7	901.62	740.77	315.44	162.68	134.74	1068.86	1055.37	467.23	309.12	309.12	637.62	508.92		
8	773.60	491.98	284.60	154.37	142.39	751.62	1002.45	250.15	315.44	284.60	500.40	889.48		
9	877.44	526.21	368.95	120.22	138.54	963.86	976.62	534.99	376.00	348.27	762.56	647.51		
10	751.62	773.60	228.69	184.67	134.74	1441.53	938.66	526.21	397.66	341.55	637.62	989.48		
11	773.60	483.64	376.00	94.17	203.51	2019.99	784.74	341.55	233.94	321.85	443.27	719.38		
12	818.75	637.62	443.27	138.54	250.15	1890.88	608.52	290.61	239.27	321.85	599.01	688.00		
13	951.21	580.26	213.36	134.74	348.27	1345.77	475.39	435.46	321.85	475.39	341.55	913.86		
14	647.51	784.74	420.08	127.35	255.70	1911.77	459.16	328.34	233.94	483.64	830.29	618.13		
15	740.77	841.93	284.60	348.27	193.95	1748.57	321.85	348.27	517.52	571.03	698.36	926.21		
16	667.57	341.55	397.66	66.95	166.94	1829.04	427.73	405.05	467.23	517.52	784.74	1068.86		
17	589.59	272.81	302.87	131.02	158.49	1728.80	239.27	361.97	267.03	483.64	618.13	951.21		
18	751.62	491.98	348.27	106.70	150.31	1748.57	244.67	526.21	208.40	435.46	730.03	688.00		
19	599.01	341.55	309.12	142.39	150.31	1975.31	296.70	309.12	267.03	290.61	989.48	818.75		
20	677.74	698.36	361.97	116.74	180.13	1911.77	261.33	427.73	239.27	618.13	589.59	459.16		
21	708.82	261.33	355.08	162.68	158.49	3712.15	348.27	443.27	321.85	405.05	773.60	740.77		
22	677.74	580.26	309.12	184.67	189.27	2204.95	475.39	390.36	223.51	255.70	762.56	397.66		
23	677.74	405.05	328.34	184.67	158.49	1284.18	467.23	309.12	309.12	361.97	730.03	677.74		
24	795.98	467.23	348.27	180.13	184.67	1377.24	435.46	475.39	261.33	483.64	1015.52	491.98		
25	561.88	348.27	368.95	184.67	198.70	1254.05	420.08	390.36	278.67	368.95	1109.98	443.27		
26	688.00	368.95	321.85	302.87	228.69	938.66	390.36	412.53	261.33	355.08	1330.21	534.99		
27	637.62	627.83	321.85	103.48	368.95	1152.06	451.17	355.08	475.39	608.52	1137.92	483.64		
28	677.74	228.69	361.97	175.67	255.70	1041.98	390.36	341.55	180.13	508.92	1224.36	517.52		
29	719.38	261.33	309.12	218.40	267.03	913.86	443.27	218.40	267.03	321.85	1670.32	589.59		
30	483.64	189.27	348.27	180.13	315.44	1314.75	435.46	284.60	255.70	427.73		435.46		
31		475.39		233.94	334.90		420.08		261.33	500.40		795.98		
Total	22482.28	16580.24	9593.85	5588.44	7676.20	41175.89	18926.64	11937.79	9369.45	12282.26	21762.94	22351.21	199727.19	Ton/day
Mean	749.41	534.85	319.80	180.27	247.62	1372.53	610.54	397.93	302.24	396.20	750.45	721.01	545.70	Ton/day
Max	1209.68	841.93	443.27	390.36	784.74	3712.15	1109.98	627.83	517.52	618.13	1670.32	1096.16	3712.15	Ton/day
Min	483.64	189.27	134.74	66.95	134.74	341.55	239.27	218.40	180.13	103.48	341.55	397.66	66.95	Ton/day

**WATER YEAR : 2019****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.**

	<b>Ban</b> Kui Mang	<b>Amphoe</b> Thong Pha Phum	<b>Changwat</b> Kanchanaburi
<b>Drainage Area</b>	128 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2002-Cont'd		
<b>Actual Measurement</b>	2002-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.9360		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.5409 QW^{1.65780}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.04	0.00	0.12	5.09	2.98	70.93	7.62	3.53	1.34	0.65	0.02	0.00	
2	0.00	0.00	0.10	3.83	6.61	81.15	6.61	3.83	1.34	0.65	0.18	0.00	
3	0.00	0.00	0.06	4.13	6.61	81.15	6.12	4.44	1.34	0.65	0.27	0.00	
4	0.00	0.00	0.02	17.48	9.82	124.30	6.61	4.44	1.34	0.65	0.18	0.00	
5	0.00	0.00	0.27	6.61	34.94	85.70	6.12	3.83	1.15	0.58	0.12	0.02	
6	0.00	0.00	0.15	4.76	324.73	74.92	10.40	3.53	1.15	0.58	0.10	0.10	
7	0.00	0.00	0.08	6.61	67.03	101.54	6.61	3.53	1.15	0.58	0.10	0.10	
8	0.00	0.00	0.08	5.42	40.84	57.74	11.00	3.53	0.97	0.51	0.08	0.10	
9	0.00	0.00	0.97	4.44	23.24	39.33	7.11	3.25	0.97	0.45	0.06	0.10	
10	0.00	0.00	1.15	3.83	12.39	26.35	6.61	3.25	0.97	0.45	0.04	0.10	
11	0.00	0.00	0.65	3.25	20.27	45.51	6.12	2.98	0.97	0.45	0.02	0.10	
12	0.00	0.00	0.73	2.98	85.70	26.35	7.11	2.98	0.97	0.45	0.02	0.10	
13	0.00	0.01	0.97	2.46	107.06	19.32	6.61	2.98	0.97	0.38	0.02	0.10	
14	0.00	0.04	1.15	2.46	79.00	16.58	6.61	2.98	1.15	0.45	0.01	0.10	
15	0.00	0.06	1.15	2.71	26.35	26.35	7.11	3.25	1.15	0.45	0.01	0.10	
16	0.00	0.06	1.15	8.15	17.48	21.24	5.77	2.98	0.97	0.45	0.00	0.10	
17	0.00	0.04	1.34	4.44	16.58	18.39	5.42	2.71	1.15	0.45	0.00	0.10	
18	0.00	0.02	1.54	3.53	26.35	11.61	5.42	2.71	0.97	0.58	0.00	0.10	
19	0.00	0.02	1.54	2.71	16.58	11.00	5.42	2.46	0.97	0.58	0.00	0.10	
20	0.00	0.04	1.34	2.21	29.63	30.75	5.09	2.46	0.97	0.65	0.00	0.10	
21	0.00	0.18	1.54	1.98	54.14	241.00	4.76	2.21	0.81	0.45	0.00	0.10	
22	0.00	0.12	0.81	1.76	57.74	241.00	4.76	2.21	0.81	0.33	0.00	0.10	
23	0.00	0.15	0.51	1.34	73.00	77.03	4.76	2.21	0.81	0.27	0.00	0.10	
24	0.00	0.81	10.40	1.34	36.38	36.38	4.44	1.98	0.81	0.22	0.00	0.10	
25	0.00	0.65	8.15	1.76	50.65	23.24	4.44	1.98	0.81	0.18	0.00	0.10	
26	0.00	0.45	3.83	2.46	55.86	16.58	4.76	1.98	0.73	0.12	0.00	0.10	
27	0.00	0.27	3.83	2.46	118.44	12.39	4.13	1.76	0.73	0.10	0.00	0.10	
28	0.00	0.18	2.98	2.46	65.19	11.00	4.13	1.54	0.73	0.08	0.00	0.10	
29	0.00	0.27	2.46	1.98	34.94	9.25	3.83	1.54	0.73	0.06	0.00	0.10	
30	0.00	0.51	3.53	1.76	27.43	8.15	3.83	1.54	0.73	0.04	0.00	0.10	
31		0.33		1.98	47.24		3.83		0.73	0.02		0.10	
Total	0.04	4.21	52.60	118.38	1575.20	1646.23	183.16	84.60	30.39	12.51	1.23	2.62	3711.17 Tonday
Mean	0.00	0.14	1.75	3.82	50.81	54.87	5.91	2.82	0.98	0.40	0.04	0.08	10.14 Ton/day
Max	0.04	0.81	10.40	17.48	324.73	241.00	11.00	4.44	1.34	0.65	0.27	0.10	324.73 Ton/day
Min	0.00	0.00	0.02	1.34	2.98	8.15	3.83	1.54	0.73	0.02	0.00	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Nong Phai</b>	<b>Amphoe Dan Makham Tia</b>	<b>Changwat Kanchanaburi</b>
<b>Drainage Area</b>	1,725 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2006-Cont'd		
<b>Actual Measurement</b>	2006-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.8508		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5378 QW^{1.32810}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.38	1.96	3.61	29.30	1.24	12.35	114.07	19.61	4.38	1.11	0.38	0.24	
2	4.92	1.40	5.47	25.15	1.24	14.09	93.28	18.10	4.12	1.14	0.38	0.16	
3	3.36	1.34	6.32	14.80	1.30	15.52	83.28	17.35	3.86	1.20	0.38	0.12	
4	4.65	1.50	8.43	12.69	1.40	17.35	112.30	22.74	4.12	1.11	0.38	0.16	
5	5.75	1.40	6.62	15.16	2.18	25.15	119.43	23.53	3.36	1.01	0.38	0.10	
6	10.34	1.40	6.04	14.44	6.91	45.43	162.40	16.61	3.11	1.05	0.43	0.01	
7	12.35	1.96	18.85	21.16	14.80	34.48	134.00	15.16	2.63	0.96	0.38	0.18	
8	10.34	1.96	15.52	18.10	31.87	27.62	123.03	14.44	2.40	0.92	0.35	0.18	
9	8.43	1.44	23.53	14.44	16.61	22.74	210.47	14.80	2.40	0.83	0.35	0.12	
10	6.91	1.30	19.61	12.01	15.52	18.85	162.40	13.39	2.18	0.83	0.35	0.07	
11	6.04	1.20	20.38	10.02	14.80	15.52	105.28	12.35	2.18	0.87	0.31	0.00	
12	6.32	1.34	14.44	8.74	17.35	14.09	91.59	11.34	1.96	0.83	0.31	0.00	
13	4.12	6.91	13.73	7.51	18.10	12.35	80.01	10.34	1.75	0.58	0.31	0.00	
14	3.11	1.54	12.69	6.32	15.52	11.00	86.58	10.02	1.96	0.61	0.28	0.00	
15	2.63	4.65	11.00	5.47	13.39	10.67	117.64	10.02	1.75	0.83	0.28	0.10	
16	2.63	6.04	9.37	4.65	11.67	10.34	149.61	9.69	1.75	0.78	0.43	0.12	
17	2.40	5.19	8.74	3.86	10.67	10.34	175.44	9.06	1.75	0.75	0.50	0.10	
18	2.18	6.62	8.12	3.61	9.69	10.67	119.43	8.74	1.75	0.75	0.43	0.12	
19	2.63	5.19	8.12	3.36	9.06	14.09	88.24	8.43	1.75	0.75	0.35	0.10	
20	2.40	3.36	7.81	3.61	8.43	42.63	64.17	7.81	1.54	0.66	0.28	0.05	
21	1.96	3.36	6.91	3.36	7.81	64.17	54.11	7.51	1.40	0.61	0.24	0.00	
22	1.50	4.38	5.47	2.87	7.51	159.82	47.33	7.21	1.44	0.61	0.35	0.00	
23	1.34	18.10	4.12	2.18	7.51	691.24	40.78	6.91	1.50	0.58	0.46	0.00	
24	1.34	18.10	3.36	1.75	7.21	2436.01	35.37	6.62	1.50	0.53	0.43	0.00	
25	1.34	23.53	3.86	1.75	6.91	1768.98	31.01	6.04	1.50	0.58	0.38	0.00	
26	1.34	13.39	5.19	1.50	7.81	786.04	27.62	5.75	1.40	0.61	0.35	0.38	
27	1.50	10.34	4.38	1.40	11.00	433.88	25.15	5.47	1.34	0.61	0.28	0.38	
28	1.54	8.12	4.12	1.40	22.74	273.11	26.79	5.19	1.40	0.53	0.31	0.28	
29	1.40	6.62	3.36	1.34	21.16	188.73	31.87	5.19	1.34	0.46	0.28	0.24	
30	1.50	5.19	8.12	1.30	15.88	134.00	25.97	4.92	1.40	0.43		0.24	
31		4.65		1.30	13.39		22.74		1.34	0.43		0.35	
<b>Total</b>	120.65	173.48	277.29	254.55	350.68	7321.26	2761.39	334.34	66.26	23.55	10.32	3.80	11697.57 Tonday
<b>Mean</b>	4.02	5.60	9.24	8.21	11.31	244.04	89.08	11.14	2.14	0.76	0.36	0.12	31.96 Ton/day
<b>Max</b>	12.35	23.53	23.53	29.30	31.87	2436.01	210.47	23.53	4.38	1.20	0.50	0.38	2436.01 Ton/day
<b>Min</b>	1.34	1.20	3.36	1.30	1.24	10.34	22.74	4.92	1.34	0.43	0.24	0.00	0.00 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban</b> Khao Chakan	<b>Amphoe</b> Khao Chakan	<b>Changwat</b> Sa Kaeo
<b>Drainage Area</b>	2,264 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	28		
<b>R-Square</b>	0.9016		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.0974 QW^{1.46000}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.31	7.12	4.93	3.02	7.71	46.42	13.57	12.18	3.94	6.55	7.12	7.12	
2	8.31	7.12	3.02	13.57	6.55	41.30	12.87	10.19	3.47	6.55	7.12	7.12	
3	8.31	6.00	7.12	88.34	6.55	51.73	46.42	9.55	3.47	5.46	7.12	7.12	
4	7.71	6.00	8.92	79.55	6.55	97.42	36.37	8.92	3.94	5.46	8.31	7.12	
5	5.46	6.00	6.55	57.21	6.55	92.85	71.05	8.92	3.94	5.46	8.92	7.12	
6	4.93	4.43	3.94	29.37	8.31	253.30	111.56	8.92	3.47	5.46	8.92	7.12	
7	8.92	3.02	3.47	57.21	7.71	719.97	111.56	8.31	3.02	6.00	8.31	7.12	
8	8.92	7.12	2.80	49.05	7.71	102.07	75.26	7.71	3.02	8.92	7.12	7.12	
9	5.46	6.55	2.59	49.05	8.31	33.99	66.92	7.12	3.47	8.92	7.12	7.12	
10	8.31	6.55	12.18	38.81	8.31	22.85	46.42	7.12	3.94	8.92	7.12	6.55	
11	8.31	6.00	15.01	16.87	8.31	41.30	15.01	8.31	4.43	9.55	7.12	7.12	
12	7.71	6.55	8.92	11.50	8.31	62.86	31.65	8.31	4.43	8.31	7.12	7.12	
13	7.71	6.00	7.12	10.19	10.19	16.87	13.57	8.31	3.94	7.71	7.12	7.12	
14	4.93	6.00	7.71	5.46	10.84	24.96	18.80	7.71	3.94	7.71	7.12	6.55	
15	8.92	6.00	7.12	5.46	9.55	75.26	31.65	7.12	4.93	7.71	7.12	7.71	
16	6.55	7.12	6.55	5.46	8.92	126.28	27.14	7.12	4.93	7.71	7.12	7.71	
17	6.55	12.18	10.19	6.00	8.31	111.56	16.87	16.87	4.93	7.71	7.12	7.71	
18	8.31	10.84	10.19	5.46	7.12	79.55	12.87	12.18	4.93	7.71	7.12	7.71	
19	5.46	8.31	9.55	7.71	7.12	873.08	11.50	3.94	4.93	7.71	8.31	7.71	
20	7.71	7.71	8.31	7.12	7.71	2255.13	10.84	3.94	4.93	7.71	9.55	7.71	
21	8.31	7.12	7.12	4.93	8.31	1286.52	10.84	3.94	4.43	7.71	10.19	7.71	
22	7.71	6.55	8.31	7.71	7.71	1491.80	10.19	3.47	3.94	7.71	9.55	7.71	
23	4.43	6.55	7.12	6.55	10.84	5790.49	9.55	3.47	3.94	7.71	7.71	7.71	
24	8.92	7.12	5.46	6.55	9.55	6920.93	8.92	3.47	4.93	7.71	7.12	7.71	
25	8.31	6.55	6.00	6.55	31.65	2581.09	8.92	3.47	4.93	7.12	7.12	8.31	
26	8.31	6.00	7.12	6.55	71.05	719.97	8.31	3.02	4.93	7.12	7.12	7.71	
27	7.71	3.02	6.00	4.43	43.84	106.78	7.71	3.02	5.46	7.12	7.12	7.71	
28	6.00	7.12	6.00	9.55	20.79	66.92	7.12	3.47	4.93	7.12	7.71	7.71	
29	2.80	7.12	6.00	8.31	43.84	41.30	12.87	3.94	6.00	7.12	7.71	7.12	
30	7.71	6.55	5.46	7.12	146.78	22.85	14.29	3.94	6.00	7.71		7.12	
31		5.46		4.93	106.78		13.57		6.55	7.12		7.12	
<b>Total</b>	217.01	205.78	210.78	619.59	661.78	24157.40	894.19	207.96	138.04	228.51	223.35	228.44	27992.83 Ton/day
<b>Mean</b>	7.23	6.64	7.03	19.99	21.35	805.25	28.84	6.93	4.45	7.37	7.70	7.37	76.48 Ton/day
<b>Max</b>	8.92	12.18	15.01	88.34	146.78	6920.93	111.56	16.87	6.55	9.55	10.19	8.31	6920.93 Ton/day
<b>Min</b>	2.80	3.02	2.59	3.02	6.55	16.87	7.12	3.02	3.02	5.46	7.12	6.55	2.59 Ton/day

## WATER YEAR : 2019

## PPRACHIN BURI RIVER BASIN

## Khlung Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	<b>Ban Kaeng</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	1,478 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	42		
<b>R-Square</b>	0.9427		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.8234 QW^{1.29470}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.19	0.98	1.59	10.27	1.94	199.65	399.11	24.34	0.29	0.42	0.38	2.06	
2	2.95	1.02	1.59	10.97	1.68	300.03	191.44	20.99	0.26	0.49	0.45	1.82	
3	7.56	1.06	1.55	22.65	1.68	303.05	99.75	15.41	0.26	0.49	0.49	1.59	
4	10.44	0.90	1.50	36.87	2.56	299.27	81.38	10.27	0.26	0.63	0.45	1.32	
5	11.33	0.59	1.50	41.62	4.47	295.13	76.93	8.72	0.32	0.67	0.42	1.19	
6	12.05	0.38	1.50	44.53	5.82	308.73	74.72	7.73	0.32	0.67	1.06	1.23	
7	10.97	0.23	1.45	40.66	5.66	325.15	74.72	6.92	0.26	0.70	1.50	1.28	
8	9.23	0.23	1.59	34.09	4.19	338.27	69.27	6.13	0.23	0.63	1.68	1.41	
9	7.08	0.23	2.19	29.56	2.43	318.25	67.12	5.06	0.23	0.56	1.64	1.45	
10	4.76	0.20	3.35	26.92	1.78	289.51	79.15	4.04	0.17	0.56	1.59	1.41	
11	2.95	0.20	4.47	22.23	1.59	175.26	89.31	2.95	0.12	0.67	1.64	1.64	
12	1.78	0.20	8.22	17.75	1.45	213.51	101.52	2.31	0.07	0.74	1.73	1.59	
13	1.41	0.23	16.57	10.62	1.32	290.26	115.88	1.78	0.01	0.74	1.82	1.45	
14	1.19	0.38	21.40	6.76	1.19	295.88	119.54	1.59	0.12	0.70	1.82	1.32	
15	1.06	0.42	20.99	3.90	1.06	303.80	123.22	1.41	0.12	0.67	1.94	1.32	
16	0.86	0.74	20.99	2.19	1.28	307.97	123.22	1.23	0.12	0.63	2.19	1.23	
17	0.82	1.45	22.23	1.55	1.45	325.92	106.85	1.11	0.07	0.86	2.31	1.23	
18	0.86	3.08	22.23	1.23	2.06	320.55	84.20	1.02	0.07	1.15	2.19	1.32	
19	1.02	4.33	22.23	1.02	2.06	313.67	66.05	0.86	0.03	1.11	2.06	1.59	
20	1.11	5.06	25.19	0.90	1.64	323.61	51.49	0.74	0.01	0.94	1.78	1.78	
21	1.11	5.21	29.56	0.86	1.55	421.79	41.62	0.74	0.01	0.82	1.73	2.06	
22	1.02	5.36	30.46	0.94	2.06	601.23	35.01	0.74	0.00	0.86	1.73	1.82	
23	1.02	5.21	30.46	0.86	5.36	809.94	31.36	0.67	0.03	0.90	1.73	1.64	
24	0.94	4.62	25.19	0.82	9.23	1010.84	27.80	0.63	0.17	0.90	1.73	1.45	
25	0.94	3.08	16.57	1.06	16.97	1201.61	25.19	0.56	0.29	0.82	1.73	1.28	
26	0.94	1.73	10.09	1.64	32.26	1418.87	22.23	0.45	0.42	0.67	1.73	1.19	
27	1.11	1.50	7.56	2.56	42.59	1440.39	20.58	0.38	0.45	0.59	1.78	1.02	
28	1.15	1.37	6.44	2.95	44.53	1251.50	18.55	0.32	0.45	0.49	1.94	0.94	
29	1.15	1.37	7.56	3.22	39.71	1006.86	16.97	0.29	0.42	0.38	2.06	0.90	
30	1.02	1.45	9.23	3.49	40.66	723.11	17.75	0.26	0.35	0.42		0.90	
31		1.55		2.82	67.12		22.65		0.32	0.38		0.90	
Total	102.02	54.36	375.45	387.51	349.35	15733.61	2474.58	129.65	6.25	21.26	45.30	43.33	19722.67 Tonday
Mean	3.40	1.75	12.51	12.50	11.27	524.45	79.83	4.32	0.20	0.69	1.56	1.40	53.89 Ton/day
Max	12.05	5.36	30.46	44.53	67.12	1440.39	399.11	24.34	0.45	1.15	2.31	2.06	1440.39 Ton/day
Min	0.82	0.20	1.45	0.82	1.06	175.26	16.97	0.26	0.00	0.38	0.38	0.90	0.00 Ton/day

## WATER YEAR : 2019

## 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

	<b>Ban Non Suk Phum</b>	<b>Amphoe Kabin Buri</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	4,906 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	25		
<b>R-Square</b>	0.9352		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.9781 QW^{1.39810}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.35	17.73	21.99	30.35	29.45	836.78	3964.42	145.19	8.34	20.36	18.77	21.99	
2	30.35	15.70	19.83	32.17	25.93	815.19	2027.02	124.95	6.73	18.77	18.25	24.22	
3	36.85	18.25	18.25	48.78	25.07	858.52	880.42	93.78	5.58	19.30	17.73	24.22	
4	50.86	17.73	15.70	204.54	26.80	1072.74	614.22	79.19	4.85	18.25	17.22	21.99	
5	56.16	16.71	19.30	273.78	31.25	1453.26	510.63	68.34	5.58	17.73	17.22	20.36	
6	56.16	16.71	25.93	276.60	36.85	1781.63	478.65	60.51	6.34	18.77	19.30	21.99	
7	56.16	16.71	23.66	206.62	46.73	2347.33	539.08	56.16	7.93	19.30	22.54	23.10	
8	56.16	15.20	19.83	208.70	48.78	2439.17	567.97	50.86	9.62	18.77	22.54	21.99	
9	61.61	12.32	17.73	216.56	48.78	1812.41	486.59	42.69	7.12	17.73	24.22	23.10	
10	58.33	11.86	19.30	192.22	46.73	1078.56	440.17	40.72	8.34	16.71	24.22	24.22	
11	46.73	13.74	21.99	172.17	44.70	694.27	402.00	36.85	10.50	16.20	23.10	23.10	
12	40.72	16.20	62.72	128.56	41.70	635.58	337.64	34.02	12.32	21.45	22.54	20.90	
13	37.80	17.73	80.77	90.47	39.74	815.19	386.38	32.17	13.74	27.67	21.45	19.30	
14	34.02	19.83	66.83	79.19	39.74	831.37	447.28	30.35	15.20	25.93	20.36	18.77	
15	31.25	20.90	57.24	47.75	45.71	1402.81	414.61	26.80	17.22	25.93	21.99	19.83	
16	25.07	21.45	52.96	28.56	48.78	1992.26	433.74	25.07	16.71	25.07	23.10	24.22	
17	24.22	23.10	54.02	26.80	54.02	2126.24	411.45	23.10	13.74	25.07	23.66	25.07	
18	21.99	30.35	61.61	20.90	62.72	1929.16	337.64	21.45	12.32	28.56	23.66	23.66	
19	20.90	45.71	72.93	15.70	60.51	1851.09	265.38	48.78	12.32	25.07	22.54	23.10	
20	23.10	47.75	71.39	13.74	50.86	2491.80	219.19	37.80	14.22	20.90	21.45	23.10	
21	22.54	43.69	76.04	13.26	58.33	3832.52	178.12	18.77	18.25	18.25	20.90	22.54	
22	22.54	41.70	74.48	15.20	130.38	5115.44	152.77	13.26	21.99	15.20	25.93	23.10	
23	26.80	41.70	66.83	13.26	137.73	6120.95	137.73	10.95	15.70	12.79	28.56	21.45	
24	26.80	37.80	61.61	13.26	152.77	7056.39	128.56	10.50	11.40	11.86	28.56	20.36	
25	21.99	36.85	54.02	13.74	248.79	7382.23	121.36	9.62	17.22	12.79	23.66	23.10	
26	23.66	36.85	40.72	14.71	268.17	7434.06	117.80	8.76	59.42	13.26	21.45	25.07	
27	25.93	33.09	31.25	17.22	543.18	7555.39	109.04	9.62	57.24	12.32	23.10	25.07	
28	25.93	28.56	29.45	19.30	597.28	7609.02	97.11	14.22	39.74	14.22	23.10	23.66	
29	25.07	21.45	28.56	19.83	370.95	7090.49	82.37	11.86	26.80	17.22	21.99	21.45	
30	21.99	20.90	28.56	25.07	609.97	5812.32	77.61	10.06	23.10	17.73		20.36	
31		23.10		30.35	891.43		107.31		23.10	18.25		18.77	
Total	1042.04	781.37	1295.50	2509.36	4863.83	94274.17	15474.26	1196.40	522.68	591.43	643.11	693.16	123887.31 Tonday
Mean	34.73	25.21	43.18	80.95	156.90	3142.47	499.17	39.88	16.86	19.08	22.18	22.36	338.49 Ton/day
Max	61.61	47.75	80.77	276.60	891.43	7609.02	3964.42	145.19	59.42	28.56	28.56	25.07	7609.02 Ton/day
Min	20.90	11.86	15.70	13.26	25.07	635.58	77.61	8.76	4.85	11.86	17.22	18.77	4.85 Ton/day



## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

Khleng 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.

	<b>Ban Thung Faek</b>	<b>Amphoe Na Di</b>	<b>Changwat Prachin Buri</b>
<b>Drainage Area</b>	354 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	22		
<b>R-Square</b>	0.9486		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 6.3812 QW^{1.33440}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.00	0.15	2.94	1.40	573.22	12.45	2.13	0.55	0.42	0.22	0.06	
2	0.09	0.00	0.12	2.26	3.01	191.59	11.45	2.07	0.51	0.42	0.22	0.06	
3	0.12	0.00	0.12	15.56	1.57	435.88	20.52	2.20	0.51	0.42	0.22	0.06	
4	0.15	0.00	0.06	168.00	1.06	549.69	27.64	2.13	0.46	0.42	0.22	0.06	
5	0.12	0.00	0.09	187.60	0.90	199.62	7.25	2.01	0.46	0.38	0.22	0.09	
6	0.12	0.00	0.95	75.97	0.95	109.21	88.91	1.88	0.42	0.38	0.22	0.15	
7	0.12	0.00	1.00	17.17	1.11	54.65	39.23	1.75	0.46	0.38	0.22	0.22	
8	0.09	0.00	0.90	10.00	0.95	35.26	33.96	1.57	0.46	0.38	0.22	0.22	
9	0.12	0.00	0.55	4.27	1.28	39.23	50.32	1.51	0.51	0.38	0.18	0.18	
10	0.15	0.00	2.53	3.96	3.96	27.64	54.65	1.45	0.55	0.38	0.15	0.15	
11	0.12	0.00	1.40	3.52	3.01	48.90	44.69	1.45	0.55	0.34	0.18	0.12	
12	0.09	0.15	1.06	1.94	5.22	92.22	22.84	1.45	0.55	0.34	0.18	0.09	
13	0.03	0.15	3.81	1.63	10.96	48.90	66.62	1.40	0.51	0.34	0.18	0.09	
14	0.03	0.15	2.53	1.45	7.25	187.60	54.65	1.28	0.51	0.30	0.22	0.06	
15	0.03	0.18	1.17	1.22	4.90	557.50	25.21	1.00	0.51	0.30	0.22	0.09	
16	0.15	0.18	1.63	1.17	2.74	175.78	14.50	0.90	0.55	0.34	0.18	0.15	
17	0.18	0.34	6.81	1.11	2.46	148.96	11.95	0.85	0.51	0.34	0.18	0.12	
18	0.22	0.30	41.94	1.00	8.14	130.51	9.06	0.80	0.51	0.30	0.15	0.12	
19	0.15	0.18	6.04	0.95	9.06	335.99	6.38	0.80	0.51	0.30	0.15	0.09	
20	0.12	0.15	2.53	0.90	15.56	329.11	5.54	0.90	0.51	0.30	0.12	0.09	
21	0.12	0.12	1.82	0.90	51.75	232.54	4.90	0.90	0.46	0.30	0.09	0.06	
22	0.26	0.12	1.51	0.85	15.03	1196.12	4.42	0.90	0.46	0.30	0.06	0.06	
23	0.18	0.12	0.95	0.80	6.38	1505.45	3.81	0.85	0.46	0.30	0.03	0.03	
24	0.15	0.12	0.70	0.85	5.22	1405.86	3.16	0.80	0.46	0.34	0.03	0.03	
25	0.12	0.09	0.65	1.11	51.75	295.26	3.01	0.75	0.51	0.30	0.03	0.03	
26	0.09	0.09	0.60	1.06	450.67	130.51	2.87	0.65	0.55	0.30	0.03	0.06	
27	0.06	0.09	0.60	1.34	130.51	79.16	2.74	0.60	0.51	0.30	0.03	0.06	
28	0.06	0.15	0.80	1.22	27.64	50.32	2.67	0.60	0.51	0.30	0.03	0.03	
29	0.03	0.22	2.60	1.00	25.21	37.89	2.53	0.55	0.51	0.30	0.03	0.03	
30	0.01	0.18	2.87	0.85	27.64	28.88	2.40	0.55	0.46	0.26		0.03	
31		0.18		0.80	356.84		2.26		0.46	0.22		0.03	
<b>Total</b>	3.37	3.26	88.49	513.40	1234.13	9233.45	642.59	36.68	15.46	10.38	4.21	2.72	11788.14 Tonday
<b>Mean</b>	0.11	0.11	2.95	16.56	39.81	307.78	20.73	1.22	0.50	0.33	0.15	0.09	32.21 Ton/day
<b>Max</b>	0.26	0.34	41.94	187.60	450.67	1505.45	88.91	2.20	0.55	0.42	0.22	0.22	1505.45 Ton/day
<b>Min</b>	0.01	0.00	0.06	0.80	0.90	27.64	2.26	0.55	0.42	0.22	0.03	0.03	0.00 Ton/day

## WATER YEAR : 2019

## PRACHIN BURI RIVER BASIN

## Khlong Phra Sathung at Ban Tharapha , Sa Kao (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	<b>Ban Tharapha</b>	<b>Amphoe Mueang</b>	<b>Changwat Sa Kao</b>
<b>Drainage Area</b>	2,558 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2005-Cont'd		
<b>Actual Measurement</b>	2005-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	42		
<b>R-Square</b>	0.9155		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.1379 QW^{1.37400}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.74	6.92	7.74	9.45	6.92	230.11	260.87	8.58	1.94	1.44	3.73	9.01	
2	7.32	6.51	7.32	22.25	6.12	95.65	218.43	8.80	1.71	1.44	4.08	7.95	
3	6.71	6.32	6.32	46.46	5.35	87.49	198.81	9.01	1.66	1.44	4.79	6.51	
4	5.93	6.12	5.16	96.48	4.98	152.25	192.39	9.23	1.66	1.44	5.54	5.93	
5	4.61	5.93	3.90	156.49	5.73	248.78	186.02	9.45	1.57	1.44	6.32	5.73	
6	3.90	5.54	3.39	114.30	6.92	338.40	178.14	9.45	1.57	1.44	6.71	5.54	
7	3.73	5.35	3.56	104.02	7.95	574.22	149.44	9.67	1.52	1.44	7.12	5.73	
8	3.73	5.16	3.73	109.12	8.16	669.96	111.70	9.45	1.52	1.44	7.32	5.93	
9	4.08	4.98	4.61	110.41	7.32	264.35	101.49	9.23	1.44	1.44	6.71	5.93	
10	4.43	4.98	20.05	109.12	6.92	150.84	92.36	9.01	1.44	1.44	6.32	5.54	
11	4.43	5.54	49.20	77.95	6.71	124.84	75.62	8.80	1.44	1.44	4.61	4.79	
12	5.16	5.73	49.20	25.07	7.32	119.54	51.98	8.58	1.44	1.44	2.75	3.39	
13	5.54	5.93	17.92	10.57	8.16	106.56	54.09	8.58	1.44	1.44	2.59	2.90	
14	5.93	6.12	11.49	9.23	9.01	49.89	57.66	8.58	1.44	1.79	2.75	3.07	
15	6.51	6.32	9.89	7.32	9.01	136.99	59.83	7.74	1.44	2.14	3.39	7.12	
16	6.92	6.51	10.57	6.51	8.58	240.25	60.56	6.92	1.44	2.90	4.79	7.53	
17	7.32	6.51	11.49	5.16	8.37	289.07	61.29	6.51	1.44	3.73	6.32	7.12	
18	7.53	6.32	12.90	4.25	8.16	274.87	54.80	6.32	1.44	4.79	7.95	6.51	
19	7.95	6.12	15.36	3.90	7.95	446.56	40.46	6.12	1.44	5.16	9.45	6.51	
20	8.16	5.93	13.87	3.73	7.74	1099.01	27.99	5.93	1.44	5.54	9.89	6.71	
21	8.37	5.93	11.95	3.73	8.16	1890.74	18.45	5.35	1.44	5.54	10.12	6.71	
22	8.58	5.73	9.01	4.61	9.23	2053.86	15.86	4.61	1.44	5.35	10.34	6.71	
23	8.58	5.73	7.32	5.35	10.12	2090.52	12.90	3.90	1.44	5.35	9.67	6.71	
24	8.37	5.93	6.71	5.73	11.72	2402.72	10.34	3.23	1.44	5.16	9.67	6.92	
25	7.95	5.93	6.51	5.73	54.80	2817.73	9.01	2.59	1.44	5.16	9.67	6.92	
26	7.53	6.12	6.32	5.54	118.22	3112.38	8.37	2.44	1.44	5.16	9.45	7.12	
27	7.32	6.51	6.12	5.73	192.39	2659.13	8.16	2.29	1.44	4.79	9.45	7.12	
28	7.12	6.92	5.93	6.12	211.84	1304.19	8.16	2.29	1.44	4.43	9.23	6.51	
29	6.92	7.32	5.73	6.51	213.48	646.49	8.37	2.14	1.44	4.43	9.23	5.93	
30	6.92	7.74	5.73	7.32	223.42	372.90	8.37	2.14	1.44	4.08		5.73	
31		7.74		7.53	289.07		8.37		1.44	3.73		5.73	
<b>Total</b>	195.29	190.44	339.00	1095.69	1489.83	25050.29	2350.29	196.94	46.27	97.95	199.96	191.56	31443.51 Tonday
<b>Mean</b>	6.51	6.14	11.30	35.34	48.06	835.01	75.82	6.56	1.49	3.16	6.90	6.18	85.91 Ton/day
<b>Max</b>	8.58	7.74	49.20	156.49	289.07	3112.38	260.87	9.67	1.94	5.54	10.34	9.01	3112.38 Ton/day
<b>Min</b>	3.73	4.98	3.39	3.73	4.98	49.89	8.16	2.14	1.44	1.44	2.59	2.90	1.44 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	203 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	1999-2019		
<b>Number of observation</b>	327		
<b>R-Square</b>	0.7189		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.0883 QW^{0.90440}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.79	17.18	15.14	65.78	64.02	77.11	71.04	72.78	70.16	62.25	41.51	25.76	
2	32.16	16.50	14.45	64.90	64.02	85.14	73.65	72.78	70.16	62.25	41.51	25.76	
3	32.16	15.14	14.45	66.66	64.02	87.42	77.11	71.91	70.16	61.37	40.58	25.11	
4	31.52	15.14	13.76	82.85	63.14	104.32	77.11	71.91	69.29	60.48	39.66	24.46	
5	30.89	15.14	13.07	82.85	63.14	97.60	77.11	71.91	68.41	60.48	39.66	23.81	
6	30.25	14.45	12.37	78.26	64.90	90.82	79.42	71.91	68.41	59.60	38.73	23.16	
7	30.25	13.76	11.67	75.96	65.78	86.28	80.56	71.04	68.41	58.71	37.80	23.16	
8	30.25	12.37	12.37	73.65	66.66	82.85	90.82	71.91	68.41	58.71	37.17	22.50	
9	29.62	11.67	13.07	69.29	67.54	81.71	90.82	73.65	68.41	57.82	37.17	21.85	
10	28.98	11.67	15.82	68.41	68.41	97.60	94.22	77.11	68.41	56.92	36.55	21.19	
11	28.34	13.76	17.85	68.41	66.66	142.72	91.96	69.29	68.41	56.92	35.93	20.52	
12	27.70	13.76	19.19	68.41	70.16	105.43	90.82	72.78	68.41	56.03	35.30	19.86	
13	27.05	14.45	19.19	68.41	70.16	95.34	97.60	69.29	68.41	55.14	35.30	19.19	
14	26.41	14.45	18.52	68.41	71.91	90.82	98.72	67.54	68.41	55.14	34.67	18.52	
15	25.76	14.45	18.52	69.29	82.85	94.22	91.96	66.66	67.54	54.24	34.05	19.86	
16	25.11	15.14	19.19	69.29	81.71	89.69	82.85	66.66	67.54	53.34	33.42	21.19	
17	24.46	15.82	21.85	68.41	87.42	90.82	78.26	65.78	67.54	52.44	32.79	21.19	
18	23.16	15.82	23.81	68.41	94.22	102.08	81.71	67.54	68.41	52.44	32.16	20.52	
19	22.50	15.82	24.46	68.41	81.71	96.47	79.42	70.16	68.41	51.54	31.52	19.86	
20	21.85	15.82	25.11	68.41	87.42	103.20	78.26	71.04	68.41	51.54	31.52	19.86	
21	21.19	15.82	29.62	68.41	95.34	108.77	77.11	71.04	67.54	50.64	30.89	19.19	
22	20.52	15.82	35.30	68.41	80.56	262.58	75.96	71.04	67.54	49.73	30.25	18.52	
23	22.50	15.14	41.51	67.54	79.42	117.63	75.96	71.04	66.66	48.83	29.62	17.85	
24	22.50	14.45	48.83	67.54	84.00	106.55	74.80	71.04	66.66	47.92	28.98	17.18	
25	21.85	14.45	51.54	68.41	77.11	97.60	74.80	71.04	65.78	47.92	28.34	16.50	
26	21.19	13.76	55.14	68.41	77.11	88.55	74.80	70.16	65.78	47.01	27.70	15.82	
27	19.86	13.07	58.71	66.66	80.56	81.71	74.80	70.16	65.78	46.10	27.05	15.14	
28	19.19	13.07	64.90	65.78	80.56	80.56	72.78	70.16	64.90	45.18	27.05	14.45	
29	18.52	15.14	74.80	65.78	78.26	81.71	72.78	70.16	64.02	45.18	26.41	13.07	
30	17.85	14.45	68.41	64.90	77.11	78.26	72.78	70.16	64.02	43.35		12.37	
31		14.45		64.02	77.11		71.91		63.14	42.43		11.67	
Total	766.38	451.93	872.62	2150.33	2332.99	3005.56	2501.90	2119.65	2093.54	1651.65	983.29	609.09	19538.93 Tonday
Mean	25.55	14.58	29.09	69.37	75.26	100.19	80.71	70.65	67.53	53.28	33.91	19.65	53.39 Ton/day
Max	32.79	17.18	74.80	82.85	95.34	262.58	98.72	77.11	70.16	62.25	41.51	25.76	262.58 Ton/day
Min	17.85	11.67	11.67	64.02	63.14	77.11	71.04	65.78	63.14	42.43	26.41	11.67	11.67 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	128 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1986-Cont'd		
<b>Actual Measurement</b>	1986-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.8732		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.5600 QW^{1.42450}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	0.58	1.45	2.52	8.92	92.01	41.46	2.78	2.39	1.56	0.94	0.50	
2	0.58	0.58	1.45	3.05	8.18	257.09	41.46	2.78	2.39	1.56	0.94	0.50	
3	0.58	0.58	1.45	194.53	9.67	494.73	45.05	2.78	2.39	1.56	0.94	0.42	
4	0.58	0.58	1.45	176.08	8.92	225.16	50.59	2.78	2.39	1.56	0.94	0.42	
5	0.58	0.58	1.34	130.78	8.18	120.11	72.47	2.78	2.39	1.45	0.94	0.35	
6	0.58	0.58	1.34	62.24	17.24	103.44	98.82	2.78	2.39	1.45	0.94	0.35	
7	0.58	0.58	1.24	74.57	13.29	94.26	115.27	2.78	2.39	1.45	0.94	0.28	
8	0.58	0.58	1.24	29.63	12.05	89.77	108.13	2.78	2.27	1.45	0.94	0.28	
9	0.58	0.58	1.24	12.05	9.67	78.83	122.55	2.78	2.27	1.45	0.84	0.28	
10	0.58	0.58	5.43	15.01	209.68	3442.68	76.69	2.78	2.27	1.45	0.84	0.28	
11	0.58	0.58	3.75	13.29	154.67	504.65	60.25	2.78	2.27	1.45	0.84	0.22	
12	0.58	0.58	3.18	7.46	176.08	217.38	56.33	2.78	2.27	1.45	0.75	0.22	
13	0.58	0.58	2.78	6.42	130.78	198.28	50.59	2.78	2.27	1.45	0.75	0.22	
14	0.58	0.58	2.78	5.43	140.88	80.98	46.87	2.78	2.27	1.34	0.67	0.22	
15	0.58	0.58	2.91	4.80	108.13	78.83	41.46	2.78	2.14	1.34	0.67	0.22	
16	0.58	0.58	5.11	4.19	94.26	60.25	39.70	2.78	2.14	1.34	0.67	0.75	
17	0.58	0.58	29.63	3.89	217.38	62.24	34.56	2.78	2.14	1.24	0.58	0.75	
18	0.58	0.58	7.46	3.75	122.55	70.39	17.24	2.78	2.14	1.24	0.58	0.67	
19	0.58	0.58	5.75	3.75	89.77	62.24	13.29	2.78	2.14	1.14	0.58	0.67	
20	0.58	0.58	4.80	3.60	78.83	78.83	10.84	2.78	2.14	1.14	0.58	0.58	
21	0.58	0.58	4.04	3.75	241.96	103.44	9.29	2.78	1.79	1.14	0.50	0.58	
22	0.58	0.84	3.32	5.75	122.55	98.82	8.18	2.78	1.79	1.14	0.50	0.50	
23	0.58	0.94	2.91	5.75	190.79	89.77	7.46	2.78	1.79	1.04	0.50	0.50	
24	0.58	1.04	2.91	5.75	127.47	80.98	7.11	2.78	1.67	1.04	0.50	0.50	
25	0.58	0.94	2.78	6.42	241.96	76.69	6.76	2.78	1.67	1.04	0.50	0.42	
26	0.58	0.94	2.78	11.24	217.38	68.32	6.42	2.65	1.67	0.94	0.50	0.42	
27	0.58	0.94	2.65	19.08	209.68	64.25	5.75	2.52	1.67	0.94	0.50	0.35	
28	0.58	0.84	2.65	31.25	105.78	64.25	4.80	2.39	1.56	0.94	0.50	0.35	
29	0.58	0.94	2.65	10.84	60.25	62.24	4.49	2.39	1.56	0.94	0.50	0.35	
30	0.58	1.14	2.65	10.06	103.44	58.28	4.49	2.39	1.56	0.94	0.50	0.35	
31		1.45		9.29	108.13		4.19		1.56	0.94		0.35	
Total	17.40	22.19	115.12	876.22	3348.52	7179.19	1212.56	81.84	63.75	39.11	20.37	12.85	12989.12 Tonday
Mean	0.58	0.72	3.84	28.27	108.02	239.31	39.11	2.73	2.06	1.26	0.70	0.41	35.49 Ton/day
Max	0.58	1.45	29.63	194.53	241.96	3442.68	122.55	2.78	2.39	1.56	0.94	0.75	3442.68 Ton/day
Min	0.58	0.58	1.24	2.52	8.18	58.28	4.19	2.39	1.56	0.94	0.50	0.22	0.22 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	126 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1986-Cont'd		
<b>Actual Measurement</b>	1986-Cont'd		
<b>Using Rating Curve Water Year</b>	1998-2019		
<b>Number of observation</b>	325		
<b>R-Square</b>	0.8108		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.6198 QW^{1.16660}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.24	1.67	9.55	7.45	12.47	6.78	3.24	2.38	1.42	1.25	0.52	
2	0.42	0.16	1.58	9.55	7.45	25.36	6.78	2.83	2.29	1.42	1.25	0.52	
3	0.42	0.14	1.50	36.21	7.45	21.19	6.12	3.24	2.29	1.33	1.25	0.52	
4	0.72	0.14	1.33	36.21	7.45	47.56	6.12	2.93	2.29	1.25	1.25	0.50	
5	0.64	0.20	1.17	21.19	7.45	54.57	6.43	2.93	2.38	1.33	1.25	0.50	
6	0.62	0.31	1.11	16.33	7.45	30.72	7.45	2.93	2.47	1.33	1.25	0.47	
7	1.17	0.31	1.03	13.20	7.45	24.52	8.49	2.93	2.47	1.25	1.25	0.47	
8	1.06	0.24	1.17	12.09	7.45	19.55	13.20	2.83	2.56	1.25	1.25	0.47	
9	0.93	0.24	6.12	11.37	7.45	19.55	19.55	2.74	2.65	1.25	1.25	0.47	
10	0.74	2.02	5.13	11.00	11.71	32.90	28.77	2.74	2.47	1.25	1.25	0.47	
11	0.62	2.93	6.43	10.29	11.37	51.05	22.01	2.65	2.47	1.25	1.25	0.47	
12	0.50	1.93	7.45	9.55	10.29	36.21	22.01	2.65	2.20	1.25	1.25	0.40	
13	0.42	2.93	6.78	9.55	10.29	24.52	27.06	2.65	2.38	1.25	1.25	0.40	
14	0.42	2.47	6.43	9.55	10.29	17.13	19.55	2.65	2.38	1.25	1.25	0.40	
15	0.42	2.29	6.43	9.55	30.72	26.21	14.75	2.56	2.38	1.25	1.25	0.38	
16	0.42	2.02	6.43	9.22	17.13	22.01	11.71	2.56	2.29	1.25	1.25	0.38	
17	0.42	2.02	8.17	8.85	40.70	30.72	9.92	2.56	2.29	1.25	1.25	0.38	
18	0.42	1.93	15.54	8.85	28.77	29.64	8.85	2.56	2.20	1.25	1.25	0.38	
19	0.40	1.84	13.20	8.85	18.74	28.77	7.45	2.56	2.02	1.25	1.25	0.31	
20	0.38	1.67	12.47	8.85	44.11	36.21	6.12	2.56	2.11	1.25	1.25	0.31	
21	0.31	1.50	11.37	8.85	46.41	38.45	6.12	2.47	2.11	1.25	1.25	0.24	
22	0.31	1.50	11.00	8.17	27.91	46.41	6.12	2.47	2.11	1.25	1.25	0.24	
23	0.35	2.29	10.62	8.17	22.01	32.90	5.78	2.47	2.02	1.25	1.25	0.20	
24	0.42	2.29	10.29	8.17	22.84	24.52	5.44	2.47	2.02	1.25	1.25	0.20	
25	0.42	2.20	9.55	8.17	16.33	14.75	4.80	2.47	1.84	1.25	1.25	0.18	
26	0.38	2.02	9.55	8.17	22.01	12.09	4.47	2.38	1.93	1.25	1.25	0.18	
27	0.35	1.84	9.55	7.81	17.13	9.92	4.17	2.38	1.84	1.25	1.25	0.16	
28	0.35	1.84	9.55	7.81	13.97	8.49	3.85	2.38	1.67	1.25	1.25	0.14	
29	0.31	2.02	9.55	7.81	12.47	7.45	3.53	2.38	1.67	1.25	1.17	0.06	
30	0.29	1.84	9.55	7.45	12.47	7.13	3.53	2.29	1.58	1.25		0.00	
31		1.67		7.45	12.47		3.53		1.50	1.25		0.00	
Total	15.05	47.04	211.72	357.84	527.19	792.97	310.46	79.46	67.26	39.33	36.17	10.32	2494.81 Tonday
Mean	0.50	1.52	7.06	11.54	17.01	26.43	10.01	2.65	2.17	1.27	1.25	0.33	6.82 Ton/day
Max	1.17	2.93	15.54	36.21	46.41	54.57	28.77	3.24	2.65	1.42	1.25	0.52	54.57 Ton/day
Min	0.29	0.14	1.03	7.45	7.45	7.13	3.53	2.29	1.50	1.25	1.17	0.00	0.00 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Klong 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
<b>Drainage Area</b>	779 sq.km.			
<b>Method of sampling</b>	Depth Integrating			
<b>Instrument Used</b>	US.D-49			
<b>Period of Available Records</b>	1978-Cont'd			
<b>Actual Measurement</b>	1978-Cont'd			
<b>Using Rating Curve Water Year</b>	2019			
<b>Number of observation</b>	32			
<b>R-Square</b>	0.8291			
<b>Remarks</b>	Continued Sediment Station			

$$QS = 2.8242 QW^{1.26200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	231.17	25.96	77.52	2604.26	351.33	1736.37	328.20	86.12	21.53	12.26	8.98	285.76	
2	389.58	21.53	59.57	1023.12	898.80	1615.60	351.33	78.94	20.99	12.26	12.74	283.90	
3	477.72	21.53	51.63	927.19	1693.89	2199.49	368.88	87.58	20.45	11.30	12.74	256.35	
4	453.03	23.72	45.20	1170.55	758.56	2856.69	386.61	108.41	19.38	10.36	12.74	227.62	
5	413.52	25.96	60.91	1852.74	2596.91	2969.57	269.13	84.68	18.85	9.89	13.72	222.31	
6	398.52	24.84	348.42	2589.56	4746.13	2164.06	322.47	73.29	18.85	8.98	13.72	220.55	
7	496.40	24.28	210.03	1200.52	4256.90	1414.58	331.08	67.73	19.91	8.53	13.72	211.78	
8	575.82	29.40	225.84	664.22	2320.86	1291.37	308.24	64.99	23.72	8.98	13.72	210.03	
9	159.14	32.32	203.08	480.82	2065.48	1013.44	250.90	52.94	19.91	8.53	13.23	211.78	
10	90.49	36.52	282.05	357.16	3805.33	2700.20	231.17	46.47	12.74	8.53	11.78	220.55	
11	64.99	58.23	322.47	269.13	3484.47	3945.86	249.10	37.12	13.23	9.43	11.30	236.52	
12	52.94	83.24	259.99	222.31	2871.68	2235.05	210.03	35.91	13.23	11.30	10.83	241.89	
13	50.33	147.71	213.52	210.03	2079.50	1042.53	263.64	50.33	17.80	12.26	11.78	249.10	
14	46.47	116.06	225.84	194.46	1651.64	1736.37	218.79	42.68	15.23	10.83	10.83	256.35	
15	38.96	89.03	179.14	162.44	1316.84	2292.18	179.14	38.96	15.23	8.98	9.89	270.97	
16	38.96	105.37	142.86	144.47	1052.27	3822.83	141.25	34.71	15.73	7.64	9.43	272.81	
17	38.96	152.58	208.29	167.42	1321.95	3928.24	96.39	31.15	15.23	7.20	9.43	276.50	
18	37.73	133.27	1160.60	611.52	1958.16	2841.70	97.88	29.98	13.72	6.77	9.89	274.65	
19	35.31	117.60	2436.30	1865.08	1091.41	1970.64	108.41	31.73	13.23	6.77	25.96	267.30	
20	30.56	76.11	861.23	1526.23	824.01	2400.10	106.89	32.32	17.80	7.64	59.57	256.35	
21	28.24	60.91	316.77	621.33	1332.18	3052.92	81.80	31.15	25.96	8.08	112.98	258.16	
22	26.53	47.75	213.52	493.28	950.99	2611.61	69.11	30.56	24.84	8.53	206.55	247.29	
23	25.96	40.19	180.83	348.42	657.59	2320.86	106.89	28.24	11.78	20.45	267.30	250.90	
24	25.40	45.20	287.62	474.62	1032.82	1693.89	94.91	27.67	9.89	20.99	276.50	256.35	
25	25.40	49.04	295.09	856.56	3221.04	1057.15	80.37	27.67	9.89	20.99	285.76	256.35	
26	26.53	55.57	308.24	1180.52	3113.84	814.75	64.99	27.10	12.26	20.99	345.51	243.69	
27	31.15	126.95	477.72	1066.91	1399.05	618.06	91.96	27.10	10.83	20.45	363.01	231.17	
28	31.73	139.65	1327.06	707.70	946.22	456.10	64.99	25.96	12.74	14.72	363.01	227.62	
29	32.32	194.46	2781.94	521.55	1445.74	401.51	108.41	24.84	16.24	0.00	302.59	227.62	
30	30.56	142.86	2826.74	453.03	2213.70	339.72	114.52	23.72	13.23	0.00		231.17	
31		94.91		265.47	1754.64		100.86		12.74	0.89		229.39	
<b>Total</b>	4404.42	2342.75	16590.02	25232.62	59213.93	59543.44	5798.34	1390.05	507.16	324.53	2819.21	7612.78	185779.25 Tonday
<b>Mean</b>	146.81	75.57	553.00	813.96	1910.13	1984.78	187.04	46.34	16.36	10.47	97.21	245.57	507.59 Ton/day
<b>Max</b>	575.82	194.46	2826.74	2604.26	4746.13	3945.86	386.61	108.41	25.96	20.99	363.01	285.76	4746.13 Ton/day
<b>Min</b>	25.40	21.53	45.20	144.47	351.33	339.72	64.99	23.72	9.89	0.00	8.98	210.03	0.00 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlung 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.

	<b>Ban</b> Khao Chik	<b>Amphoe</b> Klaeng	<b>Changwat</b> Rayong
<b>Drainage Area</b>	1,236 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	1996-2019		
<b>Number of observation</b>	427		
<b>R-Square</b>	0.7866		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.0877 QW^{1.34330}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.88	22.59	50.44	57.33	29.75	26.83	52.14	28.28	23.98	25.39	26.83	17.26	
2	26.83	22.59	57.33	68.07	31.24	26.83	45.42	22.59	23.98	22.59	23.98	15.98	
3	32.75	23.98	47.08	62.64	34.27	26.83	48.75	17.26	23.98	19.88	22.59	13.51	
4	28.28	22.59	50.44	71.75	29.75	29.75	52.14	26.83	23.98	21.22	21.22	11.14	
5	31.24	22.59	75.48	71.75	28.28	31.24	110.05	31.24	23.98	22.59	18.55	18.55	
6	29.75	25.39	135.55	102.88	29.75	47.08	292.43	31.24	23.98	23.98	15.98	32.75	
7	29.75	29.75	110.05	68.07	48.75	50.44	284.49	29.75	23.98	25.39	12.31	25.39	
8	34.27	26.83	169.24	50.44	69.90	37.37	241.88	28.28	22.59	25.39	8.90	22.59	
9	55.58	23.98	86.96	42.16	50.44	31.24	786.09	28.28	23.98	23.98	6.80	22.59	
10	42.16	22.59	77.36	38.95	38.95	31.24	261.03	29.75	22.59	19.88	4.85	19.88	
11	31.24	21.22	73.61	35.81	34.27	32.75	264.91	31.24	22.59	18.55	2.29	15.98	
12	29.75	23.98	116.30	31.24	31.24	40.55	158.93	29.75	22.59	14.73	0.90	12.31	
13	31.24	42.16	92.85	29.75	32.75	29.75	94.83	26.83	22.59	13.51	0.00	10.01	
14	23.98	38.95	62.64	26.83	60.85	26.83	119.46	28.28	22.59	14.73	0.00	6.80	
15	19.88	34.27	52.14	23.98	40.55	34.27	96.83	28.28	22.59	18.55	0.00	4.85	
16	18.55	43.78	42.16	22.59	32.75	59.08	75.48	26.83	23.98	23.98	0.00	3.94	
17	19.88	52.14	52.14	22.59	32.75	183.23	59.08	26.83	22.59	22.59	0.00	1.55	
18	19.88	73.61	102.88	22.59	50.44	328.81	45.42	23.98	22.59	18.55	0.00	0.36	
19	15.98	38.95	60.85	23.98	47.08	158.93	29.75	17.26	22.59	14.73	0.00	0.00	
20	11.14	31.24	43.78	23.98	42.16	138.83	34.27	3.94	23.98	10.01	17.26	0.00	
21	13.51	28.28	40.55	37.37	53.85	204.73	37.37	0.00	22.59	6.80	31.24	0.00	
22	21.22	26.83	35.81	34.27	35.81	245.68	35.81	0.00	22.59	15.98	28.28	0.00	
23	22.59	26.83	35.81	29.75	32.75	1047.03	32.75	0.00	22.59	29.75	28.28	3.09	
24	32.75	32.75	35.81	28.28	31.24	452.99	31.24	0.00	26.83	23.98	23.98	22.59	
25	31.24	32.75	38.95	26.83	35.81	201.11	29.75	0.00	35.81	26.83	21.22	26.83	
26	29.75	38.95	35.81	28.28	31.24	113.16	28.28	0.00	31.24	25.39	23.98	28.28	
27	28.28	40.55	35.81	29.75	29.75	90.87	23.98	4.85	29.75	26.83	22.59	28.28	
28	23.98	37.37	34.27	48.75	28.28	86.96	25.39	22.59	32.75	26.83	19.88	28.28	
29	21.22	43.78	31.24	48.75	26.83	73.61	26.83	25.39	26.83	26.83	18.55	22.59	
30	21.22	71.75	53.85	35.81	26.83	57.33	31.24	25.39	28.28	26.83		18.55	
31		59.08		31.24	26.83		35.81		28.28	28.28		15.98	
Total	797.77	1082.10	1937.19	1276.46	1155.14	3945.35	3491.83	594.94	773.24	664.55	400.46	449.91	16568.94 Tonday
Mean	26.59	34.91	64.57	41.18	37.26	131.51	112.64	19.83	24.94	21.44	13.81	14.51	45.27 Ton/day
Max	55.58	73.61	169.24	102.88	69.90	1047.03	786.09	31.24	35.81	29.75	31.24	32.75	1047.03 Ton/day
Min	11.14	21.22	31.24	22.59	26.83	26.83	23.98	0.00	22.59	6.80	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	647 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1978-Cont'd		
<b>Actual Measurement</b>	1978-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8032		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.4380 QW^{1.67510}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.47	9.31	16.73	658.18	45.55	382.60	177.19	14.87	3.74	2.76	2.76	4.10	
2	4.47	7.85	13.09	476.74	121.93	328.06	183.83	12.24	3.07	2.76	2.76	4.10	
3	4.47	6.93	10.33	526.90	96.20	286.89	139.42	20.73	2.76	2.46	2.76	3.40	
4	4.47	6.93	7.85	608.59	70.69	349.47	190.58	20.73	2.17	2.76	2.76	3.40	
5	4.85	6.49	4.85	726.71	67.31	296.98	170.64	17.70	2.46	1.90	4.10	5.24	
6	8.81	6.49	5.24	1398.99	74.14	539.76	133.49	15.79	1.64	1.40	4.10	4.47	
7	9.31	6.49	11.41	929.00	96.20	382.60	139.42	13.97	0.44	2.17	4.10	3.40	
8	17.70	6.49	14.87	489.09	88.59	307.20	139.42	13.97	0.14	2.76	4.47	3.74	
9	13.09	6.49	14.87	349.47	116.31	225.74	100.10	10.33	0.16	2.76	4.47	3.74	
10	12.24	6.49	25.06	233.06	139.42	225.74	100.10	10.86	0.96	2.76	4.47	3.40	
11	7.85	6.06	45.55	164.20	177.19	349.47	92.36	9.82	2.76	3.74	3.40	3.07	
12	7.85	6.06	60.75	121.93	233.06	286.89	88.59	9.31	2.46	4.10	3.07	3.40	
13	8.32	6.49	74.14	104.06	197.42	190.58	197.42	8.32	2.46	4.10	3.40	3.07	
14	7.38	8.32	84.88	88.59	211.39	240.48	108.08	6.93	2.46	3.74	3.07	3.40	
15	7.38	10.86	84.88	74.14	145.46	1254.27	81.23	6.49	2.46	3.40	3.40	3.40	
16	7.38	10.33	57.57	63.99	133.49	797.95	74.14	5.64	2.46	3.40	3.74	3.07	
17	7.38	10.33	88.59	57.57	121.93	405.35	63.99	5.24	2.46	3.40	3.74	3.40	
18	7.38	10.33	225.74	60.75	133.49	317.56	54.46	6.06	2.76	3.40	3.40	3.74	
19	6.93	9.31	177.19	57.57	104.06	349.47	48.45	5.64	2.46	3.40	4.47	3.74	
20	6.49	8.32	127.65	51.42	100.10	565.84	45.55	4.85	2.46	3.07	5.24	3.40	
21	6.06	8.32	88.59	37.30	96.20	565.84	39.97	4.47	2.46	3.07	4.47	4.47	
22	6.49	8.81	112.16	29.72	81.23	964.63	34.69	4.47	0.96	3.07	4.10	5.24	
23	6.93	8.81	145.46	25.06	100.10	1971.71	27.35	4.10	0.14	3.40	4.10	4.47	
24	7.38	8.32	183.83	20.73	139.42	1851.31	16.73	4.10	0.04	3.74	3.40	4.10	
25	7.38	8.81	104.06	32.17	204.36	726.71	9.82	3.74	0.04	3.74	4.10	4.10	
26	7.85	9.31	127.65	57.57	349.47	428.63	17.70	3.40	0.08	3.74	3.40	3.40	
27	9.31	9.31	96.20	42.73	190.58	296.98	18.69	3.40	0.14	3.40	3.40	4.10	
28	10.33	11.41	116.31	37.30	145.46	218.52	17.70	3.40	0.77	2.76	3.40	3.40	
29	7.38	20.73	145.46	39.97	157.85	177.19	19.70	3.07	2.17	2.46	3.40	3.40	
30	6.93	18.69	393.91	45.55	307.20	151.61	20.73	3.07	2.76	2.46		3.40	
31		19.70		34.69	240.48		15.79		2.76	2.46		3.40	
Total	234.26	288.59	2664.87	7643.74	4486.28	15436.03	2567.33	256.71	55.06	94.54	107.45	116.16	33951.02 Tonday
Mean	7.81	9.31	88.83	246.57	144.72	514.53	82.82	8.56	1.78	3.05	3.71	3.75	92.76 Ton/day
Max	17.70	20.73	393.91	1398.99	349.47	1971.71	197.42	20.73	3.74	4.10	5.24	5.24	1971.71 Ton/day
Min	4.47	6.06	4.85	20.73	45.55	151.61	9.82	3.07	0.04	1.40	2.76	3.07	0.04 Ton/day



## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Klong 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 Klong Phayat near Wat Chaman.

	<b>Ban Chaman</b>	<b>Amphoe Makhm</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	229 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1978-Cont'd		
<b>Actual Measurement</b>	1978-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8128		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.7656 QW^{1.39600}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.88	8.85	9.94	239.10	36.92	527.37	69.79	17.83	4.87	3.36	3.16	8.85	
2	29.12	6.04	8.85	255.68	48.66	493.44	53.07	15.90	5.10	2.57	4.65	7.79	
3	27.63	6.04	6.53	520.53	48.66	480.05	43.51	19.83	5.10	2.39	5.56	5.56	
4	23.99	5.80	5.80	217.50	34.52	517.12	45.21	22.58	3.78	2.57	5.56	7.28	
5	17.83	5.80	6.28	286.86	110.10	301.37	52.18	12.23	3.78	1.68	13.42	8.85	
6	13.42	4.65	6.78	264.08	72.71	352.17	57.58	9.94	3.78	1.52	50.41	7.28	
7	12.82	5.10	6.78	130.35	57.58	255.68	45.21	8.85	3.78	2.03	34.52	7.03	
8	14.03	5.10	6.28	88.78	161.24	186.22	41.00	7.28	3.99	1.85	5.80	6.78	
9	14.03	6.53	16.53	54.86	389.35	212.20	38.54	11.64	3.99	1.20	5.56	7.28	
10	9.39	7.03	80.63	59.42	541.11	313.12	36.92	12.23	3.99	1.36	5.56	7.28	
11	6.53	20.50	46.07	33.74	364.45	230.94	37.72	11.07	3.99	3.36	5.33	6.53	
12	5.80	12.82	32.18	26.89	358.30	181.15	38.54	9.94	3.99	2.03	4.87	8.85	
13	7.28	15.90	24.71	24.71	460.17	121.23	51.29	7.28	3.99	1.05	6.53	6.78	
14	8.31	12.23	19.83	22.58	220.17	896.82	39.35	7.03	3.99	1.68	7.28	6.78	
15	11.64	11.07	29.88	22.58	137.31	800.82	36.92	6.53	3.78	0.99	5.10	9.94	
16	11.64	11.64	18.49	22.58	134.98	313.12	33.74	6.53	3.78	1.20	5.10	11.07	
17	11.07	11.64	20.50	17.83	264.08	228.23	30.64	7.28	3.57	0.52	4.65	9.39	
18	6.78	9.94	163.69	105.73	349.12	214.84	26.15	8.31	3.36	0.40	5.10	10.50	
19	6.04	6.53	228.23	139.66	137.31	236.37	26.15	7.03	3.57	0.36	6.28	10.50	
20	6.04	6.04	53.96	57.58	123.49	313.12	26.15	7.79	3.36	1.68	25.43	7.79	
21	7.03	6.28	32.95	35.32	178.62	370.63	23.28	6.28	2.96	4.65	8.85	15.27	
22	7.03	6.04	28.37	29.12	134.98	582.95	17.18	7.79	2.77	14.03	8.31	12.82	
23	10.50	5.80	23.99	21.88	176.11	586.47	15.27	5.56	3.16	14.03	29.12	9.39	
24	8.31	6.28	33.74	25.43	470.08	286.86	15.27	6.04	2.96	4.65	11.07	8.85	
25	7.79	6.04	32.18	71.73	470.08	161.24	15.27	5.56	2.96	2.96	9.39	9.39	
26	9.94	26.89	28.37	86.72	440.52	114.52	15.27	5.33	2.96	3.78	22.58	8.31	
27	8.31	40.18	26.89	107.91	261.27	97.15	16.53	4.87	3.57	3.78	27.63	7.28	
28	7.28	26.15	69.79	88.78	255.68	97.15	14.03	4.87	3.16	2.77	9.94	6.78	
29	7.28	26.15	250.12	53.07	395.65	123.49	30.64	4.87	3.16	5.80	6.78	7.28	
30	15.90	16.53	715.44	47.79	520.53	92.94	16.53	4.87	2.57	27.63		7.03	
31		11.64		32.18	551.49		14.03		2.57	4.87		7.03	
Total	354.64	357.23	2033.78	3190.97	7905.24	9688.78	1022.96	273.14	112.34	122.75	343.54	261.54	25666.91 Tonday
Mean	11.82	11.52	67.79	102.93	255.01	322.96	33.00	9.10	3.62	3.96	11.85	8.44	70.13 Ton/day
Max	29.12	40.18	715.44	520.53	551.49	896.82	69.79	22.58	5.10	27.63	50.41	15.27	896.82 Ton/day
Min	5.80	4.65	5.80	17.83	34.52	92.94	14.03	4.87	2.57	0.36	3.16	5.56	0.36 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Chamkho</b>	<b>Amphoe Khao Chamao</b>	<b>Changwat Rayong</b>
<b>Drainage Area</b>	201 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1988-Cont'd		
<b>Actual Measurement</b>	1988-Cont'd		
<b>Using Rating Curve Water Year</b>	1996-2019		
<b>Number of observation</b>	345		
<b>R-Square</b>	0.7289		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.6016 QW^{1.58900}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1			0.40	9.16	3.32	9.16	2.28	7.60	276.20	101.00	0.35		
2			0.07	7.98	8.76	7.98	2.28	6.86	267.67	92.28	0.20		
3			0.04	9.16	5.13	10.41	2.28	6.50	259.24	83.86	0.14		
4			0.04	20.64	2.28	11.27	2.04	6.86	250.91	78.42	0.09		
5			0.03	15.45	2.28	8.76	13.07	6.50	242.69	70.50	0.00		
6			19.55	7.98	1.20	3.60	10.84	6.50	238.61	65.40	0.00		
7			46.47	5.13	5.80	50.98	6.86	6.50	234.56	62.08	0.00		
8			46.47	5.13	5.13	33.90	8.76	6.50	226.54	54.07	0.00		
9			8.76	14.00	2.28	14.00	16.44	6.50	222.57	46.47	0.00		
10			2.28	32.60	2.28	36.57	13.07	6.50	218.62	40.70	0.00		
11			2.04	33.90	1.20	13.53	36.57	6.50	214.70	32.60	0.00		
12			18.49	13.53	0.77	13.07	15.45	309.80	210.81	28.80	0.00		
13		6.86	11.27	5.13	0.77	12.15	15.45	327.89	210.81	26.36	0.00		
14		1.82	9.16	2.28	0.84	8.76	13.07	327.89	206.94	21.74	0.00		
15		1.01	8.76	1.01	0.53	7.98	13.07	327.89	203.10	19.55	0.00		
16		0.77	7.98	0.77	1.20	145.39	12.61	321.82	199.29	19.55	0.00		
17		0.77	8.76	0.62	0.68	24.01	12.61	321.82	195.50	15.45			
18		0.37	113.07	0.40	0.26	24.01	12.15	321.82	191.74	14.48			
19		1.20	14.00	0.35	54.07	271.92	12.15	321.82	188.01	13.07			
20		0.04	4.50	0.40	12.15	13.07	12.15	321.82	184.31	12.61			
21		0.04	13.53	0.40	62.08	271.92	11.71	309.80	180.63	10.84			
22		0.02	8.76	0.26	9.57	145.39	11.71	309.80	180.63	9.99			
23		0.02	8.76	3.05	2.28	898.56	11.27	309.80	176.98	8.76			
24		0.03	8.76	2.28	2.28	173.36	10.84	309.80	169.76	6.86			
25		0.02	2.28	0.77	180.63	83.86	10.41	303.85	155.66	5.13			
26		0.00	2.28	4.81	62.08	15.45	10.84	297.95	145.39	4.19			
27		0.00	11.27	2.28	2.28	8.76	10.41	292.09	138.69	3.05			
28		0.04	8.76	1.01	1.39	2.28	10.41	292.09	138.69	2.28			
29		0.84	18.49	0.77	1.39	0.68	9.99	292.09	138.69	1.60			
30		2.28	21.74	24.01	1.20	1.20	8.76	280.50	132.10	1.20			
31		1.39		2.28	2.28		7.98		113.07	0.77			
Total		17.52	426.77	227.54	438.39	2321.98	347.53	5973.66	6113.11	953.66	0.78		16820.94 Tonday
Mean		0.92	14.23	7.34	14.14	77.40	11.21	199.12	197.20	30.76	0.05		60.07 Ton/day
Max		6.86	113.07	33.90	180.63	898.56	36.57	327.89	276.20	101.00	0.35		898.56 Ton/day
Min		0.00	0.03	0.26	0.26	0.68	2.04	6.50	113.07	0.77	0.00		0.00 Ton/day

**WATER YEAR : 2019**  
**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.**

	<b>Ban Pong Rong Sen</b>	<b>Amphoe Makham</b>	<b>Changwat Chanthaburi</b>
<b>Drainage Area</b>	78 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1984-Cont'd		
<b>Actual Measurement</b>	1984-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8859		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.9878 QW^{1.55670}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.99	8.45	8.45	85.13	28.42	341.70	76.07	16.95	13.22	4.77	3.22	6.51	
2	31.60	8.79	8.11	94.55	49.24	254.98	57.05	15.67	8.45	4.23	3.97	6.82	
3	23.87	8.11	7.14	210.85	34.90	268.80	53.09	22.42	13.22	4.23	3.97	6.82	
4	28.42	8.11	6.51	65.26	25.36	287.63	53.09	19.62	7.46	4.23	3.97	7.14	
5	18.27	8.11	6.82	82.83	82.83	185.83	63.17	16.95	8.45	3.97	26.87	8.11	
6	16.95	8.11	7.78	59.06	59.06	228.14	57.05	18.27	8.79	4.23	117.02	7.46	
7	16.95	8.45	7.78	49.24	43.66	210.85	53.09	16.95	13.22	3.97	53.09	8.45	
8	13.22	8.45	7.78	43.66	127.54	152.37	49.24	8.45	10.93	3.97	4.23	7.78	
9	14.43	8.79	22.42	23.87	316.71	223.77	43.66	13.22	8.45	4.23	3.97	7.14	
10	8.79	8.79	73.86	38.32	215.12	189.92	45.49	13.22	7.78	4.23	3.47	6.82	
11	8.11	18.27	36.60	21.00	169.79	143.92	41.85	13.22	9.84	3.97	3.47	8.45	
12	8.11	13.22	19.62	15.67	146.72	132.92	82.83	13.22	9.84	3.71	2.76	10.93	
13	12.05	9.84	12.05	13.22	297.21	111.88	55.06	16.95	8.79	3.71	7.78	6.82	
14	10.93	8.45	8.79	10.93	124.88	138.38	43.66	15.67	8.45	3.22	7.14	7.14	
15	13.22	8.45	15.67	13.22	87.45	329.12	40.07	15.67	7.46	3.47	4.23	12.05	
16	14.43	7.78	13.22	14.43	76.07	135.64	38.32	18.27	6.51	3.47	3.97	8.79	
17	13.22	8.45	14.43	9.84	158.10	155.23	36.60	16.95	5.62	3.47	4.23	8.45	
18	7.78	8.11	101.85	114.44	178.75	122.24	25.36	16.95	5.33	3.71	4.23	10.93	
19	7.78	7.78	89.80	132.92	85.13	169.79	25.36	14.43	5.33	3.47	15.67	8.11	
20	7.46	6.82	28.42	55.06	89.80	143.92	26.87	14.43	5.33	3.22	43.66	7.14	
21	7.46	7.14	14.43	31.60	99.40	172.76	19.62	8.45	5.04	3.47	7.78	14.43	
22	8.79	6.82	10.93	25.36	99.40	400.37	15.67	8.79	5.04	13.22	7.14	9.84	
23	13.22	6.82	12.05	18.27	99.40	264.17	14.43	10.93	5.04	7.46	7.14	8.79	
24	9.84	6.51	26.87	15.67	306.91	152.37	14.43	14.43	5.33	2.54	6.82	8.45	
25	8.79	7.14	21.00	94.55	232.54	119.62	13.22	9.84	4.77	2.99	6.51	9.84	
26	10.93	26.87	14.43	152.37	149.54	101.85	13.22	9.84	4.49	2.76	8.79	10.93	
27	9.84	45.49	13.22	141.14	138.38	94.55	15.67	8.11	4.49	2.54	6.82	8.45	
28	8.79	19.62	67.37	71.67	155.23	127.54	10.93	13.22	4.23	2.32	6.82	8.45	
29	8.45	12.05	127.54	53.09	241.43	163.91	26.87	9.84	4.23	14.43	7.46	8.79	
30	8.11	8.79	341.70	40.07	297.21	127.54	13.22	12.05	4.23	34.90		8.45	
31		8.11		28.42	297.21		10.93		5.04	2.76		6.51	
Total	399.80	336.69	1146.64	1825.71	4513.39	5651.71	1135.19	422.98	224.40	166.87	386.20	264.79	16474.37 Tonday
Mean	13.33	10.86	38.22	58.89	145.59	188.39	36.62	14.10	7.24	5.38	13.32	8.54	45.01 Ton/day
Max	31.60	45.49	341.70	210.85	316.71	400.37	82.83	22.42	13.22	34.90	117.02	14.43	400.37 Ton/day
Min	7.46	6.51	6.51	9.84	25.36	94.55	10.93	8.11	4.23	2.32	2.76	6.51	2.32 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlung 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
<b>Drainage Area</b>	316 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	2005-Cont'd				
<b>Actual Measurement</b>	2005-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	23				
<b>R-Square</b>	0.8385				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.6747 QW^{1.73550}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.75	95.96	0.36	827.18	90.29	633.02	134.09	143.04	105.73	100.79	39.94	4.28	
2	172.55	92.16	0.32	259.98	205.70	516.64	159.28	132.99	105.73	99.82	36.06	4.28	
3	154.56	92.16	0.08	251.28	402.49	798.77	148.75	131.89	105.73	99.82	32.96	4.15	
4	121.14	96.92	0.17	273.26	149.91	1340.29	119.03	135.20	105.73	98.85	29.98	2.86	
5	112.81	98.85	0.32	591.04	1197.40	1021.95	122.19	132.99	104.74	97.88	26.56	3.31	
6	112.81	97.88	1.44	989.57	2505.35	650.14	158.09	128.63	105.73	96.92	23.84	3.54	
7	134.09	99.82	2.35	291.40	1325.69	434.65	139.65	126.47	105.73	97.88	20.75	4.15	
8	207.03	99.82	3.31	151.07	423.82	321.93	149.91	124.32	94.05	97.88	17.37	3.90	
9	120.08	100.79	5.93	113.84	607.69	223.20	104.74	121.14	34.19	96.92	15.56	3.08	
10	108.74	103.74	14.69	100.79	1834.13	525.46	100.79	114.87	74.17	95.00	11.41	3.31	
11	105.73	107.73	42.62	75.03	1311.16	846.35	103.74	104.74	100.79	95.00	11.02	3.20	
12	102.76	112.81	18.79	56.32	926.14	346.29	84.77	112.81	102.76	100.79	8.48	3.90	
13	101.77	126.47	65.80	48.19	562.39	193.95	92.16	120.08	102.76	100.79	5.36	3.90	
14	100.79	113.84	18.31	39.94	421.13	376.50	81.17	115.90	102.76	98.85	3.66	4.28	
15	101.77	97.88	7.48	31.15	314.77	522.51	57.86	113.84	101.77	96.92	2.06	3.78	
16	102.76	74.17	4.03	26.00	245.55	856.01	45.37	108.74	101.77	95.96	1.78	5.36	
17	100.79	57.86	16.46	29.39	324.33	481.99	86.59	104.74	101.77	95.00	0.86	3.78	
18	99.82	4.41	234.26	207.03	574.60	407.78	154.56	105.73	101.77	91.22	0.36	3.31	
19	97.88	0.46	676.20	566.45	291.40	490.55	152.23	109.75	101.77	86.59	0.14	3.43	
20	97.88	0.11	160.47	224.57	223.20	794.08	153.39	109.75	101.77	82.96	0.00	3.43	
21	96.92	0.41	60.19	159.28	338.90	812.93	125.39	109.75	101.77	77.63	0.24	3.66	
22	95.00	0.00	36.06	122.19	211.02	663.12	135.20	108.74	101.77	72.46	0.67	3.43	
23	89.36	0.00	39.94	75.03	164.05	1232.48	154.56	108.74	101.77	68.26	1.44	3.78	
24	79.39	0.03	51.82	57.86	208.36	780.07	145.31	107.73	100.79	65.80	2.35	3.78	
25	91.22	0.04	39.28	161.66	1074.68	394.62	127.54	107.73	98.85	63.37	2.76	3.90	
26	100.79	0.24	41.27	211.02	502.08	249.12	132.99	106.73	94.05	60.19	5.08	4.28	
27	101.77	3.54	74.17	185.01	259.98	191.38	147.60	106.73	100.79	56.32	4.81	4.03	
28	99.82	11.02	179.98	100.79	200.44	159.28	128.63	106.73	100.79	52.56	4.03	5.36	
29	98.85	3.31	841.54	190.10	249.12	151.07	139.65	107.73	100.79	49.63	4.41	4.81	
30	97.88	1.78	1088.04	127.54	603.51	125.39	145.31	106.73	99.82	46.06		3.54	
31		1.14		65.80	462.24		146.46		99.82	43.30		3.31	
<b>Total</b>	3355.51	1695.35	3725.68	6609.76	18211.52	16541.52	3877.00	3474.96	3062.23	2581.42	313.94	119.11	63568.00 Ton/day
<b>Mean</b>	111.85	54.69	124.19	213.22	587.47	551.38	125.06	115.83	98.78	83.27	10.83	3.84	173.68 Ton/day
<b>Max</b>	207.03	126.47	1088.04	989.57	2505.35	1340.29	159.28	143.04	105.73	100.79	39.94	5.36	2505.35 Ton/day
<b>Min</b>	79.39	0.00	0.08	26.00	90.29	125.39	45.37	104.74	34.19	43.30	0.00	2.86	0.00 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlung 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
<b>Drainge Area</b>	58 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1999-Cont'd		
<b>Actual Measurement</b>	1999-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	26		
<b>R-Square</b>	0.8037		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 2.8774 QW^{1.75200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.49	0.98	1.95	140.46	35.56	315.46	78.49	11.45	2.49	1.46	0.53	0.27	
2	2.49	0.92	1.70	78.49	109.95	464.14	100.50	10.56	2.49	1.39	0.53	0.24	
3	2.58	0.98	1.54	145.85	72.35	720.89	168.29	19.72	2.39	1.32	0.53	0.24	
4	2.39	1.18	1.54	100.50	55.23	699.44	78.49	16.40	2.39	1.32	0.53	0.20	
5	1.78	1.04	13.34	437.66	586.47	420.38	78.49	11.45	2.30	1.25	0.58	0.14	
6	2.78	0.98	29.84	192.10	323.07	323.07	64.50	10.56	2.21	1.25	0.48	0.20	
7	19.72	1.04	27.14	84.85	162.55	217.24	55.23	9.69	2.12	1.18	0.43	0.53	
8	13.34	0.98	12.38	70.35	257.41	151.34	49.96	8.06	2.21	1.18	0.48	0.43	
9	2.21	1.11	10.56	49.96	315.46	119.77	43.30	8.06	2.21	1.18	0.39	0.31	
10	1.70	1.11	44.93	43.30	519.07	217.24	41.70	7.29	2.21	1.11	0.43	0.17	
11	1.39	1.78	35.56	31.23	826.55	145.85	37.05	6.56	2.12	1.18	0.39	0.12	
12	1.25	2.39	17.48	24.56	473.11	87.02	35.56	5.85	2.03	1.54	0.35	0.12	
13	1.18	2.58	8.86	20.89	370.36	70.35	35.56	5.85	2.03	1.39	0.39	0.17	
14	1.11	1.70	13.34	16.40	236.96	236.96	32.64	5.85	2.03	1.25	0.39	0.17	
15	1.46	1.54	8.06	14.33	156.90	204.50	28.48	5.19	2.03	1.18	0.27	0.20	
16	1.95	3.40	5.85	12.38	129.94	293.10	25.83	4.56	1.95	1.11	0.27	1.18	
17	1.25	3.40	23.30	25.83	323.07	210.83	24.56	3.96	1.86	1.11	0.31	0.63	
18	1.11	1.95	129.94	162.55	204.50	210.83	25.83	3.96	1.95	1.04	0.68	0.53	
19	1.04	1.62	70.35	76.42	119.77	710.13	23.30	3.96	1.78	1.04	0.63	0.48	
20	0.92	1.39	34.09	40.13	129.94	586.47	22.08	3.40	1.78	0.98	0.48	0.35	
21	0.92	1.32	18.58	37.05	124.81	500.47	19.72	2.88	1.70	0.92	0.31	0.14	
22	0.85	1.46	14.33	27.14	80.59	764.62	20.89	2.88	1.70	0.92	0.27	0.35	
23	1.04	1.39	12.38	22.08	66.42	576.63	19.72	2.88	1.70	0.92	0.20	0.31	
24	0.98	1.39	11.45	18.58	174.12	362.28	17.48	2.78	1.70	0.85	0.14	0.12	
25	1.25	1.32	10.56	22.08	354.29	278.59	16.40	2.78	1.70	0.92	0.12	0.12	
26	1.46	3.96	46.58	23.30	140.46	192.10	15.35	2.68	1.70	0.85	0.12	0.09	
27	1.32	4.56	49.96	53.45	124.81	145.85	14.33	2.68	1.70	0.80	0.12	0.12	
28	1.11	16.40	140.46	43.30	119.77	109.95	13.34	2.78	1.54	0.74	0.17	0.09	
29	1.11	23.30	285.80	84.85	230.30	95.92	15.35	2.68	1.54	0.63	0.20	0.09	
30	1.04	2.39	354.29	40.13	257.41	84.85	12.38	2.68	1.54	0.58		0.12	
31		2.12		31.23	411.86		11.45		1.46	0.58		0.12	
Total	75.22	91.68	1436.14	2171.43	7493.06	9516.27	1226.25	190.08	60.56	33.17	10.72	8.35	22312.93 Tonday
Mean	2.51	2.96	47.87	70.05	241.71	317.21	39.56	6.34	1.95	1.07	0.37	0.27	60.96 Ton/day
Max	19.72	23.30	354.29	437.66	826.55	764.62	168.29	19.72	2.49	1.54	0.68	1.18	826.55 Ton/day
Min	0.85	0.92	1.54	12.38	35.56	70.35	11.45	2.68	1.46	0.58	0.12	0.09	0.09 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Khlong Wang Suan Luang at Ban Pra Gad , Chanthaburi (Z.63)

Lat 12 - 56 - 47 N Long 101 - 52 - 30 E

Location : on right bank at the bridge on highway.

	Ban Pra Gad	Amphoe Kaeng Hang Maeo	Changwat Chanthaburi
<b>Drainage Area</b>	1,106 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2018-Cont'd		
<b>Actual Measurement</b>	2018-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.8099		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 9.0612 QW^{0.90580}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.75	57.57	54.85	204.45	175.74	158.77	111.65	60.94	54.85	59.59	50.75	144.07	
2	50.06	57.57	55.53	114.18	215.11	131.70	98.93	58.92	54.85	59.59	48.69	142.84	
3	49.38	57.57	54.85	296.90	131.70	117.96	95.09	57.57	54.17	59.59	47.31	146.53	
4	48.00	57.57	55.53	269.35	98.93	158.77	112.92	58.24	54.17	59.59	45.92	146.53	
5	46.62	57.57	58.24	413.79	87.34	155.11	127.97	58.92	54.17	59.59	43.84	146.53	
6	44.53	57.57	54.85	357.39	116.70	525.15	134.19	58.24	54.17	59.59	41.74	146.53	
7	43.14	57.57	86.04	245.01	173.93	286.60	122.97	57.57	54.17	59.59	40.34	140.37	
8	51.44	54.17	67.64	170.31	132.95	173.93	116.70	56.89	53.49	59.59	38.23	145.30	
9	63.63	51.44	109.12	265.89	117.96	135.43	98.93	56.21	53.49	59.59	42.44	145.30	
10	53.49	52.81	159.99	204.45	104.04	156.33	91.22	55.53	53.49	59.59	64.97	139.14	
11	50.75	54.17	80.83	130.46	97.65	145.30	91.22	55.53	52.81	59.59	64.97	140.37	
12	48.69	54.17	87.34	95.09	110.39	129.22	97.65	55.53	52.81	59.59	64.97	139.14	
13	47.31	55.53	64.97	89.93	122.97	102.77	142.84	56.21	52.12	59.59	64.97	139.14	
14	45.23	55.53	86.04	78.21	181.16	119.21	130.46	56.21	52.12	63.63	58.24	146.53	
15	43.84	54.17	72.94	72.94	130.46	714.82	117.96	56.21	53.49	63.63	57.57	148.99	
16	41.74	54.17	68.97	68.97	120.47	499.25	97.65	56.21	58.92	63.63	58.92	151.44	
17	39.64	54.17	220.41	67.64	120.47	355.43	80.83	56.89	59.59	63.63	62.29	151.44	
18	37.52	53.49	182.96	66.30	132.95	411.86	68.97	56.89	59.59	63.63	68.97	151.44	
19	35.39	52.81	104.04	67.64	98.93	281.44	68.97	54.85	59.59	63.63	122.97	150.21	
20	33.24	52.12	82.14	76.90	86.04	411.86	72.94	54.85	59.59	63.63	148.99	150.21	
21	33.24	52.12	62.29	67.64	87.34	535.90	70.30	54.85	59.59	71.62	147.76	151.44	
22	52.81	51.44	156.33	70.30	82.14	710.13	67.64	54.85	59.59	72.94	136.67	151.44	
23	56.89	52.12	164.85	63.63	76.90	1211.21	64.97	54.85	59.59	74.26	134.19	150.21	
24	57.57	52.12	155.11	63.63	139.14	1072.73	62.29	54.85	59.59	74.26	134.19	150.21	
25	57.57	52.12	121.72	158.77	343.64	440.73	60.94	54.85	59.59	74.26	134.19	150.21	
26	57.57	53.49	88.64	163.03	202.67	272.81	60.94	54.85	59.59	74.26	135.43	148.99	
27	57.57	53.49	78.21	116.70	129.22	204.45	59.59	54.85	59.59	74.26	134.19	153.89	
28	57.57	55.53	83.44	88.64	102.77	156.33	58.92	54.85	59.59	72.94	131.70	148.99	
29	57.57	54.85	83.44	166.67	107.86	131.70	74.26	54.85	59.59	56.21	142.84	147.76	
30	57.57	54.85	246.76	208.01	153.89	119.21	72.94	54.85	59.59	53.49		147.76	
31		54.17		110.39	155.11		63.63		59.59	52.12		147.76	
Total	1470.32	1688.04	3048.07	4633.21	4136.57	10026.11	2796.48	1686.91	1757.14	1970.70	2468.25	4560.71	40242.51 Tonday
Mean	49.01	54.45	101.60	149.46	133.44	334.20	90.21	56.23	56.68	63.57	85.11	147.12	109.95 Ton/day
Max	63.63	57.57	246.76	413.79	343.64	1211.21	142.84	60.94	59.59	74.26	148.99	153.89	1211.21 Ton/day
Min	33.24	51.44	54.85	63.63	76.90	102.77	58.92	54.85	52.12	52.12	38.23	139.14	33.24 Ton/day

## WATER YEAR : 2019

## EAST COAST - GULF BASIN

## Chanthaburi River at Ban Tha Luang , Chanthaburi (Z.64)

Lat 12 - 39 - 26 N Long 102 - 09 - 15 E

Location : on right bank at the bridge on highway.

	<b>Ban</b> Tha Luang	<b>Amphoe</b> Makham	<b>Changwat</b> Chanthaburi
<b>Drainage Area</b>	968 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2019-Cont'd		
<b>Actual Measurement</b>	2019-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.9058		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 0.3980 QW^{1.71170}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.17	567.38	512.72	3032.53	210.53	1495.38	534.31	864.28	1324.31	512.72	5.83	0.00	
2	440.09	556.27	545.24	1518.42	288.69	1236.25	481.03	1404.70	1306.50	481.03	0.00	0.00	
3	659.59	545.24	523.47	1683.77	391.07	762.21	350.17	1324.31	1360.24	450.18	0.00	0.00	
4	819.88	534.31	391.07	1564.94	239.00	1218.94	374.49	1067.75	1382.39	420.20	0.00	0.00	
5	1084.13	545.24	296.10	1306.50	589.89	955.97	460.37	909.64	1201.73	382.74	0.00	1.78	
6	1167.62	534.31	326.54	2896.56	1035.29	1218.94	450.18	1360.24	1133.91	350.17	4.64	2.61	
7	1100.62	523.47	358.20	1781.42	776.47	1117.22	460.37	955.97	955.97	318.81	138.99	8.55	
8	955.97	523.47	545.24	940.42	450.18	695.64	410.39	1167.62	971.62	288.69	148.45	59.28	
9	1100.62	523.47	589.89	647.75	790.83	512.72	318.81	924.98	1003.24	252.80	103.79	43.87	
10	1100.62	556.27	671.52	612.76	1449.74	720.12	245.86	1117.22	1019.21	227.43	69.43	19.11	
11	1100.62	56.04	819.88	440.09	1067.75	849.37	266.92	707.83	1051.46	205.01	41.02	43.87	
12	1084.13	612.76	567.38	303.60	1184.62	720.12	227.43	624.34	1067.75	183.57	19.11	49.80	
13	1067.75	940.42	545.24	259.82	1019.21	460.37	374.49	1084.13	1084.13	158.17	7.14	30.44	
14	1019.21	695.64	589.89	216.10	849.37	1324.31	342.22	924.98	1084.13	129.79	0.17	11.68	
15	971.62	776.47	556.27	183.57	460.37	4106.31	205.01	1133.91	1067.75	107.95	0.00	43.87	
16	924.98	924.98	834.57	178.37	382.74	3254.29	400.68	1306.50	1051.46	84.00	0.00	103.79	
17	894.41	624.34	805.30	188.84	523.47	1495.38	695.64	971.62	1051.46	69.43	0.00	95.66	
18	864.28	342.22	1541.61	374.49	819.88	894.41	624.34	1167.62	1035.29	56.04	0.00	143.69	
19	834.57	430.10	1612.04	683.53	481.03	659.59	589.89	1288.78	1003.24	41.02	0.00	274.10	
20	790.83	601.28	805.30	567.38	491.50	1612.04	589.89	1342.23	971.62	28.00	11.68	296.10	
21	849.37	647.75	430.10	374.49	864.28	2009.45	671.52	940.42	940.42	17.11	15.20	420.20	
22	879.29	776.47	259.82	252.80	659.59	2863.66	1635.80	955.97	909.64	7.14	1.09	683.53	
23	894.41	849.37	303.60	188.84	556.27	4959.78	1218.94	601.28	879.29	43.87	0.00	819.88	
24	894.41	790.83	382.74	163.12	647.75	4561.13	1003.24	695.64	849.37	38.25	0.00	720.12	
25	879.29	695.64	245.86	303.60	1472.49	1932.17	1184.62	790.83	805.30	23.38	0.00	659.59	
26	849.37	659.59	266.92	534.31	1067.75	955.97	924.98	955.97	748.07	11.68	0.00	683.53	
27	790.83	1019.21	183.57	556.27	636.00	987.38	924.98	1051.46	671.52	2.61	0.00	671.52	
28	790.83	695.64	252.80	420.20	470.65	790.83	909.64	1150.71	636.00	0.00	0.00	601.28	
29	683.53	695.64	707.83	266.92	502.06	647.75	1019.21	1167.62	601.28	0.00	0.00	567.38	
30	578.59	512.72	1781.42	233.19	924.98	545.24	1564.94	1306.50	567.38	11.68		589.89	
31		481.03		199.56	1100.62		1133.91		534.31	23.38		601.28	
Total	26229.63	19237.57	18252.13	22874.16	22404.07	45562.94	20594.27	31265.05	30269.99	4926.85	566.54	8246.40	250429.60 Tonday
Mean	874.32	620.57	608.40	737.88	722.71	1518.76	664.33	1042.17	976.45	158.93	19.54	266.01	684.23 Ton/day
Max	1167.62	1019.21	1781.42	3032.53	1472.49	4959.78	1635.80	1404.70	1382.39	512.72	148.45	819.88	4959.78 Ton/day
Min	158.17	56.04	183.57	163.12	210.53	460.37	205.01	601.28	534.31	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	2,244 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1997-Cont'd				
<b>Actual Measurement</b>	1997-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	21				
<b>R-Square</b>	0.7806				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.1129 QW^{1.92630}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	223.95	91.72	37.09	25.73	89.55	721.79	702.79	107.60	93.91	69.24	73.10	60.03	
2	211.55	96.13	37.09	24.71	91.72	712.26	702.79	107.60	58.26	69.24	65.48	60.03	
3	207.50	96.13	38.34	24.71	83.19	712.26	702.79	105.25	117.22	69.24	65.48	54.81	
4	211.55	96.13	37.09	19.23	65.48	712.26	702.79	107.60	96.13	58.26	67.35	58.26	
5	215.65	93.91	25.73	24.71	65.48	712.26	702.79	114.77	93.91	56.52	67.35	58.26	
6	147.75	96.13	25.73	58.26	51.45	656.37	693.39	102.94	93.91	56.52	56.52	53.12	
7	137.64	96.13	25.73	60.03	40.88	712.26	693.39	109.96	98.37	56.52	65.48	58.26	
8	137.64	96.13	24.71	42.19	54.81	712.26	693.39	109.96	89.55	56.52	79.08	58.26	
9	137.64	96.13	24.71	15.56	69.24	712.26	551.20	124.69	87.41	58.26	65.48	58.26	
10	137.64	98.37	24.71	18.47	85.29	712.26	444.35	127.87	87.41	49.81	67.35	58.26	
11	158.21	96.13	25.73	23.70	140.97	712.26	355.89	127.87	87.41	45.05	65.48	58.26	
12	161.78	93.91	25.73	23.70	137.64	702.79	241.00	131.09	87.41	43.51	65.48	58.26	
13	161.78	98.37	20.81	23.70	211.55	702.79	183.95	127.87	87.41	43.51	63.64	58.26	
14	161.78	91.72	16.98	23.70	305.41	702.79	187.78	131.09	89.55	56.52	63.64	60.03	
15	165.38	119.68	7.78	23.70	310.30	702.79	158.21	134.34	73.10	65.48	60.03	60.03	
16	165.38	81.12	7.78	23.70	387.96	702.79	350.68	134.34	71.16	61.82	53.12	60.03	
17	165.38	91.72	7.78	23.70	404.49	702.79	393.43	165.38	69.24	61.82	54.81	60.03	
18	169.02	91.72	7.78	22.72	291.00	693.39	361.14	81.12	69.24	51.45	56.52	61.82	
19	169.02	91.72	13.54	22.72	276.91	702.79	361.14	151.20	69.24	43.51	56.52	63.64	
20	169.02	91.72	20.81	23.70	276.91	731.38	161.78	122.17	67.35	43.51	56.52	69.24	
21	165.38	91.72	20.81	24.71	211.55	840.87	134.34	117.22	73.10	48.20	60.03	67.35	
22	172.69	83.19	20.81	23.70	195.56	467.93	134.34	119.68	69.24	33.47	58.26	65.48	
23	176.41	79.08	20.81	21.75	199.50	674.76	134.34	105.25	69.24	33.47	58.26	54.81	
24	180.16	105.25	20.81	24.71	195.56	712.26	112.36	105.25	69.24	30.04	58.26	65.48	
25	180.16	105.25	22.72	24.71	199.50	721.79	112.36	105.25	69.24	32.31	58.26	69.24	
26	180.16	87.41	25.73	35.87	249.76	712.26	112.36	91.72	75.07	32.31	60.03	71.16	
27	180.16	79.08	25.73	35.87	387.96	712.26	109.96	91.72	63.64	31.16	60.03	71.16	
28	169.02	75.07	25.73	37.09	513.11	702.79	112.36	91.72	73.10	32.31	60.03	71.16	
29	169.02	56.52	25.73	33.47	721.79	702.79	112.36	91.72	69.24	32.31	60.03	73.10	
30	102.94	38.34	25.73	34.66	721.79	702.79	107.60	91.72	69.24	32.31		71.16	
31		37.09		69.24	721.79		107.60		69.24	51.45		69.24	
Total	5091.36	2742.72	690.26	914.42	7758.10	21083.30	10634.65	3435.96	2456.78	1505.65	1801.62	1936.49	60051.31 Tonday
Mean	169.71	88.47	23.01	29.50	250.26	702.78	343.05	114.53	79.25	48.57	62.12	62.47	164.07 Ton/day
Max	223.95	119.68	38.34	69.24	721.79	840.87	702.79	165.38	117.22	69.24	79.08	73.10	840.87 Ton/day
Min	102.94	37.09	7.78	15.56	40.88	467.93	107.60	81.12	58.26	30.04	53.12	53.12	7.78 Ton/day



## WATER YEAR : 2019

## PHETCHABURI RIVER BASIN

Huai Mae Prachan at at Saphan Tha Kewiyn (Ban Wang Chan) , Phetchaburi (B.6A)

Lat 12 - 57 - 50 N Long 99 - 45 - 52 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet - Kaeng Krachan Reservoir Road.

	<b>Ban</b> Saphan Tha Kewiyn (Wang Chan)	<b>Amphoe</b> Kaeng Krachan	<b>Changwat</b> Phetchaburi
<b>Drainage Area</b>	1,003 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	2017-Cont'd		
<b>Actual Measurement</b>	2017-Cont'd		
<b>Using Rating Curve Water Year</b>	2018-2019		
<b>Number of observation</b>	27		
<b>R-Square</b>	0.8922		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 1.3870 QW^{1.43160}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	1.29	18.47	2.48	1.01	1.29	1.39	3.48	0.92	0.14	0.14	0.00	
2	0.05	0.92	10.82	2.96	1.29	1.39	2.36	2.48	0.92	1.29	0.14	0.00	
3	0.75	0.59	4.57	2.36	1.39	1.39	4.01	2.96	0.92	1.29	0.14	0.00	
4	0.75	0.37	2.25	2.25	1.59	1.49	4.01	3.74	0.92	1.10	0.09	0.00	
5	0.25	0.44	1.69	2.13	1.69	1.39	3.74	4.01	0.92	0.67	0.14	0.00	
6	0.14	0.59	1.49	2.13	1.69	1.19	4.01	5.15	0.92	0.51	0.19	0.00	
7	0.14	1.01	2.48	2.72	1.80	1.10	3.74	6.06	0.92	0.25	0.14	0.00	
8	0.14	0.75	2.96	2.72	1.80	0.92	3.74	6.69	0.92	0.00	0.09	0.00	
9	0.14	0.75	2.36	2.25	1.80	1.01	3.74	7.01	1.01	0.00	0.14	0.00	
10	0.05	0.51	2.36	1.91	1.80	0.83	3.74	7.01	1.49	0.00	0.09	0.00	
11	0.02	0.44	2.02	1.69	1.91	0.75	3.74	6.06	1.39	0.00	0.19	0.00	
12	0.02	0.44	1.69	1.49	1.80	0.59	3.74	2.48	1.49	0.02	0.09	1.39	
13	0.02	0.59	2.25	1.39	1.59	0.25	3.74	2.25	1.39	0.02	0.09	11.95	
14	0.02	0.83	13.89	1.29	1.49	0.05	3.74	2.25	1.39	0.02	0.05	17.60	
15	0.02	0.75	15.92	1.19	1.39	0.00	3.74	2.02	1.49	0.05	0.05	16.34	
16	0.02	0.59	16.34	1.10	1.29	0.02	5.75	2.13	0.31	0.14	0.00	18.03	
17	0.02	0.59	16.76	1.10	1.19	0.14	6.69	2.25	0.25	0.09	0.00	17.60	
18	0.02	0.67	16.34	1.10	1.29	0.02	6.69	2.25	0.09	0.14	0.05	18.90	
19	0.02	0.75	16.34	1.10	1.49	0.14	6.69	2.36	0.09	0.14	0.31	18.47	
20	0.02	0.67	10.09	1.59	1.19	1.19	6.69	1.59	0.02	0.19	0.31	17.18	
21	0.02	0.51	2.25	1.49	1.19	1.39	6.69	0.92	0.00	0.09	0.19	15.51	
22	0.02	0.44	1.49	2.48	1.10	1.39	6.69	0.92	0.00	0.09	0.00	13.10	
23	0.02	0.59	1.29	2.13	1.01	1.39	6.69	0.92	0.00	0.14	0.00	10.09	
24	0.02	0.67	1.19	1.69	1.10	1.39	6.69	0.92	0.00	0.25	0.00	4.01	
25	0.14	0.75	1.29	1.49	1.10	1.39	6.69	0.92	0.00	0.19	0.00	0.09	
26	1.80	0.83	1.39	1.39	1.39	1.39	6.69	0.92	0.00	0.09	0.00	0.00	
27	3.74	2.72	1.91	1.19	1.49	1.39	6.69	0.92	0.00	0.02	0.00	0.00	
28	2.48	17.18	1.59	1.10	1.39	1.39	6.69	0.92	0.44	0.00	0.02	0.00	
29	2.36	10.82	1.59	0.92	1.39	1.39	6.69	0.92	1.01	0.00	0.00	18.47	
30	1.59	4.57	1.91	0.92	1.29	1.39	6.69	0.92	1.10	0.00		16.34	
31		5.15		0.92	1.29		6.69		1.10	0.25		16.34	
Total	14.85	57.77	176.99	52.67	44.23	29.05	159.28	83.43	21.42	7.18	2.65	231.41	880.93 Tonday
Mean	0.50	1.86	5.90	1.70	1.43	0.97	5.14	2.78	0.69	0.23	0.09	7.46	2.41 Ton/day
Max	3.74	17.18	18.47	2.96	1.91	1.49	6.69	7.01	1.49	1.29	0.31	18.90	18.90 Ton/day
Min	0.02	0.37	1.19	0.92	1.01	0.00	1.39	0.92	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Sarahed</b>	<b>Amphoe</b>	<b>Tha Yang</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	2,617 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	2008-Cont'd				
<b>Actual Measurement</b>	2008-Cont'd				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	20				
<b>R-Square</b>	0.8562				
<b>Remarks</b>	Continued Sediment Station				

QS = 0.4509 QW<sup>1.20860</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.01	20.58	14.09	10.71	23.94	108.64	106.68	28.95	24.70	19.11	18.75	16.95	
2	36.01	21.32	14.34	9.82	24.32	108.64	107.66	28.95	19.84	16.59	18.02	16.95	
3	34.62	21.69	14.09	9.82	23.56	108.64	106.68	28.56	27.00	20.21	18.02	15.88	
4	35.09	23.56	13.84	9.64	19.84	108.64	107.66	28.56	25.85	18.02	18.39	16.24	
5	35.55	22.81	11.42	10.24	19.11	107.66	106.68	29.73	24.70	17.31	18.39	16.24	
6	30.52	22.06	10.24	23.56	19.84	102.84	107.66	28.17	24.70	17.66	16.95	16.24	
7	27.78	21.69	10.24	25.08	15.88	106.68	107.66	28.95	23.94	16.59	19.11	15.88	
8	27.78	21.69	10.24	24.70	18.02	107.66	107.66	28.95	24.32	14.09	18.39	16.24	
9	27.00	21.69	10.01	11.18	20.95	107.66	98.34	30.52	23.94	17.31	18.02	15.88	
10	27.00	22.06	10.01	9.82	24.32	107.66	76.17	31.31	23.56	16.24	18.02	15.88	
11	28.56	21.69	10.01	9.09	32.50	112.59	67.09	31.31	23.56	13.35	18.02	16.59	
12	29.34	21.32	10.01	8.72	32.90	115.56	54.71	31.71	23.56	14.83	18.02	16.24	
13	29.34	22.06	7.91	8.36	37.88	114.57	39.52	31.31	23.56	13.84	18.02	16.24	
14	29.73	20.58	13.11	8.72	45.49	116.56	40.11	31.71	23.56	15.88	18.02	16.24	
15	30.12	27.78	9.45	8.72	52.84	116.56	37.41	32.10	21.69	18.39	17.66	16.24	
16	30.52	19.84	10.01	8.54	69.95	117.55	51.60	32.10	20.58	17.31	16.24	16.24	
17	30.12	22.81	10.48	8.72	69.23	116.56	69.23	34.62	20.58	16.95	16.24	16.24	
18	30.12	22.81	10.01	8.90	62.85	111.60	63.56	27.39	20.21	16.24	16.59	16.24	
19	30.12	22.81	9.82	8.36	53.46	106.68	63.56	31.31	20.21	13.35	16.59	16.24	
20	30.12	23.19	10.01	8.36	53.46	107.66	49.76	30.91	20.21	14.09	16.59	19.48	
21	29.73	22.81	9.82	9.27	46.10	115.56	36.01	29.34	20.21	14.09	16.24	16.24	
22	30.52	22.44	9.64	9.45	41.30	119.55	34.16	29.34	20.21	12.86	16.24	17.66	
23	30.91	21.32	9.82	9.27	41.30	95.65	33.30	28.17	20.21	13.35	16.59	14.34	
24	30.91	28.56	10.24	9.27	41.30	109.63	31.31	27.39	20.21	10.71	16.59	16.24	
25	30.91	25.85	9.82	9.09	41.30	111.60	29.34	27.39	20.21	12.14	16.59	17.66	
26	30.91	22.06	9.64	10.71	44.29	109.63	28.95	25.46	20.21	11.90	16.59	18.02	
27	30.91	21.69	9.64	11.42	68.52	108.64	28.95	24.70	22.44	11.18	16.95	17.66	
28	30.12	21.69	9.64	11.42	85.78	108.64	28.56	24.70	19.11	11.66	16.95	18.02	
29	30.12	20.58	9.45	11.18	106.68	107.66	28.95	24.70	21.69	11.90	16.95	17.66	
30	23.94	18.39	10.48	11.42	107.66	106.68	28.56	24.70	20.21	11.90		17.66	
31		15.18		12.86	107.66		28.56		21.69	13.60		17.66	
Total	914.43	684.61	317.53	346.42	1452.23	3303.85	1906.05	873.01	686.67	462.65	503.74	517.19	11968.38 Tonday
Mean	30.48	22.08	10.58	11.17	46.85	110.13	61.49	29.10	22.15	14.92	17.37	16.68	32.70 Ton/day
Max	36.01	28.56	14.34	25.08	107.66	119.55	107.66	34.62	27.00	20.21	19.11	19.48	119.55 Ton/day
Min	23.94	15.18	7.91	8.36	15.88	95.65	28.56	24.70	19.11	10.71	16.24	14.34	7.91 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Tha Yang</b>	<b>Amphoe</b>	<b>Tha Yang</b>	<b>Changwat</b>	<b>Phetchaburi</b>
<b>Drainage Area</b>	4,076	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	1997-Cont'd					
<b>Actual Measurement</b>	1997-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	23					
<b>R-Square</b>	0.9014					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 0.6451 QW^{1.22860}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.96	8.30	14.22	10.12	9.07	150.17	121.74	7.54	5.65	7.29	10.92	11.73	
2	26.22	8.56	15.36	10.65	15.65	153.02	113.60	7.79	5.12	8.05	12.00	12.28	
3	29.74	10.39	13.10	10.39	18.27	156.88	107.69	7.54	4.09	7.79	10.65	12.83	
4	26.85	10.65	9.33	10.39	17.97	153.02	110.91	7.54	4.09	7.54	10.39	12.28	
5	21.57	12.28	7.54	10.92	13.66	153.59	113.60	6.31	4.95	6.31	10.65	11.73	
6	21.26	14.22	5.47	12.83	13.94	145.07	117.38	6.31	4.09	5.12	10.65	12.00	
7	20.35	12.28	6.31	24.96	14.22	146.20	123.38	5.47	3.93	4.60	9.86	12.00	
8	19.45	11.73	7.29	33.00	10.92	141.13	126.68	5.12	3.76	4.43	12.28	11.73	
9	13.94	13.10	9.07	36.80	10.12	138.33	128.33	4.95	4.43	4.43	9.86	12.00	
10	7.54	12.83	9.59	21.87	12.28	131.09	121.19	5.30	6.80	4.60	10.12	11.46	
11	5.83	12.28	10.12	13.10	16.22	129.99	93.38	5.83	7.79	4.95	9.86	10.39	
12	7.29	12.00	10.12	10.65	24.96	129.99	75.95	6.31	7.54	4.43	9.59	9.86	
13	8.81	11.73	9.59	9.07	30.06	129.43	56.89	6.31	7.05	4.43	9.86	9.59	
14	9.59	12.55	7.29	8.05	37.91	129.43	39.78	5.83	7.05	4.60	10.12	9.07	
15	9.59	12.83	10.65	7.54	54.89	128.33	37.54	6.55	7.05	4.95	10.39	9.33	
16	10.39	17.09	12.28	7.29	68.32	116.30	35.32	7.05	6.07	9.59	10.92	9.86	
17	10.39	10.65	13.10	7.05	80.59	110.37	52.11	6.80	5.65	12.83	10.39	11.19	
18	10.12	10.12	13.94	6.55	89.55	108.23	72.50	8.56	5.65	14.51	11.19	11.73	
19	9.86	10.12	14.51	6.31	85.76	105.03	75.49	5.65	5.47	14.51	12.00	11.73	
20	9.86	10.12	14.79	6.55	76.87	98.69	77.80	4.09	6.07	12.00	11.73	10.65	
21	10.39	9.33	13.94	7.79	75.49	95.79	60.12	4.77	7.05	11.19	12.28	14.51	
22	10.12	10.39	10.65	8.30	73.76	137.21	34.32	3.93	8.05	11.73	12.28	9.33	
23	9.86	12.55	8.30	8.56	67.49	142.82	32.02	4.43	8.30	10.39	12.55	9.86	
24	10.12	14.51	7.54	8.05	63.37	115.22	30.71	5.30	8.30	9.59	12.55	7.54	
25	10.12	22.48	7.54	7.79	61.33	121.19	24.96	5.30	7.54	7.54	12.00	6.80	
26	9.86	24.03	6.80	7.29	61.33	132.76	16.80	6.07	6.80	7.79	11.46	8.05	
27	10.39	22.18	7.29	8.05	67.08	133.87	11.19	6.31	7.29	7.54	11.19	9.33	
28	12.00	21.87	8.05	10.65	91.46	132.76	9.07	5.83	10.12	7.05	11.46	9.59	
29	10.12	27.17	8.56	11.46	115.76	129.99	8.30	5.83	4.95	7.54	11.46	10.39	
30	9.86	25.90	9.33	8.81	140.01	126.13	8.30	5.83	6.07	8.30		11.19	
31		19.45		7.29	147.90		7.79		6.55	9.07		11.46	
Total	402.45	443.69	301.67	358.13	1666.21	3922.03	2044.84	180.45	193.32	244.69	320.66	331.49	10409.63 Tonday
Mean	13.42	14.31	10.06	11.55	53.75	130.73	65.96	6.02	6.24	7.89	11.06	10.69	28.44 Ton/day
Max	29.74	27.17	15.36	36.80	147.90	156.88	128.33	8.56	10.12	14.51	12.55	14.51	156.88 Ton/day
Min	5.83	8.30	5.47	6.31	9.07	95.79	7.79	3.93	3.76	4.43	9.59	6.80	3.76 Ton/day

**WATER YEAR : 2019****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.

	<b>Ban Klang</b>	<b>Amphoe</b> Thap Sakae	<b>Changwat</b> Prachuap Khiri Khan
<b>Drainage Area</b>	125 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D-49		
<b>Period of Available Records</b>	1998-Cont'd		
<b>Actual Measurement</b>	1998-Cont'd		
<b>Using Rating Curve Water Year</b>	2007-2019		
<b>Number of observation</b>	196		
<b>R-Square</b>	0.8552		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.7895 QW^{1.27530}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.10	0.43	0.03	2.14	1.03	2.14	0.61	0.00	0.00	0.00	
2	0.00	0.00	0.06	0.37	0.10	2.67	0.96	1.18	0.49	0.00	0.00	0.00	
3	0.00	0.00	0.06	0.25	0.06	1.41	0.89	1.03	0.43	0.00	0.00	0.00	
4	0.00	0.00	0.06	0.25	0.06	1.41	0.82	0.96	0.37	0.00	0.00	0.00	
5	0.00	0.00	0.06	0.49	0.20	1.41	0.89	0.89	0.25	0.00	0.00	0.00	
6	0.00	0.00	0.03	0.43	0.25	1.10	0.89	0.82	0.20	0.00	0.00	0.00	
7	0.00	0.00	0.03	0.31	0.96	0.96	3.50	1.89	0.15	0.00	0.00	0.00	
8	0.00	0.00	0.06	0.31	0.82	0.89	1.65	2.67	0.10	0.00	0.00	0.00	
9	0.00	0.00	0.06	0.25	0.82	0.96	1.18	1.18	0.06	0.00	0.00	0.00	
10	0.00	0.00	0.06	0.25	0.96	0.89	1.18	0.96	0.06	0.00	0.00	0.00	
11	0.00	0.00	0.06	0.20	2.14	0.68	1.10	0.82	0.06	0.00	0.00	0.00	
12	0.00	0.00	0.06	0.15	3.22	1.10	1.03	0.68	0.10	0.00	0.00	0.00	
13	0.00	0.00	0.06	0.15	1.41	0.75	1.03	0.61	0.10	0.00	0.00	0.00	
14	0.00	0.00	0.06	0.10	0.89	0.55	2.14	0.75	0.10	0.00	0.00	0.00	
15	0.00	0.03	0.03	0.15	0.75	0.75	3.50	0.68	0.10	0.00	0.00	0.00	
16	0.00	0.00	0.03	0.20	0.61	2.67	7.51	0.61	0.10	0.00	0.00	0.00	
17	0.00	0.00	0.10	0.20	0.43	3.50	20.03	0.61	0.10	0.00	0.00	0.00	
18	0.00	0.00	0.20	0.10	0.31	2.67	20.80	0.49	0.10	0.00	0.00	0.00	
19	0.00	0.00	0.20	0.03	0.25	5.30	12.75	0.43	0.03	0.00	0.00	0.00	
20	0.00	0.00	0.10	0.06	0.20	5.30	44.01	0.37	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.03	0.10	0.20	3.22	17.78	0.37	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.03	0.06	0.15	17.78	10.06	0.31	0.00	0.00	0.00	0.00	
23	0.00	0.06	0.06	0.06	0.20	27.94	6.57	0.25	0.00	0.00	0.00	0.00	
24	0.00	0.15	0.10	0.03	0.20	14.86	5.61	0.20	0.00	0.00	0.00	0.00	
25	0.00	0.10	0.37	0.03	0.20	6.90	4.38	0.25	0.00	0.00	0.00	0.00	
26	0.00	0.10	0.20	0.03	0.20	4.68	3.79	0.43	0.00	0.00	0.00	0.00	
27	0.00	0.10	0.10	0.03	0.15	3.22	3.22	0.43	0.00	0.00	0.00	0.00	
28	0.00	0.15	0.43	0.06	0.15	2.14	3.22	2.14	0.00	0.00	0.00	0.00	
29	0.00	0.15	0.49	0.03	0.37	1.65	3.22	1.89	0.00	0.00	0.00	0.00	
30	0.00	0.06	0.55	0.00	0.55	1.41	2.67	0.89	0.00	0.00		0.00	
31		0.10		0.00	1.03		2.40		0.00	0.00		0.00	
<b>Total</b>	0.00	1.00	3.84	5.11	17.87	120.91	189.81	26.93	3.51	0.00	0.00	0.00	368.98 Tonday
<b>Mean</b>	0.00	0.03	0.13	0.16	0.58	4.03	6.12	0.90	0.11	0.00	0.00	0.00	1.01 Ton/day
<b>Max</b>	0.00	0.15	0.55	0.49	3.22	27.94	44.01	2.67	0.61	0.00	0.00	0.00	44.01 Ton/day
<b>Min</b>	0.00	0.00	0.03	0.00	0.03	0.55	0.82	0.20	0.00	0.00	0.00	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Nong Ya Plong</b>	<b>Amphoe</b>	Bang Saphan	<b>Changwat</b>	Prachuap Khiri Khan
<b>Drainage Area</b>	113 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1998-Cont'd				
<b>Actual Measurement</b>	1998-Cont'd				
<b>Using Rating Curve Water Year</b>	1998-2019				
<b>Number of observation</b>	416				
<b>R-Square</b>	0.8509				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.4839 QW^{1.53170}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.96	1.10	0.30	1.10	0.10	10.07	2.15	1.47	0.37	0.37	0.23	0.10	
2	1.10	0.86	0.30	0.86	0.37	7.16	3.33	1.47	0.30	0.30	0.47	0.06	
3	1.20	0.64	0.23	0.64	0.86	4.61	2.02	2.48	0.23	0.23	0.30	0.06	
4	1.20	0.47	0.96	0.96	0.86	5.83	23.22	1.47	0.15	0.23	0.23	0.06	
5	1.10	0.37	0.55	1.47	0.96	10.85	11.66	1.10	0.10	0.23	0.15	0.02	
6	1.10	0.30	0.64	0.76	1.47	5.83	17.80	1.72	0.10	0.15	0.10	0.02	
7	1.10	0.15	0.47	0.55	2.96	3.48	16.86	2.15	0.06	0.10	0.06	0.02	
8	1.10	0.10	1.47	0.55	2.15	3.33	5.83	1.47	0.06	0.10	0.06	0.02	
9	1.10	0.02	1.20	0.76	2.96	10.85	3.12	1.10	0.06	0.10	0.06	0.00	
10	1.10	0.00	1.20	0.76	10.85	10.85	2.62	0.86	0.02	0.10	0.06	0.00	
11	1.10	0.00	0.96	0.64	111.51	3.48	2.15	0.86	0.02	0.15	0.23	0.00	
12	1.10	0.00	0.76	0.64	62.28	2.81	1.89	0.76	0.10	0.86	0.10	0.00	
13	1.10	0.00	0.64	0.55	26.38	2.33	1.72	0.64	0.02	0.30	0.10	0.00	
14	1.10	0.00	0.55	0.64	13.32	2.15	8.57	1.32	0.02	0.30	0.10	0.00	
15	1.10	0.00	0.47	0.55	9.31	10.85	10.07	2.33	0.00	0.15	0.06	0.00	
16	1.10	0.00	0.55	0.55	7.16	40.36	40.36	1.20	0.00	0.15	0.06	0.00	
17	1.10	0.00	0.76	0.64	5.21	23.22	134.29	0.86	0.00	0.23	0.06	0.00	
18	1.10	0.00	1.10	0.37	5.21	14.18	56.85	0.76	0.00	0.23	0.10	0.00	
19	1.10	0.00	0.86	0.15	3.33	7.85	29.68	0.64	0.00	0.15	0.30	0.00	
20	1.10	0.00	1.10	0.37	2.96	5.21	138.29	0.55	0.00	0.15	0.15	0.00	
21	1.10	0.00	1.10	0.47	2.96	4.03	101.54	0.55	0.06	0.15	0.10	0.00	
22	1.10	0.00	0.86	0.23	2.48	38.51	36.68	0.37	0.02	0.10	0.06	0.00	
23	1.10	0.00	0.76	0.15	2.62	23.22	15.05	0.47	0.00	0.15	0.06	0.00	
24	1.10	0.00	0.86	0.23	2.33	10.85	8.57	0.37	0.00	0.06	0.06	0.00	
25	1.10	0.00	0.96	0.23	2.15	5.21	4.61	0.37	0.00	0.06	0.06	0.00	
26	1.10	0.00	0.86	0.23	2.33	3.33	2.96	0.37	0.00	0.06	0.06	0.00	
27	1.10	0.00	1.10	0.30	2.15	2.96	2.62	0.30	0.00	0.02	0.02	0.00	
28	1.10	0.00	2.96	0.15	2.02	2.62	2.48	0.64	5.83	0.06	0.15	0.00	
29	1.10	0.00	2.15	0.10	2.33	2.33	2.02	0.86	2.15	0.06	0.15	0.00	
30	1.10	0.00	1.47	0.10	2.81	2.02	1.72	0.47	0.76	0.02		0.00	
31		0.00		0.10	5.21		1.59		0.47	0.02		0.00	
<b>Total</b>	33.06	4.01	28.15	15.80	299.60	280.38	692.32	29.98	10.90	5.34	3.70	0.36	1403.60 Tonday
<b>Mean</b>	1.10	0.13	0.94	0.51	9.66	9.35	22.33	1.00	0.35	0.17	0.13	0.01	3.83 Ton/day
<b>Max</b>	1.20	1.10	2.96	1.47	111.51	40.36	138.29	2.48	5.83	0.86	0.47	0.10	138.29 Ton/day
<b>Min</b>	0.96	0.00	0.23	0.10	0.10	2.02	1.59	0.30	0.00	0.02	0.02	0.00	0.00 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	61 sq.km.				
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US.D-49				
<b>Period of Available Records</b>	1998-Cont'd				
<b>Actual Measurement</b>	1998-Cont'd				
<b>Using Rating Curve Water Year</b>	1998-2019				
<b>Number of observation</b>	386				
<b>R-Square</b>	0.9025				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 3.3191 QW^{1.68040}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.41	1.41	0.05	0.71	0.22	3.90	10.64	8.91	8.10	2.28	1.41	0.19	
2	1.41	1.41	0.09	1.82	0.44	7.31	9.76	14.45	8.10	2.28	1.41	0.15	
3	1.41	1.41	7.31	5.84	3.90	9.76	8.91	22.22	6.56	1.82	0.71	0.15	
4	2.28	1.82	4.51	1.82	2.28	12.49	17.62	12.49	6.56	1.82	0.71	0.15	
5	1.41	1.82	2.78	1.41	3.90	15.48	9.76	15.48	5.84	1.41	0.71	0.12	
6	1.41	1.41	0.07	1.04	9.76	10.64	12.49	228.25	5.16	1.41	0.71	0.12	
7	1.41	1.41	0.71	0.71	11.55	7.31	12.49	138.22	5.16	1.41	0.71	0.12	
8	1.41	1.41	8.10	0.71	16.53	8.10	9.76	62.19	5.16	1.41	0.44	0.12	
9	1.41	1.41	3.90	1.04	81.94	12.49	8.10	28.83	4.51	1.41	0.44	0.12	
10	1.41	1.41	1.82	0.71	74.72	9.76	8.91	18.73	4.51	1.41	0.44	0.12	
11	1.41	0.12	1.41	0.71	30.73	22.22	7.31	15.48	3.90	1.41	0.44	0.12	
12	1.41	0.09	0.71	0.71	26.98	21.03	5.16	13.45	3.32	1.41	0.44	0.12	
13	1.41	0.09	0.71	0.44	21.03	10.64	4.51	10.64	3.32	1.41	0.44	0.12	
14	1.41	0.09	0.44	0.44	16.53	8.91	3.90	10.64	3.32	1.41	0.44	0.12	
15	1.41	0.07	0.44	0.44	13.45	53.68	5.16	19.86	2.78	1.41	0.44	0.12	
16	1.41	0.07	0.44	0.44	8.91	62.19	5.16	16.53	2.78	1.04	0.44	0.12	
17	1.41	0.07	5.16	0.44	14.45	34.67	8.10	15.48	2.78	1.41	0.44	0.12	
18	1.41	0.07	8.10	0.71	11.55	23.44	387.85	8.91	2.78	0.71	0.44	0.12	
19	1.82	0.07	6.56	5.16	8.10	23.44	169.84	7.31	2.78	1.41	2.28	0.09	
20	1.41	0.07	2.78	8.10	6.56	19.86	109.29	15.48	8.10	1.04	0.44	0.09	
21	1.41	0.07	1.41	1.82	5.84	16.53	93.27	11.55	6.56	0.71	0.22	0.09	
22	1.41	0.07	0.71	1.04	4.51	21.03	45.67	8.91	3.90	0.71	0.22	0.09	
23	1.41	0.07	0.71	1.04	3.32	21.03	34.67	7.31	3.90	0.44	0.22	0.09	
24	1.41	0.05	0.71	0.71	2.78	18.73	26.98	6.56	2.78	0.44	0.22	0.09	
25	1.41	0.05	0.71	0.22	3.32	15.48	16.53	6.56	1.82	0.44	0.22	0.09	
26	1.41	0.05	0.71	0.22	3.90	12.49	10.64	6.56	1.82	0.44	0.19	0.09	
27	1.41	0.05	0.71	0.22	4.51	10.64	12.49	6.56	1.82	0.44	0.19	0.12	
28	1.41	0.09	0.71	0.22	4.51	9.76	13.45	45.67	5.16	0.44	0.15	0.09	
29	1.41	0.07	0.71	0.22	3.90	8.10	12.49	22.22	7.31	0.44	0.19	0.09	
30	1.41	0.07	1.04	0.22	3.32	7.31	12.49	21.03	3.90	0.22		0.09	
31		0.07		0.22	2.78		10.64		2.78	0.44		0.09	
<b>Total</b>	43.58	16.44	64.22	39.55	406.22	518.42	1104.04	826.48	137.27	34.48	15.75	3.52	3209.97 Tonday
<b>Mean</b>	1.45	0.53	2.14	1.28	13.10	17.28	35.61	27.55	4.43	1.11	0.54	0.11	8.77 Ton/day
<b>Max</b>	2.28	1.82	8.10	8.10	81.94	62.19	387.85	228.25	8.10	2.28	2.28	0.19	387.85 Ton/day
<b>Min</b>	1.41	0.05	0.05	0.22	0.22	3.90	3.90	6.56	1.82	0.22	0.15	0.09	0.05 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban Wang Phai</b>	<b>Amphoe Mueang</b>	<b>Changwat Chumphon</b>
<b>Drainage Area</b>	296 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1996-Cont'd		
<b>Actual Measurement</b>	1996-Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	18		
<b>R-Square</b>	0.9288		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.3924 QW^{1.32560}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.50	5.81	9.07	22.73	6.06	813.21	69.90	36.48	49.90	7.12	24.18	5.05	
2	7.39	5.30	7.39	12.66	11.43	579.89	84.42	93.45	36.48	7.39	8.50	4.80	
3	7.12	4.80	10.23	10.83	192.58	348.10	75.63	142.82	66.14	6.85	6.33	4.56	
4	7.12	4.32	46.45	9.07	158.80	416.97	92.44	216.58	139.45	6.59	5.55	4.32	
5	6.33	4.56	8.50	8.22	72.75	1547.79	103.74	85.42	69.90	6.33	5.05	4.08	
6	6.06	5.05	11.43	7.67	85.42	1135.11	85.42	59.69	46.45	6.06	4.80	3.85	
7	5.81	5.05	7.12	7.39	106.88	481.92	92.44	50.77	35.67	5.81	4.56	4.08	
8	5.55	5.05	6.59	6.85	95.49	270.50	64.28	47.31	29.41	5.55	4.32	3.85	
9	5.30	5.05	6.06	6.59	556.16	185.34	80.49	49.90	24.18	5.55	4.08	3.62	
10	5.30	5.55	12.04	6.33	1390.00	218.45	60.61	34.87	21.31	5.55	4.08	3.39	
11	5.05	5.55	20.61	6.06	911.34	141.69	75.63	30.17	18.53	5.30	4.08	3.39	
12	4.80	5.81	17.18	5.81	847.94	162.28	64.28	28.65	16.51	5.30	4.08	3.17	
13	5.30	5.30	8.50	5.30	419.17	111.09	49.03	24.91	14.55	5.05	4.32	3.17	
14	5.81	6.06	6.85	5.30	222.21	115.35	46.45	23.45	13.28	5.05	3.85	3.17	
15	5.55	5.30	7.12	5.30	194.40	579.89	51.65	25.65	12.04	4.80	3.62	2.95	
16	5.30	5.05	6.59	5.30	248.97	837.49	53.41	24.18	10.83	5.05	3.62	2.73	
17	6.59	7.39	75.63	5.55	331.37	609.48	74.67	20.61	10.23	5.55	3.39	2.73	
18	6.06	6.33	90.42	7.94	318.96	645.14	149.62	18.53	9.07	5.05	8.22	2.73	
19	7.12	5.30	115.35	67.08	170.47	386.46	304.62	17.18	9.07	5.05	294.48	2.52	
20	6.33	5.05	45.60	143.94	122.89	280.43	356.54	17.85	16.51	5.05	107.93	2.32	
21	5.81	5.05	27.14	44.75	97.53	201.73	280.43	27.89	28.65	5.05	30.17	2.11	
22	5.30	4.56	15.20	23.45	360.78	198.06	233.59	27.14	12.66	4.80	16.51	1.92	
23	5.05	4.32	10.23	14.55	408.20	260.66	134.98	18.53	10.23	4.56	12.04	1.72	
24	4.80	4.32	10.23	9.65	148.48	151.90	98.56	15.85	8.50	4.56	8.22	1.54	
25	4.56	5.05	17.85	7.67	153.05	125.07	79.51	14.55	8.22	4.32	7.12	1.35	
26	4.56	6.06	27.89	7.67	170.47	108.98	67.08	13.91	7.67	4.32	6.59	1.54	
27	4.32	6.85	26.39	7.67	146.21	113.22	65.21	23.45	7.39	4.08	6.06	1.35	
28	4.32	6.33	33.29	7.12	132.76	106.88	56.08	38.91	7.94	4.08	5.55	1.18	
29	4.08	6.06	17.85	6.85	199.89	85.42	49.03	100.62	7.94	4.08	5.30	1.18	
30	6.59	5.81	20.61	6.33	651.67	71.80	44.75	118.57	7.39	3.85		1.18	
31		5.55		6.06	1753.31		40.56		7.12	4.08		1.01	
<b>Total</b>	171.78	167.64	725.41	497.69	10685.64	11290.30	3185.05	1447.89	763.22	161.83	606.60	86.56	29789.61 Tonday
<b>Mean</b>	5.73	5.41	24.18	16.05	344.70	376.34	102.74	48.26	24.62	5.22	20.92	2.79	81.39 Ton/day
<b>Max</b>	8.50	7.39	115.35	143.94	1753.31	1547.79	356.54	216.58	139.45	7.39	294.48	5.05	1753.31 Ton/day
<b>Min</b>	4.08	4.32	6.06	5.30	6.06	71.80	40.56	13.91	7.12	3.85	3.39	1.01	1.01 Ton/day



**WATER YEAR : 2019****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.

	<b>Ban</b> Tha Yai	<b>Amphoe</b> Lan Saka	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	105 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1989 - 2009,2012 - Cont' d		
<b>Actual Measurement</b>	1990 - 2009,2012 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.8012		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.5005 QW^{0.89360}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.78	9.34	6.50	4.12	3.50	17.62	12.08	24.44	75.95	20.68	10.45	10.45	
2	11.54	7.08	7.65	10.45	4.73	15.27	16.84	19.92	67.88	17.62	11.00	10.45	
3	12.89	5.92	11.00	11.00	8.22	12.89	14.48	19.16	77.36	19.16	11.00	9.90	
4	11.00	8.78	14.48	11.00	4.73	11.00	12.08	18.39	87.14	19.92	10.45	9.90	
5	8.78	8.78	11.54	8.22	9.90	9.90	12.89	18.39	61.24	17.62	9.90	9.34	
6	9.34	4.73	12.08	6.50	8.22	8.78	16.84	28.38	47.71	16.84	9.90	10.45	
7	11.54	4.12	14.48	5.33	6.50	8.22	16.06	23.70	39.83	16.06	10.45	10.45	
8	8.78	6.50	11.54	4.12	4.12	6.50	16.84	23.70	36.06	18.39	11.00	9.34	
9	7.08	12.08	11.54	5.33	2.87	7.65	16.84	30.32	35.11	19.92	10.45	8.78	
10	7.08	7.65	12.89	2.22	11.00	10.45	15.27	25.18	32.25	16.84	11.00	8.22	
11	6.50	9.90	9.90	6.50	9.90	10.45	18.39	22.19	29.35	16.84	14.48	8.22	
12	5.92	7.08	8.78	5.92	11.00	8.22	16.06	20.68	26.66	16.84	20.68	9.90	
13	2.87	5.92	8.22	11.00	8.78	8.78	16.84	19.16	25.92	16.06	13.69	8.22	
14	4.12	5.92	7.08	7.08	7.08	7.08	15.27	17.62	25.18	16.06	12.89	7.08	
15	4.73	6.50	6.50	5.33	5.92	9.34	16.06	21.44	25.18	15.27	11.54	6.50	
16	5.92	5.92	11.00	3.50	5.33	9.34	19.92	21.44	27.40	14.48	11.00	6.50	
17	5.33	9.90	8.78	4.73	6.50	9.34	21.44	19.92	26.66	14.48	10.45	5.92	
18	5.33	6.50	7.08	7.08	8.78	8.78	31.28	19.92	29.35	13.69	22.19	5.33	
19	6.50	8.22	7.08	15.27	7.08	9.34	39.83	20.68	31.28	14.48	21.44	4.73	
20	4.73	12.08	5.92	11.54	5.92	9.34	49.08	37.01	31.28	14.48	16.06	3.50	
21	5.33	12.08	5.33	8.78	4.12	10.45	54.53	61.24	26.66	15.27	13.69	3.50	
22	5.33	9.34	4.12	7.08	9.34	9.90	35.11	42.63	24.44	14.48	12.89	2.22	
23	2.87	9.90	4.73	5.33	6.50	11.00	31.28	32.25	22.95	13.69	12.89	2.87	
24	2.87	9.34	7.65	4.12	5.92	10.45	30.32	26.66	22.19	13.69	14.48	2.22	
25	4.12	9.90	5.92	3.50	7.08	22.95	24.44	24.44	21.44	12.89	12.89	4.73	
26	8.22	7.65	6.50	2.22	7.08	21.44	22.19	25.92	20.68	12.08	12.08	5.33	
27	8.22	7.08	4.73	1.54	8.22	17.62	22.19	32.25	19.92	12.08	11.54	3.50	
28	7.08	5.33	3.50	1.54	11.00	15.27	21.44	75.95	19.16	11.54	11.54	2.22	
29	6.50	5.33	1.54	1.54	16.06	15.27	19.16	74.54	18.39	11.54	11.00	2.22	
30	12.08	7.08	2.22	1.54	27.40	12.08	19.16	108.18	17.62	11.00		2.22	
31		8.22		2.87	22.19		21.44		17.62	11.00		2.22	
Total	211.38	244.17	240.28	186.30	264.99	344.72	695.65	955.70	1069.86	474.99	373.02	196.43	5257.49 Tonday
Mean	7.05	7.88	8.01	6.01	8.55	11.49	22.44	31.86	34.51	15.32	12.86	6.34	14.36 Ton/day
Max	12.89	12.08	14.48	15.27	27.40	22.95	54.53	108.18	87.14	20.68	22.19	10.45	108.18 Ton/day
Min	2.87	4.12	1.54	1.54	2.87	6.50	12.08	17.62	17.62	11.00	9.90	2.22	1.54 Ton/day

## WATER YEAR : 2019

## 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
<b>Drainage Area</b>	39 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.D - 48		
<b>Period of Available Records</b>	1989 - 2010,2014 - Cont' d		
<b>Actual Measurement</b>	1989 - 2010,2014 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	21		
<b>R-Square</b>	0.9050		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.2647 QW^{1.03720}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.74	3.74	2.86	4.09	3.91	4.09	4.26	5.51	56.13	7.30	4.26	5.15	
2	3.74	3.74	3.21	4.09	3.38	4.09	4.26	4.80	44.53	6.05	4.26	4.97	
3	3.91	3.74	3.03	4.09	2.51	4.09	4.26	5.87	53.71	6.40	4.26	4.97	
4	3.74	3.74	3.03	4.09	2.51	4.09	4.26	5.15	90.90	6.05	4.26	4.80	
5	3.74	3.74	3.91	4.09	2.51	4.09	6.40	5.87	44.05	5.87	4.26	4.80	
6	3.74	3.74	3.56	4.09	2.51	4.09	11.26	7.48	26.97	5.87	4.26	4.80	
7	3.74	3.74	4.97	4.09	2.25	4.09	7.85	8.57	19.64	5.87	4.26	4.80	
8	3.56	3.74	3.21	4.09	1.99	4.09	5.33	8.21	16.75	6.58	4.26	4.80	
9	3.56	3.74	2.51	4.09	1.99	4.09	4.62	10.35	15.92	6.76	4.26	4.80	
10	3.21	3.74	2.38	4.09	1.86	4.26	4.44	7.30	14.02	5.87	4.26	4.80	
11	3.03	3.74	2.38	4.09	2.86	4.09	4.44	6.05	12.41	5.87	4.26	4.80	
12	2.86	3.74	2.38	4.09	2.51	4.09	4.44	5.33	11.03	6.58	4.97	4.80	
13	2.68	3.74	2.38	4.09	2.51	4.09	4.26	4.80	10.35	5.87	3.56	4.62	
14	2.51	3.74	2.38	4.09	2.51	4.09	4.26	4.80	9.89	5.69	3.21	4.62	
15	2.51	3.74	2.38	4.09	2.51	4.09	4.26	7.12	10.35	5.33	3.03	4.62	
16	2.38	3.91	2.38	4.09	2.86	4.09	4.26	7.30	12.18	5.33	2.86	4.62	
17	2.38	3.91	2.38	4.09	2.51	4.09	5.33	5.87	12.18	5.15	2.68	4.62	
18	1.99	3.74	2.38	4.44	2.51	4.09	8.75	5.69	14.02	4.97	4.26	4.62	
19	1.99	4.97	2.38	4.26	2.51	4.09	14.81	5.69	15.92	4.80	5.51	4.44	
20	1.86	6.23	2.38	4.09	2.51	4.09	23.96	15.64	16.20	4.62	5.33	4.44	
21	1.86	4.09	2.38	4.09	2.51	4.09	27.35	44.53	12.41	4.26	5.33	4.26	
22	1.86	4.09	2.38	4.09	2.51	4.09	11.95	21.61	10.57	4.26	5.33	4.09	
23	1.73	4.09	2.51	4.09	2.25	4.09	8.39	12.41	9.30	4.26	5.33	3.91	
24	1.73	4.09	2.38	4.09	1.86	4.09	6.76	9.48	8.57	4.26	5.33	3.74	
25	1.73	4.09	2.38	4.09	1.73	7.67	5.87	8.03	8.21	4.26	5.15	3.56	
26	1.73	4.09	2.38	4.09	1.61	5.69	5.51	8.57	7.67	4.26	5.15	3.38	
27	1.73	4.09	2.38	4.09	1.61	4.62	6.05	11.26	7.12	4.26	5.15	3.38	
28	1.73	4.09	2.38	4.09	2.25	4.62	5.69	41.65	6.94	4.26	5.15	3.38	
29	1.86	2.86	2.38	4.09	2.51	4.80	4.80	40.69	6.58	4.26	5.15	3.38	
30	4.62	4.26	2.38	4.09	2.51	4.26	4.80	86.41	6.23	4.26		3.38	
31		5.69		4.09	3.91		4.44		6.58	4.26		3.38	
<b>Total</b>	81.45	124.39	80.40	127.31	76.48	129.99	227.32	422.04	597.33	163.69	129.34	134.73	2294.47 Tonday
<b>Mean</b>	2.72	4.01	2.68	4.11	2.47	4.33	7.33	14.07	19.27	5.28	4.46	4.35	6.27 Ton/day
<b>Max</b>	4.62	6.23	4.97	4.44	3.91	7.67	27.35	86.41	90.90	7.30	5.51	5.15	90.90 Ton/day
<b>Min</b>	1.73	2.86	2.38	4.09	1.61	4.09	4.26	4.80	6.23	4.26	2.68	3.38	1.61 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Wang Khrok	<b>Amphoe</b> Tha Sae	<b>Changwat</b> Chumphon
<b>Drainage Area</b>	1,814 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D - 48		
<b>Period of Available Records</b>	1996 - Cont' d		
<b>Actual Measurement</b>	1996 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	18		
<b>R-Square</b>	0.8410		
<b>Remarks</b>	Continued Sediment Station		

QS = 3.9740 QW<sup>1.19840</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	89.11	48.03	40.93	97.14	46.59	809.79	326.52	299.05	126.92	65.77	42.33	35.39	
2	74.97	86.73	42.33	106.92	65.77	1363.25	730.07	245.37	113.53	61.25	43.74	35.39	
3	61.25	43.74	140.56	113.53	415.29	1159.37	613.19	832.81	182.76	56.78	43.74	32.67	
4	63.50	39.53	268.16	154.42	618.68	838.59	696.34	1032.60	130.31	48.03	42.33	31.32	
5	56.78	48.03	256.72	130.31	427.65	2649.40	607.71	850.15	91.51	72.65	40.93	31.32	
6	52.38	52.38	157.92	103.65	591.32	2106.06	890.83	827.05	79.64	46.59	39.53	29.99	
7	50.19	81.99	137.13	97.14	547.98	955.38	469.31	931.82	74.97	46.59	52.38	28.66	
8	50.19	68.05	157.92	89.11	690.74	685.15	366.43	931.82	72.65	46.59	36.76	29.99	
9	48.03	50.19	161.43	79.64	967.19	685.15	338.41	607.71	68.05	59.01	35.39	29.99	
10	46.59	48.03	147.46	61.25	2705.40	890.83	291.27	314.70	65.77	42.33	35.39	27.34	
11	46.59	45.16	113.53	54.57	3599.42	629.68	558.77	374.50	65.77	43.74	35.39	27.34	
12	45.16	42.33	103.65	50.19	2829.26	444.24	448.40	295.16	84.35	46.59	35.39	27.34	
13	46.59	42.33	93.92	48.03	1437.44	478.77	374.50	256.72	61.25	52.38	36.76	27.34	
14	50.19	42.33	74.97	43.74	890.83	515.85	260.53	245.37	61.25	46.59	36.76	28.66	
15	50.19	40.93	68.05	40.93	537.24	1319.55	256.72	219.22	61.25	45.16	35.39	27.34	
16	48.03	39.53	50.19	39.53	838.59	2627.06	390.73	249.15	54.57	42.33	34.02	27.34	
17	50.19	38.14	144.01	42.33	1098.70	2162.69	452.57	230.37	54.57	59.01	34.02	27.34	
18	54.57	38.14	580.44	52.38	861.74	2134.34	499.90	172.04	54.57	56.78	91.51	26.04	
19	70.34	39.53	469.31	106.92	531.87	1737.78	1839.92	150.94	52.38	50.19	1080.61	26.04	
20	81.99	38.14	260.53	130.31	306.85	1452.61	1887.38	168.49	79.64	48.03	306.85	26.04	
21	61.25	39.53	126.92	100.39	226.64	1008.73	1521.19	241.61	68.05	48.03	106.92	36.76	
22	45.16	42.33	113.53	68.05	287.40	1026.63	1189.91	186.35	61.25	48.03	61.25	23.46	
23	40.93	40.93	72.65	54.57	330.47	1895.31	758.39	130.31	59.01	48.03	52.38	18.45	
24	36.76	40.93	81.99	48.03	271.99	979.03	537.24	120.19	74.97	46.59	46.59	17.22	
25	34.02	45.16	86.73	50.19	326.52	624.18	378.55	126.92	52.38	40.93	45.16	16.02	
26	34.02	38.14	72.65	77.30	668.43	547.98	338.41	168.49	52.38	40.93	48.03	16.02	
27	34.02	48.03	147.46	59.01	591.32	394.81	318.63	123.55	52.38	39.53	63.50	16.02	
28	40.93	48.03	123.55	52.38	473.51	499.90	291.27	106.92	86.73	39.53	36.76	14.83	
29	46.59	68.05	84.35	50.19	478.77	460.93	310.77	219.22	59.01	39.53	36.76	14.83	
30	46.59	63.50	79.64	48.03	1068.57	362.40	256.72	172.04	61.25	39.53		14.83	
31		40.93		46.59	1344.49		279.68		81.99	39.53		32.67	
Total	1557.10	1488.82	4458.63	2296.77	26076.66	33445.44	18480.26	10830.64	2345.11	1506.58	2636.57	803.99	105926.57 Tonday
Mean	51.90	48.03	148.62	74.09	841.18	1114.85	596.14	361.02	75.65	48.60	90.92	25.94	289.42 Ton/day
Max	89.11	86.73	580.44	154.42	3599.42	2649.40	1887.38	1032.60	182.76	72.65	1080.61	36.76	3599.42 Ton/day
Min	34.02	38.14	40.93	39.53	46.59	362.40	256.72	106.92	52.38	39.53	34.02	14.83	14.83 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Sao Thong	<b>Amphoe</b> Ron Phibun	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	252 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - 2009 , 2012 - Cont'd		
<b>Actual Measurement</b>	1998 - 2009 , 2012 - Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.9244		
<b>Remarks</b>	Continued Sediment Station		

QS = 2.4309 QW<sup>1.50890</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.18	37.49	16.10	2.73	2.73	26.58	9.98	29.68	755.29	26.58	5.75	4.21	
2	15.41	25.52	10.52	3.40	2.73	26.58	15.41	27.57	896.63	25.52	5.75	4.21	
3	13.40	16.79	24.55	3.16	2.73	16.79	11.06	29.68	580.71	25.52	5.22	4.21	
4	11.06	14.06	51.35	3.16	2.96	12.76	15.41	16.79	1283.95	26.58	4.71	4.21	
5	8.43	46.80	24.55	5.03	2.96	11.62	29.68	12.76	840.69	23.52	4.71	4.21	
6	7.02	28.66	19.69	3.95	5.03	9.98	42.40	12.76	397.92	20.74	4.71	4.21	
7	8.43	17.50	69.19	2.96	4.66	6.61	34.04	13.40	260.50	20.74	4.71	4.21	
8	6.61	11.06	45.31	2.73	3.16	8.94	19.69	15.41	196.10	20.74	4.71	4.21	
9	3.95	12.76	29.68	2.54	2.96	7.02	14.06	67.49	164.76	25.52	5.75	4.21	
10	3.16	21.57	27.57	2.54	2.73	9.98	12.76	51.35	135.31	20.74	6.87	4.21	
11	2.96	19.69	18.22	4.30	6.61	7.45	23.52	21.57	107.89	20.74	11.62	4.71	
12	1.57	23.52	14.73	12.18	9.45	7.45	24.55	12.18	91.22	20.74	19.84	4.71	
13	4.30	20.66	11.62	22.58	12.76	5.41	20.66	9.98	78.46	20.74	17.22	6.30	
14	4.66	15.41	9.45	19.69	7.93	5.41	20.66	9.98	71.24	19.84	10.88	6.30	
15	5.41	21.57	7.45	16.10	4.30	7.93	17.50	22.58	67.72	19.84	8.10	6.30	
16	7.93	22.58	6.61	14.73	5.41	10.52	14.73	76.69	110.54	19.84	5.75	4.71	
17	18.22	48.30	5.80	18.22	11.62	8.43	14.73	39.83	97.90	18.95	4.71	4.21	
18	18.95	28.66	6.61	20.66	16.10	8.94	65.81	27.57	95.62	18.95	4.21	4.21	
19	11.06	18.22	8.43	29.68	10.52	7.02	130.36	62.60	126.87	18.95	8.10	4.21	
20	7.02	39.83	7.02	31.83	5.41	5.80	186.50	100.08	141.04	16.37	12.37	4.21	
21	11.06	25.52	5.41	23.52	2.96	7.93	396.28	778.27	93.47	14.73	6.87	5.22	
22	16.79	14.06	5.03	17.50	2.96	8.94	148.32	988.33	73.08	12.37	4.71	1.94	
23	11.06	14.06	4.30	13.40	6.20	6.61	91.60	267.63	60.86	8.77	4.21	5.03	
24	5.80	20.66	5.41	11.06	4.66	5.41	133.89	146.86	54.66	8.10	4.21	8.43	
25	3.16	20.66	4.30	8.94	2.96	2.96	51.35	102.66	50.22	7.45	5.22	18.22	
26	2.73	18.22	3.61	8.94	2.14	8.94	32.98	113.21	45.81	6.87	4.21	14.06	
27	1.77	13.40	3.40	7.93	1.57	13.40	35.21	152.75	40.96	6.87	4.21	11.06	
28	1.57	10.52	2.96	5.80	1.57	10.52	34.04	542.77	32.98	6.87	4.21	10.52	
29	1.77	7.93	2.96	3.40	6.61	10.52	26.58	1273.33	29.68	6.30	4.21	11.62	
30	64.15	7.45	2.73	2.96	24.55	9.98	18.95	832.80	26.58	6.30		11.62	
31		15.41		2.96	40.96		14.06		24.55	6.30		9.98	
Total	291.59	658.54	454.56	328.58	219.90	296.43	1706.77	5858.56	7033.21	522.09	197.75	199.67	17767.65 Ton/day
Mean	9.72	21.24	15.15	10.60	7.09	9.88	55.06	195.29	226.88	16.84	6.82	6.44	48.55 Ton/day
Max	64.15	48.30	69.19	31.83	40.96	26.58	396.28	1273.33	1283.95	26.58	19.84	18.22	1283.95 Ton/day
Min	1.57	7.45	2.73	2.54	1.57	2.96	9.98	9.98	24.55	6.30	4.21	1.94	1.57 Ton/day

## WATER YEAR : 2019

## SOUTHERN PENINSULA EAST COAST

## Lower Khlong Lang Suan at Thanon Luk Suea , Chumphon (X.212)

Lat 09 - 57 - 17 N Long 99 - 04 - 48 E

Location : on left bank at the bridge.

	<b>Ban -</b>	<b>Amphoe</b>	Lang Suan	<b>Changwat</b>	Chumphon
<b>Drainage Area</b>	1,406	sq.km.			
<b>Method of sampling</b>	Depth Integrating				
<b>Instrument Used</b>	US DH - 49				
<b>Period of Available Records</b>	2015 - Cont' d				
<b>Actual Measurement</b>	2015 - Cont' d				
<b>Using Rating Curve Water Year</b>	2019				
<b>Number of observation</b>	18				
<b>R-Square</b>	0.8558				
<b>Remarks</b>	Continued Sediment Station				

$$QS = 0.4769 QW^{1.65780}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	838.97	605.46	679.94	424.08	362.80	4003.24	1225.64	160.93	252.90	198.33	257.68	85.04		
2	966.80	731.47	617.64	251.94	434.66	2276.07	1010.99	207.06	224.96	130.35	168.98	97.76		
3	952.24	811.55	629.91	296.19	1025.89	1408.97	1137.82	185.52	625.81	116.03	103.04	116.03		
4	825.22	679.94	605.46	434.66	731.47	1574.63	880.78	153.05	1239.93	116.03	109.11	103.04		
5	937.77	744.59	617.64	456.13	771.10	5388.38	1408.97	173.05	352.95	149.16	130.35	97.76		
6	996.17	534.46	605.46	489.09	894.90	3666.98	1488.96	185.52	207.06	103.04	160.93	130.35		
7	952.24	569.52	546.05	569.52	744.59	1706.68	1553.04	168.98	320.93	77.75	116.03	109.11		
8	880.78	629.91	581.41	797.98	522.97	1172.64	1137.82	164.94	399.80	97.76	112.55	116.03		
9	937.77	534.46	511.58	744.59	593.39	996.17	1190.20	267.35	215.93	109.11	189.75	112.55		
10	811.55	692.68	705.52	718.45	2999.57	1137.82	981.44	302.30	194.02	87.53	284.11	92.59		
11	757.80	731.47	692.68	718.45	2007.05	952.24	825.22	153.05	164.94	85.04	207.06	80.15		
12	784.49	757.80	522.97	546.05	5292.50	880.78	811.55	194.02	164.94	73.03	156.97	77.75		
13	811.55	811.55	445.34	413.60	1983.26	667.29	160.93	207.06	181.33	134.03	134.03	92.59		
14	811.55	811.55	434.66	413.60	1120.57	605.46	198.33	211.48	168.98	149.16	95.16	95.16		
15	852.82	909.10	424.08	445.34	1297.76	1488.96	220.43	379.44	153.05	123.10	85.04	134.03		
16	852.82	744.59	269.30	403.23	1190.20	4583.33	243.44	238.76	145.32	80.15	73.03	160.93		
17	852.82	593.39	569.52	445.34	1553.04	4541.30	302.30	177.17	123.10	54.33	80.15	189.75		
18	923.39	654.73	617.64	434.66	1371.50	6257.88	359.50	181.33	126.70	112.55	257.68	168.98		
19	825.22	654.73	534.46	581.41	981.44	3091.64	327.24	238.76	97.76	130.35	267.35	130.35		
20	784.49	534.46	593.39	642.27	811.55	2176.69	457.33	392.96	119.54	109.11	185.52	126.70		
21	852.82	581.41	731.47	667.29	771.10	1640.13	753.39	399.80	156.97	119.54	248.15	85.04		
22	838.97	617.64	534.46	784.49	757.80	1446.84	399.80	234.13	54.33	100.39	290.12	70.72		
23	852.82	534.46	705.52	705.52	705.52	1729.10	248.15	198.33	73.03	90.04	229.52	90.04		
24	825.22	500.28	667.29	654.73	679.94	1553.04	194.02	194.02	97.76	82.58	220.43	95.16		
25	811.55	534.46	593.39	569.52	692.68	1596.35	202.68	198.33	100.39	90.04	207.06	145.32		
26	731.47	478.00	489.09	581.41	1408.97	1279.57	202.68	189.75	75.37	68.43	103.04	105.72		
27	797.98	617.64	434.66	679.94	966.80	1040.88	202.68	189.75	80.15	66.18	185.52	80.15		
28	757.80	718.45	403.23	557.74	866.76	966.80	185.52	207.06	164.94	90.04	207.06	90.04		
29	679.94	692.68	403.23	534.46	909.10	880.78	181.33	302.30	119.54	85.04	103.04	87.53		
30	757.80	642.27	392.96	424.08	3247.54	909.10	207.06	424.08	80.15	95.16		100.39		
31		718.45		382.80	6374.03		168.98		112.55	220.43		68.43		
Total	25262.83	20373.15	16559.95	16768.56	44070.45	61619.74	18868.22	6880.28	6595.13	3343.81	4968.46	3335.19	228645.77	Ton/day
Mean	842.09	657.20	552.00	540.92	1421.63	2053.99	608.65	229.34	212.75	107.86	171.33	107.59	624.72	Ton/day
Max	996.17	909.10	731.47	797.98	6374.03	6257.88	1553.04	424.08	1239.93	220.43	290.12	189.75	6374.03	Ton/day
Min	679.94	478.00	269.30	251.94	362.80	605.46	160.93	153.05	54.33	54.33	73.03	68.43	54.33	Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Hat Nai</b>	<b>Amphoe</b>	<b>Tha Sae</b>	<b>Changwat</b>	<b>Chumphon</b>
<b>Drainage Area</b>	691	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US DH - 49					
<b>Period of Available Records</b>	2006 - Cont' d					
<b>Actual Measurement</b>	2006 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	18					
<b>R-Square</b>	0.8519					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.9154 QW^{1.38190}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	44.61	21.18	16.46	66.39	31.52	797.22	332.45	119.62	88.29	88.29	21.18	17.12	
2	29.98	17.78	41.22	49.83	44.61	1009.40	302.99	180.53	86.23	86.23	26.95	16.46	
3	31.52	15.18	82.15	80.13	55.20	510.35	251.94	535.71	86.23	86.23	24.02	15.18	
4	31.52	13.31	64.49	72.19	64.49	658.38	285.69	404.54	84.19	84.19	22.59	15.82	
5	22.59	29.98	46.33	64.49	84.19	1560.54	263.06	332.45	78.12	78.12	19.80	14.55	
6	19.80	22.59	55.20	66.39	154.62	785.85	326.50	344.44	76.13	76.13	19.12	11.50	
7	19.12	19.12	78.12	55.20	191.97	460.67	251.94	326.50	72.19	72.19	18.45	12.10	
8	19.80	17.12	88.29	44.61	215.42	388.88	188.14	452.53	70.24	70.24	17.78	13.92	
9	17.78	21.18	64.49	51.60	1209.08	428.35	176.77	251.94	66.39	66.39	17.78	12.10	
10	17.12	19.12	72.19	44.61	3543.41	428.35	219.40	180.53	66.39	66.39	17.78	11.50	
11	18.45	17.12	60.72	34.68	2535.97	257.48	285.69	151.01	64.49	64.49	17.78	10.34	
12	17.12	17.12	60.72	29.98	1378.40	231.45	297.19	136.81	62.60	62.60	18.45	9.22	
13	22.59	17.12	42.91	26.95	518.76	191.97	223.40	129.86	62.60	62.60	18.45	8.13	
14	24.02	13.92	33.09	22.59	373.39	279.98	188.14	136.81	60.72	60.72	17.12	8.13	
15	22.59	13.92	31.52	19.80	326.50	1133.03	203.60	158.26	58.87	58.87	17.12	7.60	
16	19.80	11.50	26.95	19.80	518.76	1221.88	211.46	133.32	57.03	57.03	15.82	7.60	
17	34.68	11.50	169.29	24.02	561.40	1496.88	191.97	119.62	55.20	55.20	15.18	6.57	
18	33.09	13.31	373.39	36.28	291.42	1391.68	235.51	112.93	53.39	53.39	64.49	6.07	
19	60.72	12.70	151.01	58.87	211.46	1070.72	468.85	119.62	51.60	51.60	219.40	6.57	
20	29.98	10.92	78.12	28.45	169.29	685.56	381.11	109.62	55.20	55.20	70.24	6.57	
21	21.18	9.77	68.31	24.02	158.26	535.71	365.71	109.62	64.49	64.49	44.61	6.07	
22	18.45	8.13	60.72	24.02	158.26	527.22	308.82	106.34	57.03	57.03	42.91	5.11	
23	15.82	8.13	41.22	31.52	158.26	763.24	268.67	99.87	53.39	53.39	42.91	4.19	
24	14.55	7.60	37.91	36.28	136.81	381.11	195.83	96.67	48.07	48.07	44.61	4.19	
25	12.70	16.46	39.56	33.09	297.19	308.82	169.29	93.51	46.33	46.33	41.22	3.33	
26	12.70	15.82	78.12	42.91	344.44	268.67	154.62	93.51	44.61	44.61	26.95	2.92	
27	18.45	17.78	86.23	42.91	291.42	251.94	151.01	90.37	46.33	46.33	18.45	2.52	
28	19.80	19.12	66.39	36.28	235.51	263.06	203.60	93.51	44.61	44.61	17.12	2.14	
29	15.82	15.18	53.39	33.09	381.11	263.06	191.97	106.34	55.20	55.20	17.12	2.14	
30	17.78	14.55	60.72	31.52	854.76	199.70	143.86	96.67	57.03	57.03		2.14	
31		15.82		33.09	676.46		129.86		51.60	51.60		2.14	
Total	704.13	484.05	2229.23	1265.59	16172.34	18751.15	7569.04	5423.06	1924.79	1924.79	975.40	253.94	57677.51 Ton/day
Mean	23.47	15.61	74.31	40.83	521.69	625.04	244.16	180.77	62.09	62.09	33.63	8.19	157.59 Ton/day
Max	60.72	29.98	373.39	80.13	3543.41	1560.54	468.85	535.71	88.29	88.29	219.40	17.12	3543.41 Ton/day
Min	12.70	7.60	16.46	19.80	31.52	191.97	129.86	90.37	44.61	44.61	15.18	2.14	2.14 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban Bu Kae Ta</b>	<b>Amphoe Waeng</b>	<b>Changwat Narathiwat</b>
<b>Drainage Area</b>	86 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	2019 - Cont' d		
<b>Actual Measurement</b>	2019 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	23		
<b>R-Square</b>	0.8398		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.6326 QW^{1.21580}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.78	16.90	30.41	63.39	45.10	54.10	45.10	55.41	1838.32	149.31	72.46	68.80	
2	72.46	26.90	29.23	43.84	45.10	45.10	100.85	93.11	4894.27	153.49	79.86	68.80	
3	50.21	13.77	23.48	33.98	42.58	47.64	246.15	83.61	1593.75	166.16	78.00	66.99	
4	24.61	13.77	21.25	30.41	41.33	59.82	118.62	91.20	572.53	147.22	72.46	65.18	
5	17.97	13.77	25.75	29.23	42.58	83.61	89.29	234.80	398.33	143.07	68.80	63.39	
6	16.90	12.75	124.66	26.90	41.33	58.05	172.56	201.33	331.11	143.07	66.99	61.60	
7	15.85	11.75	48.92	29.23	40.09	98.90	118.62	234.80	292.48	143.07	66.99	85.50	
8	14.80	10.11	38.85	59.82	38.85	277.85	108.68	194.20	322.12	155.59	65.18	70.62	
9	14.80	9.47	55.41	51.50	38.85	929.52	93.11	234.80	340.15	143.07	63.39	61.60	
10	14.80	9.47	116.62	43.84	38.85	266.24	189.84	134.83	280.76	143.07	138.94	59.82	
11	13.77	8.20	48.92	70.62	46.37	215.16	243.30	161.92	243.30	143.07	1631.95	58.05	
12	13.77	7.58	89.29	76.14	176.85	145.15	223.54	192.02	212.38	141.00	480.69	58.05	
13	12.75	8.20	126.68	66.99	81.73	155.59	243.30	176.85	187.66	134.83	223.54	55.41	
14	10.76	23.48	46.37	124.66	176.85	126.68	134.83	189.84	192.02	134.83	176.85	51.50	
15	10.11	21.25	46.37	45.10	132.79	96.97	143.07	147.22	223.54	132.79	147.22	50.21	
16	10.11	24.61	43.84	46.37	89.29	87.39	100.85	153.49	304.27	108.68	147.22	50.21	
17	10.11	26.90	78.00	45.10	91.20	95.04	83.61	134.83	649.69	95.04	147.22	50.21	
18	10.76	24.61	114.63	45.10	141.00	112.64	78.00	126.68	7593.71	114.63	151.40	48.92	
19	12.75	22.36	132.79	124.66	79.86	72.46	76.14	130.75	1606.47	157.70	145.15	47.64	
20	11.75	25.75	68.80	56.73	78.00	66.99	74.29	118.62	649.69	168.29	120.63	46.37	
21	10.11	24.61	46.37	72.46	132.79	68.80	66.99	106.71	452.09	130.75	87.39	42.58	
22	10.11	23.48	42.58	59.82	83.61	95.04	59.82	118.62	361.39	110.66	81.73	42.58	
23	10.76	35.19	40.09	104.75	187.66	63.39	79.86	118.62	304.27	100.85	134.83	56.73	
24	10.11	20.15	38.85	61.60	513.76	68.80	149.31	108.68	266.24	93.11	147.22	55.41	
25	9.47	164.04	35.19	68.80	229.16	63.39	138.94	149.31	237.63	85.50	100.85	52.80	
26	9.47	68.80	38.85	66.99	151.40	55.41	108.68	164.04	220.74	79.86	87.39	50.21	
27	9.47	45.10	52.80	189.84	95.04	51.50	66.99	157.70	206.84	76.14	85.50	41.33	
28	22.36	46.37	32.78	108.68	81.73	50.21	59.82	260.47	194.20	76.14	83.61	40.09	
29	15.85	132.79	33.98	65.18	72.46	48.92	58.05	1453.53	181.16	76.14	74.29	40.09	
30	40.09	47.64	70.62	51.50	63.39	47.64	55.41	1138.31	170.43	74.29		38.85	
31		35.19		45.10	61.60		55.41		159.81	70.62		37.62	
Total	539.62	974.96	1742.38	2008.33	3181.20	3708.00	3583.03	6866.30	25481.35	3792.04	5027.75	1687.16	58592.12 Tonday
Mean	17.99	31.45	58.08	64.78	102.62	123.60	115.58	228.88	821.98	122.32	173.37	54.42	160.09 Ton/day
Max	72.46	164.04	132.79	189.84	513.76	929.52	246.15	1453.53	7593.71	168.29	1631.95	85.50	7593.71 Ton/day
Min	9.47	7.58	21.25	26.90	38.85	45.10	45.10	55.41	159.81	70.62	63.39	37.62	7.58 Ton/day

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)

Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

	Ban Tha Khanon	Amphoe Khiri Ratnikhom	Changwat	Surat Thani
Drainage Area	2,968 sq.km.			
Method of sampling	Depth Integrating			
Instrument Used	US DH - 49			
Period of Available Records	1989 - Cont' d			
Actual Measurement	1989 - 1999 , 2003-2005, 2012 - Cont' d			
Using Rating Curve Water Year	2019			
Number of observation	13			
R-Square	0.7254			
Remarks	Continued Sediment Station			

$$QS = 0.0712 QW^{2.08920}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	542.10	1222.27	1256.11	1506.52	645.78	9715.99	1205.53	954.01	1205.53	239.84	467.97	867.57	
2	1014.02	1682.89	1593.43	1682.89	1029.32	6921.73	1380.91	924.72	564.32	319.74	509.63	488.57	
3	1549.66	1325.24	1528.01	881.68	1549.66	3734.43	1528.01	1044.74	531.16	467.97	221.73	939.30	
4	1222.27	2091.61	2246.95	298.64	1443.00	2380.83	1188.91	867.57	825.95	428.16	380.98	1188.91	
5	1380.91	633.79	2408.09	732.98	204.36	1549.66	3213.52	1728.58	598.53	520.34	839.70	910.25	
6	1029.32	488.57	1660.29	531.16	745.91	1464.02	5216.23	1307.77	610.17	798.80	910.25	1222.27	
7	1360.52	1966.59	3213.52	2380.83	520.34	1422.14	4131.55	1615.56	499.05	657.89	531.16	1239.13	
8	328.14	3970.19	2016.12	6570.90	478.21	1893.51	3394.88	2041.12	399.51	298.64	488.57	1869.47	
9	1893.51	4379.87	1917.71	6285.79	380.98	853.58	4213.48	4131.55	124.10	895.91	467.97	954.01	
10	1222.27	3657.52	2435.51	6921.73	1290.43	1422.14	1966.59	2900.13	447.83	564.32	399.51	1549.66	
11	1751.66	2603.46	3142.43	6570.90	2490.85	939.30	1593.43	2435.51	1044.74	633.79	682.45	1060.28	
12	1256.11	2016.12	2016.12	5789.19	4988.75	998.84	1798.30	1821.87	271.68	488.57	610.17	1893.51	
13	1256.11	531.16	3285.44	4943.88	5124.60	1360.52	772.11	2220.66	354.05	478.21	271.68	3072.16	
14	1172.41	1342.82	1682.89	3695.87	1728.58	910.25	1029.32	772.11	418.49	853.58	694.90	2603.46	
15	825.95	1682.89	1728.58	4337.96	1528.01	1107.62	968.83	785.40	362.91	233.72	305.59	3468.88	
16	1172.41	1422.14	1325.24	6062.45	2518.76	2463.10	1325.24	1239.13	598.53	657.89	621.92	1728.58	
17	1485.19	2142.75	1091.72	5843.32	4379.87	7652.00	1091.72	1273.21	670.11	399.51	265.15	3431.78	
18	2273.40	1798.30	1637.85	6342.28	2777.25	4592.59	758.95	798.80	895.91	1014.02	598.53	2117.10	
19	1060.28	1325.24	2016.12	10072.98	1660.29	3506.19	1401.45	1156.03	278.30	380.98	399.51	1401.45	
20	1845.59	1728.58	1139.77	17197.03	1845.59	3037.34	881.68	531.16	265.15	11.08	478.21	939.30	
21	1256.11	2380.83	2066.29	15355.95	553.15	2632.02	1705.66	1044.74	210.07	924.72	621.92	1205.53	
22	881.68	1239.13	2142.75	4854.79	745.91	2220.66	2041.12	670.11	362.91	758.95	621.92	812.31	
23	1091.72	1422.14	1307.77	1123.63	745.91	3249.38	1821.87	478.21	390.19	1014.02	380.98	418.49	
24	1549.66	1188.91	610.17	968.83	1060.28	1728.58	1239.13	645.78	271.68	305.59	312.62	895.91	
25	1060.28	1222.27	1682.89	694.90	670.11	2575.06	1751.66	939.30	354.05	390.19	745.91	1075.94	
26	1091.72	1205.53	1869.47	732.98	1060.28	3002.73	2603.46	732.98	227.69	488.57	1443.00	983.77	
27	1075.94	1966.59	1991.28	1307.77	1571.47	1325.24	1156.03	732.98	312.62	319.74	968.83	1156.03	
28	1075.94	2575.06	1014.02	265.15	2806.78	1172.41	924.72	509.63	239.84	531.16	1380.91	1091.72	
29	457.85	1029.32	1593.43	467.97	3431.78	1728.58	825.95	1123.63	142.22	467.97	954.01	1307.77	
30	1239.13	1325.24	1342.82	645.78	5575.32	1549.66	1172.41	910.25	265.15	488.57		246.04	
31		1549.66		284.99	9227.47		772.11		291.78	610.17		1188.91	
Total	36421.86	55116.68	54962.79	#####	64779.00	79110.10	55074.76	38337.24	14034.22	16642.61	17575.68	43328.06	600734.72 Ton/day
Mean	1214.06	1777.96	1832.09	4043.60	2089.65	2637.00	1776.61	1277.91	452.72	536.86	606.06	1397.68	1641.35 Ton/day
Max	2273.40	4379.87	3285.44	17197.03	9227.47	9715.99	5216.23	4131.55	1205.53	1014.02	1443.00	3468.88	17197.03 Ton/day
Min	328.14	488.57	610.17	265.15	204.36	853.58	758.95	478.21	124.10	11.08	221.73	246.04	11.08 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban</b> Yan Din Daeng	<b>Amphoe</b> Phrasaeng	<b>Changwat</b> Surat Thani
<b>Drainage Area</b>	5,383 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 49		
<b>Period of Available Records</b>	1990 - Cont' d		
<b>Actual Measurement</b>	1990 - 2000 , 2002 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	17		
<b>R-Square</b>	0.8742		
<b>Remarks</b>	Continued Sediment Station		

QS = 2.0956 QW<sup>1.35590</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	166.52	270.08	759.85	222.45	234.13	2928.40	1304.39	1686.64	1548.33	230.22	89.94	55.46		
2	195.82	298.95	808.29	199.57	218.59	3197.77	1703.11	1613.03	1727.90	222.45	86.91	53.12		
3	234.13	358.92	858.88	184.69	207.13	3211.40	1703.11	1826.31	1756.11	214.75	83.90	50.81		
4	266.02	354.54	1093.88	177.36	210.93	2704.43	1826.31	2020.42	1727.90	210.93	80.92	48.53		
5	253.94	270.08	838.27	173.73	218.59	2145.62	2434.37	2041.15	1532.27	203.34	77.97	46.27		
6	238.06	266.02	701.73	166.52	210.93	1670.21	3376.14	1958.57	1350.74	195.82	75.05	44.04		
7	214.75	222.45	1057.33	159.39	203.34	1160.48	3642.73	1897.22	1130.75	188.38	72.52	96.10		
8	210.93	184.69	1492.30	148.86	199.57	813.72	3607.74	1948.31	935.55	181.02	70.01	199.57		
9	188.38	166.52	1421.06	141.94	184.69	680.90	3486.55	2574.90	792.06	173.73	67.52	118.43		
10	195.82	195.82	1374.08	135.11	188.38	831.44	3403.80	3486.55	712.21	173.73	65.06	70.01		
11	177.36	245.96	1319.80	128.37	270.08	1312.09	3143.40	3871.32	660.24	173.73	65.06	55.46		
12	155.86	261.98	1050.05	128.37	482.17	1588.69	2928.40	3555.61	609.32	166.52	65.06	48.53		
13	145.39	242.00	712.21	138.52	712.21	1629.31	2782.95	2835.62	554.58	162.95	70.01	44.04		
14	162.95	226.33	530.15	141.94	569.38	1436.81	2717.48	2177.23	510.82	159.39	108.71	44.04		
15	159.39	214.75	444.67	145.39	496.44	1350.74	2459.76	1746.14	472.72	159.39	195.82	41.85		
16	367.71	234.13	381.01	145.39	491.67	1327.52	2187.79	1604.91	453.97	155.86	181.02	39.68		
17	298.95	270.08	354.54	155.86	584.27	1235.67	2030.78	1444.70	468.02	145.39	155.86	37.54		
18	234.13	363.31	350.18	207.13	1243.26	1153.03	1736.19	1296.71	486.92	141.94	121.72	35.44		
19	199.57	345.83	324.30	324.30	1564.44	1035.55	1653.82	1182.91	468.02	135.11	102.35	33.37		
20	166.52	350.18	381.01	781.28	1057.33	963.85	1836.40	1342.99	449.31	131.73	96.10	31.33		
21	155.86	372.13	412.52	1572.51	629.56	1079.22	1927.83	1476.39	435.42	128.37	108.71	29.32		
22	170.11	376.57	358.92	1492.30	458.64	1064.61	1948.31	1500.27	412.52	125.04	89.94	29.32		
23	207.13	440.04	337.17	1042.80	520.46	942.60	2020.42	1999.75	367.71	121.72	75.05	27.35		
24	152.35	579.30	372.13	670.55	559.50	1115.96	2294.15	2230.17	345.83	118.43	70.01	25.42		
25	135.11	599.27	403.45	482.17	491.67	1093.88	2626.51	1653.82	324.30	115.17	67.52	27.35		
26	148.86	501.22	367.71	440.04	444.67	1028.32	2835.62	1273.73	372.13	108.71	65.06	27.35		
27	166.52	463.32	354.54	398.94	477.44	956.75	3008.56	1028.32	403.45	105.52	62.62	27.35		
28	128.37	453.97	337.17	345.83	604.29	956.75	3062.31	900.49	345.83	102.35	60.21	31.33		
29	121.72	345.83	290.63	303.14	680.90	845.13	2782.95	970.96	286.49	99.21	55.46	25.42		
30	166.52	278.25	249.94	282.36	1108.59	802.87	2434.37	1374.08	257.95	99.21		29.32		
31		311.56		253.94	2145.62		2051.53		242.00	93.01		33.37		
Total	5784.75	10064.08	19737.77	11290.75	17668.87	42263.72	76957.78	56519.22	22141.37	4743.12	2586.09	1506.52	271264.04	Ton/day
Mean	192.83	324.65	657.93	364.22	569.96	1408.79	2482.51	1883.97	714.24	153.00	89.18	48.60	741.16	Ton/day
Max	367.71	599.27	1492.30	1572.51	2145.62	3211.40	3642.73	3871.32	1756.11	230.22	195.82	199.57	3871.32	Ton/day
Min	121.72	166.52	249.94	128.37	184.69	680.90	1304.39	900.49	242.00	93.01	55.46	25.42	25.42	Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Tha Pho	<b>Amphoe</b> Chawang	<b>Changwat</b> Nakhon Si Thammarat
<b>Drainage Area</b>	488 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - Cont'd		
<b>Actual Measurement</b>	1998 - 2002, 2005-2006, 2011 - Cont'd		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7675		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1932 QW^{1.23720}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.90	37.99	37.99	23.39	36.09	125.17	94.82	106.30	312.10	49.73	21.95	15.04	
2	37.99	34.21	43.78	21.95	39.90	120.40	94.82	81.39	219.97	45.75	20.53	13.73	
3	37.99	32.36	41.83	21.95	43.78	106.30	99.38	81.39	174.70	47.73	20.53	13.73	
4	41.83	30.52	41.83	21.95	39.90	97.10	94.82	79.19	234.29	47.73	20.53	13.73	
5	39.90	34.21	37.99	21.95	39.90	90.30	92.56	101.68	202.32	43.78	19.13	13.73	
6	39.90	32.36	43.78	20.53	55.82	83.60	108.63	132.39	167.92	41.83	17.75	12.43	
7	39.90	34.21	77.00	20.53	49.73	79.19	113.31	120.40	139.69	39.90	17.75	12.43	
8	37.99	36.09	68.37	19.13	41.83	74.83	115.66	147.06	125.17	39.90	17.75	12.43	
9	36.09	53.77	59.95	19.13	41.83	81.39	110.96	315.91	120.40	43.78	17.75	12.43	
10	34.21	43.78	70.51	20.53	64.13	184.97	101.68	223.53	113.31	39.90	17.75	11.16	
11	34.21	49.73	57.88	39.90	64.13	127.57	113.31	144.60	103.99	37.99	19.13	11.16	
12	34.21	41.83	49.73	37.99	77.00	106.30	113.31	120.40	97.10	37.99	36.09	11.16	
13	34.21	37.99	45.75	43.78	66.25	97.10	110.96	103.99	90.30	36.09	26.91	11.16	
14	34.21	37.99	41.83	37.99	57.88	90.30	113.31	97.10	85.82	36.09	21.95	11.16	
15	32.36	32.36	39.90	34.21	53.77	101.68	106.30	90.30	83.60	34.21	19.13	9.92	
16	37.99	30.52	43.78	36.09	85.82	90.30	110.96	85.82	90.30	34.21	17.75	9.92	
17	41.83	41.83	41.83	39.90	85.82	70.51	108.63	81.39	85.82	32.36	17.75	9.92	
18	37.99	36.09	37.99	53.77	90.30	72.66	129.98	79.19	85.82	32.36	16.38	8.71	
19	34.21	34.21	39.90	83.60	70.51	68.37	139.69	77.00	81.39	32.36	30.52	8.71	
20	36.09	36.09	36.09	74.83	62.04	72.66	147.06	74.83	81.39	32.36	23.39	8.71	
21	41.83	51.74	36.09	88.06	57.88	97.10	205.83	120.40	77.00	30.52	20.53	8.71	
22	37.99	43.78	30.52	70.51	70.51	92.56	188.41	147.06	74.83	30.52	17.75	7.53	
23	34.21	55.82	28.70	59.95	64.13	99.38	157.84	103.99	70.51	30.52	17.75	7.53	
24	32.36	53.77	30.52	51.74	62.04	103.99	174.70	88.06	68.37	28.70	19.13	9.92	
25	32.36	47.73	28.70	49.73	57.88	106.30	134.82	81.39	66.25	28.70	19.13	8.71	
26	30.52	43.78	34.21	45.75	57.88	110.96	115.66	83.60	59.95	28.70	16.38	8.71	
27	30.52	37.99	30.52	43.78	59.95	113.31	110.96	92.56	55.82	26.91	16.38	7.53	
28	30.52	34.21	28.70	45.75	72.66	103.99	108.63	154.51	53.77	25.14	15.04	7.53	
29	30.52	32.36	26.91	41.83	122.78	103.99	97.10	234.29	51.74	23.39	15.04	7.53	
30	41.83	37.99	25.14	37.99	137.25	97.10	85.82	278.23	49.73	21.95		7.53	
31		39.90		37.99	139.69		72.66		47.73	21.95		7.53	
<b>Total</b>	1085.67	1227.21	1257.72	1266.18	2069.08	2969.38	3672.58	3727.95	3371.10	1083.05	577.55	320.13	22627.60 Ton/day
<b>Mean</b>	36.19	39.59	41.92	40.84	66.74	98.98	118.47	124.26	108.75	34.94	19.92	10.33	61.82 Ton/day
<b>Max</b>	41.83	55.82	77.00	88.06	139.69	184.97	205.83	315.91	312.10	49.73	36.09	15.04	315.91 Ton/day
<b>Min</b>	30.52	30.52	25.14	19.13	36.09	68.37	72.66	74.83	47.73	21.95	15.04	7.53	7.53 Ton/day

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)

Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban Bang Rup	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	866 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US DH - 49		
Period of Available Records	2009 - Cont' d		
Actual Measurement	2009 - Cont' d		
Using Rating Curve Water Year	2019		
Number of observation	17		
R-Square	0.9086		
Remarks	Continued Sediment Station		

$$QS = 5.4496 QW^{1.34490}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.39	71.78	26.05	20.21	21.76	855.32	321.62	530.75	265.62	20.21	10.25	5.45	
2	68.39	67.27	60.66	19.19	17.69	977.50	196.90	394.46	173.37	19.70	7.76	5.16	
3	67.27	61.75	147.22	18.69	17.69	1061.61	307.93	534.31	142.12	20.21	6.35	4.87	
4	67.27	54.22	252.60	17.69	18.19	1118.65	545.03	735.40	166.29	18.69	6.04	4.59	
5	70.65	44.68	385.70	16.71	18.69	1033.38	864.98	797.94	200.59	17.20	6.04	4.31	
6	75.21	36.11	509.52	16.71	16.22	394.46	1497.17	776.95	157.55	16.71	6.04	3.77	
7	77.52	27.37	621.54	16.22	14.31	120.74	1463.23	658.86	109.21	16.22	6.04	3.50	
8	74.06	24.96	806.37	14.78	12.92	81.01	1389.90	441.30	82.18	15.74	6.04	3.50	
9	71.78	23.88	879.53	13.38	12.92	85.73	1358.12	632.68	70.65	15.74	6.04	3.24	
10	70.65	24.96	860.15	12.46	13.84	184.14	1377.16	944.37	75.21	15.26	5.74	2.99	
11	70.65	36.11	698.51	13.38	17.69	338.20	1364.46	955.38	67.27	14.78	5.74	2.99	
12	69.52	40.34	307.93	13.38	38.63	527.19	1396.27	723.05	56.35	14.78	5.74	2.50	
13	69.52	37.79	142.12	12.01	61.75	335.46	1332.83	548.61	49.14	13.38	5.74	2.26	
14	69.52	35.28	90.52	12.01	42.06	175.16	827.56	276.60	46.45	14.31	9.40	1.81	
15	68.39	28.04	65.05	11.57	32.82	226.87	454.01	261.26	42.06	17.20	34.45	1.38	
16	67.27	24.42	44.68	12.46	30.06	281.02	516.57	289.92	40.34	13.84	13.84	1.18	
17	62.85	23.35	61.75	12.01	76.36	303.40	441.30	193.23	38.63	12.01	19.70	0.98	
18	59.57	21.24	65.05	20.73	438.13	274.39	464.29	142.12	45.56	11.57	13.84	0.80	
19	57.42	19.70	89.32	66.16	527.19	180.53	682.28	228.78	46.45	11.12	9.40	0.98	
20	55.28	18.69	195.06	217.39	259.09	509.52	913.71	457.43	43.80	12.46	6.96	0.98	
21	51.08	28.71	134.06	425.54	58.49	751.95	860.15	434.97	41.20	11.12	6.04	0.80	
22	50.04	45.56	72.92	495.49	81.01	294.40	776.95	444.46	36.11	9.83	6.04	0.80	
23	49.14	60.66	54.22	259.09	71.78	148.93	731.28	566.62	31.43	8.57	5.74	0.80	
24	57.42	78.68	66.16	77.52	48.24	189.58	789.52	326.21	29.38	8.57	5.74	0.80	
25	72.92	56.35	50.04	59.57	31.43	219.28	966.43	248.29	28.04	7.76	5.74	0.80	
26	76.36	40.34	51.08	38.63	29.38	155.81	1234.98	178.73	26.70	7.76	5.45	0.80	
27	75.21	32.12	45.56	39.48	42.93	204.29	1326.53	140.43	24.96	7.36	5.45	0.80	
28	75.21	27.37	36.95	30.74	44.68	256.92	1182.27	137.07	23.35	7.36	5.45	0.80	
29	75.21	25.50	29.38	24.96	92.94	168.05	1067.28	159.29	23.35	6.96	5.45	0.80	
30	74.06	24.42	22.82	31.43	276.60	326.21	802.15	232.61	22.29	7.36		0.63	
31		23.88		26.05	698.51		678.23		21.76	8.16		0.63	
Total	2017.83	1165.53	6872.52	2065.64	3164.00	11779.70	28131.09	13392.08	2227.41	401.94	242.25	65.70	71525.69 Tonday
Mean	67.26	37.60	229.08	66.63	102.06	392.66	907.45	446.40	71.85	12.97	8.35	2.12	195.43 Ton/day
Max	77.52	78.68	879.53	495.49	698.51	1118.65	1497.17	955.38	265.62	20.21	34.45	5.45	1497.17 Ton/day
Min	49.14	18.69	22.82	11.57	12.92	81.01	196.90	137.07	21.76	6.96	5.45	0.63	0.63 Ton/day

## WATER YEAR : 2019

## TAPI RIVER BASIN

## Khlong I - Pan at Ban Mai , Surat Thani (X.258)

Lat 08 - 32 - 53 N Long 99 - 06 - 36 E

Location : on left bank at Ban Mai.

	Ban Mai	Amphoe Phrasaeng	Changwat	Surat Thani
Drainage Area	2,060 sq.km.			
Method of sampling	Depth Integrating			
Instrument Used	US DH - 49			
Period of Available Records	2019 - Cont' d			
Actual Measurement	2019 - Cont' d			
Using Rating Curve Water Year	2019			
Number of observation	16			
R-Square	0.8298			
Remarks	Continued Sediment Station			

$$QS = 5.4286 QW^{1.27300}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.25	49.76	92.80	57.67	55.39	1228.54	541.99	176.36	92.80	57.67	37.88	38.93	
2	54.25	49.76	140.76	57.67	57.67	1086.70	414.78	383.52	127.02	57.67	36.83	38.93	
3	53.12	49.76	173.45	56.53	58.82	658.53	508.83	446.56	473.42	56.53	35.79	38.93	
4	53.12	48.66	204.51	56.53	59.97	272.90	287.39	306.95	277.71	56.53	34.76	38.93	
5	53.12	48.66	235.07	55.39	63.47	182.21	609.62	207.53	125.66	56.53	33.74	38.93	
6	53.12	48.66	263.33	55.39	63.47	167.66	908.14	173.45	105.69	55.39	31.70	38.93	
7	53.12	47.55	282.54	54.25	63.47	167.66	958.15	177.82	100.49	53.12	31.70	47.55	
8	52.00	47.55	260.16	54.25	63.47	167.66	567.15	287.39	100.49	53.12	30.70	38.93	
9	52.00	47.55	219.68	53.12	63.47	167.66	606.77	962.35	100.49	52.00	30.70	38.93	
10	52.00	46.45	179.28	53.12	63.47	173.45	399.09	1129.95	94.08	49.76	30.70	38.93	
11	52.00	53.12	151.96	52.00	86.50	167.66	222.74	785.71	81.53	47.55	30.70	38.93	
12	50.88	56.53	124.30	52.00	219.68	167.66	195.53	317.66	72.98	47.55	32.72	38.93	
13	50.88	61.13	105.69	52.00	166.22	166.22	225.81	186.63	70.57	47.55	42.12	36.83	
14	50.88	68.19	85.25	52.00	92.80	170.55	244.41	174.90	70.57	47.55	90.27	36.83	
15	58.82	79.06	69.38	52.00	122.95	219.68	212.07	191.07	70.57	47.55	70.57	36.83	
16	100.49	87.75	63.47	52.00	143.54	186.63	203.01	179.28	70.57	46.45	57.67	35.79	
17	68.19	84.00	62.30	52.00	263.33	176.36	203.01	176.36	70.57	44.28	50.88	33.74	
18	53.12	76.62	62.30	52.00	525.35	173.45	172.00	185.15	70.57	44.28	46.45	33.74	
19	52.00	74.19	61.13	62.30	194.04	169.10	173.45	189.58	70.57	44.28	45.36	33.74	
20	50.88	68.19	71.77	302.03	92.80	167.66	179.28	266.51	70.57	43.19	43.19	32.72	
21	49.76	64.64	76.62	357.88	79.06	167.66	172.00	225.81	70.57	43.19	42.12	32.72	
22	56.53	63.47	67.00	77.84	72.98	167.66	170.55	174.90	61.13	43.19	42.12	32.72	
23	80.29	63.47	63.47	61.13	71.77	224.27	215.10	302.03	58.82	43.19	42.12	31.70	
24	64.64	62.30	62.30	59.97	69.38	215.10	222.74	322.63	58.82	42.12	41.05	31.70	
25	56.53	62.30	62.30	57.67	68.19	188.11	300.40	157.63	58.82	41.05	39.99	31.70	
26	53.12	61.13	61.13	56.53	67.00	183.68	335.13	125.66	58.82	41.05	39.99	31.70	
27	52.00	61.13	61.13	56.53	81.53	186.63	528.12	108.31	58.82	41.05	39.99	31.70	
28	52.00	59.97	59.97	55.39	154.79	167.66	449.23	103.08	58.82	39.99	38.93	30.70	
29	50.88	59.97	58.82	54.25	233.52	167.66	261.74	97.91	58.82	39.99	38.93	30.70	
30	50.88	58.82	58.82	52.00	530.88	185.15	298.77	92.80	58.82	39.99		30.70	
31		58.82		52.00	1001.32		203.01		57.67	39.99		30.70	
Total	1684.87	1869.16	3540.69	2275.44	4950.30	7891.52	10990.01	8615.49	2976.85	1463.35	1209.67	1102.74	48570.09 Today
Mean	56.16	60.30	118.02	73.40	159.69	263.05	354.52	287.18	96.03	47.20	41.71	35.57	132.71 Ton/day
Max	100.49	87.75	282.54	357.88	1001.32	1228.54	958.15	1129.95	473.42	57.67	90.27	47.55	1228.54 Ton/day
Min	49.76	46.45	58.82	52.00	55.39	166.22	170.55	92.80	57.67	39.99	30.70	30.70	30.70 Ton/day

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Rattaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Nasithong.

	<b>Ban</b> Nasithong	<b>Amphoe</b> Rattaphum	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	272 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2008 - Cont' d		
<b>Actual Measurement</b>	2008 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	15		
<b>R-Square</b>	0.8473		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.6345 QW^{0.95400}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.38	11.54	7.77	6.70	7.77	23.16	38.32	39.99	88.46	16.79	9.35	5.63	
2	13.25	9.35	14.94	6.17	8.82	18.21	21.04	33.31	91.43	16.07	9.87	5.10	
3	12.11	8.82	16.07	5.63	9.35	14.94	14.94	27.41	90.44	16.07	10.39	5.10	
4	21.75	7.77	14.38	5.63	7.77	13.25	18.21	23.16	68.34	15.51	9.35	6.17	
5	13.81	7.77	10.97	6.17	7.24	11.54	19.63	22.45	57.43	14.94	9.35	5.63	
6	11.54	7.24	10.39	6.70	7.24	10.97	25.71	29.10	47.87	14.94	8.30	4.55	
7	10.39	7.77	18.21	6.17	6.17	10.39	24.01	47.87	46.13	14.38	8.30	6.70	
8	10.39	10.39	13.81	6.17	5.63	9.87	24.86	39.99	44.38	14.38	7.77	9.35	
9	9.87	13.25	12.11	5.10	5.10	9.35	24.86	53.97	41.75	13.81	7.24	7.24	
10	9.35	11.54	12.11	4.83	7.77	9.87	25.71	63.81	37.49	13.81	8.82	8.82	
11	8.82	12.68	10.97	5.63	13.25	9.35	63.81	45.25	33.31	13.25	10.39	9.35	
12	8.82	10.97	10.39	6.70	17.50	9.35	92.41	34.15	30.79	13.25	11.54	9.87	
13	10.97	9.87	9.87	9.35	12.68	8.82	47.00	66.53	29.10	12.68	12.68	8.82	
14	10.97	9.35	8.82	11.54	10.39	8.30	55.70	100.76	28.25	12.68	14.94	7.77	
15	10.97	9.35	8.30	9.35	13.81	8.82	39.15	47.87	33.31	12.11	11.54	7.24	
16	9.87	8.82	8.30	8.82	13.81	11.54	38.32	37.49	33.31	12.11	9.87	6.70	
17	9.87	9.35	8.82	12.68	12.11	11.54	37.49	32.47	36.65	11.54	8.82	6.17	
18	9.35	9.35	8.82	12.68	11.54	10.39	72.86	59.26	59.26	11.54	8.30	5.63	
19	9.35	8.82	9.87	10.39	11.54	29.94	61.08	36.65	56.57	11.54	9.87	5.10	
20	9.35	8.82	9.35	14.38	9.87	18.21	45.25	155.11	40.87	10.97	8.82	4.55	
21	9.87	8.30	8.82	12.11	9.35	15.51	55.70	90.44	34.98	10.97	8.30	4.01	
22	9.35	8.30	7.77	10.39	9.87	12.68	43.50	74.67	29.94	10.97	7.77	3.46	
23	8.82	8.30	7.77	20.34	11.54	13.81	56.57	65.62	27.41	10.97	7.24	3.19	
24	8.82	8.82	7.77	14.94	9.87	13.25	53.97	59.26	24.86	10.97	7.77	3.19	
25	8.30	8.82	7.77	13.25	10.97	11.54	47.00	56.57	23.16	10.39	8.82	3.19	
26	8.30	7.77	8.30	12.11	17.50	10.39	36.65	60.17	21.75	9.87	7.77	3.19	
27	8.30	7.77	8.82	11.54	16.07	10.39	34.98	53.97	21.04	9.87	7.24	3.19	
28	7.77	7.77	8.30	10.39	14.94	9.87	34.15	59.26	20.34	10.39	6.70	2.91	
29	8.82	7.77	7.77	9.35	13.25	11.54	71.06	61.99	18.92	9.87	6.17	2.91	
30	10.39	7.77	7.24	8.30	16.07	10.39	67.44	58.34	18.21	9.35		2.91	
31		7.77		7.77	29.94		43.50		17.50	9.35		2.91	
Total	313.92	281.98	304.60	291.28	358.73	377.18	1334.88	1636.89	1253.25	385.34	263.29	170.55	6971.89 Tonday
Mean	10.46	9.10	10.15	9.40	11.57	12.57	43.06	54.56	40.43	12.43	9.08	5.50	19.05 Ton/day
Max	21.75	13.25	18.21	20.34	29.94	29.94	92.41	155.11	91.43	16.79	14.94	9.87	155.11 Ton/day
Min	7.77	7.24	7.24	4.83	5.10	8.30	14.94	22.45	17.50	9.35	6.17	2.91	2.91 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Bang Sala	<b>Amphoe</b> Khlong Hoi Khong	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	1,547 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-48		
<b>Period of Available Records</b>	1982 - Cont' d		
<b>Actual Measurement</b>	1982 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	19		
<b>R-Square</b>	0.9292		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.4793 QW^{1.54560}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	83.24	109.24	367.84	98.54	131.78	828.60	59.83	773.58	292.79	26.28	5.85	13.46	
2	224.00	120.32	401.81	59.83	88.24	252.69	93.34	356.75	224.00	27.39	5.22	12.18	
3	413.37	126.00	196.56	68.87	55.49	196.56	47.15	535.15	367.84	26.28	4.32	10.95	
4	3040.24	109.24	881.14	88.24	52.66	49.88	21.00	390.37	233.43	25.19	3.48	9.38	
5	1106.53	83.24	196.56	103.84	59.83	103.84	83.24	413.37	324.21	21.00	2.71	8.63	
6	494.36	55.49	137.64	114.73	59.83	170.41	23.06	282.57	719.91	18.52	1.58	7.54	
7	242.99	47.15	120.32	126.00	68.87	196.56	68.87	497.46	187.69	17.09	2.00	6.51	
8	214.71	52.66	472.88	149.64	78.34	187.69	114.73	1041.44	313.61	15.69	3.48	8.26	
9	252.69	78.34	214.71	161.98	83.24	161.98	83.24	1041.44	379.04	15.69	5.85	28.51	
10	233.43	187.69	126.00	178.98	103.84	131.78	73.55	1380.44	262.52	15.69	9.77	47.15	
11	196.56	187.69	345.78	170.41	178.98	131.78	2127.45	4127.60	233.43	15.24	15.69	52.66	
12	161.98	137.64	78.34	114.73	448.74	114.73	1402.73	4452.58	485.11	14.79	24.12	64.30	
13	143.60	114.73	126.00	88.24	881.14	120.32	1314.34	2179.45	41.86	14.34	34.36	59.83	
14	137.64	93.34	205.56	187.69	538.33	137.64	1001.48	719.91	12.61	13.46	39.30	52.66	
15	137.64	78.34	178.98	214.71	303.14	47.15	791.77	1380.44	17.56	13.03	31.97	26.28	
16	149.64	78.34	126.00	109.24	262.52	28.51	737.65	1358.28	28.51	12.61	21.00	36.80	
17	224.00	120.32	88.24	252.69	324.21	120.32	904.01	1021.39	31.97	11.36	23.06	47.15	
18	224.00	187.69	149.64	187.69	356.75	379.04	755.54	755.54	16.62	10.16	27.39	41.86	
19	155.77	196.56	149.64	120.32	262.52	214.71	583.61	847.23	55.49	10.55	34.36	17.09	
20	109.24	170.41	64.30	143.60	109.24	120.32	313.61	460.75	17.56	10.95	39.30	10.95	
21	83.24	137.64	205.56	214.71	59.83	83.24	345.78	390.37	17.09	11.36	39.30	13.03	
22	73.55	109.24	187.69	143.60	34.36	47.15	1562.24	292.79	16.62	11.77	25.19	14.79	
23	109.24	93.34	187.69	64.30	29.65	78.34	1776.06	224.00	15.24	12.18	23.06	16.15	
24	126.00	143.60	103.84	98.54	55.49	178.98	1585.51	262.52	31.97	12.18	22.02	16.62	
25	126.00	98.54	88.24	242.99	131.78	26.28	1493.14	334.94	83.24	11.77	20.00	17.56	
26	114.73	52.66	49.88	41.86	214.71	28.51	1800.41	214.71	78.34	10.55	18.04	18.52	
27	103.84	44.48	34.36	34.36	224.00	44.48	1041.44	303.14	47.15	10.16	17.09	19.01	
28	93.34	34.36	137.64	114.73	120.32	137.64	522.48	252.69	36.80	9.00	16.15	20.00	
29	448.74	27.39	413.37	233.43	98.54	26.28	390.37	170.41	39.30	8.26	14.79	21.00	
30	560.81	44.48	356.75	262.52	242.99	22.02	1001.48	367.84	36.80	7.19		21.00	
31		103.84		170.41	262.52		904.01		28.51	6.85		22.02	
<b>Total</b>	9785.12	3224.00	6392.96	4361.42	5921.88	4367.43	23023.12	26829.15	4676.82	446.58	530.45	761.85	90320.78 Tonday
<b>Mean</b>	326.17	104.00	213.10	140.69	191.03	145.58	742.68	894.30	150.87	14.41	18.29	24.58	246.78 Ton/day
<b>Max</b>	3040.24	196.56	881.14	262.52	881.14	828.60	2127.45	4452.58	719.91	27.39	39.30	64.30	4452.58 Ton/day
<b>Min</b>	73.55	27.39	34.36	34.36	29.65	22.02	21.00	170.41	12.61	6.85	1.58	6.51	1.58 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Khuan In No Mo</b>	<b>Amphoe</b>	<b>Ta Mot</b>	<b>Changwat</b>	<b>Phatthalung</b>
<b>Drainage Area</b>	131	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005 - Cont' d					
<b>Actual Measurement</b>	2005 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	16					
<b>R-Square</b>	0.8657					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 4.4719 QW^{1.21280}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.30	24.03	12.93	9.74	9.12	28.46	9.74	31.49	98.47	30.73	12.93	9.12	
2	23.30	23.30	12.93	9.74	9.12	20.43	9.74	29.22	565.35	29.97	12.28	9.12	
3	23.30	22.58	12.28	9.74	9.12	14.25	12.93	27.71	361.00	29.22	12.28	9.74	
4	23.30	21.86	12.28	9.74	9.12	10.37	9.74	27.71	299.52	28.46	12.28	9.74	
5	22.58	21.86	11.64	9.74	9.12	10.37	9.74	26.23	134.48	26.23	12.28	9.74	
6	22.58	21.14	11.64	9.74	9.12	10.37	9.74	24.76	80.50	24.76	11.64	9.74	
7	22.58	21.14	11.64	9.74	9.12	9.74	12.93	21.86	70.52	23.30	11.64	9.12	
8	22.58	20.43	11.00	9.74	9.12	9.74	11.00	76.73	63.20	21.14	11.64	9.12	
9	22.58	20.43	11.00	9.74	9.12	9.74	10.37	358.54	57.21	19.73	11.64	9.12	
10	22.58	20.43	11.00	9.74	8.51	9.12	11.00	66.84	51.33	18.33	11.00	9.12	
11	21.86	19.73	10.37	9.12	8.51	9.12	11.00	34.88	45.40	17.64	11.00	9.12	
12	21.86	19.73	10.37	9.12	8.51	8.51	11.00	34.03	40.96	16.95	11.00	9.12	
13	21.86	19.73	10.37	9.12	8.51	8.51	11.64	33.18	40.08	16.27	11.00	9.12	
14	21.86	19.03	10.37	9.12	9.12	7.91	11.00	29.22	38.33	15.59	11.00	9.12	
15	21.14	19.03	10.37	9.12	9.12	7.91	24.03	29.22	68.07	14.92	10.37	9.12	
16	21.14	18.33	10.37	9.12	9.74	7.31	38.33	29.97	104.10	14.25	10.37	9.12	
17	21.14	18.33	10.37	9.74	9.74	7.31	69.29	29.22	188.46	14.25	10.37	9.12	
18	21.14	17.64	9.74	9.74	9.74	6.73	77.98	29.22	217.05	14.25	9.74	9.12	
19	21.14	17.64	9.74	9.74	9.12	6.73	94.57	29.97	94.57	14.25	9.74	9.12	
20	21.14	16.95	9.74	9.74	9.12	6.73	69.29	169.09	42.73	13.59	9.74	9.12	
21	20.43	16.27	9.12	9.74	8.51	6.73	169.09	324.42	40.96	13.59	9.74	9.12	
22	20.43	15.59	9.12	9.74	8.51	6.73	101.28	169.09	38.33	13.59	9.74	9.12	
23	20.43	14.92	9.12	9.74	8.51	6.73	72.99	413.67	35.74	13.59	9.74	9.12	
24	20.43	14.25	9.12	9.74	8.51	6.73	40.96	315.25	35.74	12.93	9.74	9.12	
25	19.73	14.25	8.51	9.74	8.51	6.73	31.49	169.09	34.88	12.93	9.12	9.12	
26	19.73	13.59	8.51	9.74	8.51	12.28	29.22	125.66	34.88	12.93	9.12	9.12	
27	19.73	13.59	8.51	9.74	8.51	11.64	28.46	140.41	33.18	12.93	9.12	9.12	
28	19.73	13.59	8.51	9.74	8.51	10.37	26.97	160.41	33.18	12.93	8.51	8.51	
29	19.73	13.59	8.51	9.74	8.51	9.74	26.23	167.35	33.18	12.93	8.51	8.51	
30	27.71	13.59	8.51	9.74	11.64	9.12	25.49	150.91	32.33	12.93		8.51	
31		13.59		9.74	29.97		24.76		32.33	12.93		8.51	
Total	651.04	560.16	307.69	298.22	300.02	296.16	1102.00	3275.35	3046.06	548.04	307.28	282.76	10974.78 Tonday
Mean	21.70	18.07	10.26	9.62	9.68	9.87	35.55	109.18	98.26	17.68	10.60	9.12	29.99 Ton/day
Max	27.71	24.03	12.93	9.74	29.97	28.46	169.09	413.67	565.35	30.73	12.93	9.74	565.35 Ton/day
Min	19.73	13.59	8.51	9.12	8.51	6.73	9.74	21.86	32.33	12.93	8.51	8.51	6.73 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Thung Prap	<b>Amphoe</b> Sadao	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	129 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-49		
<b>Period of Available Records</b>	1981 - Cont' d		
<b>Actual Measurement</b>	1981 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.7692		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.6006 QW^{1.30790}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.02	5.02	18.57	5.67	3.78	11.91	42.39	10.87	6.12	2.44	1.11	0.68	
2	5.45	5.02	26.69	5.45	3.78	9.52	7.26	11.21	5.90	2.26	1.11	0.51	
3	12.97	5.02	25.64	5.24	3.78	6.95	8.86	9.52	6.34	2.26	1.11	0.51	
4	8.53	5.02	22.14	5.02	3.78	5.90	15.15	8.86	5.67	2.26	1.11	0.51	
5	5.24	5.02	8.53	5.02	3.98	5.24	10.87	14.05	5.24	2.09	0.96	0.68	
6	5.02	5.02	71.64	5.02	3.78	4.81	56.06	38.89	4.81	2.09	0.96	3.58	
7	5.02	5.24	163.13	5.02	3.78	4.18	9.19	15.15	4.81	2.26	0.96	24.18	
8	5.02	16.65	18.18	5.02	3.78	4.18	7.58	21.33	4.39	2.26	0.96	5.90	
9	5.02	7.26	22.54	5.02	4.18	4.18	7.58	18.57	4.18	2.26	0.96	2.81	
10	5.02	8.86	21.33	5.02	12.97	4.18	14.78	38.89	4.18	2.09	0.82	2.44	
11	5.02	10.19	9.19	5.24	19.74	3.98	44.77	14.05	4.18	2.09	1.74	2.09	
12	5.02	5.02	6.95	5.02	19.74	3.98	278.06	9.85	3.98	1.91	2.44	4.18	
13	5.02	5.02	6.12	5.02	11.56	3.98	74.05	39.47	3.98	1.91	1.74	2.44	
14	11.91	5.02	5.45	7.58	4.81	5.45	35.46	413.54	3.98	2.09	1.58	1.58	
15	29.37	5.02	5.02	12.97	6.34	18.57	18.18	23.36	3.78	2.09	1.42	1.42	
16	6.65	3.98	4.81	6.65	5.90	39.47	37.74	14.05	3.78	1.91	1.26	1.26	
17	5.90	3.00	6.95	10.53	6.95	56.82	24.60	12.26	4.39	1.74	1.26	1.26	
18	5.24	3.38	8.21	5.24	4.39	11.91	18.57	11.21	6.34	1.74	1.11	1.11	
19	8.86	3.00	20.93	3.98	6.34	7.58	14.41	10.19	4.39	1.58	1.11	1.11	
20	5.24	3.00	35.46	4.18	4.18	6.12	10.19	10.19	4.18	1.91	0.96	0.96	
21	5.02	3.00	19.74	3.98	3.98	5.67	33.21	8.53	4.18	1.74	0.96	0.96	
22	5.02	6.95	10.87	4.39	5.02	13.68	35.46	7.58	3.98	1.74	0.96	0.96	
23	5.02	4.18	28.29	20.13	5.90	8.21	12.97	7.58	3.78	1.58	0.96	0.82	
24	5.02	3.00	14.41	5.24	4.39	5.02	41.80	7.26	4.39	1.58	0.82	0.82	
25	5.02	3.00	8.53	3.98	10.19	5.02	138.80	6.65	3.58	1.42	0.82	1.11	
26	5.02	2.81	7.58	3.98	10.87	9.19	20.93	6.34	3.38	1.42	0.82	1.11	
27	5.02	2.81	16.65	3.98	11.91	17.41	16.65	6.12	3.19	1.42	0.68	0.96	
28	5.02	2.81	9.52	6.12	27.22	5.90	38.31	7.26	3.00	1.42	0.68	0.96	
29	5.02	10.19	6.95	3.98	9.52	4.81	114.69	8.21	2.81	1.26	0.68	0.96	
30	7.58	8.21	6.95	3.98	40.05	15.52	21.33	6.12	2.81	1.26		0.82	
31		26.17		3.98	126.31		12.97		2.62	1.26		0.82	
Total	203.30	187.89	636.97	181.65	392.90	309.34	1222.87	817.16	132.34	57.34	32.06	69.51	4243.33 Tonday
Mean	6.78	6.06	21.23	5.86	12.67	10.31	39.45	27.24	4.27	1.85	1.11	2.24	11.59 Ton/day
Max	29.37	26.17	163.13	20.13	126.31	56.82	278.06	413.54	6.34	2.44	2.44	24.18	413.54 Ton/day
Min	5.02	2.81	4.81	3.98	3.78	3.98	7.26	6.12	2.62	1.26	0.68	0.51	0.51 Ton/day



## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlung Lam at Ban Khlung Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

	<b>Ban</b> Khlung Lam	<b>Amphoe</b> Srinagarindra	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	269 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2005 - Cont' d		
<b>Actual Measurement</b>	2005 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7101		
<b>Remarks</b>	Continued Sediment Station		

QS = 4.4799 QW<sup>1.15510</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.48	15.94	7.16	5.53	3.97	42.76	21.58	72.23	83.62	52.35	13.21	11.43	
2	14.11	11.43	6.34	5.53	7.99	39.62	14.11	72.23	111.78	49.12	14.11	11.43	
3	15.94	9.69	7.16	5.53	7.99	21.58	15.94	65.51	131.53	45.93	13.21	10.56	
4	45.93	7.99	12.32	5.53	7.16	15.02	13.21	65.51	65.51	45.93	12.32	9.69	
5	15.02	8.83	9.69	5.53	5.53	14.11	14.11	72.23	92.88	39.62	12.32	9.69	
6	12.32	7.99	10.56	5.53	5.53	13.21	14.11	62.18	83.62	36.52	12.32	9.69	
7	11.43	7.99	11.43	4.74	4.74	11.43	14.11	55.60	79.04	36.52	12.32	10.56	
8	10.56	7.99	10.56	4.74	5.53	11.43	15.02	62.18	75.62	33.45	11.43	9.69	
9	10.56	9.69	15.94	7.16	3.97	12.32	13.21	65.51	75.62	33.45	11.43	9.69	
10	10.56	12.32	10.56	5.53	8.83	13.21	208.15	49.12	72.23	30.42	14.11	8.83	
11	10.56	15.02	13.21	5.53	15.94	12.32	65.51	68.86	68.86	30.42	21.58	8.83	
12	10.56	14.11	9.69	7.99	15.94	11.43	68.86	58.88	68.86	27.43	42.76	10.56	
13	12.32	12.32	7.99	7.99	11.43	10.56	42.76	42.76	65.51	24.48	36.52	8.83	
14	10.56	9.69	8.83	15.94	6.34	9.69	45.93	55.60	65.51	27.43	45.93	8.83	
15	10.56	11.43	8.83	8.83	8.83	9.69	27.43	58.88	68.86	21.58	21.58	8.83	
16	9.69	15.02	7.99	9.69	39.62	18.73	27.43	62.18	79.04	18.73	15.02	7.99	
17	9.69	27.43	7.16	8.83	52.35	12.32	75.62	55.60	75.62	18.73	14.11	7.99	
18	6.34	12.32	7.16	15.02	15.94	11.43	111.78	68.86	92.88	18.73	21.58	7.99	
19	7.99	10.56	8.83	8.83	13.21	9.69	107.02	72.23	107.02	18.73	55.60	7.16	
20	7.99	11.43	7.99	11.43	10.56	10.56	102.28	79.04	88.24	27.43	21.58	7.16	
21	9.69	9.69	8.83	11.43	9.69	11.43	196.93	107.02	79.04	24.48	15.02	7.16	
22	8.83	55.60	7.16	7.99	15.02	11.43	136.84	79.04	75.62	21.58	15.02	7.16	
23	7.99	18.73	10.56	7.99	14.11	58.88	102.28	111.78	72.23	18.73	14.11	6.34	
24	7.99	13.21	7.99	7.99	11.43	21.58	72.23	107.02	68.86	18.73	13.21	6.34	
25	7.99	12.32	7.16	8.83	30.42	27.43	65.51	88.24	68.86	15.02	13.21	6.34	
26	7.99	9.69	7.99	7.16	52.35	58.88	58.88	88.24	68.86	15.02	12.32	7.16	
27	7.16	9.69	11.43	5.53	33.45	36.52	88.24	88.24	65.51	14.11	12.32	7.99	
28	8.83	7.99	7.99	6.34	18.73	15.94	62.18	88.24	62.18	14.11	11.43	6.34	
29	7.16	6.34	5.53	7.16	15.02	15.02	62.18	88.24	58.88	14.11	11.43	5.53	
30	15.02	8.83	4.74	5.53	79.04	11.43	68.86	79.04	58.88	13.21		5.53	
31		10.56		4.74	92.88		68.86		55.60	13.21		5.53	
Total	355.82	401.84	268.78	236.12	623.54	579.65	2001.16	2190.29	2386.37	819.31	541.11	256.85	10660.84 Tonday
Mean	11.86	12.96	8.96	7.62	20.11	19.32	64.55	73.01	76.98	26.43	18.66	8.29	29.13 Ton/day
Max	45.93	55.60	15.94	15.94	92.88	58.88	208.15	111.78	131.53	52.35	55.60	11.43	208.15 Ton/day
Min	6.34	6.34	4.74	4.74	3.97	9.69	13.21	42.76	55.60	13.21	11.43	5.53	3.97 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Khlong Wa	<b>Amphoe</b> Hat Yai	<b>Changwat</b> Songkhla
<b>Drainage Area</b>	116 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-49		
<b>Period of Available Records</b>	2003 - Cont' d		
<b>Actual Measurement</b>	2003 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8878		
<b>Remarks</b>	Continued Sediment Station		

QS = 5.0830 QW<sup>1.13060</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.91	2.69	2.22	1.01	1.91	1.91	2.22	57.14	47.36	8.77	2.22	1.16	
2	2.53	2.22	2.22	0.73	1.91	1.75	9.14	55.92	43.73	8.40	2.22	1.16	
3	2.53	2.06	2.06	0.73	1.75	1.75	6.25	60.88	46.17	8.40	2.22	1.16	
4	2.37	2.22	2.53	0.73	1.60	1.60	4.51	42.56	37.81	7.68	2.06	1.16	
5	2.37	2.06	2.06	0.73	1.60	1.45	12.97	48.55	38.97	7.32	2.06	1.16	
6	2.37	1.91	2.37	0.87	1.60	1.45	17.54	44.99	34.93	7.32	2.06	1.16	
7	2.37	1.91	2.37	0.87	1.45	1.45	18.00	53.43	32.00	7.32	1.91	1.16	
8	2.22	1.91	2.37	0.73	1.45	1.60	15.23	38.97	29.17	6.60	1.91	1.01	
9	2.06	1.91	2.37	0.87	1.60	1.30	22.58	69.91	28.19	5.89	1.91	1.01	
10	1.91	2.22	2.37	1.30	1.60	1.45	35.86	107.61	23.54	5.20	1.75	1.01	
11	1.91	2.06	2.22	1.16	1.75	1.45	54.71	69.91	21.70	4.85	1.91	1.01	
12	1.91	2.22	2.22	1.75	1.60	1.75	31.08	54.71	18.47	4.51	2.06	1.45	
13	1.91	2.22	2.06	2.22	1.60	3.18	19.87	49.82	15.69	4.17	2.37	1.75	
14	1.91	2.37	2.06	1.45	1.75	2.85	15.69	35.86	17.07	4.17	2.37	1.45	
15	1.91	2.69	2.22	1.16	1.75	3.18	13.42	34.93	15.69	3.84	2.22	1.16	
16	2.06	2.37	1.75	1.16	2.06	3.51	11.63	29.17	16.15	3.18	2.06	0.87	
17	2.22	2.06	1.75	1.01	2.06	2.37	59.65	25.40	16.15	2.69	1.91	1.01	
18	2.06	2.06	1.91	1.16	1.45	2.37	54.71	21.70	18.47	2.37	1.91	0.87	
19	2.06	2.37	1.91	1.16	1.30	2.22	42.56	19.87	18.00	2.22	1.91	0.87	
20	2.06	2.69	1.91	1.45	1.30	2.22	33.00	65.26	16.15	2.22	1.75	0.87	
21	2.06	2.85	2.06	1.91	1.60	2.22	29.17	54.71	14.78	2.06	1.75	0.87	
22	1.91	4.17	2.06	3.18	1.75	1.91	28.19	54.71	13.87	2.06	1.60	0.73	
23	2.06	2.85	1.75	4.85	1.60	1.91	25.40	54.71	12.52	2.22	1.60	0.73	
24	2.06	2.53	1.60	4.17	1.60	1.91	25.40	41.38	11.63	2.37	1.45	0.73	
25	1.91	2.69	1.75	2.53	1.60	1.91	18.93	55.92	11.63	2.37	1.45	0.73	
26	1.91	2.69	1.91	2.22	1.45	1.75	16.61	58.35	10.75	2.37	1.45	0.73	
27	1.75	2.37	1.75	2.53	1.91	1.75	17.07	41.38	10.31	2.37	1.45	0.73	
28	1.75	2.22	1.75	2.37	1.60	1.75	16.15	37.81	9.88	2.37	1.30	0.73	
29	1.91	2.22	1.75	2.06	1.60	1.75	15.69	37.81	9.51	2.37	1.30	0.60	
30	2.37	2.22	1.45	1.91	1.91	1.45	13.87	43.73	9.51	2.37		0.46	
31		2.06		1.91	1.91		22.58		9.14	2.22		0.60	
Total	62.34	73.09	60.78	51.89	51.62	59.12	709.68	1467.10	658.94	132.27	54.14	30.10	3411.07 Tonday
Mean	2.08	2.36	2.03	1.67	1.67	1.97	22.89	48.90	21.26	4.27	1.87	0.97	9.32 Ton/day
Max	2.53	4.17	2.53	4.85	2.06	3.51	59.65	107.61	47.36	8.77	2.37	1.75	107.61 Ton/day
Min	1.75	1.91	1.45	0.73	1.30	1.30	2.22	19.87	9.14	2.06	1.30	0.46	0.46 Ton/day

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	<b>Ban</b>	<b>Hu Rae</b>	<b>Amphoe</b>	<b>Hat Yai</b>	<b>Changwat</b>	<b>Songkhla</b>
<b>Drainage Area</b>	127	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.D-49					
<b>Period of Available Records</b>	2005-Cont'd					
<b>Actual Measurement</b>	2005-Cont'd					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	21					
<b>R-Square</b>	0.8517					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 6.1540 QW^{1.54620}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.85	1.85	5.41	1.49	0.86	8.16	14.23	15.27	97.74	18.67	4.36	5.41	
2	1.73	1.73	5.78	1.27	4.03	6.15	7.33	12.73	78.75	17.97	4.36	5.41	
3	1.73	1.73	9.01	0.86	2.24	4.70	6.54	12.24	118.42	17.28	5.05	4.70	
4	4.36	1.73	8.16	0.36	1.49	4.03	6.15	10.35	73.20	17.28	5.41	4.70	
5	1.98	1.73	6.15	0.36	0.43	3.39	9.90	17.28	57.65	17.28	5.05	4.70	
6	1.85	1.73	6.15	0.29	0.36	2.79	12.73	26.96	42.70	17.28	5.05	5.05	
7	1.85	1.73	12.24	0.43	0.23	2.24	9.01	39.90	32.78	16.60	5.05	5.41	
8	1.85	1.73	9.01	1.06	0.12	1.98	6.93	175.45	27.77	15.93	4.70	4.70	
9	1.85	1.73	8.16	1.49	0.12	1.73	7.74	248.00	27.77	14.75	4.36	3.70	
10	1.85	1.73	9.01	0.86	2.24	3.09	10.35	386.11	24.60	13.73	4.36	6.15	
11	1.85	1.73	7.74	0.43	7.33	2.51	39.90	113.32	20.10	13.22	4.36	6.93	
12	1.85	1.73	6.54	0.86	9.45	2.24	105.43	42.70	15.27	12.24	5.41	5.78	
13	1.85	1.73	5.05	5.78	6.93	2.24	28.58	28.58	14.75	11.28	8.58	5.05	
14	1.85	1.61	4.36	4.03	5.78	1.98	24.60	24.60	14.75	10.35	12.24	5.05	
15	1.85	1.61	4.03	3.09	5.41	2.51	23.06	18.67	14.75	9.90	9.45	5.05	
16	1.85	1.61	4.03	1.98	3.70	4.03	38.98	17.28	14.23	9.01	6.15	5.05	
17	1.85	1.61	3.39	2.51	4.36	3.70	62.54	14.75	19.38	8.16	5.78	5.41	
18	1.85	1.61	3.39	2.24	4.03	3.39	188.67	14.23	110.14	7.33	5.41	5.41	
19	1.85	1.61	7.33	1.49	4.36	6.15	103.88	14.23	105.43	6.93	5.41	4.36	
20	1.85	1.61	5.05	1.27	2.79	4.70	39.90	116.53	38.07	6.54	6.54	4.36	
21	1.85	1.61	4.03	0.86	1.06	4.36	51.48	53.51	30.24	6.15	6.15	4.03	
22	1.85	1.61	3.09	1.98	1.06	3.70	28.58	30.24	26.17	5.78	6.15	3.39	
23	1.85	1.61	2.51	6.15	1.27	3.09	22.31	40.83	24.60	5.41	6.15	3.70	
24	1.85	1.61	2.51	3.70	1.73	3.39	38.07	61.25	23.83	5.41	6.15	3.39	
25	1.85	1.61	1.73	4.36	2.24	3.39	17.97	42.70	22.31	5.05	6.15	4.70	
26	1.85	1.61	4.03	5.41	5.05	2.51	14.23	47.50	21.56	4.70	6.15	3.09	
27	1.85	1.61	3.09	4.70	4.36	1.73	12.24	40.83	20.83	4.36	6.15	2.79	
28	1.85	1.61	2.79	3.09	3.70	1.73	19.38	33.64	20.83	4.36	6.15	3.09	
29	1.85	1.61	1.98	1.49	3.39	1.73	69.13	31.92	20.10	4.36	6.15	2.51	
30	1.85	1.61	1.73	1.27	8.58	1.49	39.90	38.07	19.38	4.36		1.98	
31		1.61		0.86	9.45		22.31		19.38	4.36		1.49	
Total	57.90	51.59	157.48	66.02	108.15	98.83	1082.05	1769.67	1197.48	316.03	172.43	136.54	5214.17 Tonday
Mean	1.93	1.66	5.25	2.13	3.49	3.29	34.90	58.99	38.63	10.19	5.95	4.40	14.25 Ton/day
Max	4.36	1.85	12.24	6.15	9.45	8.16	188.67	386.11	118.42	18.67	12.24	6.93	386.11 Ton/day
Min	1.73	1.61	1.73	0.29	0.12	1.49	6.15	10.35	14.23	4.36	4.36	1.49	0.12 Ton/day

## WATER YEAR : 2019

## THALE SAP SONGKHLA

## Khlong Tha Cheat 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
<b>Drainage Area</b>	295 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2007 - Cont' d		
<b>Actual Measurement</b>	2007 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.9269		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 8.3638 QW^{1.06730}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.26	11.61	6.24	3.48	1.82	12.71	18.84	37.71	201.58	27.02	8.90	6.94	
2	12.71	10.52	6.24	3.15	1.82	11.07	18.28	32.82	504.51	27.02	13.26	7.30	
3	12.16	9.44	7.30	2.81	1.82	9.44	17.15	33.79	473.36	27.02	11.61	6.24	
4	11.61	11.07	9.98	2.81	1.50	7.65	19.40	27.98	269.66	25.10	9.44	5.54	
5	9.44	9.98	9.98	2.48	1.50	6.59	18.28	24.14	159.12	24.14	8.90	4.85	
6	8.90	8.36	11.07	2.48	1.34	5.54	23.19	28.94	111.58	23.19	8.90	5.54	
7	8.01	8.36	12.16	2.15	1.34	4.85	18.28	92.45	94.01	21.29	9.44	6.24	
8	7.30	7.65	11.07	1.50	1.34	4.50	14.92	233.70	80.05	21.29	8.90	6.94	
9	6.94	8.36	10.52	1.18	1.34	4.50	15.48	462.32	67.76	21.29	8.36	6.59	
10	6.59	9.98	9.44	1.03	1.34	4.50	50.29	219.97	59.44	19.40	9.98	5.89	
11	6.24	9.44	8.36	1.03	1.34	3.82	66.23	111.58	51.59	18.84	14.92	5.19	
12	7.30	8.36	8.90	1.34	1.34	3.82	78.50	69.29	46.40	18.84	14.37	4.16	
13	8.36	8.90	6.94	1.50	1.50	3.15	60.75	52.90	42.54	18.28	17.71	4.85	
14	10.52	8.90	6.24	3.15	1.50	2.15	41.25	47.70	42.54	17.71	23.19	5.89	
15	10.52	8.90	5.54	2.81	1.50	1.82	47.70	46.40	59.44	17.71	17.15	5.19	
16	9.98	8.90	5.89	2.15	1.82	2.48	48.99	45.11	84.69	17.15	14.37	4.16	
17	9.98	9.98	6.94	2.15	2.15	4.16	58.13	38.69	72.35	16.03	13.26	3.48	
18	10.52	9.44	6.24	2.48	1.50	4.50	115.16	35.75	81.59	16.59	13.26	3.82	
19	9.98	8.90	5.19	3.48	1.34	3.48	152.68	35.75	178.76	16.59	13.81	3.15	
20	9.44	8.36	5.89	4.16	1.34	2.81	161.27	118.74	165.58	16.03	11.61	2.81	
21	6.24	7.65	5.89	4.85	1.34	2.48	250.26	314.44	95.57	15.48	10.52	3.15	
22	7.30	8.36	5.19	4.16	1.34	2.81	174.21	187.87	69.29	16.03	9.98	2.48	
23	8.36	8.90	4.85	3.48	1.34	14.92	94.01	379.81	56.82	15.48	8.90	1.50	
24	10.52	7.65	4.50	2.48	1.34	17.71	60.75	275.22	48.99	14.92	8.36	1.34	
25	10.52	6.94	4.16	2.15	1.34	12.71	47.70	133.46	43.82	13.81	8.01	1.34	
26	9.98	6.59	3.82	2.81	2.15	11.61	69.29	148.40	39.97	14.37	7.65	1.34	
27	9.98	6.59	3.82	3.15	2.48	11.07	125.93	203.88	36.73	13.26	6.94	1.34	
28	10.52	5.54	3.82	3.48	2.48	8.90	95.57	206.17	30.88	11.61	6.59	1.34	
29	9.98	4.85	3.82	4.50	2.48	8.36	64.71	210.76	31.85	10.52	6.24	1.18	
30	9.44	5.19	3.82	2.81	3.15	10.52	47.70	156.97	28.94	9.98		1.18	
31		5.19		2.15	10.52		37.71		26.06	9.44		1.03	
Total	282.60	258.86	203.82	83.34	60.45	204.63	2112.61	4012.71	3355.47	555.43	324.53	121.99	11576.44 Tonday
Mean	9.42	8.35	6.79	2.69	1.95	6.82	68.15	133.76	108.24	17.92	11.19	3.94	31.63 Ton/day
Max	13.26	11.61	12.16	4.85	10.52	17.71	250.26	462.32	504.51	27.02	23.19	7.30	504.51 Ton/day
Min	6.24	4.85	3.82	1.03	1.34	1.82	14.92	24.14	26.06	9.44	6.24	1.03	1.03 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b> Khao Pu	<b>Amphoe</b> Si Banphot	<b>Changwat</b> Phatthalung
<b>Drainage Area</b>	47 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US D-59		
<b>Period of Available Records</b>	2009 - Cont' d		
<b>Actual Measurement</b>	2009 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.9167		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 5.8425 QW^{1.03200}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.04	4.52	1.80	0.66	0.10	7.05	2.68	6.45	14.67	3.81	1.11	0.88	
2	3.33	2.15	1.98	0.54	0.21	4.76	2.33	49.38	30.12	3.33	1.11	0.77	
3	4.04	1.80	1.63	0.54	0.21	2.86	1.98	13.68	49.38	3.33	1.11	0.77	
4	4.76	1.45	2.15	0.54	0.21	2.33	1.63	9.24	60.30	3.09	1.00	0.66	
5	3.33	1.63	1.80	0.54	0.21	1.80	1.45	8.27	26.96	3.09	1.00	0.66	
6	2.68	1.45	2.68	0.43	0.21	1.45	4.28	6.45	18.15	4.04	0.88	0.66	
7	2.68	1.45	6.14	0.43	0.10	1.28	6.45	6.75	14.67	4.04	0.88	0.54	
8	2.50	1.63	3.57	0.43	0.10	1.11	4.04	6.45	12.69	4.28	0.77	0.54	
9	2.33	1.98	3.09	0.43	0.10	1.11	3.33	7.36	10.23	4.52	0.77	0.54	
10	2.33	2.33	3.09	0.43	0.10	1.98	2.68	6.45	8.27	4.52	0.66	0.43	
11	2.33	1.98	2.33	0.43	1.63	1.45	3.33	5.54	7.66	3.57	1.28	0.43	
12	2.33	2.33	1.98	0.43	2.15	1.11	4.76	5.00	6.75	2.86	3.81	0.43	
13	2.33	3.09	1.98	0.43	1.11	0.88	7.66	5.00	6.45	2.50	5.54	0.43	
14	2.33	2.15	1.63	0.43	1.28	1.00	7.05	12.69	6.14	2.15	3.81	0.43	
15	2.15	1.80	1.63	0.43	0.88	1.63	5.24	7.05	10.72	1.98	3.81	0.43	
16	2.15	1.63	1.63	0.43	2.15	1.45	4.52	6.14	10.23	2.15	2.86	0.32	
17	1.98	1.63	1.45	0.43	2.86	1.45	5.84	5.54	14.17	2.15	2.15	0.32	
18	1.80	1.45	1.63	0.77	1.11	2.15	14.17	5.84	21.91	1.98	1.80	0.32	
19	1.63	1.45	1.98	3.09	0.54	1.45	11.21	5.00	23.80	1.80	4.52	0.32	
20	1.80	1.63	1.80	1.28	0.54	1.28	17.16	16.16	15.17	1.98	5.00	0.32	
21	2.33	1.28	1.45	1.28	0.21	1.45	25.69	21.29	11.21	1.80	3.09	0.32	
22	1.80	1.28	1.28	0.88	0.43	1.11	16.66	12.69	8.76	1.80	2.50	0.32	
23	1.45	1.11	1.28	0.54	0.21	2.33	10.72	9.73	7.66	1.80	2.50	0.32	
24	1.45	1.11	1.28	0.54	0.54	1.80	7.96	7.66	6.75	1.80	2.33	0.32	
25	1.28	1.00	1.11	2.68	0.32	6.14	7.96	7.36	6.14	1.63	2.33	0.21	
26	1.11	0.88	1.11	1.28	0.54	9.24	7.05	7.96	5.84	1.28	1.63	0.21	
27	1.11	0.88	1.00	0.88	0.77	5.00	7.96	17.66	5.54	1.28	1.11	0.21	
28	1.28	0.77	0.77	0.66	1.63	3.33	7.36	15.66	5.00	1.11	1.11	0.21	
29	1.80	0.77	0.77	0.32	3.57	2.68	6.45	21.29	4.76	1.11	1.00	0.21	
30	4.28	0.88	0.66	0.21	11.21	2.68	7.96	16.16	4.28	1.11		0.21	
31		1.45		0.10	7.36		6.75		4.04	1.11		0.21	
Total	70.74	50.94	56.68	22.49	42.59	75.34	224.31	331.90	438.42	77.00	61.47	12.95	1464.83 Tonday
Mean	2.36	1.64	1.89	0.73	1.37	2.51	7.24	11.06	14.14	2.48	2.12	0.42	4.00 Ton/day
Max	4.76	4.52	6.14	3.09	11.21	9.24	25.69	49.38	60.30	4.52	5.54	0.88	60.30 Ton/day
Min	1.11	0.77	0.66	0.10	0.10	0.88	1.45	5.00	4.04	1.11	0.66	0.21	0.10 Ton/day

**WATER YEAR : 2019**  
**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.

	<b>Ban</b>	<b>Tha Pradu</b>	<b>Amphoe</b>	<b>Huai Yot</b>	<b>Changwat</b>	<b>Trang</b>
<b>Drainage Area</b>	1,801 sq.km.					
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US DH-49					
<b>Period of Available Records</b>	1981 - Cont' d					
<b>Actual Measurement</b>	1981 - 1987, 2007 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	17					
<b>R-Square</b>	0.7313					
<b>Remarks</b>	Continued Sediment Station					

QS = 3.9486 QW<sup>1.22710</sup>

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.74	351.42	145.29	127.56	122.14	1572.45	278.77	827.08	452.71	140.86	102.87	91.39	
2	191.74	307.47	193.93	124.34	118.85	1825.44	262.35	1107.16	396.40	138.61	101.81	91.39	
3	161.31	150.59	225.36	121.04	117.76	1140.25	416.74	1492.13	376.26	136.37	99.69	90.44	
4	148.50	126.45	220.86	119.95	117.76	566.41	507.60	1223.76	669.83	135.25	98.72	89.40	
5	141.99	128.66	232.24	119.95	115.68	363.80	526.23	792.05	1030.66	133.11	96.62	89.40	
6	121.04	189.46	202.84	117.76	113.51	278.77	949.84	577.24	788.17	130.88	96.62	88.37	
7	116.68	138.61	246.01	114.59	113.51	234.51	866.34	518.21	473.54	130.88	95.57	91.39	
8	112.43	121.04	416.74	111.35	111.35	202.84	913.88	772.70	368.73	129.77	96.62	90.44	
9	109.19	118.85	468.26	110.27	110.27	200.63	1019.81	692.46	324.37	129.77	96.62	89.40	
10	108.12	152.78	434.60	109.19	110.27	339.12	807.58	707.61	295.48	129.77	96.62	88.37	
11	106.07	146.42	455.27	109.19	115.68	489.21	703.82	1003.58	271.65	129.77	97.67	87.33	
12	103.93	134.13	396.40	110.27	122.14	271.65	452.71	882.13	250.60	129.77	98.72	86.30	
13	106.07	128.66	276.43	115.68	122.14	205.05	388.80	571.88	229.87	129.77	99.69	92.43	
14	106.07	131.99	229.87	118.85	119.95	196.13	468.26	531.51	216.28	129.77	100.75	91.39	
15	108.12	136.37	193.93	116.68	117.76	255.31	406.55	476.12	220.86	129.77	98.72	89.40	
16	111.35	148.50	178.51	115.68	123.24	343.98	334.15	396.40	232.24	124.34	97.67	87.33	
17	124.34	154.88	169.82	140.86	148.50	312.25	329.31	361.34	269.32	113.51	99.69	85.28	
18	121.04	176.36	163.43	248.30	180.77	259.93	450.15	319.56	283.57	111.35	97.67	84.25	
19	112.43	152.78	220.86	373.79	163.43	225.36	662.32	288.28	269.32	108.12	96.62	84.25	
20	108.12	138.61	214.04	457.84	135.25	200.63	854.53	290.64	278.77	106.07	96.62	83.23	
21	111.35	163.43	180.77	419.26	123.24	246.01	1046.96	297.85	253.00	107.14	96.62	84.25	
22	113.51	163.43	163.43	271.65	119.95	269.32	1448.66	353.87	220.86	107.14	97.67	84.25	
23	108.12	178.51	165.55	193.93	121.04	295.48	1470.37	398.91	200.63	107.14	96.62	84.25	
24	105.00	227.61	174.20	169.82	144.15	376.26	1565.12	396.40	189.46	109.19	95.57	84.25	
25	103.93	178.51	205.05	187.28	137.49	283.57	2377.83	297.85	178.51	108.12	94.52	83.23	
26	101.81	156.99	169.82	182.94	131.99	373.79	2628.88	264.67	169.82	108.12	93.47	87.33	
27	100.75	141.99	154.88	146.42	131.99	432.05	1931.59	274.09	161.31	107.14	93.47	88.37	
28	99.69	131.99	141.99	141.99	140.86	348.97	1195.80	276.43	154.88	105.00	92.43	82.29	
29	98.72	134.13	135.25	135.25	300.22	312.25	1129.20	361.34	148.50	103.93	92.43	79.24	
30	136.37	133.11	130.88	130.88	784.30	312.25	854.53	491.82	144.15	102.87		79.24	
31		130.88		126.45	1359.57		628.72		143.02	102.87		79.24	
Total	3537.53	4974.61	6906.51	5189.01	5994.76	12733.67	27877.40	17245.07	9662.77	3716.17	2818.38	2687.12	103343.00 Tonday
Mean	117.92	160.47	230.22	167.39	193.38	424.46	899.27	574.84	311.70	119.88	97.19	86.68	282.36 Ton/day
Max	191.74	351.42	468.26	457.84	1359.57	1825.44	2628.88	1492.13	1030.66	140.86	102.87	92.43	2628.88 Ton/day
Min	98.72	118.85	130.88	109.19	110.27	196.13	262.35	264.67	143.02	102.87	92.43	79.24	79.24 Ton/day

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlung 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
<b>Drainage Area</b>	480 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	1998 - Cont' d		
<b>Actual Measurement</b>	1998 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	16		
<b>R-Square</b>	0.7293		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 3.1843 QW^{1.36980}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.55	48.94	132.40	39.62	42.23	1114.78	206.15	367.09	360.82	47.58	22.74	8.80	
2	34.55	85.02	216.99	37.06	43.55	780.45	225.21	250.36	392.46	43.55	21.63	7.95	
3	39.62	28.48	761.25	38.34	40.92	320.78	581.13	293.82	382.89	42.23	21.63	7.95	
4	32.08	17.37	402.09	39.62	37.06	227.97	326.86	244.71	296.79	40.92	20.54	7.95	
5	23.86	15.33	211.55	33.31	33.31	177.16	198.13	198.13	227.97	40.92	19.47	8.80	
6	19.47	97.97	182.34	30.87	32.08	144.48	253.20	161.85	182.34	39.62	19.47	10.56	
7	14.34	222.46	785.27	29.66	29.66	118.30	326.86	137.20	156.83	37.06	18.41	10.56	
8	13.37	174.58	424.81	28.48	27.30	102.40	662.63	261.77	137.20	35.80	18.41	10.56	
9	13.37	214.26	373.39	30.87	27.30	104.63	363.95	1428.77	122.95	35.80	17.37	10.56	
10	12.41	115.99	216.99	27.30	109.14	115.99	541.48	799.78	111.41	34.55	17.37	9.67	
11	13.37	109.14	208.85	23.86	164.38	85.02	612.48	732.70	100.18	34.55	17.37	9.67	
12	18.41	63.12	122.95	40.92	125.30	70.56	737.44	329.91	95.78	34.55	17.37	9.67	
13	26.14	48.94	85.02	87.14	74.61	64.59	373.39	354.57	93.60	34.55	21.63	9.67	
14	82.91	48.94	64.59	109.14	174.58	61.65	447.85	308.72	91.43	33.31	29.66	9.67	
15	57.33	46.22	93.60	61.65	756.48	68.55	332.96	211.55	91.43	33.31	22.74	8.80	
16	34.55	48.94	80.81	64.59	405.31	317.75	379.72	174.58	104.63	33.31	19.47	7.95	
17	70.56	154.34	61.65	405.31	498.33	134.80	225.21	154.34	95.78	32.08	17.37	7.95	
18	32.08	66.56	55.91	198.13	206.15	93.60	287.92	187.56	95.78	30.87	14.34	6.32	
19	30.87	44.88	58.76	424.81	122.95	78.73	284.98	151.86	144.48	30.87	15.33	5.55	
20	20.54	51.70	55.91	222.46	89.28	74.61	230.73	184.95	118.30	30.87	19.47	4.80	
21	29.66	64.59	54.49	184.95	78.73	68.55	373.39	244.71	95.78	30.87	18.41	4.80	
22	27.30	177.16	64.59	111.41	354.57	76.66	299.76	239.09	89.28	29.66	18.41	4.09	
23	21.63	161.85	109.14	206.15	402.09	85.02	256.05	182.34	87.14	29.66	17.37	4.09	
24	14.34	211.55	219.72	161.85	225.21	68.55	737.44	190.19	87.14	28.48	14.34	4.09	
25	12.41	74.61	100.18	494.07	794.94	61.65	1367.89	144.48	85.02	28.48	13.37	4.09	
26	11.48	66.56	111.41	179.74	1608.56	58.76	662.63	156.83	85.02	27.30	11.48	4.09	
27	15.33	64.59	113.69	109.14	468.71	55.91	357.69	184.95	82.91	27.30	10.56	6.32	
28	51.70	61.65	97.97	80.81	464.52	55.91	370.23	166.91	82.91	24.99	9.67	3.40	
29	27.30	93.60	64.59	63.12	392.46	51.70	635.14	273.31	80.81	23.86	9.67	3.40	
30	19.47	91.43	54.49	53.09	732.70	48.94	402.09	233.51	80.81	32.08		3.40	
31		159.34		46.22	2066.91		311.72		68.55	24.99		3.40	
Total	855.00	2930.11	5585.40	3663.69	10629.32	4888.45	13372.31	8950.54	4328.42	1033.97	515.07	218.58	56970.86 Ton/day
Mean	28.50	94.52	186.18	118.18	342.88	162.95	431.36	298.35	139.63	33.35	17.76	7.05	155.66 Ton/day
Max	82.91	222.46	785.27	494.07	2066.91	1114.78	1367.89	1428.77	392.46	47.58	29.66	10.56	2066.91 Ton/day
Min	11.48	15.33	54.49	23.86	27.30	48.94	198.13	137.20	68.55	23.86	9.67	3.40	3.40 Ton/day

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Khlung 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.

	<b>Ban</b> Hin Dan	<b>Amphoe</b> Ta Kuaw Pa	<b>Changwat</b> Phangnga
<b>Drainage Area</b>	546 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2003 - Cont' d		
<b>Actual Measurement</b>	2003 - 2008, 2010 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	20		
<b>R-Square</b>	0.8277		
<b>Remarks</b>	Continued Sediment Station		

$$QS = 4.4215 QW^{1.22910}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.81	152.22	270.88	325.07	411.78	3094.42	420.65	254.01	150.12	64.93	28.08	10.05	
2	61.81	80.96	286.18	293.88	394.13	2076.58	411.78	208.58	145.41	62.25	26.18	9.11	
3	152.22	50.04	301.62	293.88	359.29	1395.89	385.37	598.17	140.74	59.59	24.30	9.11	
4	118.31	53.91	352.52	248.25	359.29	1156.93	420.65	809.12	136.09	56.96	24.30	9.11	
5	182.70	309.40	334.17	225.99	438.51	900.45	663.93	745.03	126.89	56.96	22.44	8.18	
6	129.43	233.36	571.83	204.13	385.37	732.34	533.74	619.95	117.80	54.78	20.62	8.18	
7	86.13	301.62	796.23	182.70	319.03	630.89	512.57	708.46	113.31	54.78	20.62	10.05	
8	75.85	343.32	820.62	175.66	301.02	587.34	598.17	757.77	110.33	52.61	16.02	11.98	
9	65.83	711.96	1543.44	163.86	652.88	1088.29	913.65	861.09	107.37	50.47	18.82	10.05	
10	65.83	549.05	1011.47	158.02	1803.00	783.37	861.09	675.01	104.43	50.47	18.82	8.18	
11	46.22	361.76	796.23	175.66	1920.33	641.87	719.68	492.87	101.49	50.47	18.82	8.18	
12	35.14	325.07	526.45	152.22	1886.67	587.34	544.38	411.78	98.58	48.34	18.82	7.28	
13	31.57	301.62	408.62	152.22	1074.66	523.14	544.38	367.95	92.79	46.22	17.06	7.28	
14	46.22	293.88	371.05	169.74	1088.29	576.54	576.54	333.56	92.79	48.34	18.82	8.18	
15	70.81	317.22	325.07	163.86	980.14	1115.65	402.94	325.07	89.93	44.13	30.01	8.18	
16	50.04	301.62	334.17	325.07	1637.84	2400.93	385.37	307.00	89.93	44.13	20.62	6.39	
17	57.83	270.88	334.17	485.69	1971.03	1410.20	350.68	265.63	89.93	42.05	17.06	6.39	
18	46.22	204.13	361.76	1910.22	1296.49	1184.60	333.56	289.13	92.79	39.99	17.06	5.53	
19	35.14	182.70	399.16	9406.85	966.77	1129.38	313.00	325.07	101.49	39.99	17.06	4.69	
20	28.08	169.74	301.62	7021.40	796.23	913.65	283.22	295.07	89.93	39.99	16.02	4.69	
21	21.35	140.74	263.30	2583.21	732.34	757.77	265.63	248.25	87.08	42.05	14.99	4.69	
22	28.08	135.06	317.22	1315.31	1282.40	745.03	271.47	231.09	84.25	37.96	13.97	3.88	
23	38.77	140.74	2011.77	869.81	913.65	796.23	307.00	208.58	81.43	35.94	13.97	3.88	
24	21.35	135.06	982.37	652.88	835.03	609.05	350.68	203.57	78.63	39.99	12.97	3.88	
25	18.12	129.43	1161.53	526.45	1033.95	533.74	385.37	183.79	75.85	35.94	11.98	3.88	
26	31.57	182.70	1263.66	437.23	1088.29	465.54	295.07	174.04	78.63	33.94	11.98	4.69	
27	24.67	169.74	711.96	371.05	1621.49	429.56	289.13	169.20	75.85	31.96	11.01	8.18	
28	53.91	163.86	537.73	399.16	1424.54	420.65	277.33	174.04	70.35	31.96	11.01	5.53	
29	38.77	175.66	437.23	334.17	1703.55	394.13	248.25	183.79	67.63	30.01	11.01	5.53	
30	135.06	255.75	371.05	278.51	3183.10	385.37	248.25	159.61	64.93	30.01		5.53	
31		317.22		240.78	2658.25		242.50		64.93	28.08		7.28	
Total	1858.84	7460.42	18505.08	30242.93	35519.34	28466.87	13356.03	11586.28	3021.70	1385.29	524.44	217.74	152144.96 Today
Mean	61.96	240.66	616.84	975.58	1145.79	948.90	430.84	386.21	97.47	44.69	18.08	7.02	415.70 Ton/day
Max	182.70	711.96	2011.77	9406.85	3183.10	3094.42	913.65	861.09	150.12	64.93	30.01	11.98	9406.85 Ton/day
Min	18.12	50.04	263.30	152.22	301.02	385.37	242.50	159.61	64.93	28.08	11.01	3.88	3.88 Ton/day



## WATER YEAR : 2019

## 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.

	<b>Ban -</b>	<b>Amphoe Mueang</b>	<b>Changwat Phuket</b>
<b>Drainage Area</b>	55 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US.DH - 48		
<b>Period of Available Records</b>	2003 - Cont' d		
<b>Actual Measurement</b>	2003 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	12		
<b>R-Square</b>	0.7784		
<b>Remarks</b>	Continued Sediment Station		

QS = 11.8430 QW<sup>1.14390</sup>

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.15	12.39	4.15	7.88	9.18	177.85	15.71	22.46	16.55	5.98	4.15	4.15	
2	4.15	5.36	14.87	7.88	7.88	43.20	22.46	35.95	67.86	5.98	4.15	2.99	
3	3.56	5.98	14.87	7.24	7.88	22.46	14.87	46.41	56.18	5.36	4.75	2.99	
4	2.99	5.36	9.18	7.24	7.88	18.40	12.39	24.53	23.49	5.36	4.75	2.99	
5	3.56	5.36	7.88	6.60	7.24	14.87	12.39	17.40	13.21	5.36	4.15	3.56	
6	3.56	12.39	24.53	6.60	7.24	12.39	41.61	15.71	13.21	5.36	3.56	3.56	
7	3.56	9.18	13.21	7.24	7.24	14.87	27.67	16.55	13.21	5.36	4.15	4.15	
8	3.56	25.57	78.07	6.60	7.24	14.87	16.55	14.87	11.57	5.36	3.56	3.56	
9	2.99	5.36	82.21	6.60	14.03	19.41	12.39	14.87	9.97	5.36	4.15	3.56	
10	3.56	7.24	20.42	5.98	9.97	13.21	23.49	16.55	8.52	4.75	4.15	3.56	
11	3.56	7.88	7.88	6.60	5.36	26.62	17.40	13.21	8.52	5.36	3.56	3.56	
12	3.56	9.18	8.52	5.98	6.60	19.41	16.55	13.21	11.57	5.98	2.99	2.99	
13	3.56	8.52	9.97	9.97	7.88	11.57	14.03	9.97	7.88	5.36	3.56	2.99	
14	4.75	6.60	12.39	7.88	7.24	14.03	30.40	11.57	7.24	4.75	3.56	3.56	
15	6.60	6.60	10.77	6.60	15.71	19.41	61.82	14.03	11.57	4.75	4.15	2.99	
16	3.56	9.18	8.52	29.03	14.03	14.87	20.42	9.97	8.52	4.75	3.56	2.99	
17	3.56	7.24	7.88	80.14	10.77	13.21	24.53	9.18	7.88	4.75	4.75	2.99	
18	3.56	6.60	13.21	161.94	5.98	25.57	21.44	9.97	7.24	4.75	3.56	2.99	
19	3.56	6.60	9.18	52.90	4.75	23.49	14.03	15.71	6.60	4.75	2.99	2.99	
20	3.56	5.98	9.97	51.26	8.52	14.87	13.21	6.60	6.60	4.75	4.15	2.99	
21	5.98	5.36	9.18	33.16	9.18	9.97	13.21	9.18	6.60	4.75	3.56	2.99	
22	4.75	6.60	14.87	15.71	10.77	16.55	10.77	9.97	6.60	4.75	4.75	2.99	
23	6.60	8.52	29.03	31.78	22.46	13.21	19.41	9.97	7.88	4.15	3.56	2.99	
24	3.56	6.60	14.87	15.71	11.57	11.57	34.55	8.52	7.24	4.15	3.56	2.99	
25	3.56	5.36	31.78	12.39	14.87	9.97	35.95	8.52	6.60	4.75	4.15	3.56	
26	2.99	5.36	12.39	11.57	7.88	13.21	29.03	8.52	6.60	4.15	2.99	2.99	
27	2.99	5.98	10.77	10.77	16.55	10.77	16.55	9.97	6.60	4.15	3.56	2.99	
28	80.14	8.52	9.97	9.97	16.55	9.97	14.03	14.87	5.98	4.75	4.15	2.65	
29	24.53	9.97	9.18	9.97	14.03	15.71	12.39	10.77	5.98	4.15	3.56	2.65	
30	29.03	7.24	8.52	9.97	107.54	17.40	11.57	7.24	5.98	4.75		2.65	
31		9.97		9.18	35.95		18.40		5.98	4.75		2.65	
Total	239.60	248.05	518.24	652.34	439.97	662.91	649.22	436.25	389.43	153.43	112.19	98.21	4599.84 Ton/day
Mean	7.99	8.00	17.27	21.04	14.19	22.10	20.94	14.54	12.56	4.95	3.87	3.17	12.57 Ton/day
Max	80.14	25.57	82.21	161.94	107.54	177.85	61.82	46.41	67.86	5.98	4.75	4.15	177.85 Ton/day
Min	2.99	5.36	4.15	5.98	4.75	9.97	10.77	6.60	5.98	4.15	2.99	2.65	2.65 Ton/day

**WATER YEAR : 2019****SOUTHERN PENINSULA WEST COAST****Khlong Kapong at Ban Tha Na , Phang Nga (X.196)**

Lat 08 - 42 - 02 N Long 98 - 24 - 42 E

Location : on left bank at the bridge.

	<b>Ban</b>	<b>Tha Na</b>	<b>Amphoe</b>	<b>Kapong</b>	<b>Changwat</b>	<b>Phang Nga</b>
<b>Drainage Area</b>	139	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH - 48					
<b>Period of Available Records</b>	2003 - Cont' d					
<b>Actual Measurement</b>	2003 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.7880					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 8.1745 QW^{1.07860}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.39	38.43	77.01	93.74	110.70	383.02	110.70	93.74	77.01	29.15	16.34	13.57	
2	40.41	33.52	72.86	89.54	106.44	331.93	97.96	93.74	77.01	29.15	16.34	13.57	
3	48.39	27.70	83.26	87.44	100.08	260.93	97.96	176.94	77.01	29.15	16.34	13.57	
4	58.50	56.46	85.35	79.09	106.44	223.68	119.25	136.49	77.01	29.15	16.34	13.57	
5	72.86	134.32	91.64	72.86	97.96	200.21	106.44	167.03	77.01	29.15	16.34	8.17	
6	46.38	91.64	104.32	68.74	95.85	170.33	106.44	117.11	77.01	29.15	16.34	8.17	
7	33.52	89.54	121.40	66.68	93.74	136.49	106.44	117.11	77.01	29.15	13.57	8.17	
8	30.60	89.54	183.56	64.63	163.74	140.82	106.44	127.85	77.01	29.15	13.57	8.17	
9	32.06	150.61	305.44	62.58	490.21	136.49	106.44	136.49	77.01	29.15	13.57	7.30	
10	32.06	114.97	200.21	70.80	758.51	125.70	110.70	132.16	77.01	29.15	13.57	7.30	
11	26.25	89.54	170.33	68.74	431.07	119.25	127.85	110.70	77.01	29.15	13.57	7.30	
12	23.39	81.17	117.11	60.54	77.01	114.97	132.16	106.44	77.01	29.15	13.57	7.30	
13	26.25	70.80	102.20	62.58	77.01	117.11	119.25	106.44	77.01	29.15	13.57	7.30	
14	30.60	70.80	110.70	66.68	130.01	196.87	140.82	106.44	77.01	29.15	13.57	7.30	
15	36.46	77.01	95.85	60.54	369.03	436.96	140.82	102.20	77.01	29.15	13.57	7.30	
16	29.15	93.74	97.96	127.85	548.68	355.08	114.97	102.20	77.01	29.15	13.57	7.30	
17	29.15	79.09	97.96	127.85	288.26	281.41	97.96	102.20	77.01	29.15	13.57	7.30	
18	26.25	66.68	114.97	490.21	213.60	176.94	97.96	119.25	77.01	29.15	13.57	7.30	
19	24.82	62.58	106.44	1849.39	167.03	157.16	97.96	106.44	77.01	29.15	13.57	7.30	
20	23.39	58.50	87.44	857.09	150.61	132.16	97.96	102.20	77.01	29.15	13.57	7.30	
21	23.39	54.44	83.26	448.76	170.33	117.11	97.96	97.96	77.01	29.15	13.57	7.30	
22	26.25	52.42	85.35	308.89	206.90	108.57	97.96	89.54	77.01	29.15	13.57	7.30	
23	32.06	60.54	698.59	220.32	260.93	97.96	93.74	89.54	77.01	29.15	13.57	7.30	
24	23.39	54.44	237.18	186.88	220.32	97.96	106.44	89.54	77.01	29.15	13.57	3.04	
25	21.96	58.50	254.12	157.16	196.87	117.11	119.25	85.35	66.68	29.15	13.57	3.04	
26	30.60	64.63	230.42	138.65	160.45	106.44	89.54	85.35	29.15	29.15	13.57	3.04	
27	23.39	60.54	157.16	127.85	167.03	102.20	93.74	85.35	29.15	29.15	13.57	3.04	
28	29.15	56.46	127.85	117.11	284.83	97.96	93.74	85.35	29.15	26.25	13.57	3.04	
29	27.70	54.44	112.83	125.70	448.76	97.96	93.74	77.01	29.15	19.13	13.57	3.04	
30	33.52	81.17	102.20	119.25	792.91	97.96	140.82	77.01	29.15	17.73		6.43	
31		108.57		117.11	436.96		93.74		29.15	16.34		3.04	
Total	965.29	2282.79	4514.97	6595.25	7922.27	5238.74	3357.15	3225.17	2089.82	866.50	410.15	224.17	37692.27 Ton/day
Mean	32.18	73.64	150.50	212.75	255.56	174.62	108.30	107.51	67.41	27.95	14.14	7.23	102.98 Ton/day
Max	72.86	150.61	698.59	1849.39	792.91	436.96	140.82	176.94	77.01	29.15	16.34	13.57	1849.39 Ton/day
Min	21.96	27.70	72.86	60.54	77.01	97.96	89.54	77.01	29.15	16.34	13.57	3.04	3.04 Ton/day

## WATER YEAR : 2019

## 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.

	<b>Ban</b>	<b>Yan Ta Khaow</b>	<b>Amphoe</b>	<b>Yan Ta Khaow</b>	<b>Changwat</b>	<b>Trang</b>
<b>Drainage Area</b>	588	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH-49					
<b>Period of Available Records</b>	2005 - Cont' d					
<b>Actual Measurement</b>	2005 - 2006, 2010 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	11					
<b>R-Square</b>	0.7702					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 2.1460 QW^{1.32330}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.02	60.70	68.86	84.15	101.97	516.06	206.23	206.23	159.98	114.93	37.86	39.30	
2	40.75	68.86	80.69	89.41	120.59	456.24	219.32	284.78	193.33	105.63	30.87	33.63	
3	48.19	72.19	101.97	96.54	116.81	330.62	287.59	456.24	259.74	101.97	26.07	26.07	
4	60.70	75.56	111.19	101.97	122.50	259.74	431.17	473.15	216.69	164.06	27.12	24.00	
5	67.20	77.26	96.54	105.63	122.50	195.89	338.42	366.06	166.11	342.33	32.24	27.12	
6	67.20	84.15	101.97	103.80	98.34	149.88	374.06	281.97	136.02	304.63	36.44	32.24	
7	65.56	82.41	195.89	94.74	72.19	118.70	268.02	216.69	120.59	229.94	40.75	39.30	
8	63.93	75.56	188.23	78.97	52.80	103.80	208.83	237.98	114.93	183.17	51.25	49.72	
9	57.51	72.19	170.65	65.56	51.25	128.25	164.06	313.23	111.19	157.95	59.10	63.93	
10	51.25	62.31	141.92	52.80	62.31	139.95	248.80	254.26	105.63	137.98	68.86	75.56	
11	42.21	49.72	122.50	43.69	87.64	141.92	208.83	251.53	101.97	120.59	75.56	80.69	
12	33.63	42.21	109.33	48.19	100.15	126.33	203.63	216.69	100.15	103.80	82.41	78.97	
13	25.03	39.30	105.63	54.36	94.74	120.59	190.78	201.04	94.74	100.15	82.41	75.56	
14	25.03	46.68	98.34	68.86	91.18	122.50	473.15	185.69	92.95	84.15	77.26	63.93	
15	32.24	55.93	114.93	68.86	128.25	134.07	319.00	164.06	96.54	73.87	59.10	46.68	
16	42.21	85.89	132.12	73.87	529.10	170.65	296.08	153.90	118.70	65.56	43.69	32.24	
17	51.25	128.25	118.70	89.41	749.20	147.88	254.26	137.98	109.33	63.93	28.18	24.00	
18	72.19	100.15	109.33	132.12	443.67	132.12	248.80	124.41	111.19	68.86	27.12	24.00	
19	77.26	89.41	109.33	126.33	296.08	114.93	235.29	114.93	134.07	68.86	30.87	27.12	
20	85.89	80.69	100.15	126.33	211.44	98.34	237.98	155.92	103.80	73.87	32.24	30.87	
21	87.64	77.26	92.95	143.90	155.92	89.41	235.29	307.49	87.64	80.69	32.24	36.44	
22	78.97	120.59	87.64	118.70	190.78	67.20	237.98	198.47	80.69	85.89	36.44	43.69	
23	65.56	100.15	118.70	100.15	170.65	94.74	219.32	183.17	80.69	91.18	43.69	51.25	
24	52.80	78.97	126.33	91.18	122.50	62.31	216.69	157.95	80.69	87.64	48.19	59.10	
25	42.21	52.80	85.89	73.87	224.61	72.19	235.29	168.17	78.97	75.56	52.80	62.31	
26	29.52	37.86	80.69	60.70	473.15	107.48	216.69	193.33	80.69	60.70	57.51	60.70	
27	26.07	37.86	94.74	52.80	358.11	111.19	229.94	180.64	77.26	46.68	57.51	60.70	
28	25.03	35.02	82.41	60.70	319.00	116.81	221.96	203.63	77.26	36.44	54.36	59.10	
29	33.63	39.30	78.97	68.86	287.59	124.41	208.83	257.00	70.52	30.87	48.19	55.93	
30	48.19	48.19	82.41	75.56	427.03	151.89	198.47	188.23	65.56	27.12		48.19	
31		60.70		85.89	667.24		183.17		55.93	30.87		37.86	
Total	1533.87	2138.12	3309.00	2637.90	7049.29	4706.09	7817.93	6834.82	3483.55	3319.87	1380.33	1470.20	45680.97 Tonday
Mean	51.13	68.97	110.30	85.09	227.40	156.87	252.19	227.83	112.37	107.09	47.60	47.43	124.81 Ton/day
Max	87.64	128.25	195.89	143.90	749.20	516.06	473.15	473.15	259.74	342.33	82.41	80.69	749.20 Ton/day
Min	25.03	35.02	68.86	43.69	51.25	62.31	164.06	114.93	55.93	27.12	26.07	24.00	24.00 Ton/day

## WATER YEAR : 2019

## SOUTHERN PENINSULA WEST COAST

## Klong 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.

	<b>Ban</b>	<b>Bang Tong</b>	<b>Amphoe</b>	<b>Mueang</b>	<b>Changwat</b>	<b>Phangnga</b>
<b>Drainage Area</b>	242	sq.km.				
<b>Method of sampling</b>	Depth Integrating					
<b>Instrument Used</b>	US.DH - 48					
<b>Period of Available Records</b>	2005 - Cont' d					
<b>Actual Measurement</b>	2005 - Cont' d					
<b>Using Rating Curve Water Year</b>	2019					
<b>Number of observation</b>	20					
<b>R-Square</b>	0.8313					
<b>Remarks</b>	Continued Sediment Station					

$$QS = 6.0932 QW^{1.23550}$$

## Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	55.75	35.88	74.66	133.98	27.64	1346.99	172.94	142.17	90.74	48.95	29.66	19.84	
2	58.06	33.78	60.38	129.92	29.66	811.11	246.76	129.92	94.54	51.20	31.71	17.97	
3	65.07	29.66	62.72	125.89	21.74	545.34	224.10	325.09	98.36	48.95	29.66	19.84	
4	62.72	35.88	67.45	117.89	25.64	441.02	165.85	501.36	90.74	48.95	29.66	19.84	
5	67.45	35.88	72.24	106.09	51.20	341.23	187.30	285.41	83.25	46.72	27.64	17.97	
6	79.55	42.32	113.93	98.36	27.64	277.59	194.56	201.87	79.55	46.72	27.64	16.14	
7	94.54	55.75	72.24	94.54	17.97	231.60	231.60	224.10	77.10	44.51	27.64	19.84	
8	51.20	55.75	277.59	90.74	35.88	194.56	441.02	262.09	74.66	44.51	27.64	21.74	
9	42.32	133.98	293.26	86.98	224.10	231.60	458.11	277.59	74.66	44.51	25.64	21.74	
10	42.32	133.98	432.52	90.74	824.52	165.85	341.23	216.64	72.24	44.51	25.64	19.84	
11	38.00	106.09	341.23	94.54	1186.69	154.62	254.40	172.94	72.24	42.32	25.64	17.97	
12	33.78	94.54	146.30	86.98	716.59	150.45	209.23	150.45	69.84	44.51	27.64	17.97	
13	33.78	86.98	117.89	86.98	357.52	142.17	246.76	138.06	67.45	42.32	25.64	27.64	
14	35.88	79.55	102.21	98.36	285.41	146.30	231.60	129.92	67.45	42.32	27.64	23.68	
15	33.78	83.25	90.74	86.98	254.40	246.76	187.30	194.56	65.07	42.32	31.71	19.84	
16	31.71	90.74	86.98	277.59	554.22	373.95	172.94	180.09	67.45	40.15	29.66	17.97	
17	31.71	79.55	79.55	325.09	1186.69	262.09	150.45	142.17	65.07	40.15	29.66	17.97	
18	29.66	69.84	121.88	1912.11	554.22	510.10	142.17	165.85	65.07	38.00	29.66	16.14	
19	29.66	69.84	121.88	4962.67	357.52	527.67	154.62	187.30	67.45	38.00	29.66	14.35	
20	29.66	69.84	98.36	2151.30	277.59	293.26	142.17	158.81	62.72	38.00	27.64	16.14	
21	29.66	67.45	98.36	1072.62	231.60	246.76	129.92	142.17	62.72	38.00	25.64	14.35	
22	27.64	65.07	94.54	527.67	285.41	209.23	146.30	129.92	60.38	38.00	23.68	14.35	
23	31.71	65.07	974.67	341.23	216.64	187.30	172.94	117.89	60.38	35.88	25.64	14.35	
24	29.66	67.45	77.10	246.76	246.76	150.45	165.85	113.93	58.06	35.88	23.68	14.35	
25	27.64	65.07	106.09	180.09	246.76	146.30	154.62	106.09	58.06	33.78	23.68	14.35	
26	27.64	69.84	277.59	129.92	216.64	133.98	138.06	106.09	55.75	35.88	21.74	16.14	
27	25.64	72.24	231.60	83.25	638.98	125.89	154.62	98.36	55.75	33.78	19.84	16.14	
28	31.71	69.84	187.30	55.75	518.87	133.98	146.30	106.09	53.46	33.78	21.74	16.14	
29	33.78	69.84	165.85	44.51	784.42	125.89	133.98	102.21	51.20	31.71	23.68	16.14	
30	33.78	77.10	142.17	33.78	2167.43	117.89	146.30	98.36	53.46	31.71		14.35	
31		180.09		29.66	1361.75		158.81		51.20	31.71		14.35	
Total	1245.46	2292.14	5189.28	13902.97	13932.10	8971.93	6202.81	5307.50	2126.07	1257.73	776.40	549.44	61753.83 Tonday
Mean	41.52	73.94	172.98	448.48	449.42	299.06	200.09	176.92	68.58	40.57	26.77	17.72	168.73 Ton/day
Max	94.54	180.09	974.67	4962.67	2167.43	1346.99	458.11	501.36	98.36	51.20	31.71	27.64	4962.67 Ton/day
Min	25.64	29.66	60.38	29.66	17.97	117.89	129.92	98.36	51.20	31.71	19.84	14.35	14.35 Ton/day

**WATER YEAR : 2019**  
**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.

	<b>Ban Panjor</b>	<b>Amphoe Khuan Don</b>	<b>Changwat Satun</b>
<b>Drainage Area</b>	262 sq.km.		
<b>Method of sampling</b>	Depth Integrating		
<b>Instrument Used</b>	US DH - 48		
<b>Period of Available Records</b>	2013 - Cont' d		
<b>Actual Measurement</b>	2013 - Cont' d		
<b>Using Rating Curve Water Year</b>	2019		
<b>Number of observation</b>	13		
<b>R-Square</b>	0.7438		
<b>Remarks</b>	Continued Sediment Station		

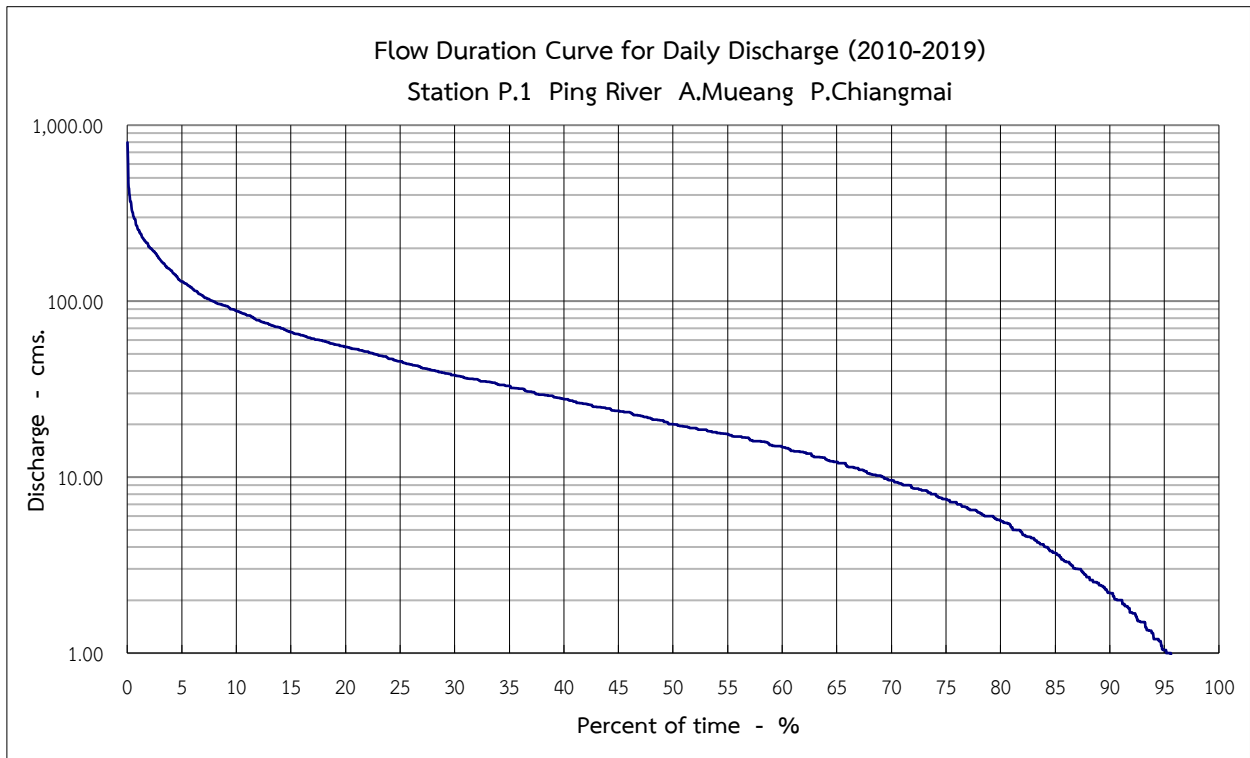
$$QS = 7.6750 QW^{1.00430}$$

**Suspended Sediment , in Tons per Day. Water Year 1 April 2019 to 31 March 2020**

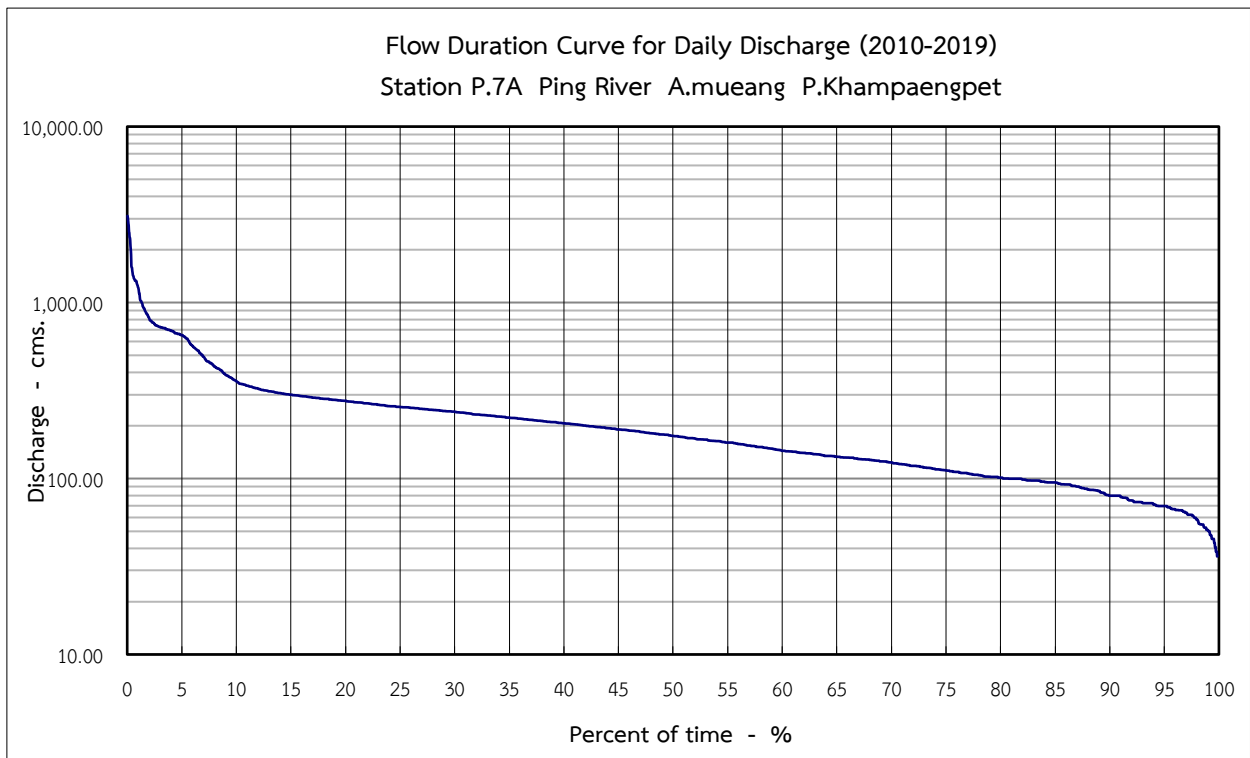
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.46	11.76	24.06	15.78	11.15	154.71	80.16	72.92	32.98	11.15	4.98	3.98	
2	12.30	8.52	26.47	14.08	17.56	179.94	53.09	61.80	36.24	9.99	4.52	3.98	
3	27.32	6.98	28.09	12.92	12.92	123.65	70.90	71.91	29.72	10.61	4.52	3.52	
4	23.21	6.52	24.84	11.76	11.76	69.89	54.88	49.51	25.69	9.53	3.98	2.52	
5	15.78	6.52	20.42	11.76	12.92	47.73	55.73	44.15	24.06	9.53	3.52	1.98	
6	12.30	8.99	23.21	10.61	10.61	38.80	62.81	49.51	21.59	9.53	6.52	2.52	
7	10.61	12.30	45.94	9.53	9.53	33.83	63.82	63.82	20.42	9.53	3.52	10.61	
8	9.53	14.62	33.83	8.99	8.52	30.57	157.68	81.25	20.42	8.52	4.98	8.52	
9	8.52	23.21	31.35	8.99	11.15	27.32	90.67	72.92	19.88	8.52	5.52	5.52	
10	7.98	20.42	28.95	8.52	20.42	26.47	94.88	68.87	19.26	7.98	5.98	3.98	
11	7.52	27.32	30.57	7.98	130.98	24.06	229.73	128.02	18.72	7.98	9.53	3.52	
12	9.53	18.10	28.95	14.62	92.78	22.44	284.19	111.02	17.56	7.98	14.08	3.52	
13	19.88	16.40	20.42	31.35	43.22	20.42	102.60	88.57	16.94	7.98	17.56	2.52	
14	13.46	14.62	17.56	18.72	28.95	19.88	101.19	55.73	16.40	7.98	11.15	2.52	
15	15.78	16.40	18.72	21.59	34.61	27.32	74.94	45.94	17.56	6.98	8.52	1.98	
16	12.92	31.35	23.21	19.26	44.15	34.61	56.74	40.58	19.26	6.52	7.52	1.52	
17	14.08	48.58	18.72	32.98	63.82	33.83	61.80	37.09	21.04	5.98	6.98	0.99	
18	10.61	27.32	16.40	24.06	37.87	46.79	67.86	35.46	25.69	5.98	6.98	0.00	
19	9.53	19.88	21.04	20.42	27.32	48.58	54.88	37.09	20.42	4.98	14.62	1.52	
20	9.99	19.26	16.94	24.06	22.44	32.98	45.01	54.88	18.10	4.52	8.99	2.52	
21	15.24	20.42	15.24	18.10	19.88	29.72	51.30	37.09	16.94	4.52	6.98	1.52	
22	10.61	18.10	14.08	16.40	23.21	27.32	59.77	31.35	16.40	6.52	5.98	1.52	
23	8.52	28.95	25.69	47.73	24.84	54.88	101.19	31.35	15.78	5.98	5.52	0.99	
24	7.98	18.72	52.16	22.44	23.21	37.87	301.02	28.95	14.62	6.52	5.52	0.99	
25	6.98	15.24	29.72	25.69	64.83	30.57	285.91	28.95	14.08	5.98	4.52	1.52	
26	6.52	14.08	21.04	22.44	150.26	26.47	109.61	28.95	13.46	5.98	4.98	0.53	
27	5.98	14.08	19.88	25.69	99.79	30.57	71.91	26.47	12.92	3.98	5.52	0.99	
28	7.52	12.30	24.84	18.72	61.80	36.24	73.93	25.69	12.30	4.52	4.98	0.99	
29	6.98	13.46	19.26	15.24	64.83	30.57	171.03	27.32	11.76	4.52	3.98	0.00	
30	8.99	13.46	16.94	12.92	144.33	36.24	182.91	25.69	11.76	4.52		12.30	
31		28.09		11.76	223.48		119.44		11.15	4.98		19.26	
<b>Total</b>	349.63	555.97	738.54	565.11	1553.14	1384.27	3391.58	1562.85	593.12	219.79	201.95	108.35	11224.30 Tonday
<b>Mean</b>	11.65	17.93	24.62	18.23	50.10	46.14	109.41	52.09	19.13	7.09	6.96	3.50	30.67 Ton/day
<b>Max</b>	27.32	48.58	52.16	47.73	223.48	179.94	301.02	128.02	36.24	11.15	17.56	19.26	301.02 Ton/day
<b>Min</b>	5.98	6.52	14.08	7.98	8.52	19.88	45.01	25.69	11.15	3.98	3.52	0.00	0.00 Ton/day

## Appendix

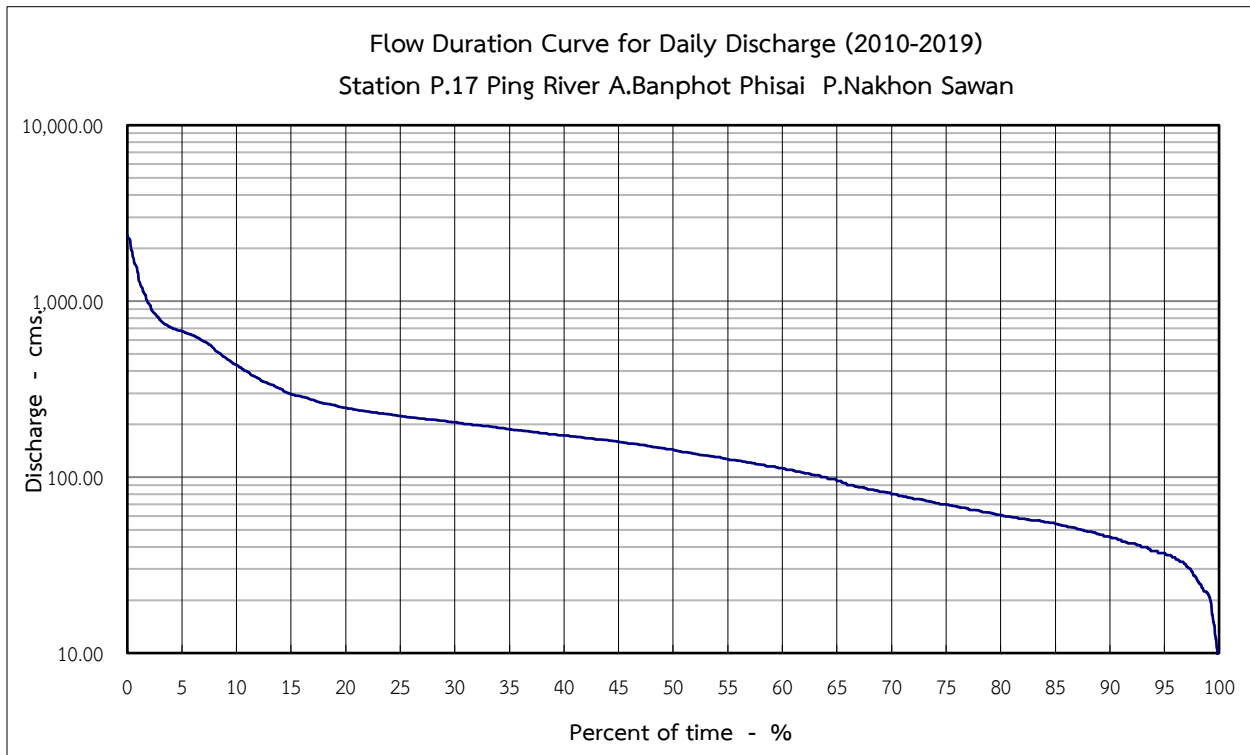
Flow Duration Curve for Daily Discharge  
(2010-2019)



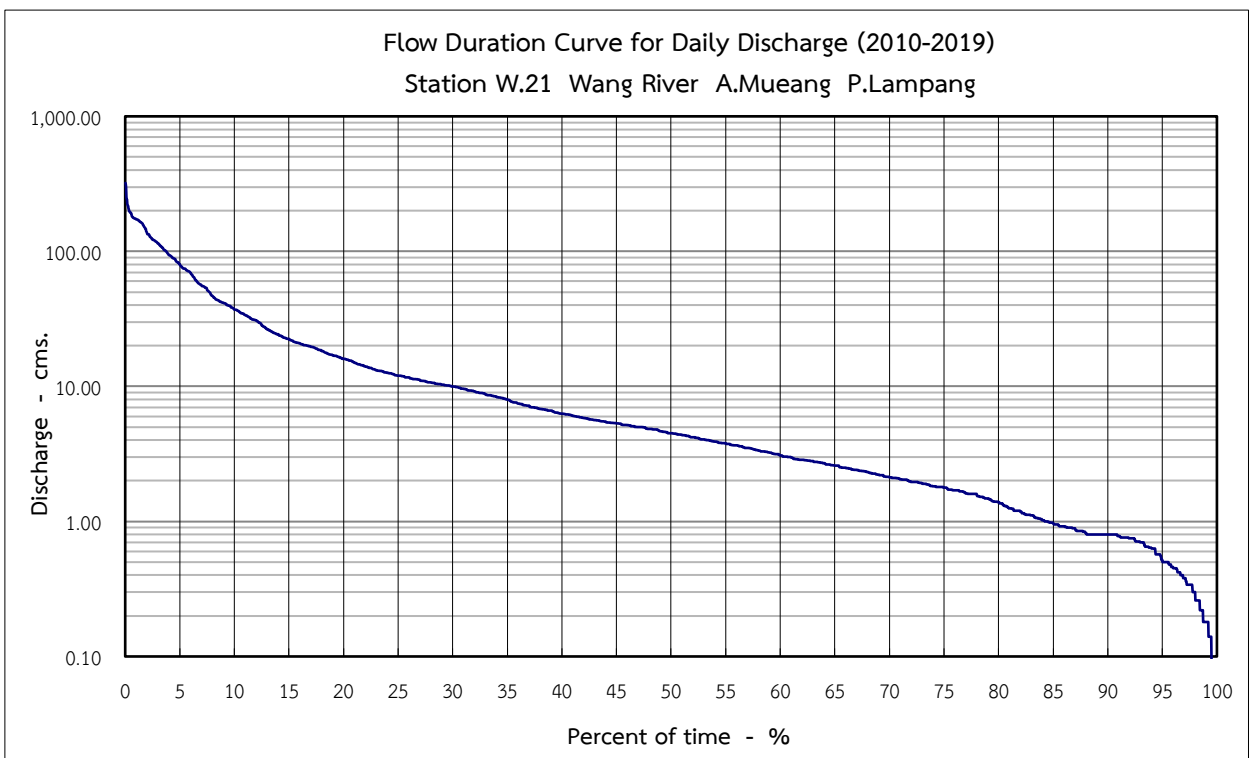
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	254.7	87.8	55.0	38.0	20.0	14.9	5.7	3.7	2.2	1.0	0.1



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,219.1	358.2	276.5	240.0	174.7	143.7	101.2	95.0	79.9	69.7	25.3



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,412.1	433.7	248.0	205.0	143.3	112.5	60.9	54.5	45.5	37.0	3.0

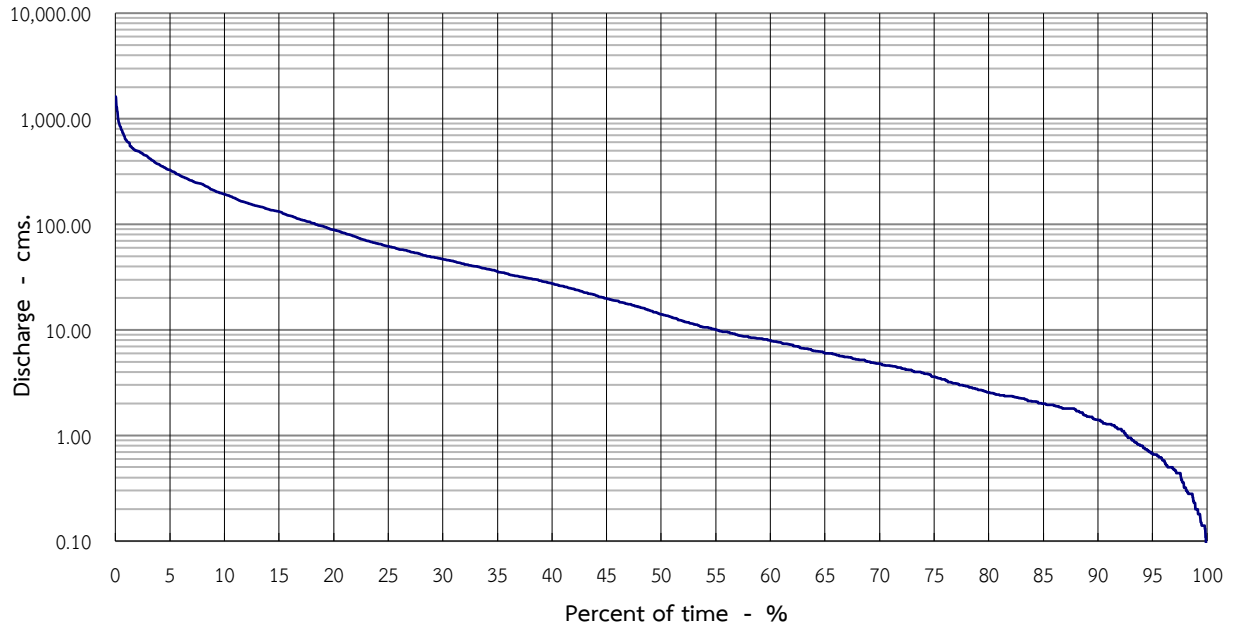


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	172.8	37.1	16.0	10.0	4.5	3.1	1.4	1.0	0.8	0.5	0.0



Flow Duration Curve for Daily Discharge (2010-2019)

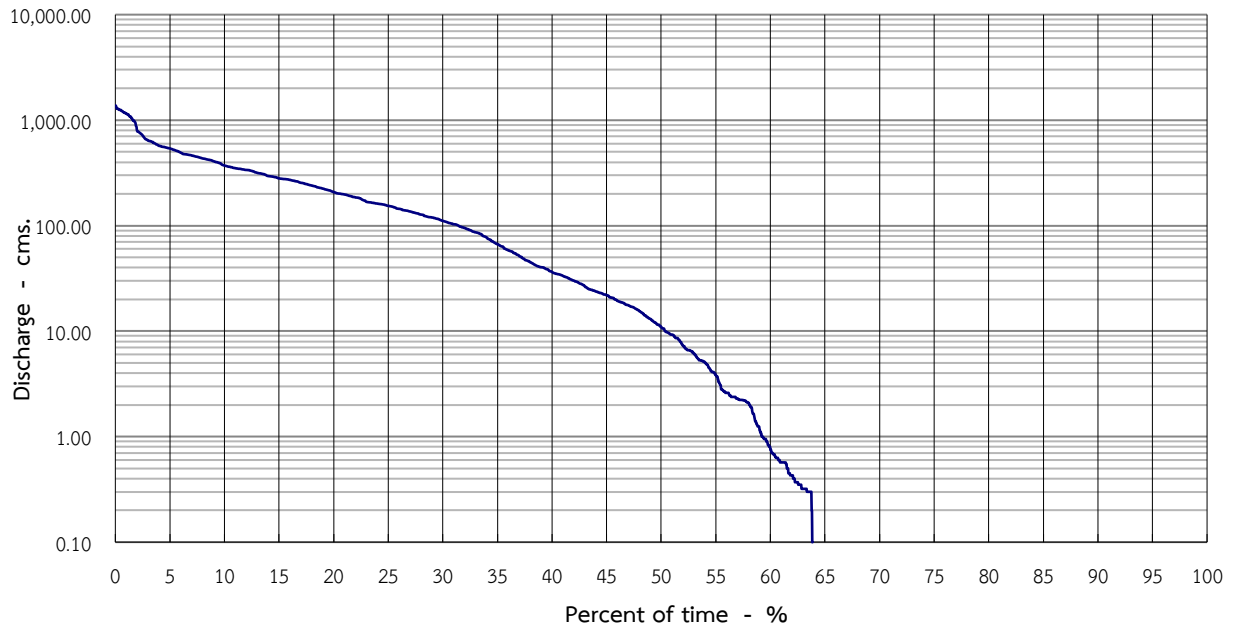
Station Y.1C Yom River A.Mueang P.Phrae



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	625.6	192.9	88.9	46.8	14.1	8.0	2.6	2.0	1.4	0.7	0.1

Flow Duration Curve for Daily Discharge (2010-2019)

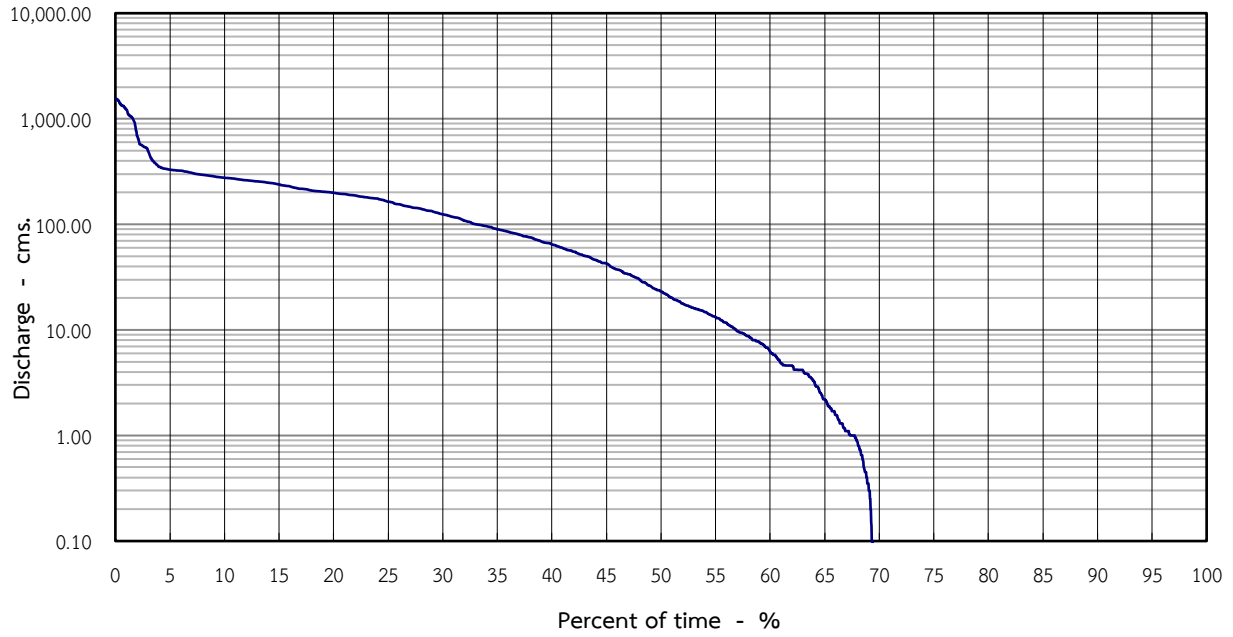
Station Y.16 Yom River A.Bang Rakam P.Phitsanulok



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,154.0	370.4	208.4	110.8	11.0	0.8	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2010-2019)

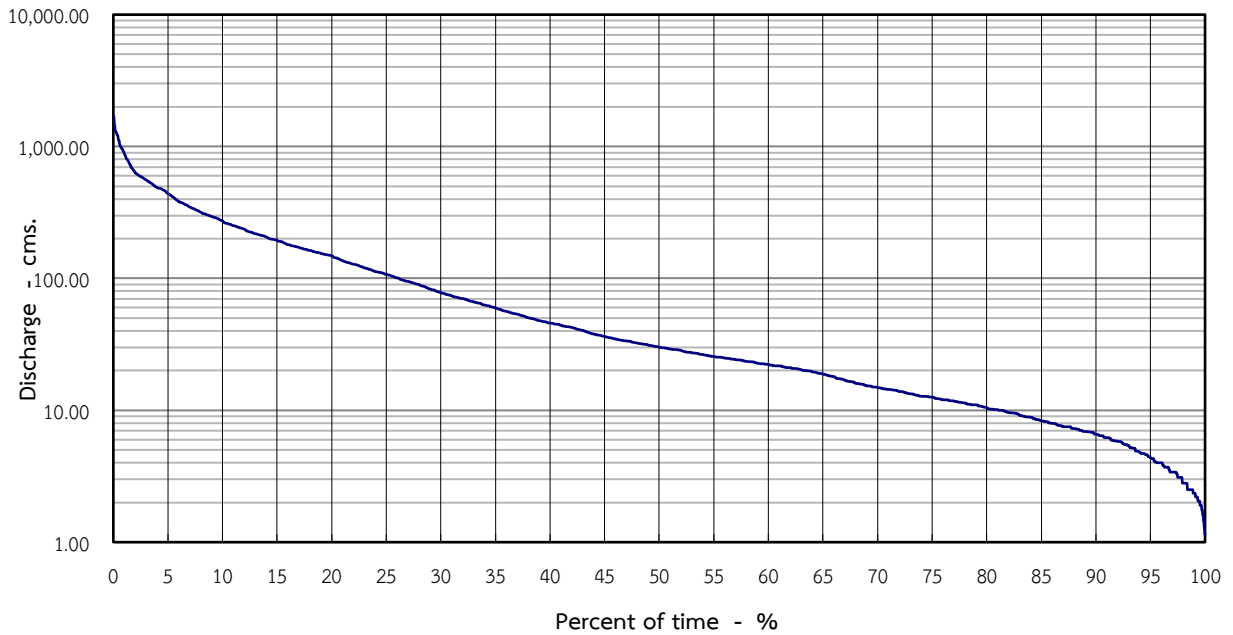
Station Y.17 Yom River A.Sam Ngam P.Phichit



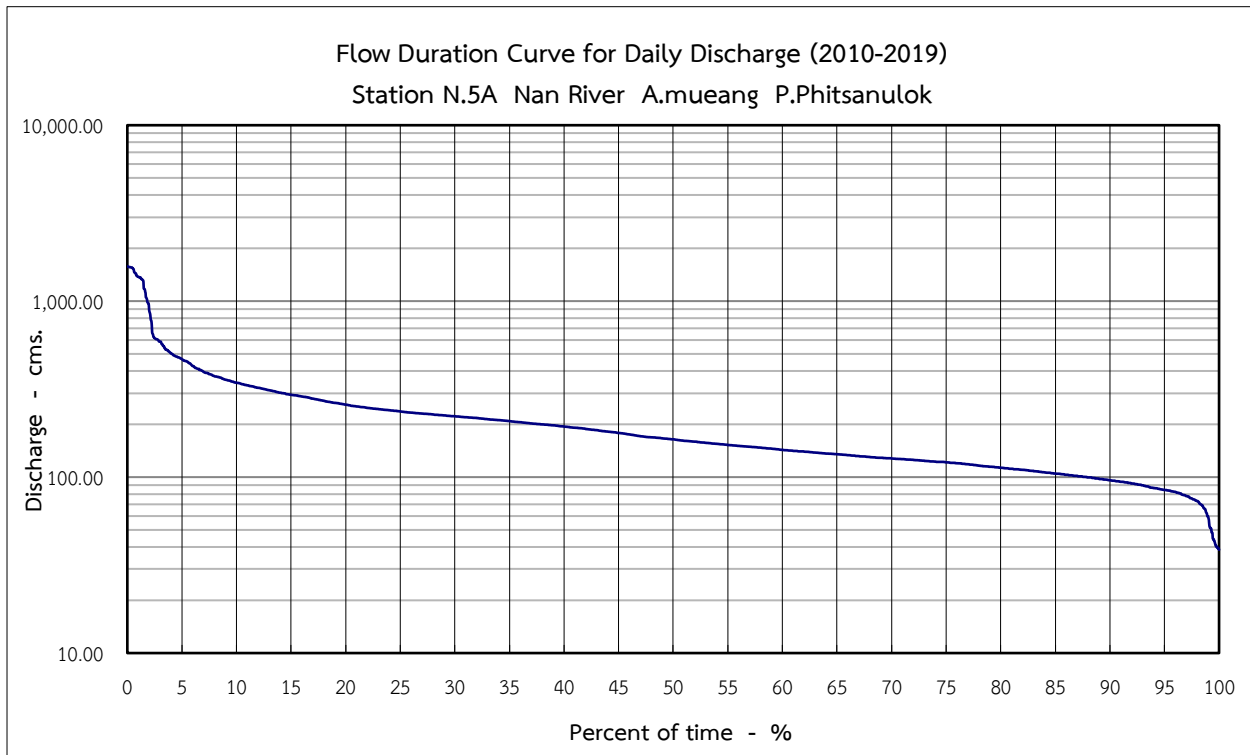
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,228.6	276.1	198.9	124.4	23.1	6.2	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2010-2019)

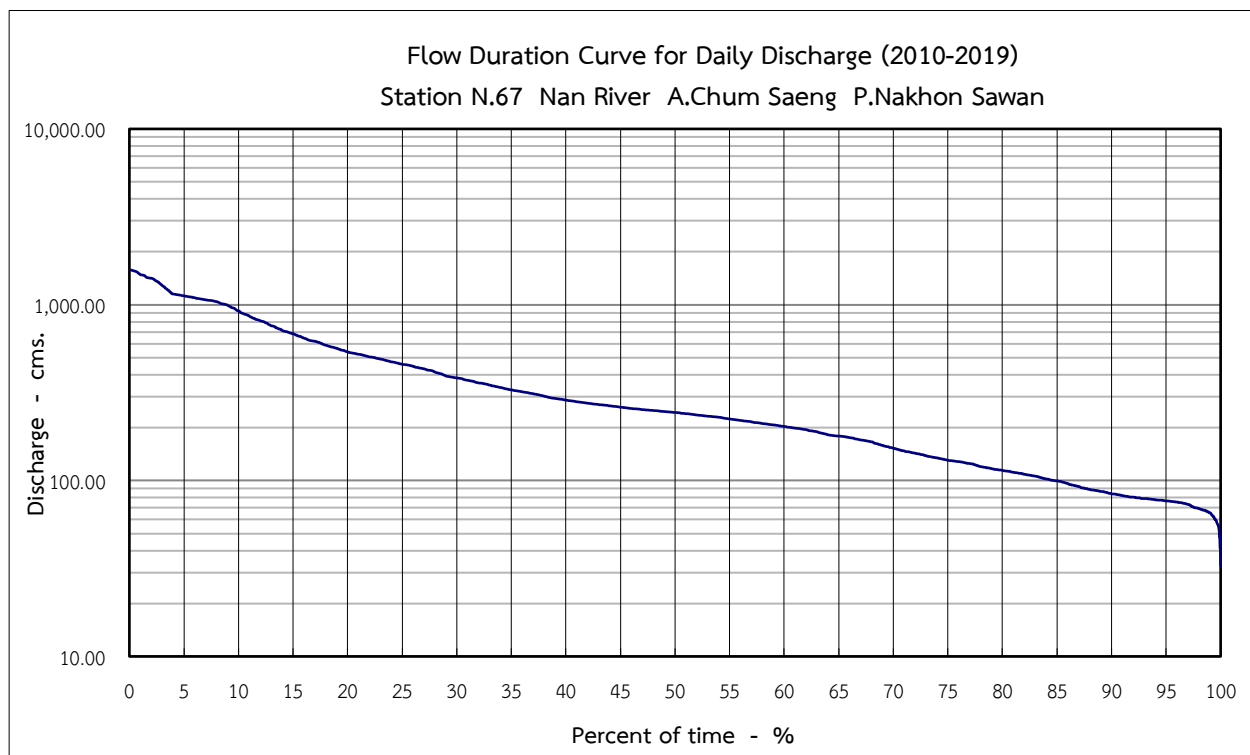
Station N.1 Nan River A.mueang P.Nan



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	890.0	272.9	148.0	78.1	30.0	22.3	10.5	8.3	6.6	4.4	1.2

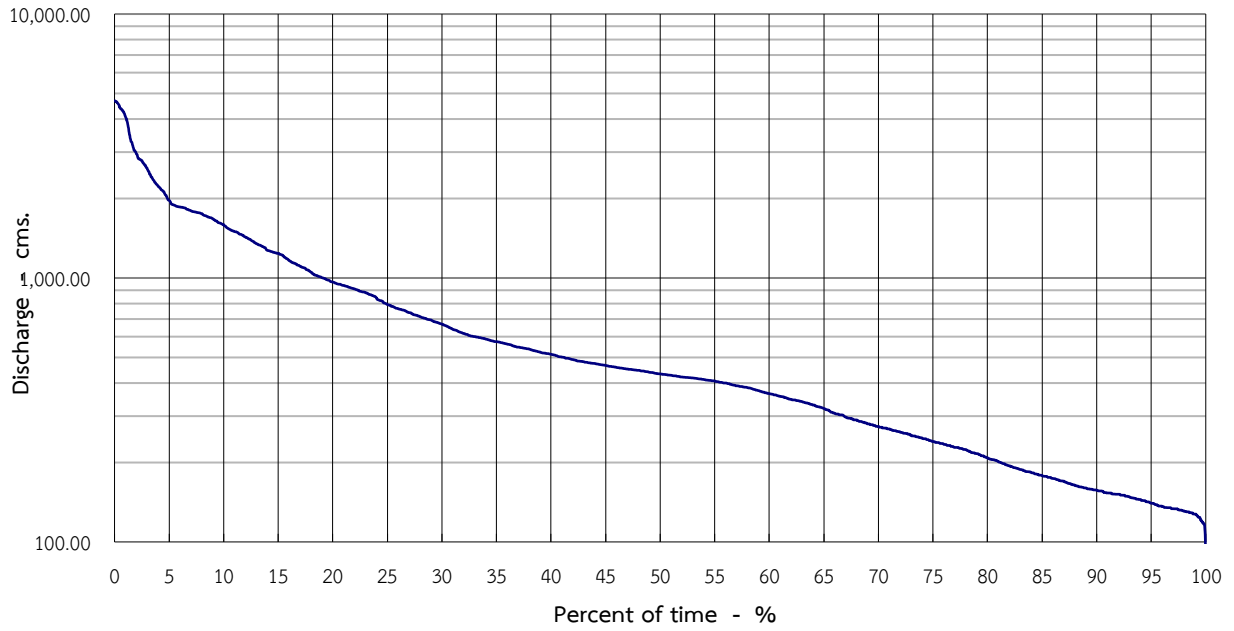


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,374.2	344.0	258.0	221.8	164.0	142.8	113.0	104.7	96.0	84.5	38.7



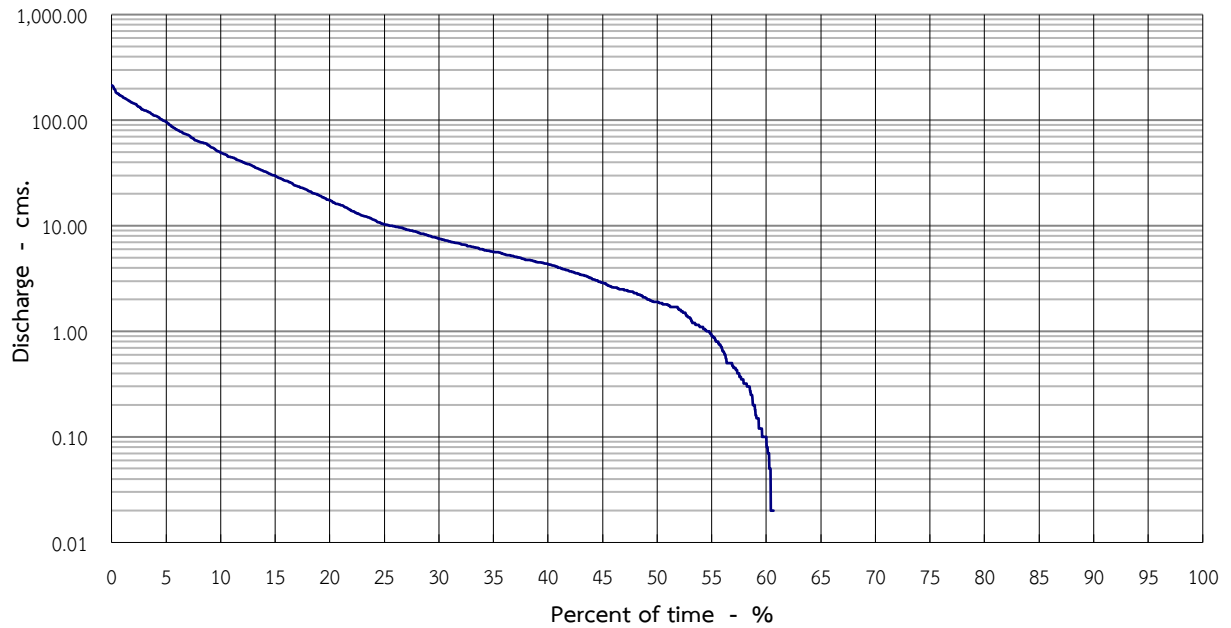
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,484.9	922.9	539.8	383.4	244.0	203.2	114.3	99.5	84.0	76.6	32.7

Flow Duration Curve for Daily Discharge (2010-2019)  
 Station C.2 Chao Phaya River A.Mueang P.Nakhon Sawan



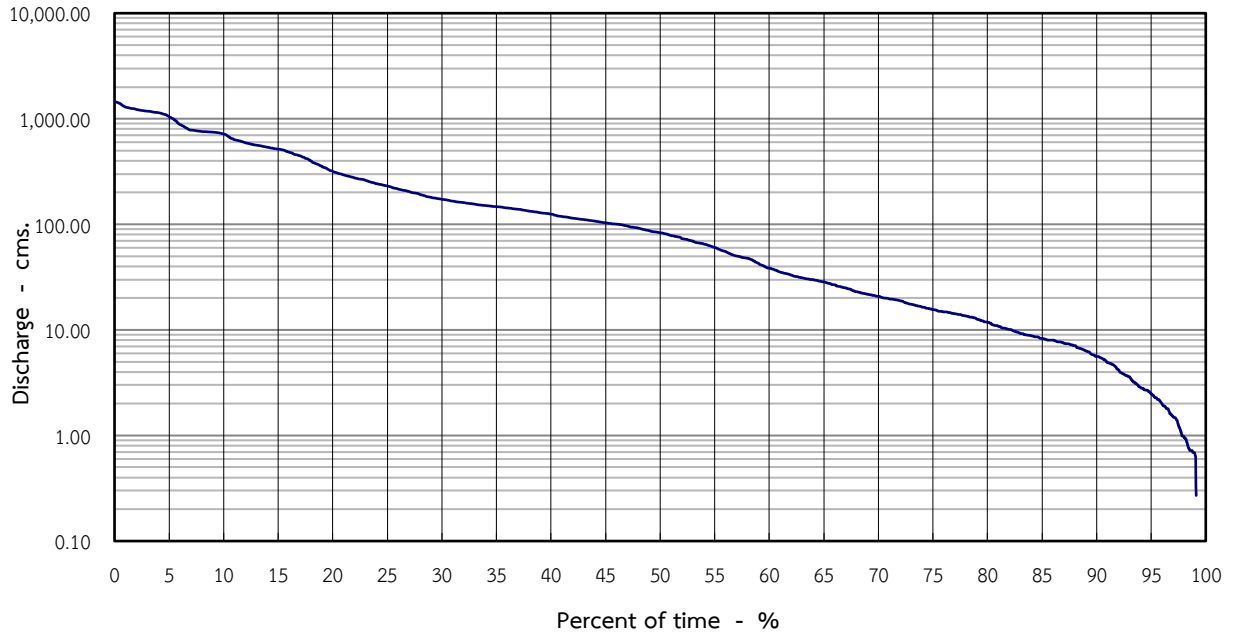
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,088.9	1,592.4	965.0	669.0	432.9	364.8	208.0	178.4	156.9	140.1	94.5

Flow Duration Curve for Daily Discharge (2010-2019)  
 Station S.4B Pasak River A.Mueang P.Petchabun



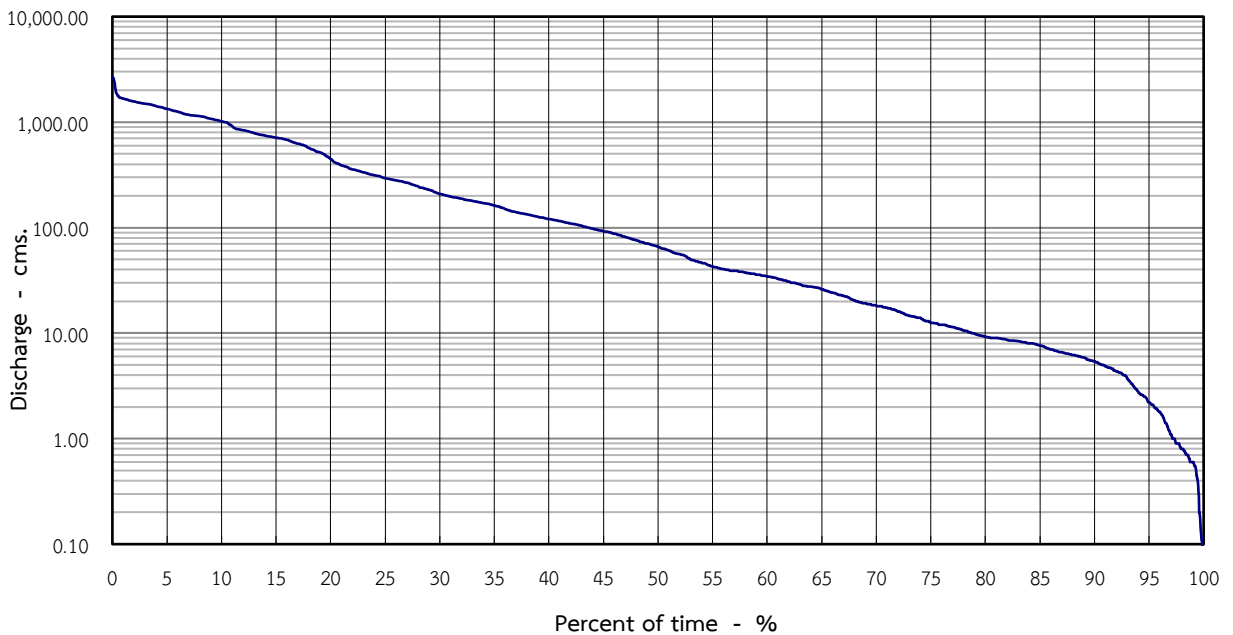
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	167.7	49.4	17.5	7.5	1.9	0.1	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2010-2019)  
E.18 Chi River K.A.Thung Khao Luang P.Roi Et



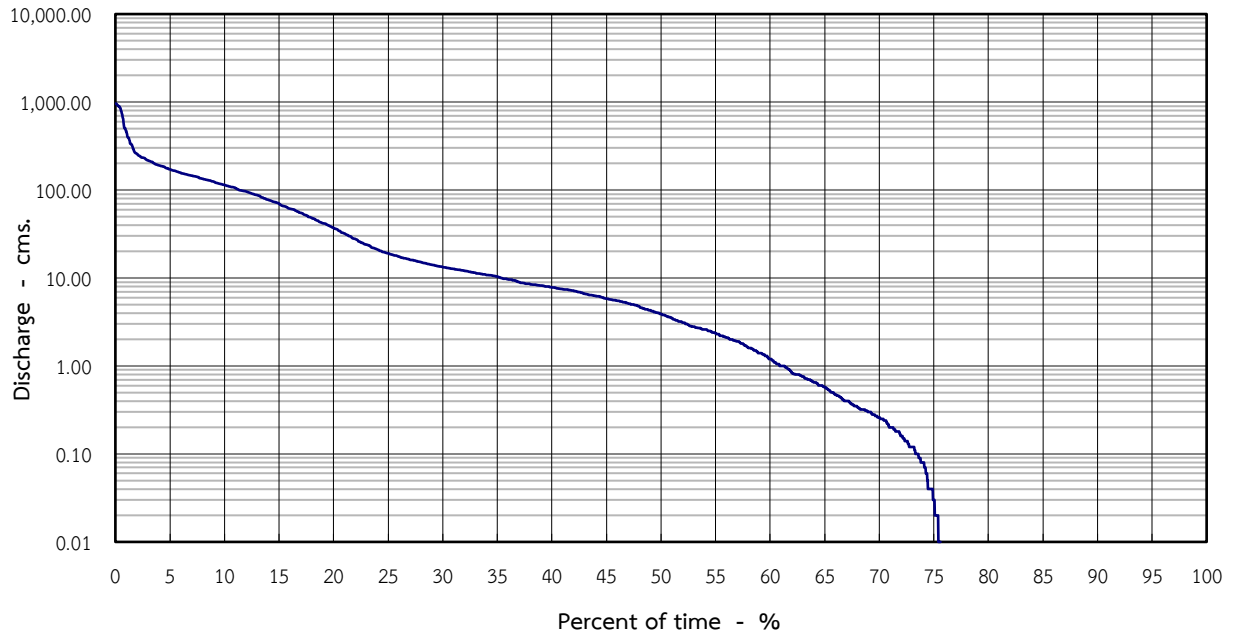
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,288.4	717.0	317.8	172.7	83.0	38.5	11.8	8.3	5.6	2.5	0.0

Flow Duration Curve for Daily Discharge (2010-2019)  
Station E.20A Chi River A.Maha Chana Chai P.Yasothon



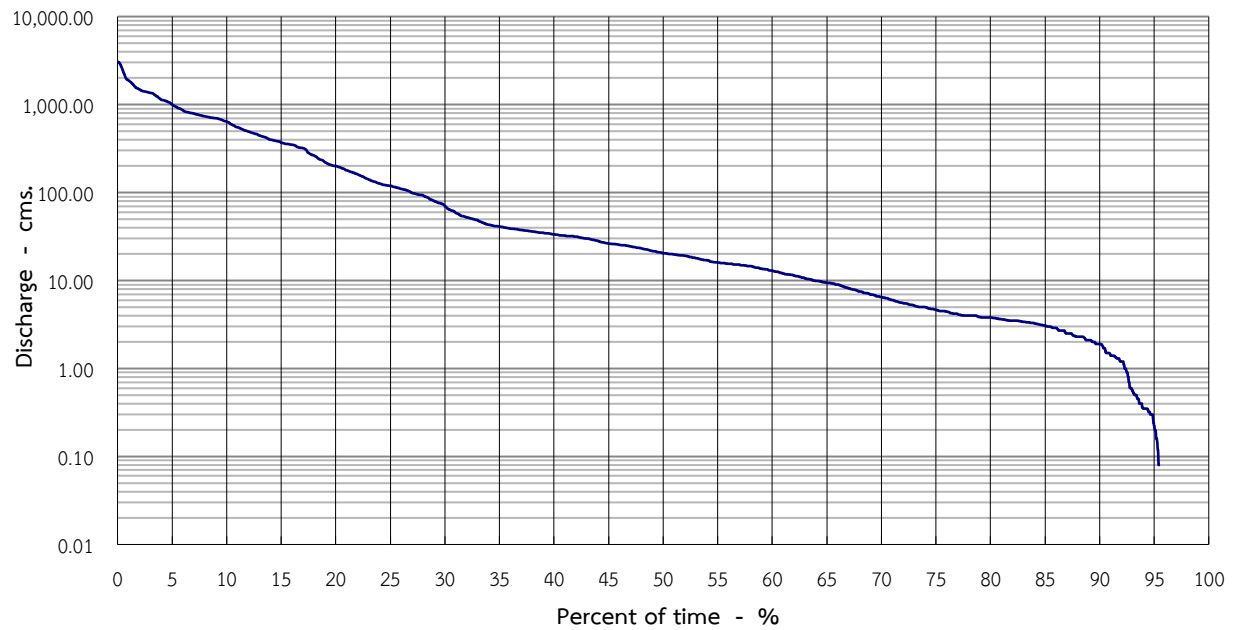
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,674.2	1,016.0	447.5	209.0	66.0	34.4	9.2	7.6	5.4	2.2	0.1

Flow Duration Curve for Daily Discharge (2010-2019)  
Station E.23 Chi River A.Mueang P.Chaiyaphum

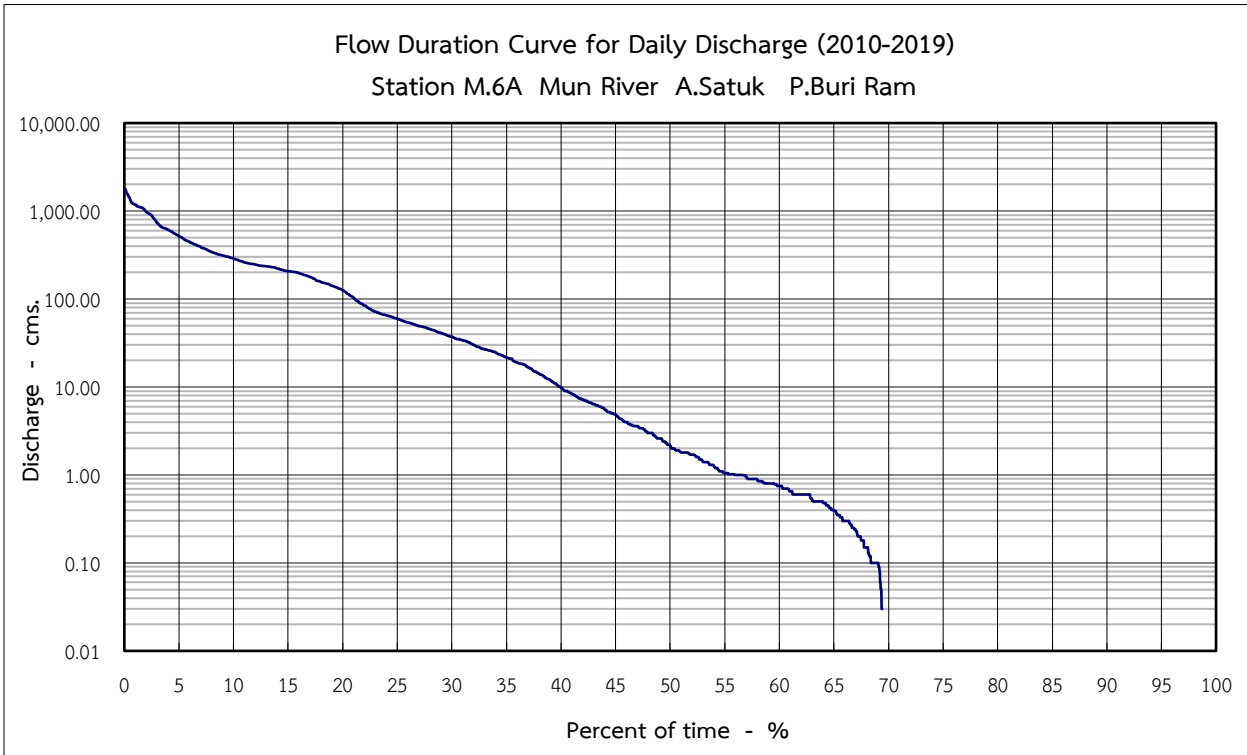


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	462.4	113.9	37.0	13.3	3.9	1.2	0.0	0.0	0.0	0.0	0.0

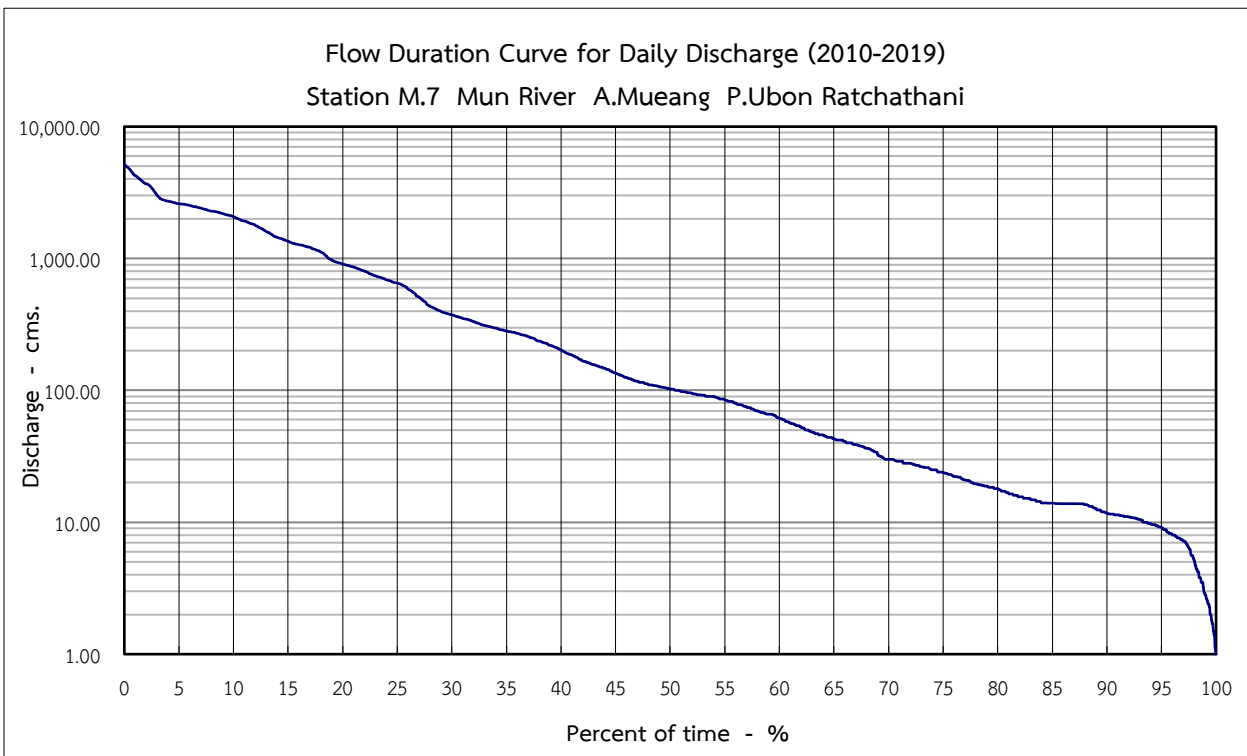
Flow Duration Curve for Daily Discharge (2010-2019)  
Station M.5 Mun River A.Rasi Salai P.Si Sa Ket



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,891.8	641.2	200.0	70.1	20.5	13.0	3.8	3.1	1.9	0.2	0.0

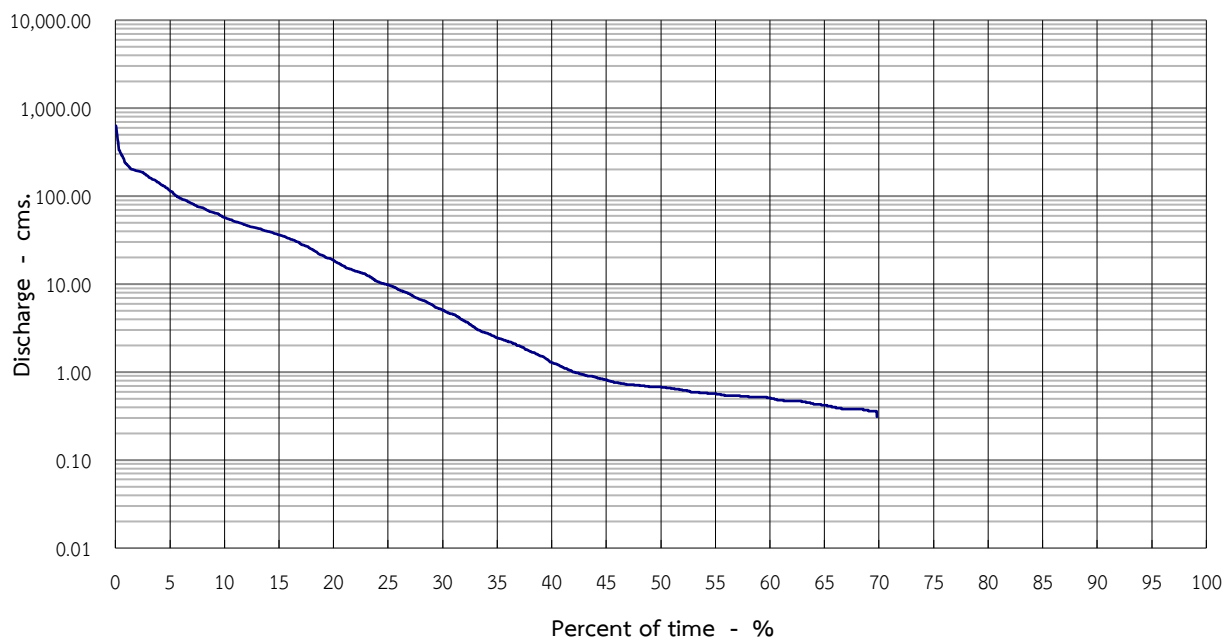


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,185.0	288.4	125.4	37.0	2.2	0.8	0.0	0.0	0.0	0.0	0.0



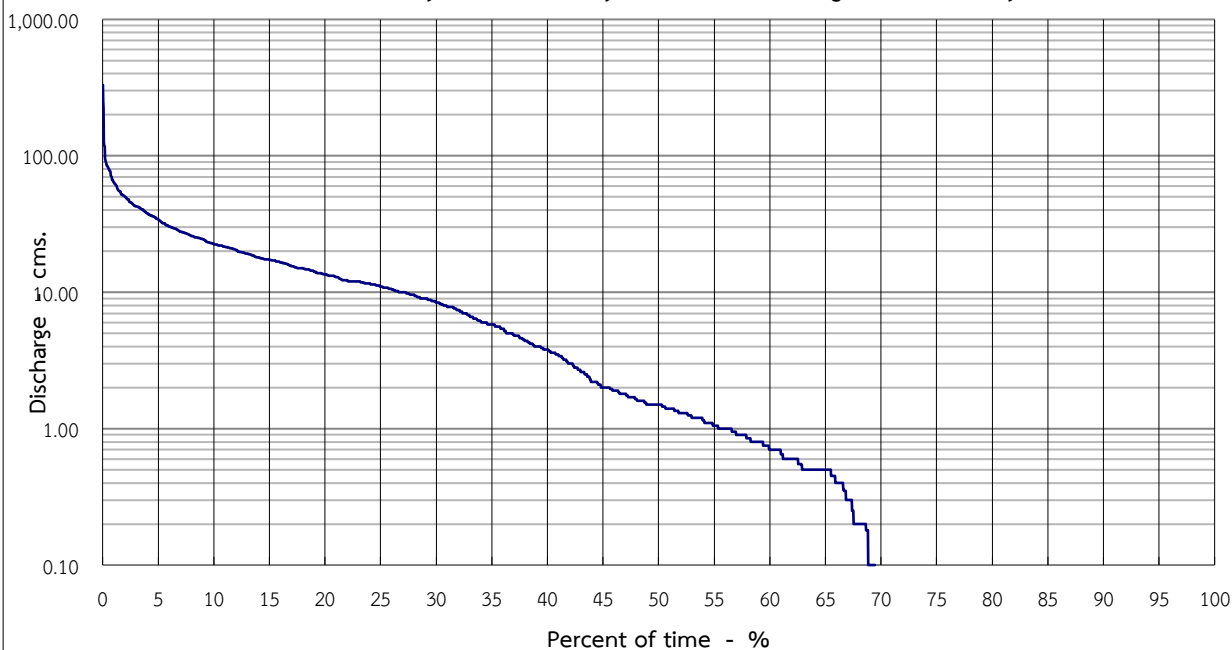
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,257.6	2,067.8	906.1	373.1	102.5	62.0	18.0	14.0	11.7	9.2	1.0

Flow Duration Curve for Daily Discharge (2010-2019)  
Station M.9 Huai Samran A.Mueang P.Si Sa Ket



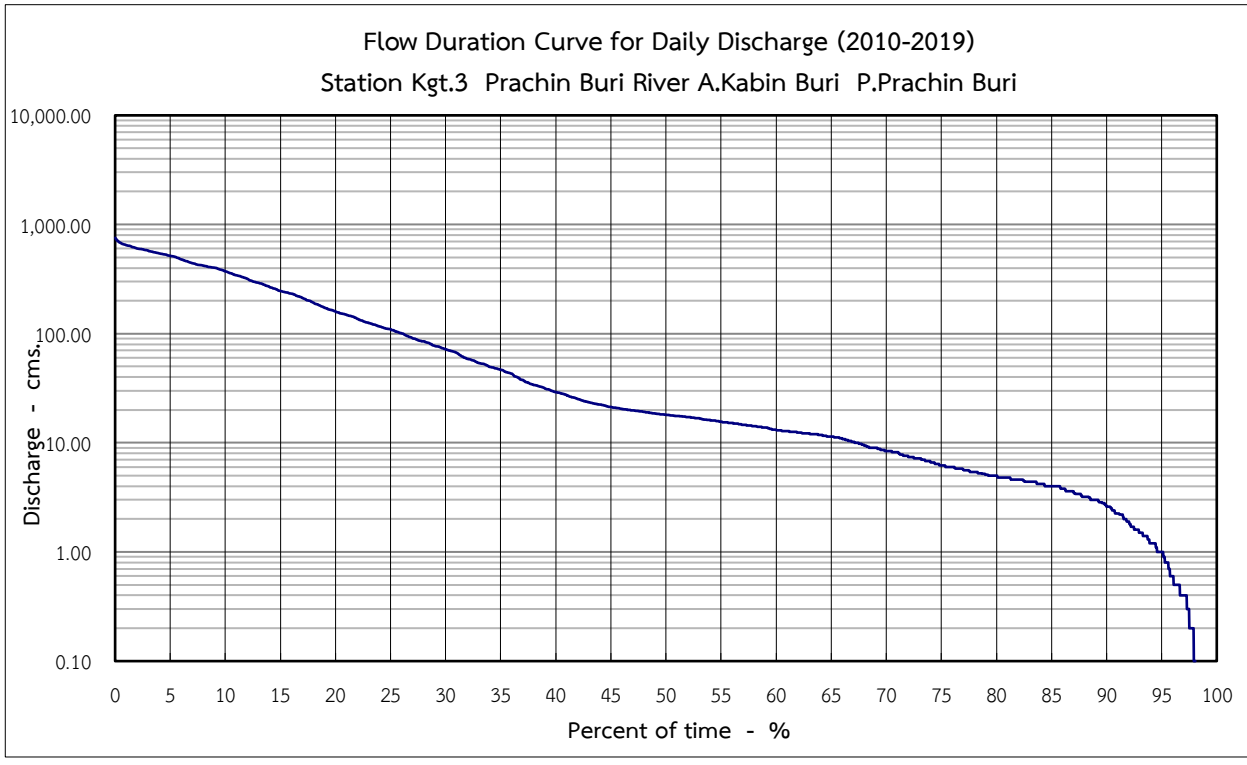
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	232.4	57.1	18.6	5.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2010-2019)  
Station Ny.4 Nakhon Nayok River A.Mueang P.Nakhon Nayok

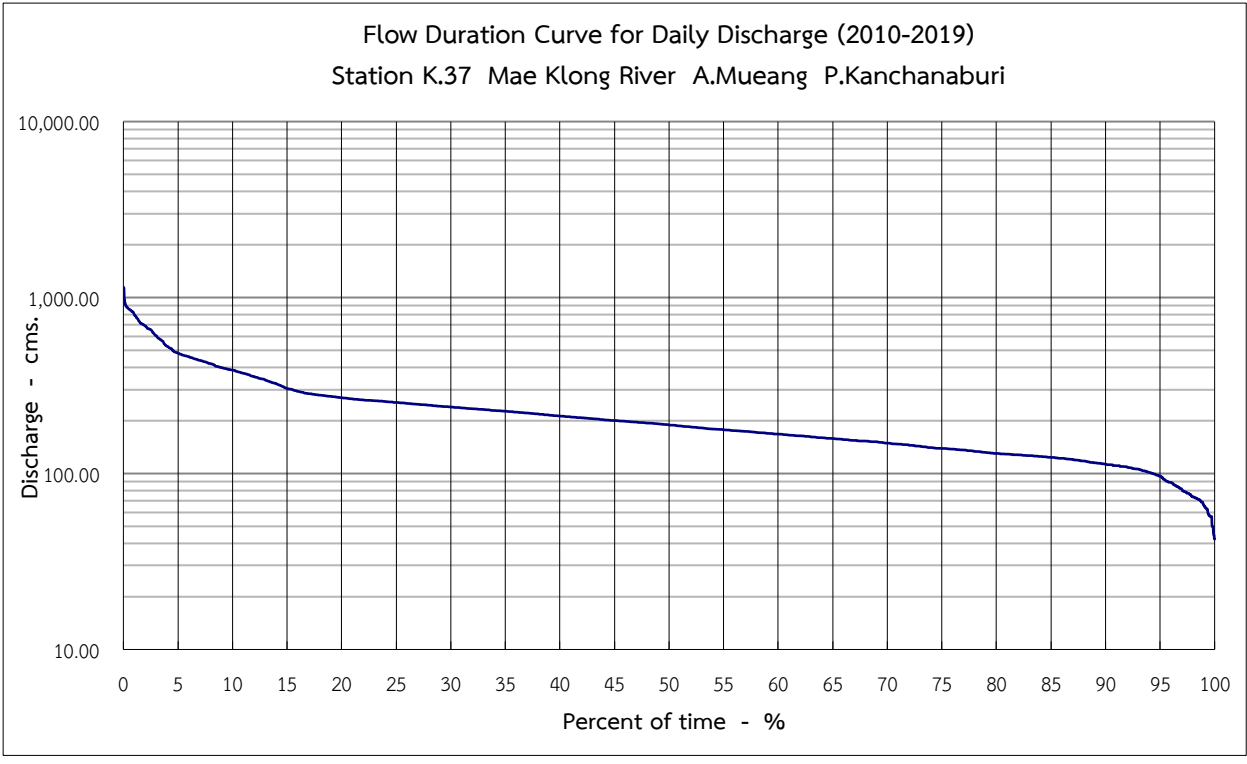


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	63.9	22.6	13.5	8.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0



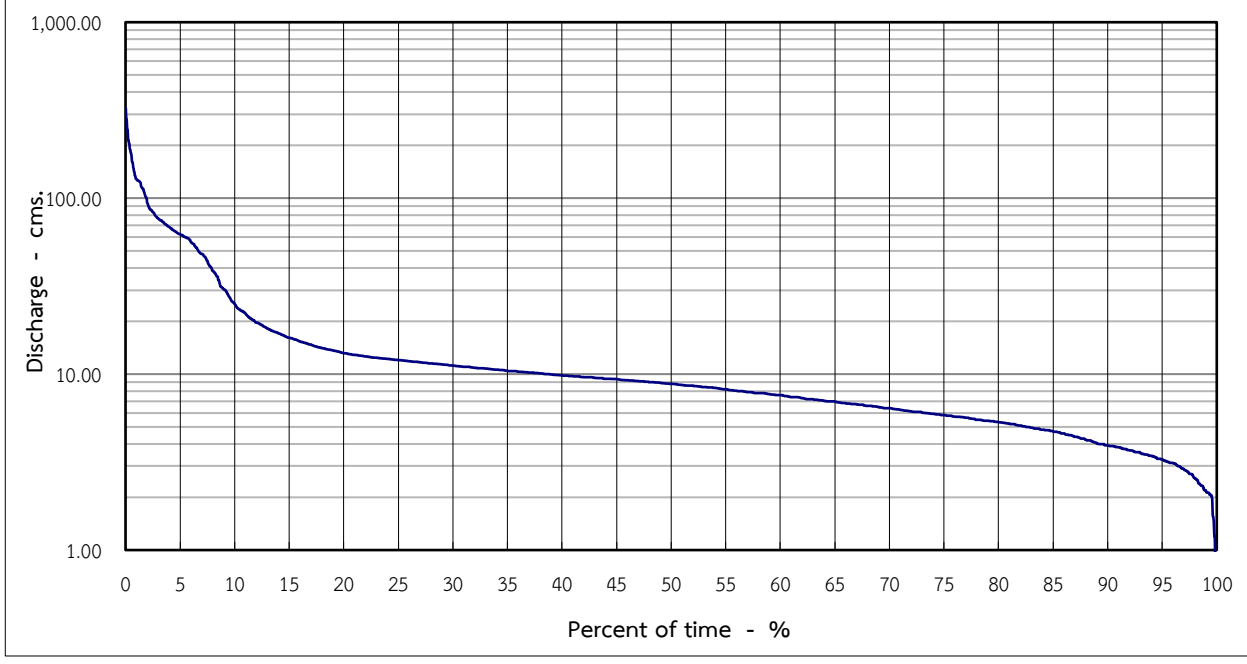


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	646.8	372.7	159.4	72.0	18.1	13.2	5.0	4.0	2.6	1.0	0.0



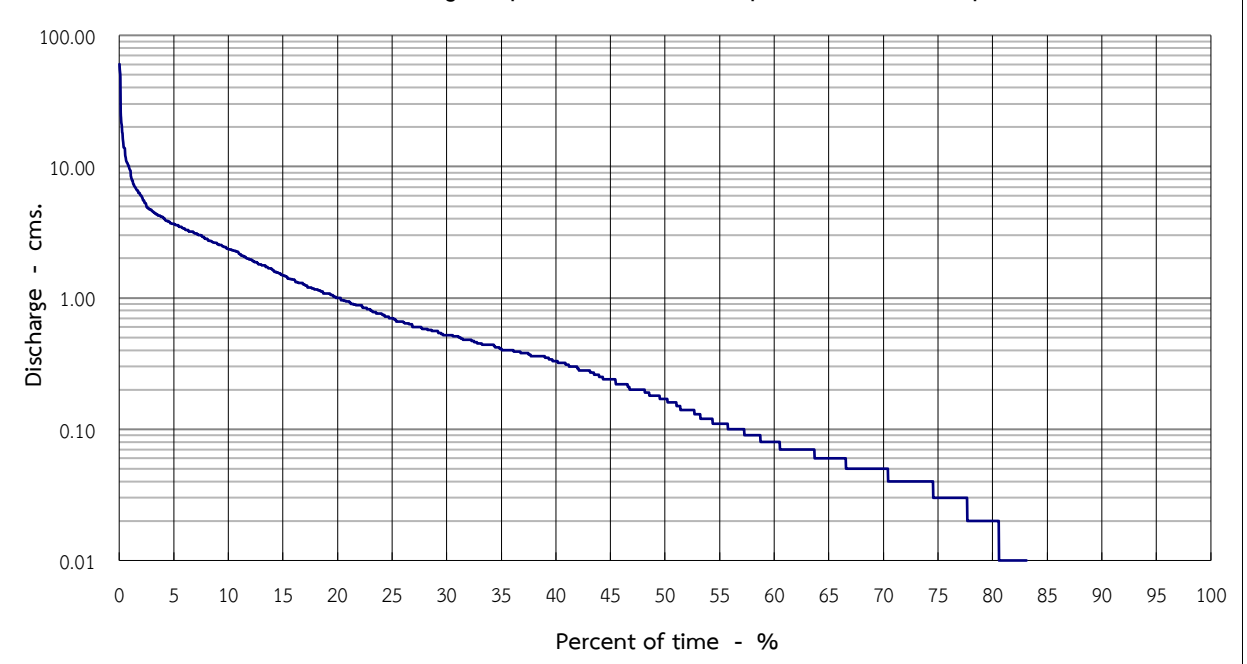
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	797.7	387.6	269.6	238.6	188.9	167.5	130.0	123.6	113.2	96.6	42.4

Flow Duration Curve for Daily Discharge (2010-2019)  
 Station B.10 Phetchaburi River A.Tha Yang P.Phetchaburi



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	128.4	25.1	13.2	11.2	8.8	7.6	5.3	4.7	3.9	3.3	0.4

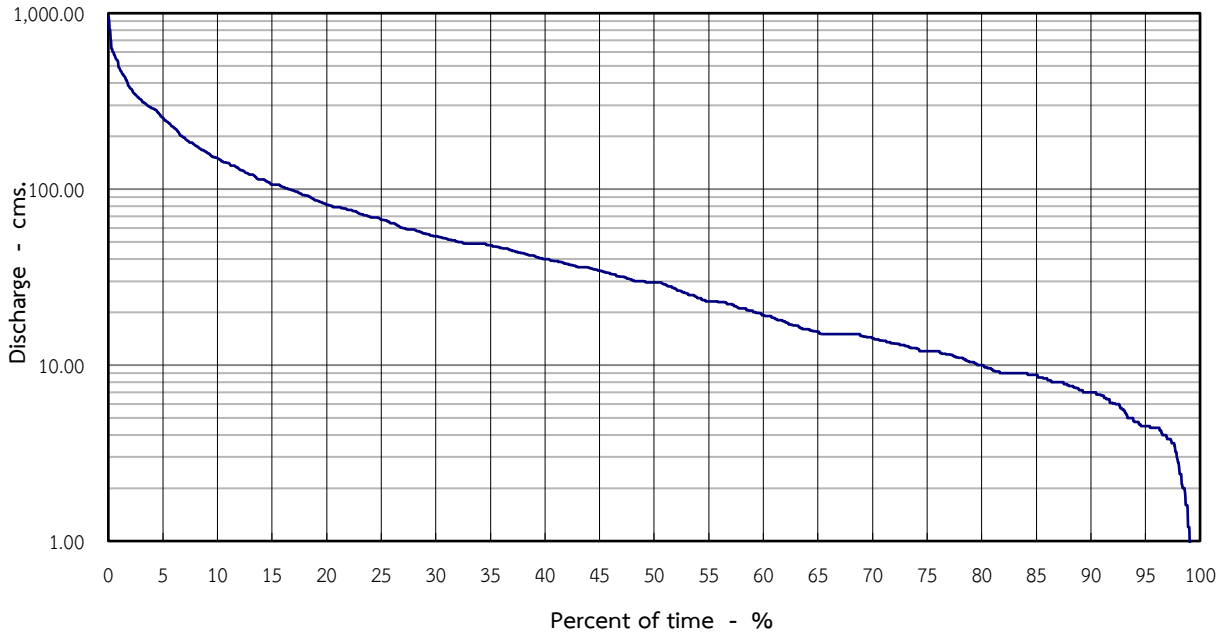
Flow Duration Curve for Daily Discharge (2010-2019)  
 Station Gt.9 Khlong Thap Sakae River A.Thap Sakae P.Prachuap Khiri Khan



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	9.4	2.4	1.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2008, 2010-2011, 2013-2019)

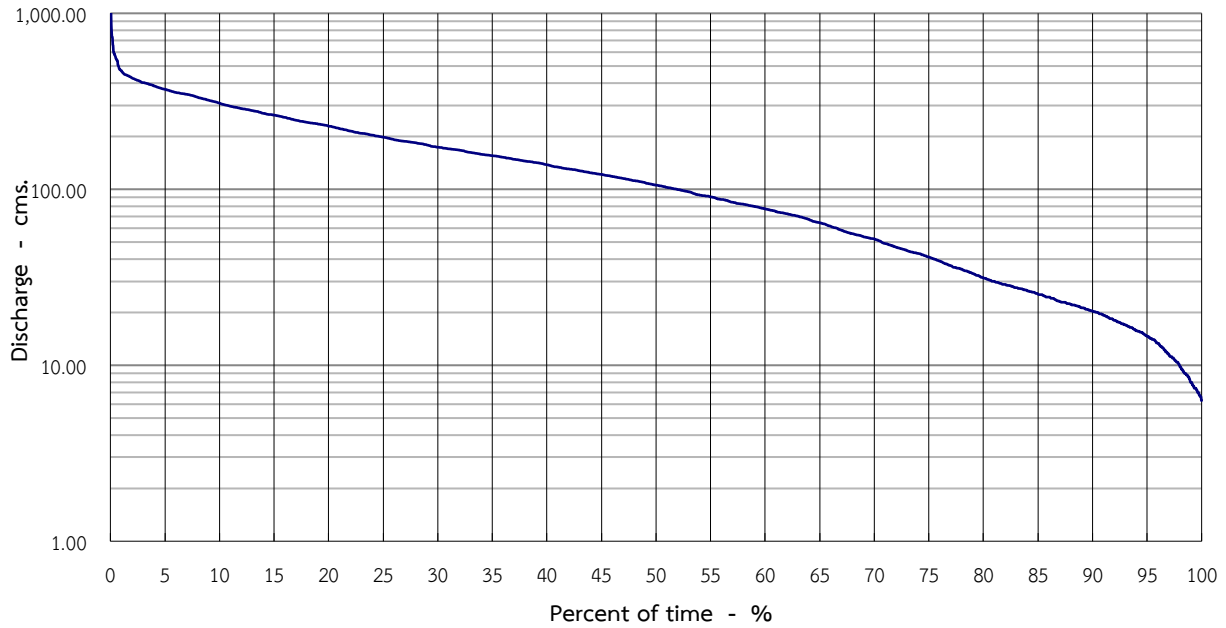
Station X.187 Klong Ta Kuaw Pa A.Ta Kuaw Pa P.Phangnga



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	489.3	149.9	81.5	54.0	29.5	19.2	10.0	8.8	7.0	4.5	0.2

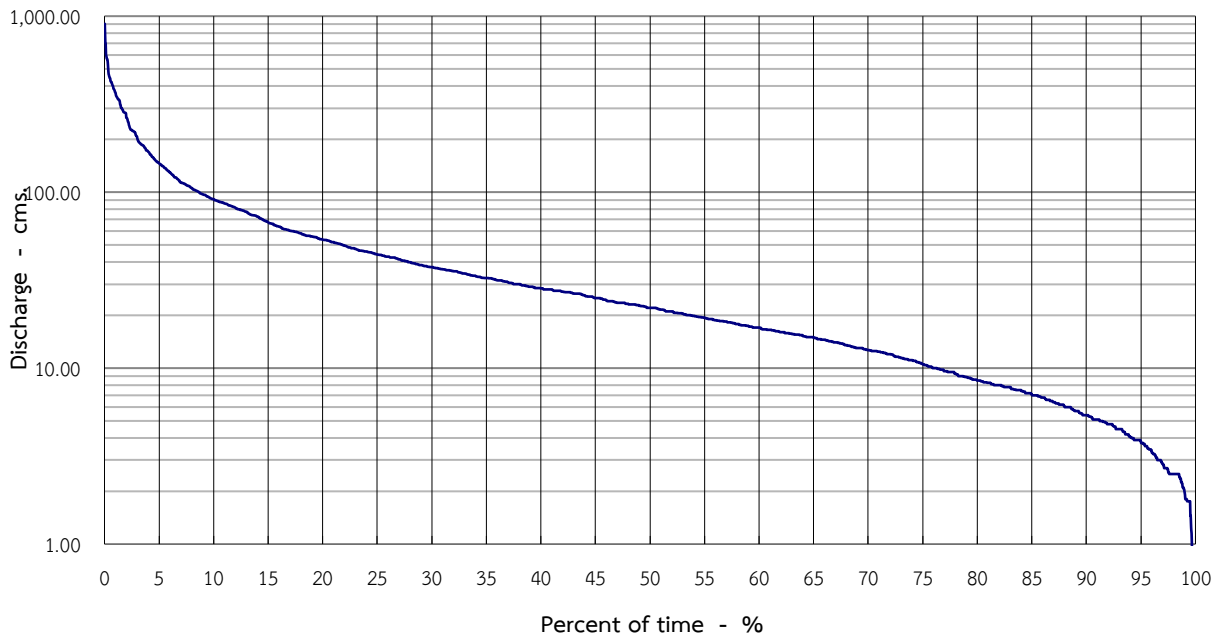
Flow Duration Curve for Daily Discharge (2010-2019)

Station X.37A Tapi River A.Phraseang P.Surat Thani



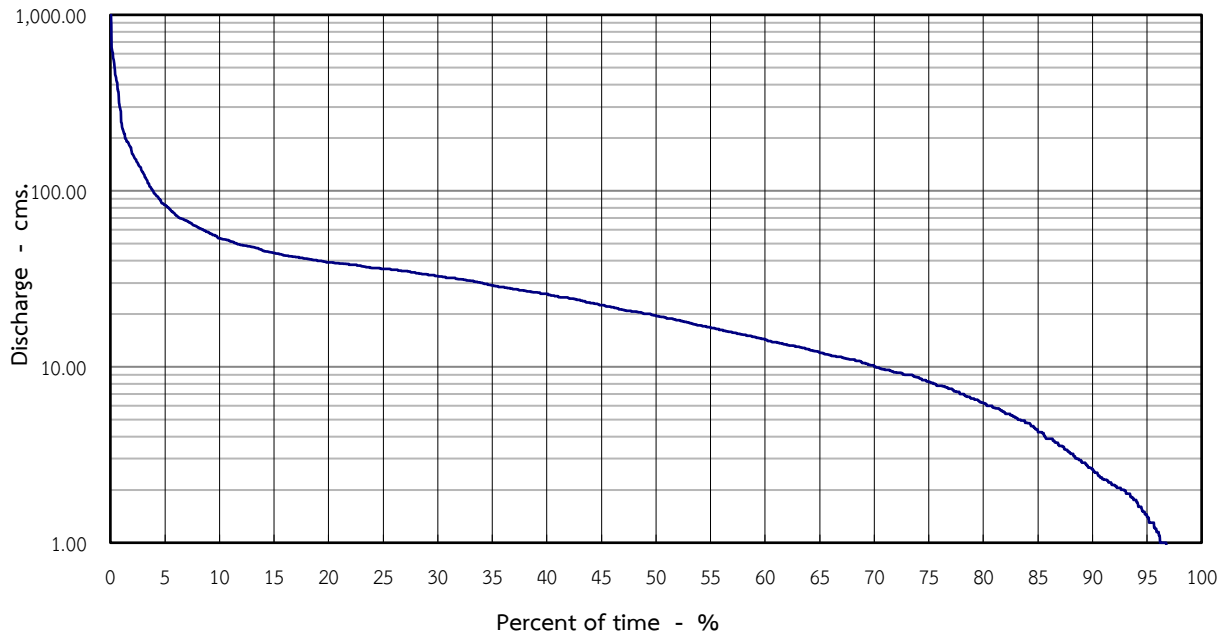
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	472.9	308.9	228.8	173.3	105.6	77.3	31.4	25.3	20.3	14.6	6.3

Flow Duration Curve for Daily Discharge (2010-2019)  
 Station X.158 Klong Tha Taphao A.Tha Sae P.Chumphon



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	367.5	91.2	53.7	37.5	22.0	17.0	8.5	7.1	5.4	3.8	0.0

Flow Duration Curve for Daily Discharge (2010-2019)  
 Station X.90 Klong U-Taphao River A.Klong Hoi-Khong P.Songkhla



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	244.7	53.8	39.2	32.8	19.5	14.3	6.3	4.3	2.6	1.4	0.0